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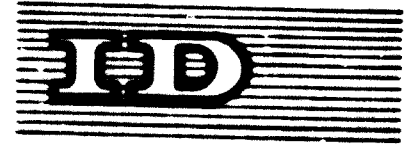
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004284



United Nations Industrial Development Organization

Distr.  
GENERAL

ID/B/97(Part III)  
23 March 1972

ORIGINAL: ENGLISH

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**Industrial Development Board**

Sixth Session

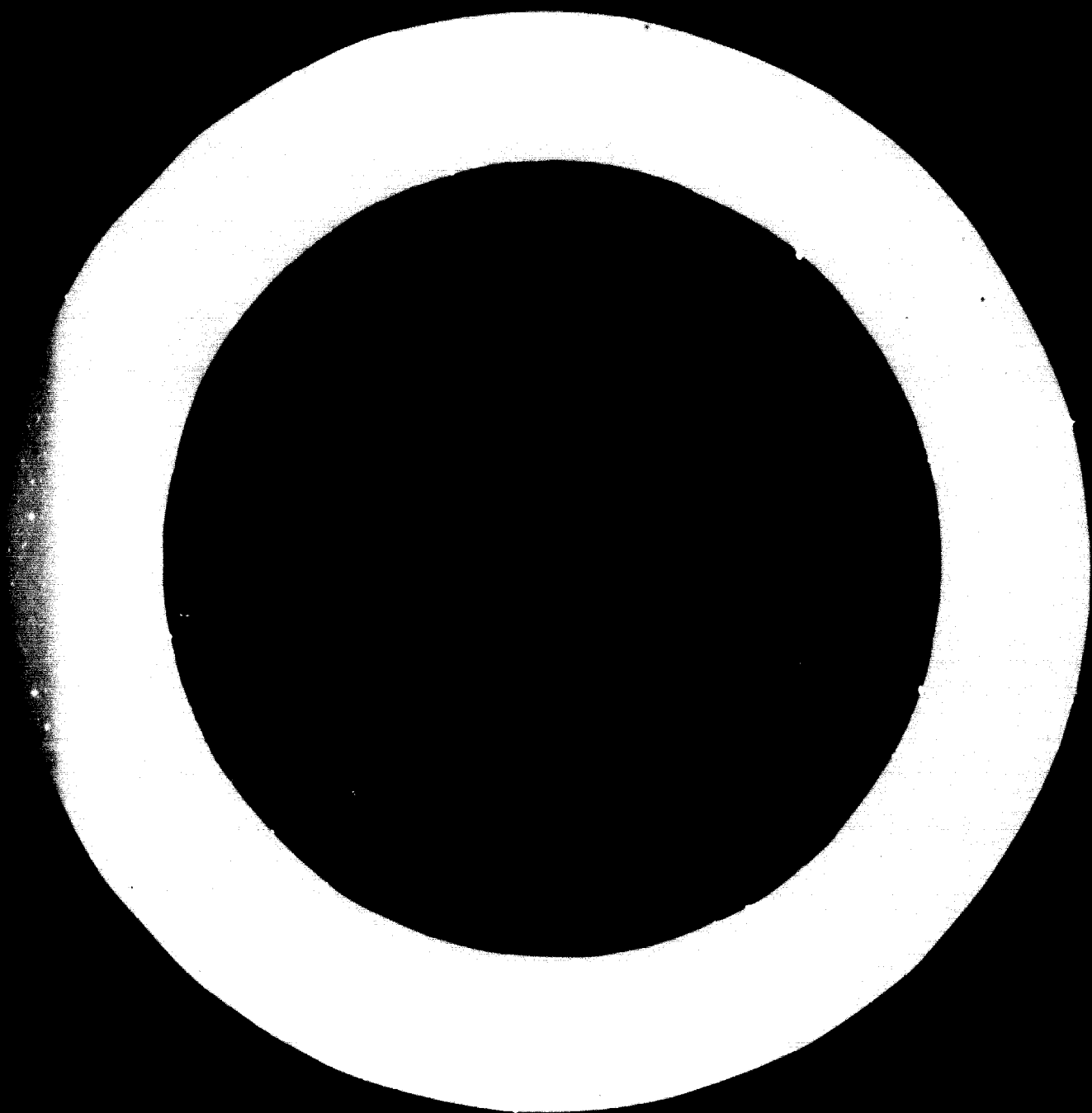
Vienna, 23 May - 2 June 1972

Agenda item 5a

**PROGRAMME OF WORK FOR 1978, REPORT OF  
ACTIVITIES IN 1971 AND UPDATING OF 1972 PROGRAMME**

**PART THREE**

**LISTS OF OPERATIONAL AND SELECTED SUPPORTING PROJECTS**





United Nations Industrial Development Organization

Distr.  
GENERAL

ID/B/97(Part III)/Corr.1  
9 May 1972

ORIGINAL: ENGLISH

## Industrial Development Board

Sixth Session

Vienna, 23 May - 2 June 1972

Agend. item 5a

### PROGRAMME OF WORK FOR 1973, REPORT OF ACTIVITIES IN 1971 AND UPDATING OF 1972 PROGRAMME

#### PART THREE

#### Lists of operational and selected supporting projects

#### Corrigendum

Page 296, under the heading: "Group 5: Fertilizer, Pesticide and  
Petrochemical Industries"

Delete the entry "5.03.03 Workshop on pesticides"

Page 303

Insert between the entries of Groups 13 and 17 the following:

#### "Group 15: Industrial Surveys and Studies"

15.03.03 Expert group meeting on the activities of UNIDO  
in the field of industrial surveys"

Page 306, under the heading: "Group 5: Fertilizer, Pesticide and  
Petrochemical Industries"

Insert the entry "5.03.03 Expert group meeting on pesticides"

Page 307, under the heading: "Group 13: Industrial Financing and  
Investment Promotion"

Insert the entry "13.08.03 Expert group meeting to further  
co-operation among investment  
promotion agencies"

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## PREFACE

In addition to the brief lists of titles of approved operational projects, which are included under the respective groups of activities (ID/B/97 (Part II and Annex and 2)), it was considered useful to present to the Industrial Development Board a detailed and complete list of approved projects by regions and countries (List One). As an introduction to the operational activities being undertaken by UNIDO within a given country, a brief essay on the industrial situation of that country has been included. The list also contains information about the source of financing, the groups of activities involved, the expenditures up to 1971 and in 1971 and the planned expenditures for 1972, 1973 and beyond. An attempt has also been made to group the operational projects, within each country, according to specific industrial areas. The Indicative Planning Figures (IPF) proposed by UNDP are given in brackets under the relevant headings. These figures are not commitments but reasonable firm indications for the purpose of forward programming.

Forecast of requirements for additional operational projects are presented by groups of activities and regions (List Two).

Four further lists, covering the years 1971 to 1973, have been compiled on: in-plant training courses (List Three); symposia, seminars, workshops and other meetings (List Four); expert group meetings (List Five); and studies and research projects (List Six).

**LIST ONE**

**APPROVED OPERATIONAL PROJECTS, BY REGIONS AND COUNTRIES,  
WITH COUNTRY INTRODUCTIONS**

AFRICA

Algeria

The main industries in Algeria are mining (oil, iron ore, phosphates), food processing, chemicals (fertilizers, petrochemicals), iron and steel, mechanical industries, building materials, textile and leather goods. In 1964, industry accounted for 29.1 per cent of the GDP. The current Five-year National Development Plan provides an estimated investment of 27,740 million dinars of which 12,400 million, or 45 per cent, is to be invested in the industrial sector.

The main areas of UNIDO assistance have been the evaluation of industrial projects and the carrying out of feasibility studies for the development of new industries within the framework of the UNDP/SF project, Centre for Industrial and Technological Studies (ALG-18). It is foreseen that this assistance will continue for another two years. Maintenance and repair of industrial equipment, industrial utilization of cork, and the selecting and forging of equipment are other areas of assistance. During 1971, 15 UNIDO experts served in Algeria for a total of 112 man/months. In addition, four fellowships were awarded to national personnel. Subcontracting arrangements valued at \$115,420 were concluded and equipment worth \$2,521 was delivered.

Algeria is participating in a regional project, Centre for Industrial Studies for the Maghreb (SF/REG-72), which provides facilities for the preparation of selected industrial surveys in fields of interest to Maghreb States. As a member of the Industrial Development Centre for Arab States (IDCAS), Algeria is benefitting from the assistance UNIDO is currently extending to this organization. In addition, two Algerian nationals participated in a training workshops and an in-plant group training course organized by UNIDO in 1971.

In July 1970, an inter-agency programming exercise of technical assistance was undertaken under the joint auspices of the Government and UNDP. This exercise, in which UNIDO took an active part, formed the basis of a Country Programme for 1972 and 1973; the Programme will be submitted to the UNDP Governing Council for approval in January 1972.

An Industrial Development Field Adviser to be posted in Rabat, Morocco, in 1972 will also serve Algeria.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
ALG-18	SF	17	Centre for industrial and technological studies - Purpose: to assist in the establishment of an autonomous body to evaluate industrial feasibility studies and advise on projects to be carried out under the national industrial development programme. The Plan of Operation was signed in January 1969. The project is fully staffed.	212.6	157.4	369.4
						beyond 1973

Industrial studies

Approved: January 1968 UNDP: \$739,400  
Operational: February 1969 Gov't: \$629,000  
Duration: 3 years



AFRICA (cont'd)

ALGERIA (cont'd)

Project number	Source of funds	Start	Project title and project description	Expenditure (in '000 US\$) up to 1971	1971	1972	1973	Planned expenditure (in '000 US\$) beyond 1973
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Industrial studies (cont'd)

17 The continuation of the centre's activities was included in the country programme for 1972-1973.

Direct assistance to national companies

ALG/69/11	TA	6	Treatment and industrial application of cork - continuation of SIS project ALC-9 (1/6 m/m expert services)	-	6.0	7.5	-	-
ALG/71/8	TA	10	Purchasing engineer (1/6 m/m expert services)	-	12.0	-	-	-
67/85 ALC-2	SIS	6	Reactivation of industrial plants (1/12 m/m expert services implemented prior to 1971; 1/4 m/m fellow-ship in 1971)	22.5	-	2.6	-	-
69/559 ALC-9	SIS	6	Assistance to Société Nationale de Lièges - cork processing (1/6 m/m expert services)	-	-	12.0	-	-
70/384 ALC-14	SIS	6	Assistance to the Société Nationale de Conserveries (SOALCO) (1/5 m/m expert services)	-	-	12.0	-	-

Repair and maintenance

ALG/69/12	TA	1	Maintenance and repair of industrial equipment - continuation of SIS project ALC-13 (2/2 m/m expert services)	-	12.0	15.0	-	-
69/525 ALC-8	SIS	1	Preventive and progressive maintenance services - assistance to National Society on Preventive and Progressive Maintenance Services (SNPPAC) (1/6 m/m expert services)	9.0	6.0	-	-	-
70/384 ALC-13	SIS	1	Maintenance and repair of equipment for mechanical industries (3/8 m/m consultancy services)	-	16.0	1.0	-	-

AFRICA (cont'd)

ALGERIA (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
			<u>Repair and maintenance (cont'd)</u>					
70/885 ALC-15	SIS	2	Assistance in the establishment of a forging shop (1/6 m/m expert services)	-	4.0	8.0	-	-
VC/00/1	GTF	1	Repair shops and mobile repair units for agricultural equipment (2/6 m/m expert services; \$110,000 equipment; \$11,000 miscellaneous)	-	-	131.0	-	-
			<u>Training of national personnel</u>					
ALG/01/1/1	RP	1	Mechanical engineering (1/6 m/m fellowship)	-	3.0	-	-	-
ALG/03/1/3	RP	3	Construction and building materials (1/6 m/m fellowship)	-	2.9	-	-	-
ALG/05/2/1	RP	5	Fertilizer, pesticide and petrochemical industries (4/24 m/m fellowships)	-	-	13.6	-	-
ALG/06/2/2	RP	6	Food industries (1/12 m/m fellowship)	-	-	5.8	-	-

AFRICA (cont'd)

Botswana

The industrial sector in Botswana accounts for approximately 9 per cent of the GDP, with over 6 per cent coming from one plant, the abattoir of the Botswana Meat Commission, one of the largest cattle processing plants in Africa. The remaining manufacturing industries are small-scale units, mainly for the processing of agricultural produce. Under the National Development Plan (1970-1975), the main efforts are being concentrated on the development of infrastructure, mining and agriculture.

In view of the limited importance attached to industrial development during the last years, the assistance of UNIDO has been slight. Recently, however, the Government has indicated an interest in obtaining more assistance from UNIDO. The only project that was implemented with the assistance of UNIDO in

1971 was an industrial survey with one expert serving for two months. One fellowship post for six months was also established.

The Administrator of UNDP has proposed an Indicative Planning Figure (IPF) of \$5 million for Botswana for the period 1 January 1972 to 31 December 1976. The Ministry of Finance and Development Planning is currently in the process of preparing a detailed outline of Botswana's requirements from UNDP.

A representative of the Botswana Development Corporation participated in the Third African Meeting to Promote Specific Industrial Projects, held in Abidjan, Ivory Coast. An Industrial Development Field Adviser stationed in Lusaka, Zambia, is also serving Botswana.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
70/721 BOT-1	SIS	15	Industrial economist (1/2 m/m expert services)	1.0	2.0	-	-	-
BOT/03/2/1	RP	3	Production of building materials and components (1/6 m/m fellowship)	-	-	3.4	-	-

Industrial surveys

Construction and building materials industries

AFRICA (cont'd)

Burundi

The main industries in Burundi are beverages, food processing and textiles. The industrial sector as a whole accounts for 4.3 per cent of the GNP and it is estimated that public investment accounts for 2.5 to 5 per cent. Investment is largely dependent on foreign aid. Incentive legislation has been passed to attract new investment and a National Development Bank has been established. Further, the Government has applied for associate membership in the East African Community.

The assistance of UNIDO to Burundi has been largely in the areas of evaluation of industrial projects and preparation of feasibility studies for the development of new industries. Feasibility studies on the manufacture of agricultural equipment, tobacco processing and the milling industry have been carried out. Present UNIDO technical assistance in Burundi is in the field of small-scale industries, in which ILO is co-operating.

During 1971, five experts and short-term consultants from UNIDO visited Burundi. Three fellowship posts were established for Burundi but could not be filled owing to a lack of qualified national personnel.

The Government intends to have the inter-agency programming exercise of technical assistance carried out in 1972 under the joint auspices of the Government and UNDP; UNIDO will participate in this exercise. Burundi participated in the Third African Meeting to Promote Specific Industrial Projects, held by UNIDO, and sent participants to the Seminar on UNIDO Operations. The Burundi authorities have also established a National Committee for UNIDO.

The Industrial Development Field Adviser stationed in Kinshasa visited Burundi twice during 1971.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Small-scale industry</u>							
BDI/68/3	TA	11	Development of small-scale industries (1/36 m/m expert services; 3/20 m/m fellowships; equipment)	23.3	22.0	33.2	17.5
BDI/11/2/2	RP	11	Industrial estates organization (1/6 m/m fellowship)	-	-	3.4	-
<u>Agricultural machinery and implements</u>							
70/795 BDI-9	SIS	1	Agricultural machinery manufacture feasibility study mission (joint UNIDO/FAO) (1/3 m/m expert services)	-	6.0	-	-

AFRICA (cont'd)

BURUNDI (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
68/413 BDI-4	SIS	6	<u>Light industry</u> Feasibility study for a particle board plant (consulting firm)	6.6	16.6	-	-
71/1147 BDI-10	SIS	3	<u>Construction and building materials industries</u> Assistance in the manufacture of construction materials and baked clay products (1/4 m/m expert services)	-	4.0	4.0	-
BDI/06/1/1	NP	6	<u>Industrial training</u> Milling techniques (2/12 m/m fellowships)	-	6.8	-	-
BDI/7/2/1	NP	7	Industrial administration: industrial legislation (1/12 m/m fellowship)	-	-	5.8	-

AFRICA (cont'd)

C A M E R O O N

At present, Cameroonian industry is concentrated at Douala, although steps are being taken towards decentralization. There are between 75 and 80 large industrial plants in Cameroon, and food processing is the most important single industry.

The main efforts of UNIDO in Cameroon have been in the field of small-scale industry and in the programming of industrial development. Since September 1970, assistance from UNIDO has included a pilot maintenance and repair shop. In 1970 and 1971, UNIDO also supplied an expert in industrial financing. In planning is an industrial development centre which will co-ordinate

these activities and orient them to the economic and political situation of Cameroon. Fellowships are planned for the food and light industries and for the engineering industries. French bilateral assistance has been associated with the implementation of several technical assistance projects.

A Country Programme for 1973 through 1976 is being prepared for presentation to the UMDP Governing Council for approval in June 1972. The Industrial Development Field Adviser at Kinshasa also serves Cameroon.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
CMR-17	SP	1	<u>Repair and maintenance</u> Pilot programme in maintenance and repair - Purpose: to assist the Government to survey the needs of, and provide assistance in, repair and maintenance to public and private enterprises in Douala. The project will be closely co-ordinated with the SP project CMR-12 (executing agency: ILO). The Plan of Operation was signed in February 1971. The project manager began his assignment in September 1970 and the initial phase of project implementation is nearing completion. A Phase II of the project is planned for 1973-1975.	10.5	52.5	108.7	76.0
							beyond 1973
							(140.0)

Approved: January 1970 UNDP: \$274,600  
Duration: 2 years Gov't: \$130,000

**AFRICA (cont'd)**

**C a s e s (cont'd)**

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<b><u>Small-scale industry</u></b>							
CMR-12	SF	11	Centre of assistance to small-scale industries, Douala - Purpose: UNIDO is associated with this project (executing agency: ILO), providing an industrial economist.	-	-	23.8	-
CMR/69/8	TA	11	Industrial engineer (1/12 m/m expert services)	16.0	8.0	-	-
67/233 CMR-2	SIS	11	Pilot industrial estate (1/12 m/m expert services; 1/6 m/m fellowship)	25.0	-	3.5	-
<b><u>Industrial programming and financing</u></b>							
CMR/70/3	TA	12	Industrial engineer (1/26 m/m expert services)	3.6	24.0	30.0	-
67/165 CMR-1	SIS	13	Industrial finance adviser to the National Investment Corporation (1/12 m/m expert services)	17.1	8.0	-	-
71/1290 CMR-5	SIS	13	Assistance in the identification and preparation of industrial projects (1/1 m/m expert services)	-	2.0	-	-
<b><u>Industrial training</u></b>							
CMR/06/2/1	RP	6	Food industries (1/6 m/m fellowship)	-	-	3.4	-

AFRICA (cont'd)

The Central African Republic

In the Central African Republic, the industrial sector includes sawmills, which supply approximately 40,000 m<sup>3</sup> of wood annually, textile manufacture (some twenty ginning mills and weaving at Boali) and food processing (rice mills, breweries etc.). The development of the industrial sector is somewhat hampered by a number of natural and geographical factors.

Recent efforts to develop the industrial sector have been supported by UNIDO. The assistance of UNIDO has been concentrated on the bread and biscuit making industry, oil mills and soap production. The agro-industrial industry (medicinal plants

and essential oils, detergents and plywood) is expected to provide a basis for more intensified industrial development in the near future. French bilateral assistance has been associated with several technical assistance projects.

A country programming exercise for 1972 through 1976 is underway. It is envisaged that the Country Programme will be presented to the UNDP Governing Council for approval in June 1972. A National Committee for UNIDO has also been established. The Industrial Development Field Adviser stationed at Kinshasa also serves the Central African Republic.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
69/586 CAF-8	SIS	15	Survey of industrial opportunities (1/3 m/m expert services)	6.9	2.0	-	-
<u>Industrial surveys</u>							
<u>Small-scale industry</u>							
70/1089 CAF-14	SIS	11	Development of small-scale industry (1/12 m/m expert services)	-	4.0	20.0	-
<u>Food and light industries</u>							
CAF/06/1/1	RP	6	Textile industry (design) (2/12 m/m fellowships)	-	6.6	-	-
CAF/06/2/1	RP	6	Wood processing industry (2/12 m/m fellowships)	-	-	6.8	-



AFRICA (cont'd)

The Central African Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
			<u>Repair and maintenance</u>		
70/930 CAP-11	SIS	1	Exploratory and advisory mission on industrial maintenance and repair (3/3 m/m expert services)	- 6.0	- - -
			<u>Building materials industry</u>		
	IPP	3	Feasibility study on development of cement industry - establishment of a small-scale cement plant	- -	(50.0) (150.0) (400.0)
			<u>Industrial research</u>		
	IPP	8	Establishment of national centre for industrial research	- -	(50.0) (100.0) (300.0)

C h a d

The economy of Chad is 90 per cent rural. The industrial development of the country reflects this predominance of agriculture and stock raising for it is oriented towards the industrial production of meat, agricultural equipment, bread, oil and soap. Cotton and shea are the only crops that are industrially processed.

As might be expected, the assistance rendered to Chad by UNIDO has been primarily in the food processing industry. A mission on oil technology was carried out from October 1970 to May 1971, and a second mission is now being undertaken. Parallel to this, a mission for the study of a plant for the production of biscuits has been extended to include baking processes.

AFRICA (cont'd)

Chad (cont'd)

The Government has made provisions for the continuation of this project. Another mission investigated the possibility of locally manufactured agricultural equipment at prices that would compare favourably with foreign competition. Several technical assistance projects have benefitted from French bilateral assistance.

The UNDP country programming exercise for the period 1972 through 1976 has been completed. It is envisaged that the Country Programme will be presented to the UNDP Governing Council for approval in January 1972.

The Industrial Development Field Adviser stationed in Kinshasa also covers Chad.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
<u>Economic planning</u>								
CHD/68/14	TA	11	Economic planning team on management and development of small-scale industry (joint project with UN; 1/36 m/m expert services)	-	-	30.0	30.0	30.0
CHD/68/14	IPF	11	Economic planning team on management and development of small-scale industry (joint project with UN; industrial economist and consultancy services)	-	-	(60.0)	(60.0)	(180.0)
	IPF	11	Industrial feasibility studies on development of small-scale industries	-	-	(20.0)	(20.0)	(150.0)
<u>Agricultural machinery and implements</u>								
71/1187 CHD-8	SIS	1	Exploratory mission on manufacturing of agricultural tools and implements (proposal appraisal) (1/0.75 m/a expert services)	-	2.0	-	-	-
	IPF	1	Establishment of workshop for production and repair of agricultural tools and implements	-	-	(55.0)	(55.0)	(105.0)

AFRICA (cont'd)

C.h.a.d. (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Start</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
			<u>Food and light industries</u>		
CHD/06/1/1	BP	6	Wooden carts, wheels, and particle board production (1/2 m/m expert services)	- 6.6	- - -
CHD/06/2/2	BP	6	Food industries (1/6 m/m fellowship)	-	- 3.4 -
69/674 CHD-5	SIS	* 6	Vegetable oil technology (1/6 m/m expert services; equipment)	3.7 10.0	- - -
69/676 CHD-7	SIS	6	Assistance in biscuit technology (1/2 m/m expert services)	3.2 2.0	- - -
71/1241 CHD-9	SIS	6	Technical and economic advice on bread and biscuit production (1/2.5 m/m expert services)	- 4.5	- - -
	IPP	6	Training centre for the production of bread and biscuits	-	(40.0) (20.0) (15.0)
			<u>Building materials industry</u>		
CHD/03/2/1	BP	3	Production of building materials and components (1/6 m/m fellowship)	-	- 3.4 -

AFRICA (cont'd)

The Congo

In the People's Republic of the Congo, industry, which already includes the tobacco processing, food, liquid air and metalworking industries, stands to receive new impetus when the large-scale Kouilou project is completed. The relative abundance of arable land and forest and mineral resources (petroleum) as well as the 1961 Investment Code, which affords a number of incentives to new enterprises, should contribute to the industrial development of the country.

The assistance of UNIDO has been largely in the form of expert services. From 1968 to 1970, UNIDO made a study on the development of small-scale industry and, since the beginning of

1971, a UNIDO expert has been establishing an industrial development programme, as adviser to the minister responsible for this sector. A specialist has prepared an initial study on the establishment of a pineapple processing plant. A consultancy firm is expected in Brazzaville to finalize this study, especially regarding markets. Congolese nationals have participated in several training programmes organized by UNIDO. French bilateral assistance has been associated with the implementation of several technical assistance projects.

The Industrial Development Field Adviser stationed at Kinshasa also serves the People's Republic of the Congo.

Project number	Source of funds	Group	Product title and product description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
CON(B)/71/4	TA	12	Industrial adviser (1/6 m/m expert services)	-	4.0	10.0	-
70/1131 CON(B)-12	SIS	12	Regional industrial adviser (1/6 m/m expert services)	-	12.0	-	-
<u>Industrial planning</u>							
<u>Identification of new industrial opportunities</u>							
70/855 CON(B)-7	SIS	6	Feasibility study on establishment of integrated agro-industrial pineapple processing combine (consulting firm)	-	15.0	15.0	-
71/1230 CON(B)-15	SIS	4	Exploratory mission to discuss the utilization of potash processing residues as a source of sodium chloride (1/0.25 m/m expert services)	-	3.0	-	-
71/1349 CON(B)-16	SIS	3	Feasibility study on the production of building materials and ceramics (consulting firm)	-	10.0	5.0	-
71/1371 CON(B)-17	SIS	13	Assistance in the identification and preparation of industrial projects (2/1 m/m expert services)	-	2.0	-	-

beyond 1973

AFRICA (cont'd)

Table C.0.0.0 (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Identification of new industrial opportunities (cont'd)

IPP	4	Assistance towards utilization of potash processing residues and extraction of rock salt	-	-	(15.0)	(100.0)	(100.0)
COM(B)/11/2/1	11	<u>Small-scale industry</u> Industrial extension services (2/12 s/a fellowships)	-	-	6.8	-	-

Dahomey

Despite the existence in Dahomey of an investment code that grants privileges to medium- and small-scale industries, the industrial sector represents only 6 per cent of the GDP. The main industrial establishments are breweries, mineral water and soft drink factories, jute and textile factories and cement plants at Cotonou and Onigbolo. On the basis of a feasibility study completed by a UNIDO expert, the Djadjo marble deposits are being exploited. A new fishing port with maintenance and repair facilities for small vessels is under construction at Cotonou. Other industrial activities include the production of nails, furniture, compressed air and acetylene. A palm kernel oil mill processes 80 per cent of the domestic kernel. Handicrafts and cottage industries are also important.

During 1971, UNIDO provided assistance to Dahomey in the establishment of a small-scale industry. In addition, a feasibility study was prepared on the establishment of a vegetable oil factory for cotton seed and ground-nut processing and an exploratory mission was sent to Dahomey to assess the solar salt industry. A consulting firm implemented the first phase of a UNDP/SF project on maintenance and repair and construction of small vessels. During 1971, a total of nine experts and consultants served in the country for 21 man/months.

The Country Programme is scheduled for presentation to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Abidjan, Ivory Coast, also serves Dahomey.

AFRICA (cont'd)

Dahomey (cont'd)

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
DAH/69/1	TA	11	Development of small-scale industries (2/51 m/m expert services)	41.5	48.0	-	-
<u>Small-scale industry</u>							
69/665 DAH-6	SIS	6	Exploratory missions and feasibility studies to assess new industrial opportunities	-	6.0	-	-
70/826 DAH-4	SIS	4	Feasibility study on establishment of vegetable oil factory for cotton seed and ground-nut processing (1/3 m/m expert services)	-	2.0	-	-
71/1226 DAH-9	SIS	3	Exploratory mission to assess the solar salt industry (1/1 m/m expert services)	-	1.0	-	-
<u>Industrial training</u>							
DAH-12	SF	1	Maintenance and repair of boats. Initial activities have begun with a feasibility study under subcontract, financed as pre-project activity	-	-	150.0	-
DAH/70/2	IPP			-	-	-	(100.0) (100.0)
DAH/03/2/1	TA	10	Industrial management (1/12 m/m fellowship)	-	4.9	-	-
DAH/06/1/3	RP	3	Construction and building materials industries: cement production (2/6 m/m fellowships)	-	-	4.4	-
DAH/06/2/2	RP	6	Light industries: textile industry; ceramic sanitary ware (2/24 m/m fellowships)	-	9.4	-	-
DAH-13	IPP	13	Light industries: textile industries (1/3 m/m fellowship)	-	-	2.2	-
			Establishment of investment development advisory service	-	-	(30.0)	(200.0) (100.0)

AFRICA (cont'd)

Egypt

During the last decade, industry has made considerable progress in Egypt, especially the cotton textile, food processing, engineering and electrical industries. In 1969, 350 million tons of various fabrics were produced, and production in the engineering industry increased in value by 50 per cent, in the electrical industry by 42 per cent and in the food processing industry by 12 per cent. With the completion of the Aswan Dam, a plentiful supply of electricity became available for industry. Plans are underway for a \$E25 million nitrogen fertilizer plant utilizing natural gas deposits. Investments during 1971 through 1976 will be concentrated on iron and steel, petroleum and textiles, with a target figure of \$E779 million.

The assistance rendered by UNIDO to Egypt is directly related to the most important industries: textiles, engineering, metallurgy, petrochemicals and food processing. Quality control of products is of particular concern to the Government, especially for products destined for export. Two UNDP/SF projects, a quality control centre for textiles and a quality control centre for engineering industries, as well as several projects in quality control in the furniture and leather goods industries are also related to this field of development. Feasibility studies on fertilizers and petrochemicals are under consideration.

During 1971, a total of 30 experts and short-term consultants served in Egypt for 240 man/months. In addition, 12 fellowships were awarded to nationals. Subcontracting arrangements valued at \$98,000 were concluded for six projects and equipment worth more than \$100,000 was delivered. Almost all UNIDO projects in Egypt are wholly within the competence of UNIDO and are being implemented by UNIDO, but preliminary work on several projects was undertaken by UNIDO in co-operation with other UN agencies. In two cases, UNIDO has co-operated with USSR bilateral programmes, especially in the processing of ilmenite. In 1971, 25 experts from Egypt served on UNIDO projects in various developing countries.

Egypt is participating in a number of regional and international projects that have been organized by UNIDO, the Industrial Development Centre for Arab States (IDCAS) and the Arab Organization for Standardization and Metrology. Several UNIDO regional meetings have also been held in Cairo.

The Country Programme for 1972 through 1976 is expected to be presented to the UNDP Governing Council for approval in 1973. Egyptian authorities have established a National Committee for UNIDO. UNIDO publications are distributed directly to governmental and professional institutions in the country. An Industrial Development Field Adviser is stationed in Cairo.

AFRICA (cont'd)

Egypt (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
UAR-55	SF	1	<u>Engineering and industrial design development centre</u>  Purpose: to assist in the establishment and initial operation of an industrial design and product development centre. Products are to be adapted to local conditions to ease foreign exchange difficulties which have led to an acute shortage of spare parts and accessories. A team of experts has been at work since early 1969.  Approved: January 1967 UNIP: \$1,035,100 Operational: November 1968 Gov't: \$1,224,000 Duration: 5 years	386.2	247.2	252.5	-	-
UAR-62	SF	6	<u>Textile quality control centre, Alexandria</u>  Purpose: to assist the Government to develop the existing laboratories of the Textile Consolidation Fund in Alexandria into a textile quality control centre. The project manager began his assignment in March 1970. The Plan of Operation was signed in December 1970.  Approved: June 1969 UNIP: \$745,400 Operational: December 1970 Gov't: \$800,000 Duration: 4 years	23.0	34.7	222.8	237.9	153.3
UAR-63	SF	2	<u>Central metallurgical research and development institute</u>  Purpose: to assist the Government in establishing a central metallurgical research and development institute at Dokki, Cairo, to provide technical services to ferrous and non-ferrous metal extracting and metal using industries. The Plan of Operation was signed in April 1971 and a project manager is under recruitment.  Approved: June 1970 UNIP: \$463,700 Duration: 2 years Gov't: \$3,370,000	-	12.0	209.6	196.4	-



AFRICA (cont'd)

E.C.V.P.I (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
UAR-69	SF	5	<u>Demonstration pesticide production plant based on chlorine and bromine resources</u>	15.0	-	481.0	453.5

**Purpose:** to assist the Government in establishing a pesticide production plant to demonstrate the utilization of chlorine and bromine which presently constitute valuable wasted by-products of the chemical industry. The plant is to have an annual production of 1,000 short tons of bromine from bitterns, and 500 short tons of allyl chloride. In addition, there will be a bromination unit and a pesticide formulation and packaging unit.

Approved: January 1968 UNIP: \$1,053,600  
Operational: June 1969 Gov't: \$1,253,000  
Duration: 3 years

Industrial policies and programming

UAR/69/25	TA	12	Evaluation of industrial projects (1/3 m/m expert services)	-	6.0	-	-
UAR/71/1	TA	12	Project evaluation (1/6 m/m fellowship)	-	2.9	-	-
<u>Pilot projects</u>							
UAR/69/10	IFT	17	Pilot project for coding, indexing, filing and reproduction of technical documents for preventive maintenance service in integrated industrial plants	-	-	(100.0)	(500.0) (100.0)
UAR/71/2	TA	1	Repair and maintenance of instruments (2/6 m/m fellowships)	11.0	-	30.0	-
	TA	1	Repair and maintenance of instruments (2/6 m/m fellowships)	-	6.8	-	-

Repair and maintenance

AFRICA (cont'd)

E.Y.P.I. (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Repair and maintenance (cont'd)</u>							
68/373 UAR-23	SIS	1	Repair and maintenance of technical apparatus and equipment at agricultural research stations (1/9 m/m expert services)	7.1	10.0	-	-
69/558 UAR-29	SIS	1	Repair and maintenance facilities in bus transport industry (3/36 m/m expert services)	41.1	28.0	-	-
70/1112 UAR-48	SIS	1	Planning and preparation of a quality control centre for engineering industries (1/12 m/m expert services)	-	-	25.0	-
UAR-45	IPP	1	Quality control centre for engineering industries; the expert under recruitment for SIS project 70/1112 UAR-48 will be project manager designate for this larger assistance project to establish the centre. He will prepare a detailed work plan and budget.	-	-	(30.0)	(300.0) (200.0)
<u>Engineering industries</u>							
UAR/69/2	TA	2	Science research in metal physics (1/6 m/m fellowship; equipment)	2.2	3.9	-	-
UAR/71/33	TA	1	Bus transportation (2/10 m/m expert services)	-	20.0	-	-
UAR/01/2/1	RP	1	Electronic industries (1/3 m/m fellowship)	-	-	2.2	-
68/394 UAR-20	SIS	1	Assistance to the mechanical department of the Egyptian Railways (4/36 m/m expert services)	10.2	22.0	60.0	-
69/680 UAR-15 Phase II	SIS	1	High voltage transmission lines - design and local manufacture of insulation accessories and hardware (2/4 m/m expert services)	3.8	1.0	2.0	-
70/1140 UAR-50	SIS	1	Assistance in design and manufacture of insulation accessories and hardware for high voltage transmission lines (1/0.25 m/m expert services)	-	0.5	-	-
71/1295 UAR-57	SIS	1	Assistance to the automotive industry (3/18 m/m expert services)	-	-	36.0	-
71/1298 UAR-61	SIS	1	Automotive ancillary industry (1/1.5 m/m expert services)	-	-	3.0	-

AFRICA (cont'd)

E.A.Y.P. 1 (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
<u>Engineering industries (cont'd)</u>							
VC/00/2	GTF	1	Machinery for repair of road transport equipment and mobile units (equipment)	-	100.0	-	-
VC/1/13	GTF	1	Establishment of stationary workshops for maintenance and repair of buses (2/4 m/m expert services)	-	4.0	-	-
VC/1/22	GTF	1	Inspection equipment for SP project UAR-55 (equipment)	-	20.0	-	-
9033-71	PIF	1	USSR interpreter for bus transportation project (1/5 m/m expert services)	-	10.0	-	-
<u>Metallurgical industries</u>							
UAR/02/1/1	HP	2	Iron and steel industries (2/12 m/m fellowships)	-	7.9	-	-
68/425 UAR-25	SIS	2	Assistance to Aswan steel project (consulting firm)	-	24.0	-	-
68/426 UAR-26	SIS	2	Assistance to Aswan steel project (consulting firm)	-	10.0	9.5	-
70/778 UAR-32	SIS	2	Assistance to foundry industry (1/9 m/m expert services)	-	12.0	6.0	-
70/987 UAR-43	SIS	2	Preparatory mission for demonstration production and maintenance inventory control system at Helwan Integrated Iron and Steelworks (1/0.25 m/m expert services)	-	0.5	-	-
70/1014 UAR-44	SIS	2	Pilot plant scale tests on Bahariya iron ore for the production of sponge iron through direct reduction by the HYL processing natural gas (consulting firm)	-	14.7	-	-
70/1001 UAR-46	SIS	2	Market analyst on non-ferrous metallurgy (1/3 m/m expert services)	-	-	6.0	-
70/1125 UAR-49	SIS	2	Technical consultancy service for Helwan iron and steel plant (consulting firm)	-	-	38.5	-
71/1300 UAR-10	SIS	2	Feasibility study on industrialization of ilmenitic ore deposits (1/0.25 m/m expert services)	-	0.6	-	-
71/1444 UAR-64	SIS	2	Production and rolling of special steels	-	-	12.0	-
VC/2/15	GTF	2	Feasibility study on industrialization of ilmenite ore deposits (consulting firm)	-	-	55.6	-

AFRICA (cont'd)

Egypt (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
70/878 UAR-42	SIS	3	<u>Building materials industry</u> Establishment of research centre for refractories and building materials (1/2 m/m expert services)	- 4.0	- - -
UAR/04/2/2	RP	4	<u>Chemical, pharmaceutical and pulp and paper industries</u> Safety matches industry (2/12 m/m fellowships)	- -	6.8 - -
69/549 UAR-28	SIS	4	Fermentation technology (2/6 m/m expert services)	- 6.0	- 6.0 - -
69/658 UAR-31	SIS	4	Cellophane film manufacture (consulting firm)	- -	- 12.0 - -
71/1225 UAR-53	SIS	4	Assistance towards improving the performance of the flash dryer for pulp at the Eifu pulp and paper mill (2/3 m/m expert services)	- -	- 7.0 - -
UAR/05/2/3	RP	5	<u>Fertilizer, pesticide and petrochemical industries</u> Fertilizer manufacturing and petrochemical industries (2/6 m/m fellowships)	- -	4.4 - - -
69/471 UAR-5 Phase II	SIS	5	Phosphorus and phosphatic fertilizer complex (consulting firm)	- -	- 22.0 - -
70/1047 UAR-45	SIS	5	Design of anhydrous ammonia distribution centre (1/1 m/m expert services)	- -	- 2.5 - -
70/1096 UAR-47	SIS	5	Exploratory mission on marketing and production of chemicals (1/0.5 m/m expert services)	- 1.5	- - -
71/1246 UAR-54	SIS	5	Expert team in plastics production and utilisation (2/6 m/m expert services)	- -	- 12.0 - -

AFRICA (cont'd)

Egypt (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
			<u>Food and light industries</u>					
UAR/69/1	TA	6	Catgut manufacturing (4/24 m/m fellowships)	6.8	-	9.2	-	-
UAR/69/12	TA	6	Tin lithographing and varnishing (consulting firm)	-	-	7.5	-	-
UAR/70/23	TA	6	Hydrogenation and margarine production (1/3 m/m fellowship)	-	-	1.4	-	-
UAR/06/1/2	EP	6	Leather production (2/12 m/m fellowships)	-	5.2	-	-	-
70/749 UAR-33	SIS	6	Assistance to the agar-agar and alginates industry (1/3 m/m expert services)	-	-	6.0	-	-
70/759 UAR-35	SIS	6	Processing of synthetic fibres on tow-to-top converters (1/3 m/m expert services)	-	-	10.0	-	-
70/819 UAR-39	SIS	6	Quality control of leather and leather products (1/6 m/m expert services)	-	-	12.0	-	-
70/857 UAR-40	SIS	6	Assistance to the furniture industry (1/6 m/m expert services)	-	6.0	6.0	-	-
70/867 UAR-41	SIS	6	Assistance in production and quality control to Nile Match Company (2/24 m/m expert services)	-	8.0	40.0	-	-
71/1157 UAR-51	SIS	6	Textile Research Institute (2/1 m/m expert services)	-	3.0	-	-	-
71/1299 UAR-62	SIS	6	Industrial adviser in food industry (1/6 m/m expert services)	-	-	12.0	-	-
71/1475 UAR-66	SIS	6	Erection of a modern offset printing house (1/1 m/m expert services)	-	-	2.0	-	-
			<u>Packaging industry</u>					
71 1301 UAR-59	SIS	17	Industrial adviser in rice packaging (1/2 m/m expert services)	-	-	4.0	-	-

AFRICA (cont'd)

E.C.Y.P.1 (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Staff</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971-1971</u>	<u>Planned expenditure (in '000 US\$) 1972-1973 beyond 1973</u>
UAR/10/1/3	RP	16	<u>Industrial training and management</u> Industrial training and management (2/12 m/m fellowships)	4.6	-
UAR/69/8	TA	10	<u>Quality control</u> Quality control (6/30 m/m fellowships; consulting firm)	15.1	38.0
UAR/69/24	TA	10	Statistical quality control (1/3 m/m expert services)	-	7.5
UAR/08/2/4	RP	8	Industrial standards, quality control and metrology (2/6 m/m fellowships)	-	4.4
VC/8/5	GIV	8	Assistance to Mile Match Company (equipment, miscellaneous)	-	30.0
9036-71	FIT	9	Industrial information and documentation (equipment)	-	40.0

Ethiopia

The main industries in Ethiopia are food and textiles. Modern industry was only recently introduced and is still of relatively minor importance. In 1969, the manufacturing sector accounted for about 8 per cent of the GNP. The Third Five-year Plan (1968-1973) sets a target of a 6 per cent growth rate for the country's economy. One objective of the plan is the acceleration of industrial development in order to lessen the dependence of the country's economy on agriculture. Infrastructure has been given a lower priority, although the Plan recognises the need for building infrastructure such as feeder roads and power to support agriculture and industry.

UNIDO assistance has been provided in industrial standardization and the food and textile industries. During 1971, a

total of eight experts and short-term consultants served in Ethiopia for 45 man/months, and ten Ethiopian nationals participated in training programmes organised by UNIDO. A subcontracting arrangement valued at \$16,000 was concluded for one project. American (USAID) and French bilateral assistance has been associated with the implementation of several technical assistance projects.

It is understood that the Country Programme is tentatively scheduled for submission to the UNDP Governing Council for approval in January 1974. An Industrial Development Field Adviser is posted in Addis Ababa.

Project number	Source of funds	Staff	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)			
				up to 1971	1971	1972	1973	beyond 1973	
70/851 ETH-12	SIS	12	Senior industrial adviser (1/12 m/m expert services)	-	18.0	6.0	-	-	
<u>Food and light industries</u>									
ETH/71/1	TA	6	Cotton textiles (1/9 m/m expert services)	-	16.0	5.0	-	-	
ETH/06/2/1	RP	6	Textile industries (1/2 m/m fellowship)	-	-	1.8	-	-	
ETH/06/2/2	RP	6	Wood processing industry (1/2 m/m fellowship)	-	-	1.8	-	-	
60/694 ETH-15	SIS	6	Assistance to the vegetable processing industry (2/7 m/m expert services)	-	12.0	2.0	-	-	
70/705 ETH-17	SIS	6	Marketing of cotton textiles (1/6 m/m expert services)	5.6	10.0	-	-	-	
70/693 ETH-18	SIS	6	Technical evaluation of four proposals for freeze-dry instant coffee plant (1/4 m/m expert services)	4.0	4.0	-	-	-	

AFRICA (cont'd)

Ethiopia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
<u>Food and light industries (cont'd)</u>							
71/1245 ETH-19	SIS	6	Final technical evaluation of three revised proposals for freeze-dry instant coffee plant (1/3 m/m expert services)	-	6.0	-	-
71/1315 ETH-21	SIS	6	Development of hides, skins, leather and leather products subsector (1/0.75 m/m expert services)	-	1.2	-	-
<u>Small-scale industry</u>							
ETH/70/2	TA	11	Small-scale industry adviser (1/6 m/m expert services)	-	12.0	-	-
ETH/11/2/3	RP	11	Small-scale industrial promotion (1/3 m/m fellowship)	-	-	2.2	-
70/846 ETH-11	SIS	11	Small-scale industry adviser (1/6 m/m expert services)	4.3	8.0	-	-
<u>Building materials industry</u>							
70/754 ETH-14	SIS	3	Assistance to the Ethiopian Cement Corporation (consulting firm)	-	14.0	-	-
<u>Fertilizer, pesticide and petrochemical industries</u>							
71/1259 ETH-20	SIS	5	Pre-feasibility study for establishment of fertilizer and pesticide processing plants (3/14 m/m expert services)	-	6.0	23.2	-
	IPF	5	Pilot project bulk blending plant for production of complex fertilizers	-	-	-	(200.0) (200.0)



AFRICA (cont'd)

Ethiopia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Years</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> beyond 1973
ETA/68/27	TA	8	Industrial standardization (1/24 m/m expert services)	16.7	24.0	7.5

Industrial standardization

Gabon

The main industries in Gabon are the wood and mining industries and especially the petroleum industry, which is expected to receive special attention in the near future.

UNIDO has provided an expert in small-scale industry. The Government has expressed interest in further UNIDO assistance in the evaluation of other projects, in the development of the petroleum industry and in food processing. Gabonese nationals have

participated in a number of seminars and meetings organized by UNIDO. French bilateral assistance has been associated with the implementation of several technical assistance projects.

The Country Programme for 1972 through 1976 is expected to be presented to the UNDP Governing Council for approval in June 1972. The Industrial Development Field Adviser stationed at Kinshasa also covers Gabon.

<u>Project number</u>	<u>Source of funds</u>	<u>Years</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> beyond 1973
<u>Industrial programming and policies</u>						
GAB/69/3	TA	12	Industrial programming (1/24 m/m expert services; 1/6 m/m fellowship)	-	17.7	30.0
GAB/12/1/3	RP	12	Feasibility studies and evaluation of industrial projects (1/6 m/m expert services)	-	15.0	-
CO, 610 GAB-4	SIS	15	Industrial survey (1/4 m/m expert services; consulting firm)	3.4	11.8	-

AFRICA (cont'd)

G a b o n (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
<u>Small-scale industry</u>								
GAB/71/4	TA	11	Development of small-scale industry (1/12 m/m expert services)	-	14.0	12.5	-	-
69/657 GAB-6	SIS	11	Development of small-scale industry (1/12 m/m expert services)	18.0	10.0	-	-	-
	IPF	11	Development of small-scale industry and development centre; assistance to the Gabon Agency for Industrial and Artisan Promotion (PROGABOS), including assistance in establishing an industrial estate at Oeando	-	-	(50.0)	(200.0)	(115.0)
<u>Exploratory missions for new industrial opportunities</u>								
69/629 GAB-5	SIS	1	Preparatory study for creation of a maintenance and repair workshop (consulting firm)	-	13.5	-	-	-
70/968 GAB-7	SIS	5	Exploratory mission for promotion of petrochemical industry (1/0.5 m/m expert services)	-	-	1.5	-	-
<u>Industrial training</u>								
GAB/09/2/1	RP	9	Training in industrial information (2/12 m/m fellowships)	-	-	6.8	-	-

AFRICA (cont'd)

The Gambia

In the Gambia, the industrial sector accounts for 12 per cent of the GDP, which has an average annual growth rate of 3.3 per cent. The main industries are oriented towards agricultural resources (ground-nut milling, fishing and livestock), but there are also factories for the manufacture of garments, shoes and canlles. The national plan for the period 1967 to 1971 was directed mainly towards the improvement and diversification of agriculture.

UNIDO assistance has been principally in the field of agro-industries and has included the establishment of an assembly

plant for small agricultural machinery and mobile maintenance and repair workshops for agricultural equipment. Assistance is also being given in the establishment of a development bank. The Gambia has participated in various training programmes and seminars sponsored by UNIDO. Two Gambian nationals attended a seminar on leather products and one participated in a training course on investment promotion techniques.

An Industrial Development Field Adviser posted in Dakar, Senegal, also serves the Gambia.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Industrial financing</u>							
GAM/71/7	TA	13	Commercial and Development Bank (2/24 m/m expert services)	-	-	45.0	15.0
GAM/13/2/2	RP	13	Industrial development banking (1/3 m/m fellowship)	-	-	2.2	-
71/1280 GAM-3	SIS	13	Assistance in the establishment of the Gambian Commercial and Development Bank (2/6 m/m expert services)	-	4.0	3.0	-
<u>Small-scale industry</u>							
71/1 88 GAM-5	SIS	11	Small-scale industry development (1/12 m/m expert services)	-	4.0	22.0	-

The Gambia (cont'd)

Project number	Source of funds	Gross	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Engineering industries</u>							
JAM 01 21	RP	1	Engineering and mechanical industries (1/6 m/m fellowship)	-	-	3.4	-
JAM 03 4	SIS	1	Manufacture and/or assembling of light agricultural machinery (1/3 m/m expert services)	-	4.0	2.0	-
JAM 04 2	GTF	1	Two mobile repair and maintenance workshops (equipment)	-	15.0	15.0	-
JAM 05 1	IPF	1	Assistance in establishing an assembly plant for small ox-drawn agricultural equipment	-	-	-	(100.0)
<u>Metallurgical industries</u>							
JAM 06 1	GTF	2	Laboratory-scale investigations of processing ilmenite black sands (consulting firm)	-	24.4	-	-

Ghana

Industrial establishments in the public sector of Ghana include steelworks, distilleries, boatyards and electronic factories. In the private sector, the main industries are those producing consumer goods. The industrial sector as a whole accounts for 30 per cent of the GNP. Under the current development plan, 14 per cent of total investments are channelled to industry, and a business promotion act has been passed with a view to strengthening indigenous Ghanaian enterprises.

Within the framework of a UNDP/SF project for assistance to the Ghana Industrial Holding Corporation, UNIDO has rendered assistance to the Ghanaian state enterprises. British bilateral assistance has been associated with this project. UNIDO assistance has also been provided to small-scale industries and industrial management. During 1971, a total of 25 UNIDO experts and short-term consultants served in Ghana. In addition, 10 fellowships were awarded to national personnel. Subcontracting

AFRICA (cont'd)

Ghana (cont'd)

arrangements valued at \$230,000 were concluded. Ghana has participated in a number of regional and interregional projects, and Ghanaian nationals have participated in several training programmes organized by UNIDO.

The Government of Ghana has concluded a long-term programing exercise for technical assistance with UNIDO. The exercise

formed the basis of the Country Programme for the period 1972 to 1976, which is to be submitted to the UNDP Governing Council for approval in January 1972. Ghanaian authorities have established a National Committee for UNIDO. An Industrial Development Field Adviser is to be appointed in 1972 to cover Ghana.

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
CHA-28	SF	10	<u>Assistance to the Ghana Industrial Holding Corporation</u>	144.5	390.5	249.8	-

Purpose: to strengthen the Ghana Industrial Holding Corporation at the policy-making level and to coordinate management assistance to individual plants. The Plan of Operation was signed in August 1969. Experts began their assignments early in 1969. During 1970, on the basis of discussions with the Government, the project was reformulated and new staff provided.

Approved: January 1969 UNDP: \$753,600  
Operational: September 1969 Gov't: \$852,000  
Duration: 4 years

Phase II of CHA-28

Assistance to the Ghana Industrial Holding Corporation (8/173 m/m expert services)

(312.0) (512.0) (249.8)

207.5 12.0

Small-scale industry

CHA/11/2/1	RP	11	Industrial extension services (1/12 m/m fellowship)	-	-	5.5	-
CH/10/CHA-10	SIS	11	Industrial engineer and industrial economist (2/24 m/m expert services)	-	-	55.4	-

AFRICA (cont'd)

G.H.A.N.A. (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
69/641	CHA-8	SIS	3	19.9	60.0	-	-	-
			Advisers on glass technology and mould-making (3/36 m/a expert services)					
			<u>Glass industry</u>					
			4	-	-	(30.0)	(30.0)	(30.0)
			IPP					
			Chemical engineers					
			<u>Chemical industry</u>					

G.N.I.B.E.R.E.

Industry in Guinea accounts for 25 per cent of the GNP, with the public sector playing a major role in the country's economy. The main industries are mining (bauxite and diamonds), building and textiles. The Seven-year Plan (1964-1970) gave priority to transport facilities and industrial development.

A long-term co-operation and technical assistance programme was established in 1970 between UNIDO and the Government of Guinea. UNIDO assistance is foreseen mainly for oil factories and maintenance and repair. A vegetable and essential oil laboratory control is being established, and equipment worth \$30,000 is to be provided. Assistance will also be provided for the Kassa oil factory. In 1971, an exploratory mission began

preparing a project for the maintenance and repair of industrial equipment, especially at the plant level. This project is to cover the organization, establishment and management of maintenance and repair facilities in different enterprises, assisted by a central workshop. Feasibility studies are also to be carried out by an industrial economist and an industrial engineer for projects within the industrial development programme of the country. In 1971, two Guinean nationals participated in in-plant training programmes organized by UNIDO.

An Industrial Development Field Adviser posted in Dakar, Senegal, also serves Guinea.

AFRICA (cont'd)

Senegal (cont'd)

Project number	Source of funds	Sums	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
GUI/68/19	TA	12	Industrial planning and programming (1/12 m/m expert services; equipment)	-	2.9	30.6
70/815 GUI-7	SIS	12	Industrial project evaluation (1/12 m/m expert services)	-	6.0	18.0
	IPF	12	Assistance in establishment of an industrial studies centre	-	-	(30.0) (120.0) (270.0)
<u>Industrial planning and programming</u>						
70/1126 GUI-8	SIS	1	Exploratory mission on maintenance and repair (2/1 m/m expert services)	-	2.0	-
GUI-22	IPF	1	Maintenance and repair organization	-	-	(60.0) (150.0) (200.0)
<u>Repair and maintenance</u>						
67/186 GUI-1	SIS	6	Research, test and control laboratory for vegetable and essential oils (1/3 m/m expert services; 1/6 m/m fellowship)	7.4	-	3.6
70/1088 GUI-9	SIS	6	Establishment of a control laboratory in the field of vegetable oil and essential oil industry (1/12 m/m expert services; equipment)	-	4.0	23.5
VO/6/9	GTF	6	Establishment of a central laboratory in the field of vegetable oil and essential oil industry (consulting firm)	-	10.0	20.0

AFRICA (cont'd)

G u i n e a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>
				<u>up to 1971</u>	<u>1971</u>	
						<u>1972</u> <u>1973</u>
						<u>beyond 1973</u>
			<u>Pulp and paper industry</u>			
GUI/04/2/1	RP	4	Pulp and paper production (1/4 m/m fellowship)	-	-	2.6
68/418 GUI-5	SIS	4	Assistance to pulp and paper industry (1/1 m/m expert services)	-	-	3.0
			<u>Industrial management and training</u>			
GUI/06/2/2	RP	6	Wood processing industry (1/6 m/m fellowship)	-	-	3.4
GUI/10/1/1	RP	10	Industrial management and training (1/12 m/m fellowship)	-	4.4	-
GUI/10/1/2	RP	10	Industrial management (1/6 m/m fellowship)	-	3.9	-

The I V O R Y C O A S T

The industrial sector of the Ivory Coast accounts for 19 per cent of the GNP. Industrial production has more than quadrupled since 1960. The food industry accounts to nearly 30 per cent of the total value of production; the textile, chemical (soap, fertilizers, plastic household goods), and building materials industries are also very important and developing rapidly. The private sector plays an important role in the industrial development of the Ivory Coast. Public investments are concentrated

on industrial infrastructure, such as the building of the Kossou dam. The Five-year Development Plan for 1971 to 1975 envisages an average rate of growth of 7.7 per cent; it is expected that the rate of growth of the industrial sector will be 15.5 per cent. Industrial development is oriented especially towards export.

In 1970, the Government of the Ivory Coast and UNIDO established a joint long-term technical co-operation and assistance



AFRICA (cont'd)

The Ivory Coast (cont'd)

programme to speed up the industrial development of the country within the framework of the national development plan. During 1971, the beginning of this programme was implemented. UNIDO has given particular assistance to the Industrial Development Bureau through studying the domestic and external markets, conducting feasibility studies for the implementation of industrial projects and promoting industrial investment. During 1971, two experts served in the Ivory Coast for a total of 22 man/months.

In addition, one fellowship was awarded to national personnel, and equipment worth \$3,400 was provided. Two Ivory Coast nationals attended UNIDO in-plant training programmes in industrial investment promotion. The Government hosted an investment promotion meeting held by UNIDO.

An Industrial Development Field Adviser is posted in Abidjan.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
IVC-13	SF	13	Centre for industrial studies and promotion <u>Purpose:</u> to establish an organization to undertake feasibility and market studies for the promotion and acceleration of industrial development and the attraction of domestic and foreign capital. Project activities include preparation of specific "bankable" projects; study of foreign markets; study of the domestic market; techno-economic studies on the viability of industrial projects proposed in the Development Plan; industrial investment promotion. The project manager began his assignment in November 1970.	6.1	79.3	224.4	130.8
							beyond 1973

Approved: June 1968 UNDP: \$479,100  
Operational: June 1970 Gov't: \$318,000  
Duration: 3 years

Industrial planning and programming

IVC/12/2/1 IF 12 Industrial studies promotion (2/12 m/a fellowships) 6.8 - -

REF ID: A1111

The Ivory Coast (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
			<u>Small-scale industry</u>					
69/520 IVC-2	SIS	11	Development of small-scale industry and industrial estates (1/12 m/m expert services)	-	6.0	18.0	-	-
			<u>Industrial training</u>					
IVC/02/1/2	RP	2	Metallurgical industry (1/6 m/m fellowship)	-	2.9	-	-	-
IVC/10/1/1	RP	10	Industrial management and training (1/6 m/m fellowship)	-	1.2	-	-	-
			<u>Light industries</u>					
71/1292 IVC-4	SIS	6	Reorganization and extension of cotton wool products factory (1/6 m/m expert services)	-	-	12.0	-	-

Kenya

The main industries in Kenya are cement, textiles, shoes, fertilizers, food, tobacco, cans, tires, corrugated iron, plastics, soap, confectionery, beer, matches, steel rolling, pulp and paper, construction and oil refining. Industry accounts for about 20 per cent of the country's GNP.

UNIDO has rendered assistance to Kenya in the establishment of an industrial survey and promotion centre and through individual fellowships and group training of technical personnel. During 1971, three fellowships were awarded to national personnel, and four experts and short-term consultants served in Kenya for 40 man/months. Kenya is a member of the East African Community.

which receives assistance from UNIDO. In 1971, three Kenyan nationals participated in UNIDO training programmes. Kenya provided host facilities for an investment promotion meeting in 1970 and participated in another held in Abidjan, Ivory Coast, in 1971.

UNIDO took part in the formulation of the Country Programme for the period 1972 through 1974, which is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser posted in Addis Ababa also serves Kenya.

AFRICA (cont'd)

LESOTHO (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Industrial surveys

KEN-21	SF	15	29.7	135.7	300.8		Further assistance to be considered
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**Industrial survey and promotion centre - Purpose:** to assist the Government in the establishment and initial operation of a centre to collect statistical and other required information, identify industrial projects and determine their priority, evaluate projects, prepare feasibility studies, advise on methods of industrial promotion, study the effects of government policies on industrialisation and help to plan and implement a programme of industrial development in six selected rural areas. The project continues activities begun under the SIS programme. The project manager was recruited in November 1970 upon completion of his SIS assignment. The Plan of Operation was signed in August 1971.

Approved: January 1970 UNDP: \$517,200  
Duration: 2 years Gov't: \$132,000  
Engineering design development centre  
- exploratory mission  
- project (joint with UNESCO)

70/1055 KEN-10	SIS	17	-	1.5	-	-	-
	IPP		-	-	(50.0)	(382.0)	(153.0)

Industrial policies and financing

KEN/13/1/2	RP	13	-	3.4	-	-	-
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Food and light industries

KEN/00/2/1	RP	6	-	-	5.8	-	-
"	RP	6	-	-	5.8	-	-

AFRICA (cont'd)

Lesotho

Lesotho is primarily an agricultural country, and its main exports are wool and mohair, wheat, sorghum and cattle. In 1969, manufacturing represented about 2 per cent of the GDP. Under the First Five-year Development Plan (1971-1975), the Government is seeking to encourage the growth of industry; 4.25 per cent of the capital expenditure is destined for the industrial sector.

UNIDO is assisting the Lesotho Department of Commerce and Industry in the development of small-scale industries. During 1971, one expert served in Lesotho for about five months. Two

fellowship posts were established and one was awarded. UNIDO is co-operating with ILO on a government request for a crafts and industry development centre.

UNIDO participated in the preparation of the Country Programme for 1972 through 1974, which will be submitted to the UNDP Governing Council for approval in January 1972. Lesotho has established a National Committee for UNIDO. An Industrial Development Field Adviser stationed in Lusaka, Zambia, also serves Lesotho.

<u>Project number</u>	<u>Source of funds</u>	<u>Grants</u>	<u>Project title and main activities</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1972</u> <u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>			
<u>Small-scale industry</u>								
LES/10/6	TA	11	Small-scale industries (1/24 m/a expert services)	-	12.0	30.0	15.0	-
	IPF	11	Small-scale industries development - Purpose: to assist the Government in the development of small-scale industries, including those having import substitution and export potential; eventually a small-scale industries centre would be established.	-	-	(44.0)	(57.0)	(765.0)
<u>Industrial policies and programming</u>								
LES/12/1/1	RP	12	Project planning (1/12 m/a fellowship)	-	6.7	-	-	-
<u>Industrial organization and administration</u>								
LES/68/12	TA	9	Industrial administration (1/4 m/a fellowship)	-	-	-	-	2.8
LES/07/2/1	RP	7	Industrial legislation (1/6 m/a fellowship)	-	-	-	-	3.4

L i b e r i a

The main industries in Liberia are shrimp processing, cement, oil refining, shoes, paint, furniture and food products. Under the current development plan, 7 per cent of the total investments has been allocated to industry. The Government encourages manufacturing investment by an investment code, introduced in 1966. The state sector plays an important role in the industrial development of Liberia.

One of the main areas of UNIDO assistance has been the evaluation of industrial projects and the preparation of feasibility studies for the development of new industries. UNIDO, in co-operation with ILO, is preparing a UNDP/UNEP project to establish an industrial estate in Monrovia. Possibility studies have also been carried out by UNIDO on an iron and

steel industry in Liberia. During 1971, three experts and consultants worked in Liberia. Assistance to Liberia has included the training of technical personnel. Liberia has participated in a number of regional and interregional projects such as the industrial promotion meetings organized by UNIDO.

In 1971, UNIDO participated in the formulation of an inter-agency programme of technical assistance for Liberia. UNIDO is providing an industrial planner to work in the Department of Planning and Economic Affairs.

An Industrial Development Field Adviser to be appointed for the West African region will cover Liberia.

Project number	Source of funds	Source	Project title and brief description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
71/1264 LIR-6	SIS	11	Establishment of an industrial development park (2/12 m/m expert services)	-	6.0	16.0	-
LIR-13	IPF	11	Establishment of an industrial area and industrial estate	-	-	-	(200.0) (400.0)
<u>Industrial estates</u>							
<u>Industrial policies and financing</u>							
LIR/70/5	TA	12	Assistance to the Ministry of Planning (1/12 m/m expert services)	-	-	30.0	-
LIR/71/5	TA	12	Manpower resources development (joint with ILO) (1/2 m/m expert services)	-	4.0	-	-
LIR/13/2/2	RP	13	Industrial investment promotion (1/6 m/m fellowship)	-	-	3.4	-
71/1322 LIR-7	SIS	13	Financial expert for the Liberian Development Corporation (1/12 m/m expert services)	-	-	26.5	-
<u>Quality control</u>							
71/1423 LIR-8	SIS	8	Standardization and quality control (1/3 m/m expert services)	-	-	1.5	-

AFRICA (cont'd)

The Libyan Arab Republic

The manufacturing sector plays a relatively limited role in the economy of the Libyan Arab Republic. The industrial sector, excluding the petroleum industry, accounted for 2.4 per cent of the GDP in 1967. Despite a comparatively small domestic market, the industrial sector has been slowly growing in recent years, particularly in the food processing (especially dates), beverage, tobacco and gypsum industries; the manufacture of paper is also a growing industry. The exploitation of petroleum resources has led to the establishment of a petrochemical industry that includes oil refineries and sulphur, ammonia and other petrochemical plants.

The assistance rendered by UNIDO to industry in the Libyan Arab Republic has been meagre, but with the establishment of a

centre for industrial development and research (a UNDP SF project) it is envisaged that UNIDO will render assistance in industrial programming and project implementation. Experts attached to the centre will advise, *inter alia*, on increasing the productivity of manufacturing industries. Libyan nationals have participated in several regional meetings, especially those organized by UNIDO in co-operation with the Industrial Development Centre for Arab States (IDCAS).

The Country Programme for 1972 through 1976 is scheduled for submission to the UNDP Governing Council for approval in 1973. The Industrial Development Field Adviser stationed in Cairo also covers the Libyan Arab Republic.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
LIB-12	SP	8	Centre for industrial development and research Purpose: to assist the Government in establishing a centre for industrial development and research at Tripoli to advise on industrial development within the over-all economic planning. The Plan of Operation has been prepared and the project manager began his assignment in September 1971. Approved: June 1969 Duration: 4 years UNDP: \$ 880,200 Gov't: \$5,366,000	0.0	11.8	273.0	240.0
							beyond 1973

Industrial policies

LIB/12/2/1	RP	12	Industrial policies (1/6 m/m fellowship)	-	-	5.4	-
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Building materials industry

71/1300 LIB-4	SIS	3	Assistance in ceramics and building materials industries (1/4 m/m expert services)	-	4.0	4.0	-
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AFRICA (cont'd)

Madagascar

The industrial sector in Madagascar represents 15 per cent of the GNP. The main industries are food, textiles, leather, chemicals, petroleum refining, fertilizers, insecticides, plastics, building materials, metalworking and mechanics. There are also a paper mill and factories producing batteries, transistor radios, matches, tobacco and cartons.

During 1971, UNIDO rendered assistance in the evaluation of projects, on a feasibility study for an industrial estate and in confectionery production advisory services. Assistance was

also given to laboratory scale metallurgical investigations of processing ilmenite. Five UNIDO experts served in the country for some 35 man/months.

Madagascar has established a National Committee for UNIDO. The Country Programme is under preparation and is expected to be submitted to the UNDP Governing Council for approval in June 1972. An Industrial Development Field Adviser stationed in Lusaka, Zambia, also serves Madagascar.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Industrial planning and promotion</u>							
MAG/68/8	TA	13	Industrial investment promotion (1/36 m/m expert services)	46.1	12.0	-	-
MAG/68/9	TA	12	Industrial planning (1/24 m/m expert services)	20.0	2.0	-	-
69/551 MAG-12	SIS	11	Feasibility study of pilot industrial estates and small-scale industries promotion (2/24 m/m expert services)	21.9	36.0	4.0	-
71/1330 MAG-3	SIS	12	Industrial economics (1/12 m/m expert services)	-	-	24.0	-
9022-70	FIT	12	Development of industrial productivity (Belgian associate expert, 1/12 m/m expert services)	6.4	7.3	-	-
<u>Engineering industries</u>							
70/1039 MAG-15	SIS	1	Feasibility study mission on agricultural machinery manufacture (2/8 m/m expert services)	-	4.0	12.0	-
71/1382 MAG-19	SIS	1	Machine tools and spare parts production methods (2/12 m/m expert services)	-	4.0	26.0	-

AFRICA (cont'd)

M a d a g a s c a r (cont'd)

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
			<u>Food and light industries</u>				
60/154 MAG-4	SIS	6	Assistance to the Tuléar Vegetable Oil Company (2/28 m/m expert services; 4/24 m/m fellowships)	77.4	-	8.7	-
70/343 MAG-9	SIS	6	Creation of agro-industry complexes (3/18 m/m expert services)	-	16.0	20.0	-
70/966 MAG-13	SIS	6	Assistance in promotion and marketing of fibreboard (1/4 m/m expert services)	-	-	5.0	-
70/1064 MAG-16	SIS	6	Development of the industrial operations of the confectionery division of the Société confisère et biscuitière (SOCOBIS), Tananarive (1/6 m/m expert services)	-	12.0	-	-
			<u>Metallurgical industries</u>				
VC/2/20	GTF	2	Laboratory-scale metallurgical investigations of processing ilmenite samples (consulting firm)	-	44.8	-	-
			<u>Industrial training</u>				
MAG/02/2/3	BP	2	Metallurgical industries: treatment and enrichment of minerals (1/6 m/m fellowship)	-	-	3.4	-
MAG/06/1/3	BP	6	Light industries (3/18 m/m fellowships)	-	9.9	-	-
MAG/06/2/4	BP	6	Light industries: food industries (1/6 m/m fellowship)	-	-	3.4	-

Expenditure (in '000 US\$)

Planned expenditure (in '000 US\$)

up to 1971 1971 1972 1973 beyond 1973



Malawi

In Malawi, the industrial sector, which is based primarily on agriculture, accounts for 9 per cent of the GDP. The Government has encouraged the establishment of import substitution industries by providing industrial sites and services and by granting incentives in the form of reduced custom and import duties for raw materials used in the manufacture of export items.

UNIDO will provide assistance to Malawi in the establishment of a pottery industry. UNIDO will also assist in the manufacture of, and in the drawing up of a market analysis on, agri-

cultural tools, ox-drawn implements and hand-operated machines. During 1971, six fellowship posts were established and three awarded. One Malawi national participated in a seminar organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Kinshasa also serves Malawi.

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
MLM/15/2/2	IP	15	Industrial statistics (1/12 m/m fellowship)	-	-	5.8
MLM/14/2/1	IP	14	Industrial export promotion (1/3 m/m fellowship)	-	-	2.2
68/293 MLM-5	SIS	3	Assistance in the establishment of a pottery industry (1/3 m/m expert services)	-	6.0	-

Industrial surveyPromotion of export-oriented industriesConstruction and building materials industries

AFRICA (cont'd)

Mali

The industrial sector, which accounts for 7 per cent of the GDP in Mali, consists primarily of food processing plants, textile mills and building materials industries. The Government, through an economic development plan, is aiming to raise the rate of annual growth in the industrial sector from 4.5 to 11.7 per cent in 1973. One of the first concerns of the Government is the reorganization of state-owned enterprises and the training of personnel. The Government is encouraging the increased use by industries of local raw materials and is promoting import substitution as well as industries related to agriculture such as the manufacture of agro-industrial equipment and implements.

The main assistance provided by UNIDO has been in preparing feasibility studies within the framework of the economic devel-

opment plan. Assistance has also been rendered directly to state-owned enterprises in the production and management fields. In connexion with the Government intention to promote the industrial development of the Western Region of Mali, the assistance of UNIDO has been sought in the aluminium, iron and steel industries. Technical assistance has included the training of Malian national personnel; four individual fellowships were awarded, and four other fellowship posts have been established. During 1971, a total of five experts and consultants served in Mali for 23 man/months. A Malian national participated in a seminar on development of the leather and leather products industry.

An Industrial Development Field Adviser posted in Dakar, Senegal, also serves Mali.

Project number	Source of funds	Group	Project title and brief description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
MLI/69/3	TA	12	Industrial planning and programming Assistance in the elaboration of the industrial development plan (1/36 m/m expert services)	38.1	10.0	30.0	-
MLI/12/2/1	RP	12	Industrial programming (2/12 m/m fellowships)	-	-	6.8	-
70/1024 MLI-12	SIS	2	Feasibility studies on establishment of metallurgical industries Assistance to a small-scale aluminium foundry (1/6 m/m expert services)	-	10.0	2.6	-
71/1219 MLI-13	SIS	2	Pre-feasibility study for establishment of an integrated aluminium industry (consulting firm)	-	25.0	25.0	-

## AFRICA (cont'd)

## M.A.I.I. (cont'd)

Project number	Source of funds	Sums	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971-1973	
71/1220 MLI-14	SIS	2	Pre-feasibility study of the iron and steel industry (consulting firm)	-	15.0	10.0
VC/2/14	OTF	2	Assistance to a small-scale aluminium foundry (equipment)	-	3.5	2.5
<u>Industrial management</u>						
MLI/10/1/2	EP	10	Industrial management (1/3 m/m fellowship)	-	2.4	-
68/304 MLI-7	SIS	10	Organization of state-owned enterprises (2/6 m/m expert services)	-	16.0	-
<u>Food and light industries</u>						
MLI/06/1/1	EP	6	Leather production and textile industries (2/12 m/m fellowships)	-	5.9	-
MLI/06/1/3	EP	6	Agro-industrial training (1/6 m/m fellowship)	-	2.9	-
70/948 MLI-10	SIS	6	Reorganization and expansion of the Socoma tomato and fruit processing plant (consulting firm)	-	13.6	6.4
<u>Product adaptation</u>						
71/1442 MLI-15	SIS	14	Product adaptation and development for export-oriented industries (1/0.5 m/m expert services)	-	-	1.1

AFRICA (continued)

Mauritania

In Mauritania, the industrial sector, which accounts for 27 per cent of the GNP, is primarily concerned with the development of local natural resources, livestock, fishing, mining (iron and copper) and the canning of food products. The current development plan (1970-1973) gives priority to the development of the rural regions, but important investments are also earmarked for the industrial sector.

UNIDO's assistance has been mainly in the form of advice to the Government on the potentialities and opportunities of

further development of the iron and steel industry; similar assistance is envisaged for the copper industry (smelting and fabrication). It is also planned that UNIDO will assist in the establishment of a maintenance and repair organization, including a central workshop for fishing boats. During 1971, one UNIDO expert served in Mauritania for four months.

An Industrial Development Field Adviser posted in Dakar, Senegal, also serves Mauritania.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
70/553 MAU-6	SIS	12	<u>Industrial programming</u> Assistance to programming industrial development (1/6 m/m expert services)	-	4.0	3.0	-
70/596 MAU-10	SIS	2	<u>Copper industry</u> Pre-feasibility study of copper smelting and fabricating (consulting firm)	-	13.0	11.0	-
70/711 MAU-7	SIS	2	<u>Metallurgical industry</u> Iron and steel engineer (1/4 m/m expert services)	-	8.0	-	-
70/702 MAU-9	SIS	6	<u>Leather industry</u> Assistance to the leather industry (1/2 m/m expert services)	-	-	4.0	-

Mauritania (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure beyond 1973</u>
MAU/11/2/1	RP	11	Promotion of small-scale industries (1/12 m/m fellowship)	-	-	5.	-	-

Small-scale industry

Mauritius

The industrial sector in Mauritius is relatively limited except for the processing of sugar and tea. The sugar industry accounts for approximately 25 to 30 per cent of the GDP. The Government is seeking to promote new industries in the country.

UNIDO has provided assistance in the preparation of feasibility studies in the ceramics, cement, agricultural machinery, steel, pharmaceutical and pesticide industries as well as in the establishment of industrial services and free export pro-

cessing zones. During 1971, ten experts served in Mauritius for 30 man/months.

In the Country Programme (1972-1975), seconded by a mission to the UNDP Governing Council for Africa in 1971 and 1972, high priority has been given to industrial development. An Industrial Development Field Advisor stationed in 1971 in Zambia, also served Mauritius.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure beyond 1973</u>
MAU/11/2/2	TA	14	Free zone feasibility study (1/7 m/m expert services)	-	-	-	-	-
MAU/11/2/3	SIS	14	Free zone feasibility study (1/11 m/m expert services)	-	-	-	-	-

Industrial policies and programming

AFRICA (cont'd)

Mauritius (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Sexes</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
<u>Industrial policies and programming (cont'd)</u>								
	IPF	12	Industrial economist	-	-	(35.0)	(35.0)	(35.0)
	IPF	12	Industrial project formulation and evaluation	-	-	(100.0)	(170.0)	(190.0)
	IPF	13	Industrial promotion group	-	-	-	(40.0)	(140.0)
<u>Industrial services</u>								
MAR/71/8	TA	9	Assistance in establishment of industrial services (1/6 m/m expert services)	-	6.0	7.5	-	-
MAR/08/2/2	RP	8	Industrial standards (1/4 m/m fellowship)	-	-	2.6	-	-
69/654 MAR-11	SIS	8	Assistance in establishment of industrial services (2/24 m/m expert services)	5.8	20.0	23.0	-	-
	IPP	8	Industrial Standards Bureau	-	-	(60.0)	(70.0)	(70.0)
<u>Pesticide and petrochemical industry</u>								
70/1053 MAR-17	SIS	5	Advice on plastics industry (1/2 m/m expert services)	-	4.0	-	-	-
70/1095 MAR-20	SIS	5	Advice on the development of pesticides industry (1/1 m/m expert services)	-	2.0	-	-	-
<u>Pharmaceutical industry</u>								
70/918 MAR-14	SIS	4	Pharmaceutical adviser (1/2 m/m expert services)	-	4.0	-	-	-

## AFRICA (cont'd)

M A N U F A C T U R I N G (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Sexes</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>
				<u>up to 1971</u>	<u>1971</u>	
			<u>Light industries</u>			
70/1116 MAR-21	SIS	6	Assistance to furniture industry (1/3 m/m expert services)	-	6.0	-
			<u>Building materials industry</u>			
70/1067 MAR-18	SIS	3	Assistance to establishment of cement industry (1/9 m/m expert services)	-	18.0	2.0
			<u>Mechanical and electrical engineering, and steel production</u>			
MAR/01/2/1	RP	1	Electrical and electronic industries (2/8 m/m fellowships)	-	-	5.2
70/924 MAR-13	SIS	1	Feasibility study on production of hand tools and implements (1/1.5 m/m expert services)	-	3.0	-
70/1040 MAR-15	SIS	2	Steel production (1/0.5 m/m expert services)	-	1.5	-

M O R O C C O

... account's for about 20 per cent of the GDP, with food processing, fish, fruit and vegetable canning, textiles, leather, chemical products and building materials as the main industries. The current five-year Development Plan provides for a total investment of 11,450 million francs, of which 1,800 million are for industry, and the greater part of that industrial investment will be borne by the Government.

UNIDO has provided assistance, in association with FAO, within the framework of a UNDP/SF project, on a feasibility study for a fish protein concentrate plant in Agadir. Assistance has been given in solving marketing, managerial and technological problems affecting new industries, as well as in the training of technical personnel. During 1971, seven experts served in Morocco for 12 man/months, and five Moroccans

participated in seminars and workshops organized by UNIDO. A subcontracting arrangement valued at \$25,503 was concluded and equipment worth \$12,010 was delivered.

Morocco is participating in a regional project, under the Industrial Studies for the Maghreb (SF REG-22), which provides facilities for the preparation of selected industrialization surveys in fields of interest to Maghreb States. In addition, Morocco, as a member of the Industrial Development Centre for Arab States (IDCAS), is benefitting from the assistance UNIDO is offering that organization.

Moroccan authorities have established a National Commission for UNIDO, and it is expected that an Industrial Development Field Adviser will be posted in Rabat in 1972.

Project number            Source of funds            Group            Project title and project description           

Expenditure (in '000 US\$) up to 1971 1971 1972 1973 beyond 1973

Planned expenditure (in '000 US\$)

MOR-115 SF 0 Feasibility study for a fish protein concentrate plant

64.1 50.7 57.3 64.2 -

Purpose: to assist the Government in determining whether the country can produce fish protein concentrate economically, taking into account studies of potential markets which are to be carried out concurrently. The Plan of Operation was signed in December 1970; the project manager began his assignment in March 1971.

Approved: January 1970 UNDP: \$289,500  
Duration: 1 year Gov't: \$ 65,000

Exploration of new industrial opportunities

70/115 MOR-117 SIS 14 Exploratory mission for assistance in assessing export opportunities (3/1.5 m/m expert services)

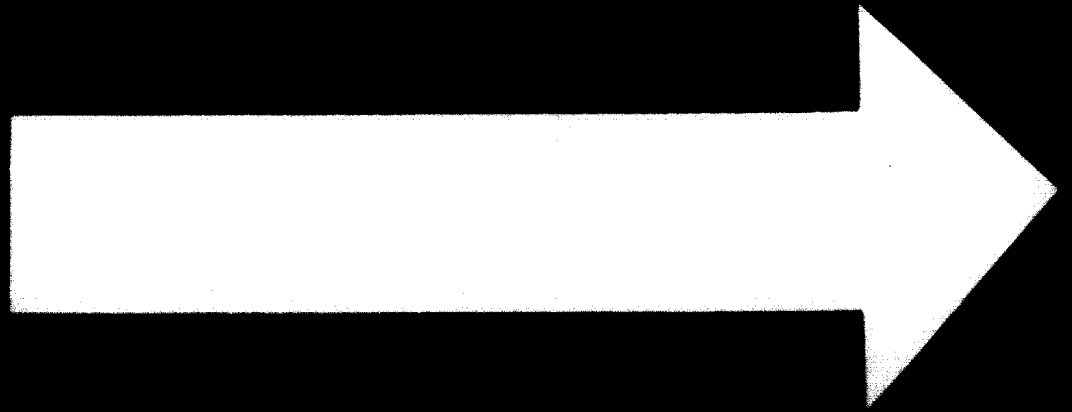
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M O R O C C O (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
<u>Exploration of new industrial opportunities (cont'd)</u>							
11/1016 MOR-20	SIS	5	Exploratory mission for production of petrochemicals (1/0.5 m/m expert services)	-	0.7	-	-
11/1017 MOR-21	SIS	13	Assistance in identification and preparation of industrial projects (1/0.75 m/m expert services)	-	1.0	-	-
11/1018 MOR-22	SIS	14	Programme on product adaptation and development for export-oriented industries (1/0.5 m/m expert services)	-	1.0	-	-
11/1019 MOR-23	SIS	6	Setting up of a ready-to-wear clothing industry (consulting firm)	-	4.5	-	-
11/1020 MOR-24	SIS	1	Setting up of an electronics industry (1/1.5 m/m expert services)	-	-	3.0	-
11/1021 MOR-25	SIS	6	Development of sugar by-products industry (1/3 m/m expert services)	-	-	2.8	-
<u>Existing industries</u>							
11/1022 MOR-26	SIS	2	Integrated project for the treatment of pyrrhotite kettara ashes for the recovery of copper and pelletizing of iron oxide residue (consulting firm)	-	10.5	-	-
11/1023 MOR-27	SIS	3	Expansion of the phosphatic fertilizer industry (1/0 m/m expert services; 2/6 m/m fellowships)	-	16.0	-	-
11/1024 MOR-28	SIS	1	Agricultural machinery manufacture feasibility study mission (2/3 m/m expert services)	-	4.0	-	-
11/1025 MOR-29	SIS	1	Assistance to the Société Marocaine in Gaz (SOMAGAZ) in household appliances (1/6 m/m expert services)	-	4.0	-	-
11/1026 MOR-30	SIS	4	Expansion of chemical-based industries (consulting firm)	-	-	10.0	-

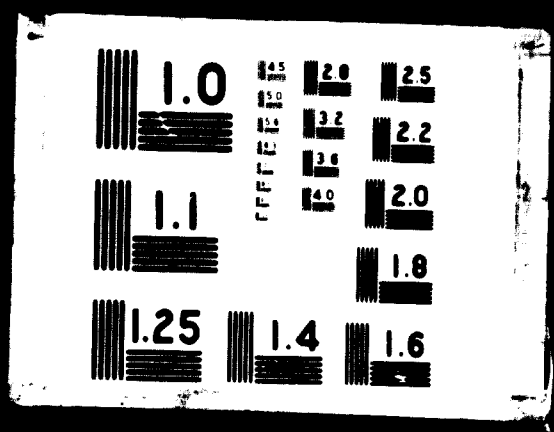
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AFRICA (cont'd)

M O R O C C O (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
			<u>Industrial servicing institutions</u>		
70/1123 MOR-17	SIS	12	Assistance to the Bureau d'études et de participations industrielles (BEPI) (1/3 m/m expert services)	- 6.0	- - -
71/1437 MOR-26	SIS	17	Assistance in establishing a packaging quality control and promotion centre (1/1 m/m expert services)	- -	2.0 - -
			<u>Industrial management and training</u>		
MOR/02/2/2	RP	2	Metallurgical industries: treatment and enrichment of minerals (1/9 m/m fellowship)	- -	4.6 - -
MOR/05/2/3	RP	5	Fertilizer, pesticide and petrochemical industries: production of pesticides (1/9 m/m fellowship)	- -	4.6 - -
MOR/10/2/1	RP	16	Industrial training (1/9 m/m fellowship)	- -	4.6 - -

AFRICA (cont'd)

The Niger

Industry in the Niger is based primarily on locally available resources such as cement, uranium and iron ore. A uranium plant was recently established with bilateral assistance, and UNIDO is assisting in the establishment of a cement plant.

industry in the Niger, such as the Malbaga cement works. UNIDO assistance has also been provided in the establishment of an industrial estate. French bilateral assistance has been associated with the implementation of several technical assistance projects.

The first noteworthy technical assistance project of UNIDO in the Niger was a mission by a UNIDO expert in tanning in 1968. Subsequently, an expert was appointed as adviser to the Government on industrial development. His work is expected to lead to further technical assistance projects in the main fields of

The Country Programme is expected to be submitted to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Abidjan, Ivory Coast, also covers the Niger.

Project number	Source of funds	Svms	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971		
NER/68/22	TA	13	Industrial promotion (1/29 m/m expert services)	14.0	21.0	15.8	
70/899 NER-7	SIS	13	Investment promotion for specific industry projects in African countries (1/1.25 m/m expert services)	-	-	1.6	
<u>Industrial promotion</u>							
<u>Cement industry</u>							
71/1198 NER-8	SIS	3	Adviser in production of Portland cement (1/3 m/m expert services)	-	8.0	-	
71/1199 NER-9	SIS	3	Exploratory mission for building materials (1/2 m/m expert services)	-	-	5.0	
71/1386 NER-10	SIS	3	Assistance in strengthening cement industry (1/0.75 m/m expert services)	-	1.2	-	
<u>Industrial estates</u>							
70/859 NER-5	SIS	11	Assistance to industrial estate projects (consulting firm)	-	20.0	35.5	
				beyond		1973	
				1971		1972	
				1971		1973	

AFRICA (cont'd)

The N i g e r (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> beyond 1972
NER/01/2/1	RP	1	<u>Mechanical industry</u> Mechanical industries (1/12 m/m fellowship)	-	-	5.8	-
70/877 NER-6	SIS	1	Assistance in establishment of metalworking industries (1/6 m/m expert services)	-	6.0	6.0	-
71/1411 NER-11	SIS	6	<u>Food and light industries</u> Cigarette manufacturing (2/4 m/m expert services)	-	-	8.0	-
71/1412 NER-12	SIS	6	Technical assistance to the sugar industry (1/3 m/m expert services)	-	-	6.0	-

N i g e r i a

The main industries in Nigeria are cement and other construction materials, metal products, textiles, shoes, beverages, soap and detergents. The industrial sector accounts for 4 per cent of the GDP. Under the Second National Development Plan (1970-1974), 13 per cent of the total investment has been allocated to industry.

UNIDO has rendered assistance in the evaluation of industrial projects and in the preparation of feasibility studies for the development of new industries. Two projects under preparation are a small-scale industries centre (in co-operation with ILO) and a pilot plant for cassava production, gari processing and the manufacturing of Soy-Ogi. Assistance has also

been given in the petrochemical and food processing industries. Technical assistance included individual fellowships and group training for technical personnel, primarily in areas of technological and management specialization. During 1971, a total of ten experts and short-term consultants worked in Nigeria. In addition, six fellowships were awarded to national personnel, and subcontracting arrangements valued at \$111,926 were concluded. Nigeria has participated in a number of regional and interregional projects organized by UNIDO.

An Industrial Development Field Adviser is to be stationed in Nigeria in 1972.

## Nigeria (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Industrial policies and programming</u>							
NIR/68/7	TA	12	Chief industrial officer (OPAS) (1/23 m/m expert services)	11.5	17.3	4.3	-
NIR/69/20	TA	12	Industrial economic development (1/24 m/m expert services)	-	4.0	21.0	17.0
NIR/12/2/3	RP	12	Project preparation and evaluation (1/9 m/m fellowship)	-	-	4.6	-
NIR/13/2/4	RP	13	Industrial investment promotion (1/3 m/m fellowship)	-	-	2.2	-
<u>Preparatory missions on specific industries</u>							
TO/1129 NIR-17	SIS	6	Joint FAO/UNIDO preparatory mission on establishment of integrated soyabean processing industry (1/0.5 m/m expert services)	-	1.3	-	-
<u>Feasibility studies</u>							
TO/794 NIR-15	SIS	3	Techno-economic survey on assistance to the Cement Company of Northern Nigeria Ltd. (consulting firm)	-	18.9	-	-
TO/858 NIR-16	SIS	1	Assistance to telecommunication and electronics industry (consulting firm)	-	20.0	14.5	-
TO/1103 NIR-20	SIS	1	Passenger car assembly: local manufacture of components (consulting firm)	-	24.5	21.5	-
<u>Food and light industries</u>							
TO/1122 NIR-23	SIS	6	Production of protein enriched cassava food (1/1 m/m expert services)	-	3.0	-	-
	IPF	6	Integrated soyabean processing	-	-	10.0	11.0
	IPF	1	Production of protein enriched cassava food	-	-	10.0	11.0

AFRICA (cont'd)

N i g e r i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
<u>Industrial management and training</u>							
NIR/71/6	TA	10	Midwest glass industry (1/12 m/m expert services)	-	20.0	2.6	-
NIR/01/1/3	RP	1	Refrigeration techniques (1/3 m/m fellowship)	-	1.8	-	-
NIR/10/1/4	RP	10	Equipment control systems (1/6 m/m fellowship)	-	6.3	-	-
68/338 NIR-10	SIS	10	Assistance to the midwest glass industry at Ugheli (1/12 m/m expert services)	14.4	4.0	-	-
<u>Chemical and petrochemical industries</u>							
NIR/05/2/1	RP	5	Fertilizer manufacturing (1/12 m/m fellowship)	-	-	5.8	-
70/1060 NIR-19	SIS	4	Pharmaceutical survey (1/2 m/m expert services)	-	6.0	-	-
71/1471 NIR-26	SIS	5	Assistance to plastic processing industry: exploratory mission (1/0.5 m/m expert services)	-	-	1.3	-
<u>Small-scale industry</u>							
NIR/11/2/2	RP	11	Small-scale industries promotion (1/6 m/m fellowship)	-	-	3.4	-
70/976 NIR-18	SIS	11	Development of small-scale industry (3/36 m/m expert services)	-	24.0	48.0	-
NIR-47	IPF	11	Promotion and assistance to indigenous small-scale industry	-	-	(70.0)	(300.0) (300.0)
<u>Industrial standardization</u>							
NIR/71/2	TA	8	Assistance to the Nigerian Standards Organisation (OPAS) (1/36 m/m expert services)	-	3.8	15.0	15.0 11.3



R w a n d a

Industrial activity in Rwanda is concentrated mainly in coffee and tea processing, flour mills and a cigar factory. There are also a large brewery, a textile factory, a factory for aluminum articles as well as a substantial amount of handicraft production. The industrial sector accounts for 14 per cent of the GNP. Under the current development plan, 4 per cent of the total investment is in industry.

UNIDO has provided assistance in the establishment of a pilot plant for the production of pyrethrum and in feasibility studies for the development of new industries. Assistance has also been rendered to small-scale industry. During 1971, a

total of twelve experts and short-term consultants served in Rwanda. In addition, seven fellowships were awarded to national personnel. Subcontracting arrangements valued at \$241,943 were concluded for three projects. European Development Fund (EDF) bilateral assistance is associated with the cultivation of flowers for the pyrethrum plant. Rwanda is participating in a number of regional and interregional projects.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. Rwanda has established a National Committee for UNIDO. The Industrial Development Field Adviser posted in Kinshasa also serves Rwanda.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
RWA-3	SF	5	<p><u>Pyrethrum production</u></p> <p>Pilot plant for industrialization and pyrethrum production.-  <b>Purpose:</b> to assist the Government in establishment and initial operation of a pilot plant for pyrethrum production, with an annual capacity of 200 tons of extract. Work will be continued in a Phase II project.</p> <p>Approved: January 1966 UNDP: \$1,459,500            Operational: December 1969 Gov't: \$ 400,000            Duration: 3 years</p>	1,106.5	629.3	-	-	-
9029-71	IPF	5	<p>Supplementary assistance will concentrate on continued research and development of an effective system of processing pyrethrum at the pilot demonstration plant and training of counterpart staff. (1/17 m/m expert services)</p> <p>Duration: 2 years UNDP: \$632,700            Gov't: \$108,000</p>	-	-	(330.0)	(302.7)	-
	FIT	5	<p>Government's cash counterpart contribution towards cost of subcontracts in SF project RWA-3 (consulting firm)</p>	-	50.0	61.9	-	-

ARROW (cont'd)

R w a n d a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973 beyond 1973</u>
RWA/68/14	TA	11	Promotion of small-scale industries (1/48 m/m expert services)	4.0	24.0	30.0	30.0 25.0
<u>Small-scale industry</u>							
<u>Light vehicles</u>							
71/1392 RWA-23	SIS	1	Assistance in motorcycle and bicycle assembling plant (1/6 m/m expert services; 1/3 m/m fellowship)	-	-	17.3	-
<u>Food and light industries</u>							
RWA/06/2/1	RP	6	Food industries (1/6 m/m fellowship)	-	-	3.4	-
69/328 RWA-11	SIS	6	Malt production (consulting firm)	-	10.7	2.8	-
69/567 RWA-18	SIS	6	Animal feedstuff concentrates production and marketing (1/4 m/m expert services)	-	8.0	-	-
69/568 RWA-22	SIS	6	Rubber and plastic products manufacturing (1/3 m/m expert services)	-	6.0	-	-
69/569 RWA-25	SIS	6	Alcohol production and marketing (1/3 m/m expert services)	-	6.0	-	-
69/571 RWA-17	SIS	6	Vegetable oil production and marketing (1/5 m/m expert services)	-	10.0	-	-
<u>Chemical and petrochemical industries</u>							
RWA/05/1/3	RP	5	Fertilizer industries (1/6 m/m expert services)	-	14.0	-	-
68/383 RWA-4	SIS	4	Industrial utilization of peat (1/1 m/m expert services)	-	2.0	-	-

AFRICA (cont'd)

Rwanda (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Chemical and petrochemical industries (cont'd)</u>								
68/409 RMA-16	SIS	5	Exploitation and utilization of Lake Kivu gas (consulting firm; equipment)	7.8	21.5	-	-	-
69/572 RMA-23	SIS	4	Investigation of the development of pulp and paper industry (consulting firm)	-	-	6.0	-	-
69/574 RMA-21	SIS	4	Assistance in assessment of selected sectors of pharmaceutical and essential oils industries (1/0.25 m/m expert services)	-	1.2	-	-	-
<u>Electronic industries</u>								
71/1393 RMA-29	SIS	1	Assistance to the electronic industry (1/4 m/m expert services)	-	4.0	6.0	-	-
<u>Industrial planning and programming</u>								
RMA/12/1/4	RP	12	Industrial planning and programming (1/12 w/m fellowship)	-	4.3	-	-	-

AFRICA (cont'd)

Senegal

The industrial sector in Senegal accounts for 22 per cent of the GDP. The main industries are food, textile, leather, wood, building materials, chemicals and mechanical industries. Under the first national plan (1969-1973), 13.6 per cent of the total investment is earmarked for the industrial sector.

In 1970, a long-term technical co-operation programme was signed between the Government of Senegal and UNIDO. UNIDO has rendered assistance to the National Society for Industrial Studies and Promotion (SONEPI) in carrying out its tasks of studying and promoting Senegalese industries through feasibility studies on the implementation of industrial projects and marketing analyses. UNIDO is also providing assistance to the industrial estate at Thiès. A maintenance and repair workshop for

outboard motors at Saint-Louis is under consideration. In the metallurgical industry, assistance has been given to an aluminium foundry in production programmes and management; the creation of a demonstration pilot foundry is foreseen.

During 1971, a total of six experts and consultants served in Senegal for 52 man/months. Assistance included individual fellowships for the training of technical personnel; three fellowships were awarded. Senegalese nationals have participated in training programmes and seminars organized by UNIDO. UNESCO is associated with UNIDO in the implementation of a project at the national centre for scientific and technological research.

/n Industrial Development Field Adviser is posted in Dakar.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		
				1971	1972	1973
SEN-14	SP	11	National Society for Industrial Studies and Promotion (SONEPI) - Purpose: to assist the Government in making SONEPI an effective instrument for industrial promotion, with special emphasis on assistance to small- and medium-scale entrepreneurs. The establishment of an industrial information service is also envisaged.	68.0	109.7	51.6
			Approved: January 1970 UNDP: \$470,300 Operational: January 1971 Gov't: \$483,000 Duration: 3 years			
SEN/13/1/1	RP	13	Industrial banking techniques (1/6 m/m fellowship)	-	2.7	-
SEN/15/1/4	RP	12	Advisory mission on industrial development (2/1 m/m expert services)	-	6.0	-
71/1337 SEN-17	SIS	13	Assistance in identification and preparation of industrial projects (1/0.75 m/m expert services)	-	1.2	-
				up to		beyond
				1971	1972	1973

Industrial promotion

## AFRICA (cont'd)

Senegal (cont'd)

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
SEN-20	IPF	2	Foundry development centre, Thiès - Purpose: to develop the metallurgical industry through the establishment of a small foundry for training and demonstration purposes (1/11.5 m/m expert services)  Duration: 4 years USDP: \$581,200 Gov't: \$572,000	-	-	(100.0) (200.0) (280.0)
<u>Foundries</u>						
<u>Repair and maintenance</u>						
SEN/01/2/1	RP	1	Electrical engineering (1/6 m/m fellowship)	-	-	3.4
70/1037 SEN-14	SIS	1	Establishment of a central pilot workshop for general repair and maintenance at the Thiès industrial estate (1/12 m/m expert services; 1/6 m/m fellowship)	-	4.0	23.7
71/1331 SEN-16	SIS	1	Establishment of a workshop for repair of outboard motors at St. Louis (1/12 m/m expert services)	-	4.0	20.0
VC/1/18	GTF	1	Central pilot workshop for general repair and maintenance (equipment)	-	25.0	35.0
SEN-18	IPF	1	Establishment of central pilot workshop for general repair and maintenance for the Thiès industrial estate	-	-	(30.0) (150.0) (120.0)
<u>Metallurgical industries</u>						
SEN/60/5	TA	2	Assistance to the African Aluminium Foundry Company (SAFAL) (1/24 m/m expert services; equipment)	25.0	27.0	-
SEN/02/2/2	RP	2	Iron and steel production (1/5 m/m fellowship)	-	-	3.4

Senegal (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				up to 1971	1971	1972	1973
VC/2/18	CIF	2	Laboratory-scale investigations of processing ilmenite sand samples (consulting firm)	-	25.0	25.0	-
<u>Metallurgical industries (cont'd)</u>							
<u>Food and light industries</u>							
SEN/06/1/2	RP	6	Light industries (3/3 m/m fellowships)	-	3.2	-	-
SEN/06/1/3	RP	6	Food technology (1/6 m/m fellowship)	-	2.7	-	-
65/685 SEN-10	SIS	6	Assistance, through SONEPI, to the furniture industry in design and production (consulting firm)	0.3	13.3	-	-
<u>Pulp and paper industry</u>							
71/1413 SEN-12	SIS	4	Feasibility study on a pulp and paper industry based on indigenous non-wood fibre raw materials (1/1 m/m expert services)	-	2.0	-	-
<u>Industrial management and training</u>							
SEN/10/2/3	RP	10	Organization and management of enterprises (1/6 m/m fellowship)	-	-	3.4	-
<u>Scientific and technological research</u>							
SEN-13	SP	8	National centre for planning scientific and technological research - Purpose: to assist in technological research; executing agency: UNESCO (1/18 m/m expert services; 1/12 m/m fellowship)	-	-	34.1	14.2

Sierra Leone

Forestry, alcohol, tobacco, plastic footwear and the manufacture of oxygen are among the main industries in Sierra Leone. The industrial sector contributes about 6 per cent of the GDP. Under the current development plan, 14 per cent of total investments is earmarked for industry. The state sector plays an important role in the industrial development process.

UNIDO has rendered assistance in the evaluation of industrial projects and the preparation of feasibility studies for the development of new industries. Advisory services were also provided in the negotiations for the establishment of a common market for Sierra Leone and Liberia and also in the survey of

identified industrial projects, which the Government intends to implement. During 1971, four experts and short-term consultants visited Sierra Leone, and three fellowships were awarded to national personnel. Sierra Leone is participating in a number of regional and interregional projects. International organizations have co-operated in the implementation of several technical assistance projects.

The Country Programme is scheduled to be submitted to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser to be recruited in 1972 will serve Sierra Leone.

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				up to 1971	1971	1972	1973	beyond 1973
			<u>Industrial programming and financing</u>					
71/1396 SIL-3	SIS	12	Exploratory mission - industrial survey for development assistance (1/0.5 m/m expert services)	-	2.0	-	-	-
71/1439 SIL-4	SIS	13	Assistance in identification and preparation of industrial projects (1/0.5 m/m expert services)	-	1.1	-	-	-
SIL/11/2/1	NP	11	Pilot enterprises development (1/12 m/m fellowship)	-	-	5.8	-	-
			<u>Small-scale industry</u>					

AFRICA (cont'd)

S o m a l i a

The industrial sector accounts for some 5 per cent of the GDP of Somalia, and the development plan for 1971 to 1973 assigns a low priority to industry, allotting it about So.Sh. 43 million. The main industries in the country are based on agriculture and livestock, but emphasis in the current plan is given to the improvement of small-scale manufacturing. The state sector plays an important role in industrial development.

UNIDO has assisted the Government of Somalia by providing advice on the programming and future policy of industrializations experts reviewed the situation and made recommendations to the Government on existing and planned industries. Preliminary work has been done for the establishment of a foundry and a workshop, and assistance is being given in the expansion of the small-scale

industry sector. With UNIDO assistance, the Government plans to process and find markets for the export of gypsum, a mineral that is found in the country in large quantities. During 1971, five experts served in Somalia for 39 man/months. In addition, three fellowship posts were established.

The Country Programme for 1972 through 1976 is expected to be presented to the UNDP Governing Council for approval in 1973. Somali authorities have established a National Committee for UNIDO. UNIDO publications are distributed directly to governmental and professional institutions in the country. The Industrial Development Field Adviser stationed in Addis Ababa also serves Somalia.

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
<u>Industrial policies, programming and financing</u>								
SOM/68/21	TA	12	Industrial programming and industrial economics (2/49 m/m expert services; miscellaneous)	24.4	38.0	41.5	7.5	-
69/627 SOM-8	SIS	13	Reorganization of development bank operations (1/12 m/m expert services)	5.6	10.0	8.0	-	-
70/926 SOM-12	SIS	13	Establishment and organization of a Somalia industrial development corporation (2/9 m/m expert services)	3.2	12.0	10.0	-	-
<u>Light industries</u>								
70/1013 SOM-14	SIS	6	Utilization of particle board in the furniture industry (1/4 m/m expert services)	-	8.0	-	-	-



AFRICA (cont'd)

S o m a l i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - beyond <u>1973</u>
<u>Exploratory missions for specific industries</u>					
70/1005 SOM-13	SIS	4	Exploratory mission to review solar salt study and prepare terms of reference for assistance (1/0.25 m/s expert services)	- 1.3	- - -
<u>Small-scale industry</u>					
SOM/11/1/4	EP	11	Small-scale industrial development (1/3 m/s expert services)	- 5.8	- - -
<u>Building materials industry</u>					
SOM/03/2/1	EP	3	Production of building materials and components (1/6 m/s expert services)	- -	12.0 - - -
<u>Metallurgical industries</u>					
VC/2/8	GTF	2	Prototype foundry shop and prototype mechanical workshop (equipment; miscellaneous)	- 25.0	- - -

The Sudan

The manufacturing sector in the Sudan is divided into two parts. One is publically owned and operated and is under the control and management of the Industrial Development Corporation, which is responsible for two canneries, two sugar factories, a dried milk factory, an onion dehydrating plant, a tannery and a date processing factory; these factories employ a total of about 5,000 workers. The other part of the manufacturing sector is private; it includes about 600 factories, most of which are small. Under the 1971 to 1975 Development Plan, some emphasis is put on industrialization; it is expected that, in addition to assistance under bilateral agreements, \$30 million will be invested by the Government and \$24 million by the private sector.

UNIDO has assisted the Industrial Development Corporation to solve various problems that have arisen in certain of its factories. The Industrial Research Institute, a UNDP/SF project that is in its second phase, has also received UNIDO assistance. The Institute provides consultation and assistance to the public and private sectors and undertakes feasibility studies on the establishment of new industries by the Government. Requests have been received for experts to make feasibility studies for a sugar plant, a starch and glucose plant and two tanneries.

UNIDO has also provided assistance to the Sudan in food processing (especially oil and sugar), in the Khartoum tannery, industrial programming and planning, textiles, and in agricultural machinery. The Ministry of Industry has requested assistance for strengthening the planning and implementation units in the Ministry. Steps have been taken by UNIDO to assist in the establishment of a foundry and a workshop, and equipment is expected to be delivered in 1972. During 1971, a total of 10 experts and short-term consultants served in the Sudan for 84 man/months. In addition, six fellowships were awarded to national personnel.

The Sudan is a member of the Industrial Development Centre for Arab States (IDCAS) and participated in all UNIDO/IDCAS regional projects. It also participated in several other regional and interregional projects in 1971.

The Country Programme for 1972 through 1976 is expected to be presented to the UNDP Governing Council for approval in January 1973. Sudanese authorities have established a National Committee for UNIDO. UNIDO publications are distributed directly to six governmental and professional institutions in the country. An Industrial Development Field Adviser stationed in Cairo also covers the Sudan.

AFRICA (cont'd)

The Sudan (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Year</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
SUD-41	SP	8	<p><u>Industrial standardisation and research</u></p> <p>Industrial Research Institute, Khartoum -  <b>Purpose:</b> to assist the Government in strengthening the facilities at the Sudan Industrial Research Institute, Khartoum, for assistance to industry. The establishment of an industrial information service is also envisaged. The Plan of Operation was signed in November 1970.</p> <p>Approved: January 1970 UNDP: \$ 816,600            Operational: November 1970 Gov't: \$1,603,000            Duration: 4 years</p>	121.6	185.4	276.4	164.4	-
SUD/12/1/4	RP	12	<p><u>Industrial policies and programming</u></p> <p>Industrial planning and programming (1/8 m/m expert services)</p>	-	16.0	-	-	-
SUD/12/2/2	RP	12	<p>Industrial programming, project preparation and evaluation (2/12 m/m fellowships)</p>	-	-	6.8	-	-
SUD/15/2/3	RP	15	<p>Industrial surveys (2/6 m/m fellowships)</p>	-	-	6.8	-	-
69/512 SUD-14	SIS	15	<p>National industrial survey (4/25 m/m expert services)</p>	-	-	50.0	-	-
71/1424 SUD-30	SIS	12	<p>Advisory mission on industrial project implementation (3/1.5 m/m expert services)</p>	-	-	6.0	-	-
71/1510 SUD-34	SIS	14	<p>Assistance to the Supreme Authority for the Public Sector Corporation (export-oriented industries) (1/0.25 m/m expert services)</p>	-	1.0	-	-	-

AFRICA (cont'd)

The Sudan (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
							beyond 1973
			<u>Basic industries</u>				
SUD/71/10	TA	1	Industrial engineering (1/12 m/m expert services)	-	6.0	22.5	-
70/1128 SUD-19	SIS	1	Agricultural machinery and implements manufacture study mission (joint UNIDO/FAO project) (2/4 m/m expert services)	-	6.0	3.4	-
71/1223 SUD-21	SIS	2	Establishment of mechanical workshop and foundry (2/0.5 m/m expert services)	-	1.5	-	-
71/1362 SUD-29	SIS	3	Asbestos cement industry (1/3 m/m expert services)	-	-	6.0	-
VC/2/7-1/7	GTF	2	Prototype foundry plant (consulting firm; equipment)	-	166.0	54.6	-
			<u>Agro-industrial development</u>				
SUD/69/5	TA	6	Oil and fat chemistry (1/14 m/m expert services; 1/12 m/m fellowship)	21.7	4.7	-	-
SUD/06/1/1	RP	6	Agro-industrial development (1/6 m/m fellowship)	-	2.6	-	-
SUD/06/1/5	RP	6	Oil seeds quality control (1/6 m/m expert services)	-	17.5	-	-
68/377 SUD-16	SIS	6	Bible oils and fats technologist (1/1.5 m/m expert services)	-	3.0	-	-
71/1357 SUD-25	SIS	6	Feasibility study on castor bean processing (1/4 m/m expert services)	-	-	8.0	-
71/1358 SUD-26	SIS	6	Sorghum starch and glucose industry (1/4 m/m expert services)	-	-	8.0	-
			<u>Small-scale industry</u>				
SUD/11/1/2	RP	11	Small-scale industries (3/18 m/m fellowships)	-	8.1	-	-

AFRICA (cont'd)

The Sudan (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
<u>Food and light industries</u>							
SUD/69/7	TA	6	Cotton ginning (1/7 m/m fellowship)	2.1	1.4	-	-
68/262 SUD-8	SIS	6	Technical assistance to the Khartoum tannery (4/24 m/m expert services)	35.4	10.0	-	-
70/1017 SUD-20	SIS	6	Textile technology (1/6 m/m expert services)	-	-	12.0	-
71/1509 SUD-33	SIS	6	Kenaf bag manufacturing mission (1/0.25 m/m expert services)	-	1.0	-	-
<u>Industrial information</u>							
SUD/09/2/1	RP	9	Administration of industrial information facilities (1/6 m/m fellowship)	-	-	3.4	-
<u>Investment promotion</u>							
VC/4/21	GTP	6	Investment programme for the development of the wood industry (consulting firm)	-	-	30.0	-

AFRICA (cont'd)

Swaziland

The main industries in Swaziland are based on agriculture. In 1968, manufacturing accounted for 13 per cent of the GDP, with the foreign-owned sector contributing about two thirds of the GDP. The Government is therefore promoting small-scale industries among Swazi entrepreneurs and craftsmen through the Small Enterprises Development Corporation Ltd. (SEDCO), which is partly owned by the Government. The Government's development objectives are laid down in the five-year plan for 1969 to 1974, which gives high priority to the development of agriculture and related industries, as well as to education and training. With bilateral assistance, the Government has set up the Matsape Industrial Estate, which sells well-equipped industrial sites to interested parties (small-scale industries).

UNIDO has rendered assistance to the Ministry of Commerce, Industry and Mines in industrial development and to the Industrial Commercial Development Company. During 1971, a total of three experts and short-term consultants served in Swaziland for 30 man/months. One fellowship post was established.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Lusaka, Zambia, also serves Swaziland.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
SMA/12/1/2	RP	12	Adviser in programming industrial development (1/4 m/m expert services)	-	9.6	-
69/687 SMA-2	SIS	12	Adviser in programming industrial development (1/12 m/m expert services)	12.8	16.0	-
71/1168 SMA-4	SIS	7	Assistance to Ministry of Commerce, Industry and Mines (Under-Secretary for Industrial Development) (1/6 m/m expert services) (OPAS)	-	8.0	2.0
9025-70	FIT	13	Establishment of an industrial commercial development company (1/36 m/m expert services; 2/12 m/m fellowships; equipment)	-	20.0	28.4
						20.0
						3.0

Swaziland (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Year</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
SMA-6	IPF	12	<p><u>Industrial policies and programming (cont'd)</u></p> <p>Industrial advisory and consultancy services - Purpose: to assist the Government in strengthening the Ministry of Commerce, Industry and Mines and the National Industrial Development Corporation in the formulation of industrial development policies and in project identification, pre-feasibility and feasibility studies (1/5.5 m/m expert services).</p> <p>Duration: 2 years      UNDP: \$199,800 Gov't: \$ 26,000</p>	-	-	(103.0)	(97.0)	-
SMA/11/2/1	RP	11	<p><u>Small-scale industry</u></p> <p>Small-scale industries promotion (1/2 m/m fellowship)</p>	-	-	-	-	1.8
SMA/14/2/2	RP	14	<p><u>Promotion of export-oriented industries</u></p> <p>Export products identification and industrial export promotion (2/2 m/m fellowships)</p>	-	-	-	-	2.8
71/1430 SMA-8	SIS	6	<p><u>Light industries</u></p> <p>Process and engineering services for the installation and commencement of a tall-oil production plant (consulting firm)</p>	-	-	-	-	27.0
SMA-3	IPF	2	<p><u>Metallurgical industries</u></p> <p>Iron ore beneficiation study - a continuation of a first phase UN project (SMA-1)</p>	-	-	-	-	(30.0)

AFRICA (cont'd)

T o g o

In Togo, the industrial sector, which represents 6 per cent of the GNP, consists of a large number of artisan shops, some processing plants for agricultural products (cotton ginneries, palm oil mills and a cassava starch plant) and a few industrial enterprises (such as soap, soft drink, coffee roasting and ice plants). There is also a plastics plant.

UNIDO assistance in Togo during 1971 was concentrated on feasibility studies such as those on oil technology and on the establishment of a solar salt plant. Another field of assistance was in the preparation and formulation of industrial projects as well as the preparation of the Second Five-year Plan. UNIDO's assistance included the preparation for the establishment of an

industrial estate. UNIDO, in co-operation with FAO, is also assisting the country in a major project on fertilizer use and promotion, which includes demonstration and production pilot plants. During 1971, a total of nine experts and consultants served in the country for 28 man/months. UNIDO awarded three fellowships to nationals of Togo, and three country nationals attended a UNIDO seminar and training workshop.

UNIDO assisted in the preparation of the Country Programme, which is to be submitted to the UNDP Governing Council for approval in January 1972. Authorities of Togo have established a National Committee for UNIDO. An Industrial Development Field Adviser stationed in Abidjan, Ivory Coast, also serves Togo.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				up to 1971	1971	1972	1973	beyond 1973
TOG/69/3	TA IPF	12	Industrial project evaluation	25.2	22.0	-	-	-
71/1317 TOG-13	SIS	13	Assistance in the identification and preparation of industrial projects (1/1 m/m expert services)	-	-	(30.0)	(30.0)	(45.0)
TOG-12	SP	5	<u>Fertilizer industry</u> Fertilizer use, promotion, demonstration and production scheme, Lomé - Purpose: to assist the Government in launching an intensive fertilizer use campaign and to establish a fertilizer demonstration plant, with an annual capacity of 14,000 tons, for the manufacture of single superphosphate. It is expected that the project will increase farm output, farmers' income and agricultural	24.4	86.4	400.7	334.2	117.0



AFRICA (cont'd)

T. O. S. O. (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
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Fertilizer industry (cont'd)

TOG-12 (cont'd)

exports and will produce foreign exchange savings. A project manager is under recruitment. Two experts are in the field. The Plan of Operation is being revised.

Approved: June 1969 UNDP: \$944,900  
Duration: 3 years Gov't: \$941,000

Small-scale industry

TOG-19	SF	11	-	12.0	98.6	180.1	98.9
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Small-scale industries and establishment of an industrial estate near Lomé -

Purpose: to assist the Government in strengthening and expanding the national centre for the promotion of small- and medium-scale industries and in establishing an industrial estate near Lomé. The centre will assist Togolese entrepreneurs in setting up new small-scale industries; advise the Government, through appropriate channels, on policies and programmes for the promotion, development and modernization of small-scale industries; and assist with the construction and management of industrial estates. The project manager is in the field and one expert will be joining the project shortly. The Plan of Operation is being revised.

Approved: January 1971 UNDP: \$432,100  
Duration: 3 years Gov't: \$577,000

TOG/71/5  
TOG/11/2/4

TA	11	-	6.0	6.0	-	-	-
RP	11	-	-	-	2.2	-	-

Small-scale industry (1/6 m/m expert services)  
Small-scale industry and related activities: small-scale industries: promotion (1/3 m/m fellowship)

AFRICA (cont'd)

T O G O (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
70/1071 TOG-9	SIS	11	Assistance in the establishment of small-scale metal industry (1/12 m/m expert services)	-	-	25.0	-
<u>Small-scale industry (cont'd)</u>							
<u>Food and light industries</u>							
TOG/06/1/3	RP	6	Food and light industries: food industries training (1/3 m/m fellowship)	-	2.7	-	-
TOG/06/2/1	RP	6	Light industries: food industries (1/6 m/m fellowship)	-	-	3.7	-
67/166 TOG-1	SIS	6	Manufacturing and marketing of cassava dry flakes, flour and starch (1/6 m/m expert services)	4.1	-	12.0	-
69/682 TOG-5	SIS	6	Feasibility study in the field of the vegetable oil industry (1/3 m/m expert services)	-	6.0	-	-
70/822 TOG-8	SIS	6	Alcohol production and marketing (1/3 m/m expert services)	-	-	6.0	-
70/967 TOG-11	SIS	6	Feasibility study for a factory to produce soluble coffee (1/4 m/m expert services)	-	-	8.0	-
<u>Chemical industry</u>							
70/1026 TOG-12	SIS	4	Assistance in the initiation of a solar salt plant (consulting firm)	-	12.0	-	-
<u>Industrial management and training</u>							
TOG/07/2/2	RP	7	Industrial administration: industrial property and patents (1/2 m/m fellowship)	-	-	1.8	-
TOG/10/2/3	RP	10	Industrial management and consulting services: industrial management techniques (1/3 m/m fellowship)	-	-	2.2	-

Tunisia

In 1970, industry in Tunisia, including manufacturing, mining and petroleum, accounted for about 23 per cent of the GDP. The industrial sector in Tunisia consists predominantly of light industries that produce consumer goods for the domestic market. Food processing, textiles, clothing, leather and woodworking contribute more than two thirds to the output of manufactured goods. Other industries being promoted are chemicals, petroleum refining and steel. Industries geared for import substitution and export are being encouraged, and the phosphate chemical industry, based on Tunisia's considerable reserves, is receiving high priority. Industrial development in Tunisia has been carried out mainly by the public sector.

Through the national centre for industrial studies (a UNDP/SF project), UNIDO, in association with ILO, has given assistance in the form of advice on the feasibility of establishing new industries and on technical and economic problems confronting existing industrial enterprises. Through another UNDP/SF project, a centre for the development of prototype tools, in Sousse, assistance has been provided in developing and promoting the design and manufacture of special tools and prototypes essential for the development of Tunisian industry. UNIDO assis-

tance has been given in the leather industry, in mineworking equipment, and in the training of technical personnel. It is also envisaged that UNIDO will assist the Tunisian Government in the preparation of its next development plan (for 1973-1975). During 1971, 15 experts served in Tunisia for 96 man/months. In addition, 13 fellowships were awarded to national personnel. Subcontracting arrangements valued at \$59,777 were concluded and equipment worth \$541 was delivered.

Tunisia is participating in the regional project, Centre for Industrial Studies for the Maghreb (SF/REG-72), which provides facilities for the preparation of selected industrialization surveys, which are of interest to Maghreb States. As a member of the Industrial Development Centre for Arab States (IDCAS), Tunisia is benefitting from the assistance offered by UNIDO to this organization. In addition, three Tunisians participated in seminars and workshops organized by UNIDO.

Tunisian authorities have established a National Committee for UNIDO. An Industrial Development Field Adviser who is to be posted in Rabat, Morocco, in 1972 will also serve Tunisia.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
TUN-15	SF	12	National centre for industrial studies  Purpose: to assist in establishment and initial operation of a national centre for industrial studies. The centre will advise the Government on industrial programmes and policies, undertake technical and economic studies of specific industrial projects and prepare feasibility studies.	336.8	151.8	206.7	beyond 1973
			Approved: June 1966 Operational: August 1968 Duration: 5 years				
			UNDP: \$ 771,700 Gov't: \$1,025,000				

AFRICA (cont'd)

T u n i s i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
TUN-27	SP	1	<p><u>Metalworking industry</u></p> <p>Centre for the development of prototype tools, Sousse - Purpose: The centre, located within the industrial complex of the Ateliers Mécaniques du Sahel, will provide instruction in modern design and production methods, assist in the production of tools and maintenance supplies urgently needed by the Tunisian mechanical industry, develop and train manpower with skills in tool- and die-making, pattern making, forging and shop practices, study future needs for special tools and measuring instruments and recommend measures to standardize components of dies, jigs and other tools. The Plan of Operation was signed in January 1971.</p> <p>Approved: January 1969 UNDP: \$681,600 Operational: February 1971 Gov't: \$746,000 Duration: 4 years</p>	30.4 53.0	200.8 196.5 169.8
TUN/70/1	TA	1	Production engineering (extension of SIS project) (1/10 m/m expert services)	12.4 6.0	- - -
70/957 TUN-14	SIS	10	Assistance to the Ateliers Mécaniques du Sahel in management and cost accounting (1/4 m/m expert services)	- 9.0	- - -
70/1084 TUN-17	SIS	1	Production of mine-working equipment and spare parts (1/2 m/m expert services)	- 4.0	- - -
TUN/71/8	TA	6	Continuation of SIS project 70/747 (1/12 m/m expert services)	- 6.0	22.5 - -
TUN/06/1/3	BP	6	Refrigeration techniques (1/6 m/m expert services)	- 12.0	- - -
<u>Food and light industries</u>					

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
TUN/06/2/1	RP	6	<u>Food and light industries (cont'd)</u> Food industries (1/6 m/m fellowship)	-	-	3.4	-	-
70/747 TUN-13	SIS	6	Assistance to the leather industry (1/12 m/m expert services)	4.7	18.0	-	-	-
69/622 TUN-9	SIS	4	<u>Potassic water utilization</u> Exploitation of potassic waters (consulting firm)	-	6.0	6.0	-	-
TUN/11/2/2	RP	11	<u>Strengthening of specific services for industry</u> Industrial extension services (small-scale industry) (1/6 m/m fellowship)	-	-	3.4	-	-
70/1041 TUN-15	SIS	17	Techno-economic study of the development of the packaging industry (3/9 m/m expert services)	-	-	36.0	-	-
71/1374 TUN-18	SIS	13	Exploratory mission to examine the reorganization of the investment promotion centre (1/0.5 m/m expert services)	-	0.5	-	-	-
71/1466 TUN-19	SIS	14	Programme on product adaptation and development for export-oriented industries (1/0.5 m/m expert services)	-	1.0	-	-	-
9013-70	FIT	12	Industrial programming (Belgian associate expert, 1/24 m/m expert services)	5.0	24.0	18.0	-	-

AFRICA (cont'd)

U g a n d a

The main industries in Uganda are based on the processing of agricultural products such as coffee, sugar, tea and tobacco. Other industries are textiles, bicycles, tires and tubes, matches, beer, glass, cement and confectionery. Under the Third Five-year Development Plan (1971-1976), 8.7 per cent of total investment is in industry. The public sector plays an important role in the development of Uganda.

The assistance of UNIDO to Uganda has been aimed primarily at promoting small-scale industries. Other UNIDO projects have

been concerned with the improvement of industrial management, ceramics, particle board, and industrial planning and programming. During 1971, nine experts and short-term consultants served in Uganda for 60 man/months. Uganda is a member of the East African Community, which receives assistance from UNIDO.

The Country Programme for the period 1972 through 1976 has been prepared for submission to the UNDP Governing Council for approval in June 1972. An Industrial Development Field Adviser posted in Addis Ababa also serves Uganda.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
UGA-7	SF	11	<p><u>Small-scale industry</u></p> <p>Small-scale industries development programme and establishment of an industrial estate, Kampala - Purpose: to assist the industry division of the Ministry of Industry and Commerce to establish facilities for servicing and developing small-scale industries, to plan a demonstration industrial estate, to advise the Ministry of Planning and Economic Development on industrial projects and to carry out industrial surveys and feasibility studies. The Plan of Operation was signed in July 1968. The project manager is in the field.</p> <p>Approved: January 1966 UNDP: \$ 746,400 Operational: July 1968 Gov't: \$1,129,000 Duration: 5 years</p>	228.7	62.9	281.2	100.0
UGA/06/1/1	RP	6	<p><u>Light industries</u></p> <p>Leather production (2/8 m/m fellowships)</p>	-	6.6	-	-
71/1270 UGA-24	SIS	6	<p>Assistance in the establishment of an industrial tannery (1/12 m/m expert services; equipment)</p>	-	-	27.0	-

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
69/451 UGA-7	SIS	4 (1)	<u>Chemical, pharmaceutical, and pulp and paper industries</u> Feasibility study for manufacturing paper from papyrus (2/4 m/m expert services)	8.7	-	4.0	-
70/1082 UGA-20	SIS	4	Assistance to the management of Papco Industry Ltd. and feasibility study on increasing productive capacity and possible expansion of this firm (consulting firm)	-	5.0	28.9	-
70/1141 UGA-22	SIS	3	<u>Construction and building materials industries</u> Manufacture of dinner ware and sanitary ware; feasibility study of non-metallic products (1/12 m/m expert services; 1/12 m/m fellowship; equipment; miscellaneous)	-	16.0	36.8	-
70/1090 UGA-21	SIS	10	<u>Industrial management and training</u> Industrial management consultancy team to Uganda Development Corporation (4/36 m/m expert services)	-	30.0	46.4	-
UGA/08/2/1	IPF	10	Management training and advisory centre, Kampala (Phase II)	-	-	(20.0)	(100.0) (200.0)
	RP	8	<u>Industrial services and administration</u> Industrial standards (1/3 m/m expert services; 1/6 m/m fellowship)	-	-	9.4	-

AFRICA (cont'd)

U g a n d a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to	<u>Planned expenditure (in '000 US\$)</u> beyond
				1971 1971	1972 1973
UGA/68/19	TA	12	Industrial planning and programming (1/24 m/m expert services; 1/6 m/m fellowship)	11.7 24.0	23.7 -

Industrial planning and programming

The United Republic of Tanzania

The main industries in the United Republic of Tanzania are textiles, cement, fertilizers, tires, oil and sugar refining, cigarettes and tobacco, beer, footwear, paint, metal containers, soap, sisal spinning and plywood. Although industry contributes only about 8 per cent of the GNP, it is growing faster than other sectors. Import substitution has been the dominant feature of the industrialization strategy in the country.

UNIDO has assisted in the establishment of an industrial studies and development centre, in maintenance and repair of agricultural machinery, in poultry feed and vegetable oil and in malt production for breweries. During 1971, 15 experts and

short-term consultants served in the United Republic of Tanzania for 70 man/months; one fellowship was awarded to national personnel. A subcontracting arrangement valued at \$15,000 was concluded for one project. The United Republic of Tanzania is a member of the East African Community, which receives assistance from UNIDO.

The Country Programme for 1972 through 1974 is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser posted in Addis Ababa also serves the United Republic of Tanzania.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to	<u>Planned expenditure (in '000 US\$)</u> beyond
				1971 1971	1972 1973
TAN/69/4	TA	10	Director of Operations (1/36 m/m expert services) (OPAS)	7.7 15.3	15.3 7.7

Industrial management



The United Republic of  
Tanzania (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Year</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
			<u>Industrial management (cont'd)</u>					
	IPF	10	Director of Operations (OPAS)	-	-	(21.3)	(10.7)	-
	IPF	10	Assistance to the National Development Corporation	-	-	(69.0)	(69.0)	(69.0)
			<u>Industrial planning and programming</u>					
TAN-10	SF	12	Industrial studies and development centre, Dar-es-Salaam - <u>Purpose:</u> to assist in the establishment of a centre to advise the Ministry of Industry, Mineral Resources and Power on industrial policy and organization, to assist in the investigations necessary for better utilization of natural resources, to prepare industrial feasibility studies and advise on the implementation of projects, to provide industrial extension services and to advise on regional aspects of industrial projects. The Plan of Operation was signed in February 1966 and a supplementary allocation was approved in January 1969.	718.0	109.7	77.8	-	-
TAN-22	IPF	12	<u>Approved:</u> January 1965 <u>UNDP:</u> \$1,000,000 <u>Operational:</u> October 1965 <u>Gov't:</u> \$ 290,000 <u>Duration:</u> 5½ years					
	IPF	12	Industrial studies and development centre, Phase II of TAN-10 (5/10 m/m expert services; 5/45 m/m fellowships)	-	-	(325.0)	(325.0)	-
	IPF	12	Industrial strategy formulation	-	-	(129.0)	(116.0)	(90.0)

AFRICA (cont'd)

The United Republic of  
Tanzania (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
			<u>Agro-industrial development and light industries</u>				
TAN/06/1/1	RP	6	Wood processing (1/6 m/m fellowship)	-	3.4	-	-
TAN/06/2/1	RP	6	Food industries (1/12 m/m fellowship)	-	-	5.8	-
70/944 TAN-6	SIS	6	Pre-investment study and technical and economic analysis of the poultry feed and vegetable oil industry (1/1 m/m expert services)	-	3.0	-	-
70/1016 TAN-7	SIS	6	Assistance to breweries in malt production (consulting firm)	-	10.0	4.0	-
			<u>Small-scale industry</u>				
71/1304 TAN-12	SIS	11	Exploratory mission on small-scale industries development (1/1 m/m expert services)	-	3.0	-	-
			<u>Engineering industries</u>				
71/1247 TAN-8	SIS	1	Organization and operation of repair and maintenance facilities for agricultural machinery and implements (2/12 m/m expert services)	-	6.0	18.0	-
			<u>Promotion of export-oriented industries</u>				
71/1222 TAN-11	SIS	14	Export products development (2/1 m/m expert services)	-	3.5	-	-

The Upper Volta

The largest sector of the GNP of the Upper Volta is agriculture, with the industrial sector contributing only 13 per cent. The industrial sector is therefore oriented mainly towards agricultural resources: the food industry accounts for 28 per cent of the industrial output, and the textile industry accounts for 31 per cent. There are also woodworking, building materials, leather and soap industries. In the First Development Plan (1967-1970), total investments amounted to 33,000 million CFA, of which only 4,500 million were earmarked for the industrial sector. In 1971, the Second Development Plan was prepared.

UNIDO assistance has been mainly in feasibility studies, some of which were for the development of the agro-industrial sector. Other feasibility studies have been conducted on the small-scale industry sector. In connexion with these latter

studies, the establishment of an industrial estate where small-scale industries would be located has been investigated, and it is envisaged that this project will be continued under UNDP financing. Further, it is envisaged that feasibility studies will be conducted in the leather and fertilizer industries. During 1971, five experts served in the country for a total of 22 man/months. Two nationals of the Upper Volta participated in seminars and training workshops organized by UNIDO. In 1970, a long-term technical assistance programme was prepared jointly by UNIDO and the Government.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1972. Authorities of the Upper Volta have established a National Committee for UNIDO. An Industrial Development Field Adviser posted in Abidjan, Ivory Coast, also serves the Upper Volta.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
UPV/68/20	TA	11	Small- and medium-scale industries (1/36 m/m expert services; miscellaneous: \$3,500)	18.0	27.0	30.5	7.5
UPV/11/2/3	RP	11	Small-scale industries: industrial estates and related activities: promotion of small-scale industries; organization of industrial estates (2/12 m/m fellowships)	-	-	6.8	-
69/637 UPV-13	SIS	11	Feasibility study of a pilot industrial estate at Ouagadougou (1/6 m/m expert services)	5.5	8.0	-	-
9039-71	FIT	11	Industrial development (Belgian associate expert, 1/12 m/m expert services)	-	6.0	16.0	-
UPV-11	IPF	11	Establishment of an industrial estate	-	-	(100.0)	(150.0) (100.0)

AFRICA (cont'd)

The Upper Volta (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973 beyond 1973	
<u>Identification of new industrial opportunities</u>								
UPV/06/1/1	RP	6	Food and light industries: processing of animal and vegetable products (1/6 m/m expert services)	-	14.0	-	-	
70/786 UPV-15	SIS	1	Survey of maintenance and repair facilities services and needs (1/2 m/m expert services)	-	4.0	-	-	
70/828 UPV-16	SIS	1	Market research and preparation of feasibility study: enamelled holloware (1/1 m/m expert services)	-	2.0	-	-	
71/1217 UPV-19	SIS	3	Exploration and commercial utilization of marble (consulting firm)	-	-	25.0	-	
71/1323 UPV-22	SIS	13	Assistance in the identification and preparation of industrial projects (1/1 m/m expert services)	-	2.0	-	-	
<u>Industrial management and training</u>								
UPV/10/2/2	RP	10	Industrial management and training and consulting services: consulting centres for management and organisation of enterprises (1/6 m/m fellowship)	-	-	3.4	-	
UPV/12/2/4	RP	12	Industrial programming and project planning: preparation and evaluation of projects (1/6 m/m fellowship)	-	-	3.4	-	

Z a i r e

The economy of Zaire is based primarily on mineral extraction and forestry. The manufacturing sector is therefore oriented towards the processing of certain minerals available in the country (including copper and iron), diamond cutting, pulp and paper and textiles. The Government is seeking to expand the manufacturing sector.

In Zaire there are two groups of three UNIDO experts each. One of these groups is concerned with industrial assistance to small- and medium-scale Zairian industries and the other with the evaluation and promotion of industrial projects. From the organizational point of view, these six experts are to be combined in a single team within the framework of a new project of assistance to Zairian enterprises. UNIDO experts are to provide assistance to a management training centre, planned by

the Chamber of Commerce and Industry of Kinshasa. It is envisaged that this centre will contribute to the training of national cadres. It is hoped that a UNDP/SF project for a maintenance and repair shop will become operational soon. A seminar on small-scale industry, attended by a number of French-speaking African countries, was held in Kinshasa in the summer of 1971. French and Belgium bilateral assistance has been associated with the implementation of several technical assistance projects.

The Country Programme for 1972 through 1976 is expected to be presented to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser is stationed in Kinshasa.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
CON(K)12/1/2	RP	12	<u>Industrial strategy, evaluation and programming</u> Project identification and evaluation (2/12 m/m fellowships)	-	6.2	-	-	-
9020-70	FIT	12	Assistance to the Ministry of National Economy, Investment Division - Industrial evaluation team - Continuation of assistance started under FIT programme (3/72 m/m expert services)	12.4	42.0	24.0	-	-
	IPP	12	Diagnostic study and prospects of Zairian industry (assistance to the Presidency)	-	-	(30.0)	(30.0)	-
	IPP	12		-	-	(25.0)	(25.0)	(20.0)

AFRICA (cont'd)

Z a i r e (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
			<u>Africanization of industry: Development of small- and medium-scale industry</u>				
COM(K)/11/1/3	RP	11	Development of small- and medium-scale industries	-	3.6	-	-
71/1272 COM(K)-6	SIS	12	Pre-feasibility study on creation and development of regional industrial centres (2/12 m/m expert services)	-	6.0	18.0	-
9021-70	FIT	11	Consulting services for Zairian enterprises (three experts)	-	36.0	36.0	-
	IPF	11	Promotion of Zairian enterprises	-	-	(181.0)	(231.0) (305.0)
	IPF	11	Establishment of an industrial estate	-	-	-	(30.0) (366.0)
			<u>Manufacturing industry</u>				
COM(K)/06/1/1	RP	6	Food and light industries - furniture production (1/6 m/m fellowship)	-	3.6	-	-
COM(K)/06/2/1	RP	6	Food industries (1/12 m/m fellowship)	-	-	5.8	-
71/1363 COM(K)-8	SIS	13	Assistance in the identification and preparation of industrial projects (1/1 m/m expert services)	-	1.4	-	-
	IPF	2	General survey on the perspectives for the development of copper industry till 1980 (consulting firm)	-	-	(20.0)	(150.0) -

Project number	Source of funds	Class	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
<u>Building materials industry</u>								
71/1462 COM(K)-9	SIS	3	Assistance to cement industry (1/1 m/m expert services)	-	2.0	-	-	-
	IPF	3	Development of building materials industry (feasibility study for utilization of local raw materials)	-	-	(30.0)	(30.0)	-
<u>Industrial institutions and services</u>								
COM(K)-34	SP	1	Central services for maintenance and repair of industrial equipment - Purpose: to assist the Government in a preliminary study, leading to the establishment of a regional central service for maintenance and repair of industrial equipment to be attached to the Ministry of National Economy and Industry. The Plan of Operation has been authorized for signature and a project manager is under recruitment.	5.0	-	127.0	59.3	-
Approved: January 1970 UNDP: \$191,300								
Duration: 1½ years Gov't: \$ 55,000								
COM(K)/08/2/3	RP	8	Industrial services and their administration: organization of industrial fairs (1/6 m/m-fellowship)	-	-	3.4	-	-
	IPF	8	Assistance to the Central African Industrial Research Centre (CRIAC)	-	-	(185.0)	(350.0)	(215.0)
	IPF	(6)		-	-	(33.0)	(62.0)	(49.0)
	IPF	8	Assistance for quality control and industrial standardization	-	-	-	-	-

AFRICA (cont'd)

Z a m b i a

The main industries of Zambia are copper, cement, bricks, concrete and ferro-concrete pipes, furniture, textiles and shoes. Since independence, manufacturing has grown by about 18 per cent. Zambia has made efforts to diversify the economy to make it less dependent on the copper industry. Consequently, manufacturing and construction have increased considerably. The public sector has played a progressively important role in the industrial development of the country and now controls virtually all important industrial activity.

UNIDO has rendered assistance to Zambia in the field of small-scale industries and in industrial project planning. In 1971, seven UNIDO experts and short-term consultants served in Zambia for 48 man/months. A subcontracting arrangement valued at \$5,700 was concluded for one project.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser is posted in Lusaka.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
ZAM/10/2/2	BP	10	<u>Industrial management and training</u> Industrial management techniques (1/6 m/m fellowship)	-	-	3.4	-	-
ZAM/68/15	TA	12	<u>Industrial policies and programming</u> Industrial development (1/25 m/m expert services)	52.2	2.0	-	-	-
70/1065 ZAM-5	SIS	12	Industrial project planning (1/12 m/m expert services)	-	12.0	12.0	-	-
70/1119 ZAM-6	SIS	1	<u>Engineering industries</u> Rationalization of the agricultural machinery and implements manufacturing sector (1/4 m/m expert services)	-	-	8.0	-	-



Zambia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>SNIP</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
ZAN-6	SP	11	<p><u>Development of small-scale industry</u></p> <p><u>Purpose:</u> to assist the Industrial Development Corporation of Zambia (INDICO) in the development of small-scale enterprises and to provide a base for the continued expansion of small-scale industries and services under indigenous national entrepreneurship and management. The Plan of Operation was signed in November 1970. The project manager has been recruited.</p> <p><u>Approved:</u> June 1969      <u>UNDP:</u> \$608,400  <u>Operational:</u> January 1971      <u>Gov't:</u> \$294,000  <u>Duration:</u> 3 years</p>	53.7	92.0	298.7	103.2	-

Regional

<u>Project number</u>	<u>Source of funds</u>	<u>SNIP</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
AFR/02/2/1	RP	2	<p><u>Iron and steel industries</u></p> <p>Regional adviser, iron and steel industries (1/12 m/m expert services)</p>	-	-	27.0	-	-

AFRICA (cont'd)

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Chemical industry</u>								
AFR/04/1/2	RP	4	Regional adviser, chemical industry (1/7 m/m expert services)	-	22.3	-	-	-
AFR/04/2/2	RP	4	Regional adviser, chemical industry (1/12 m/m expert services)	-	-	27.0	-	-
REC-72	SF	12	Centre of industrial studies for the Maghreb <u>Purpose:</u> to assist in the establishment and initial operation of a centre for industrial studies for the Maghreb Countries (Algeria, Morocco and Tunisia). The centre is to prepare general industrialization surveys at the request of the participating countries. The establishment of an industrial information service is also envisaged.  Approved: January 1967 UNDP: \$1,454,900 Operational: February 1968 Gov't: \$ 645,000 Duration: 5 years	296.9	86.2	287.8	270.4	370.2
<u>Light industries</u>								
AFR/69/25	TA	6	Seminar on the development of leather industries (6/3 m/m expert services; 20/10 m/m fellowships; miscellaneous)	-	37.0	-	-	-
AFR/06/1/3	RP	6	Regional adviser, mechanical forest industries (1/12 m/m expert services)	-	27.2	-	-	-
AFR/06/2/3	RP	6	Regional adviser, mechanical forest industries (1/12 m/m expert services)	-	-	27.0	-	-
68/364 AFR-4	SIS	6	Textile study (consulting firm)	67.5	10.6	-	-	-

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>
				<u>up to 1971</u>	<u>1971</u>	
						<u>1972</u> <u>1973</u> <u>beyond 1973</u>
AFR/70/15	TA	8	<u>Quality control</u> Training workshop in quality control (4/3 m/m expert services; 18/14 m/m fellowships; miscellaneous)	-	23.0	-
			<u>Small-scale industry</u>			
AFR/70/30	TA	11	Training workshop on senior extension officers for small-scale industry in the Central African subregion and North Africa (1/1 m/m expert services; 12/4 m/m fellowships; miscellaneous)	-	10.0	-
AFR/11/2/4	RP	11	Regional adviser, development of small-scale industries (1/12 m/m expert services)	-	-	27.0
			<u>Industrial planning and programming</u>			
AFR/12/1/4	RP	12	Long-range country programming (expert services)	-	4.0	24.0
	RP		Formulation and implementation of industrial projects (1/12 m/m expert services)	-	21.2	-
			<u>Industrial policies and financing</u>			
AFR/13/1/5	RP	13	Industrial promotion (1/1 m/m expert services)	-	1.0	-
AFR/13/2/5	RP	13	Regional adviser, industrial promotion, project evaluation and industrial financing (1/12 m/m expert services)	-	-	27.0

AFRICA (cont'd)

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Start</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure</u>
				<u>up to 1971</u>	<u>1972</u>	<u>(in '000 US\$)</u>
						<u>beyond 1973</u>
				<u>1971</u>	<u>1972</u>	<u>1973</u>
						<u>1973</u>
<u>EAST AFRICAN COMMUNITY</u>						
			<u>Chemical, pharmaceutical, and pulp and paper industries</u>			
EAC/04/2/1	IP	4	Pharmaceutical industries (1/12 m/m fellowship)	-	5.8	-
70/784 APR-10 Phase II	SIS	4 (12)	Establishment of pharmaceutical industry sector in the East African Community (consulting firm)	-	73.0	-
REG-182	SP	15	<u>East African Development Bank</u>  East African Development Bank, Industrial Studies Unit - Purpose: to assist the East African Community in establishing at the East African Development Bank an industrial studies unit, leading to the identification of industrial investment opportunities within the framework of the Community's objectives. The project continues activities begun with SIS assistance. The Plan of Operation has been prepared; the project manager is in the field.	62.0	124.5	82.0
EAC/68/11	TA	12	<u>Industrial policies, programming and financing</u>  Industrial unit (1/36 m/m expert services)	24.2	18.9	-
EAC/70/4	TA	15	Assistance to industrial unit in industrial policy measures and industrial economic and statistical analysis (2/36 m/m expert services; 3/36 m/m fellowships)	-	36.0	-
			Approved: January 1971 UNDP: \$303,000 Duration: 3 years Gov't: \$267,000			

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
70/920 AFR-15	SIS	15	<u>Industrial policies, programming and financing (cont'd)</u> Assistance to the EAC industrial unit in industrial policy measures and industrial economic and statistical analysis (2/12 m/m expert services)	15.3	14.0	-	-	-
71/1414 AFR-29	SIS	10	<u>Industrial management and consulting services</u> Exploratory mission for consulting centre (1/1 m/m expert services)	-	2.0	-	-	-
EAC/08/2/2	RP IPF	8 8	<u>Industrial institutions</u> Industrial standards (1/12 m/m fellowship) Standards, applied metrology and instrument centre: assistance in establishment of an East African standards institution	-	-	5.8	-	-
						(80.0)	(300.0)	(500.0)
IDCAS/10/2/1	RP	16	<u>INDUSTRIAL DEVELOPMENT CENTRE FOR ARAB STATES (IDCAS)</u> <u>Industrial training</u> Industrial training (2/6 m/m fellowships)	-	-	-	4.4	-

AFRICA (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Regional (cont'd)</u>	
				<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972 1973 beyond 1973
IDCAS/12/2/2	RP	12	<u>Industrial programming</u> Industrial programming (2/6 m/m fellowships)	-	4.4
<u>COMMON AFRO-MALAGASY-MAURITIUS ORGANIZATION (OCAMM)</u>					
<u>Industrial information</u>					
71/1341 AFR-28	SIS	8	Adviser on the organization and administration of the Regional Industrial Property Office (1/0.75 m/m expert services)	-	1.5
71/1378 AFR-23 Phase I	SIS	9	Establishment of a regional industrial and documentation centre for OCAMM (1/0.50-0.75 m/m expert services)	-	1.5
<u>ORGANIZATION OF THE SEVERAL RIPARIAN STATES (ORS)</u>					
<u>Chemical, pharmaceutical and pulp and paper industries</u>					
70/1048 AFR-18	SIS	4	Exploratory mission on pulp and paper industry (1/0.5 m/m expert services)	-	1.5
70/1049 AFR-19	SIS	4	Pharmaceutical and chemical industry based on salt - exploratory mission (1/1 m/m expert services)	-	3.0

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
71/1285 AFR-26	SIS	4	<u>Chemical, pharmaceutical, and pulp and paper industries (cont'd)</u> Exploratory mission to develop terms of reference for the establishment of salt industry sectors in the OMS (1/1 m/m expert services)	- 3.0	- - -
70/1054 AFR-20	SIS	5	<u>Petrochemical industry</u> Development of the petrochemical and plastics industries (consulting firm)	- 14.6	- 17.4 -
71/1249 AFR-22	SIS	6	<u>Food and light industries</u> Development of sugar industry in OMS countries (1/1 m/m expert services)	- 2.0	- - -

THE AMERICAS

A r g e n t i n a

In the industrial field, the Argentine National Development Plan for 1971 to 1975 emphasizes the substitution of imports, especially in the paper and cardboard, chemical, petrochemical and metallurgical industries. Increased production of cars, machinery, electrical equipment and glass is also planned. An annual growth of about 10.2 per cent is expected in these industries, whereas industries based on agriculture are expected to increase by only 5.6 per cent annually. As a whole, export of industrial products is expected to increase by 22 per cent.

For several years UNIDO assistance to Argentina has taken the form of short-term missions by highly specialized experts. This assistance has been channelled mainly through the National Institute of Industrial Technology (INTI) to its 22 member centres. The amount programmed for assistance to INTI in the form of experts, fellows and equipment is estimated at \$200,000

in 1971 and \$250,000 in 1972. Some of the fields covered are construction, small- and medium-scale industry, textiles, foundries, mining, metrology, industrial dust pollution, cold-storage, industrial food processing, and application of X-ray, fluorescence and diffraction techniques. UNIDO has also assisted in the development of the industrial estate at San Francisco, Córdoba, and in the industrial development of the Tucumán Province and of the port of Puerto Madryn, Patagonia. Argentina has participated in a number of regional and interregional programs.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1973. Argentina has appointed a National Committee for UNIDO. An Industrial Development Field Adviser stationed in Santiago, Chile, also serves Argentina.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
ARG/70/10	TA	11 (12)	Industrial development of Tucumán - industrial commercialization and industrial development programming (2/18 m/m expert services)	-	6.0	37.5
ARG/09/2/3	RP	9	Training in industrial information (1/6 m/m fellowship)	-	-	3.4
ARG-46	IPF	12	Industrial development of northwest region - <u>Purpose:</u> to assist in development of northwest region by surveying resources, studying means of strengthening existing industries and carrying out project identification, pre-feasibility and feasibility studies. The Plan of Operation is being prepared.	-	-	(210.0) (299.0) (206.0)



Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
ARG-37	SF	17	<p><u>Industrial research</u></p> <p>National centre for non-destructive testing and quality control, Buenos Aires (executing agency: IAEA) -</p> <p>Purpose: to assist the Government in establishing permanent facilities for non-destructive testing and quality control as part of the technology branch of the National Atomic Energy Commission. The project was formulated with the assistance of UNIDO, which is associated with the industrial aspects of the centre. The Plan of Operation is being prepared.</p>	-	-	30.0	30.0
ARG/68/6	TA	1 (2,4; 8,9)	<p>UNDP: \$ 611,500 Gov't: \$1,270,000</p> <p>Industrial development - assistance to the National Institute of Industrial Technology (INVT) (22/96 m/m expert services; 25/148 m/m fellowships)</p>	75.4	40.0	94.5	-
70/1099 ARG-17	SIS	4	Integral industrial processing of bagasse (consulting firm)	-	41.0	50.0	-
ARG/71/13	TA	6	<u>Food and light industries</u>	-	-	-	-
ARG/06/1/1	RP	6	Food technology (6/24 m/m expert services; 3/18 m/m fellowships)	-	-	-	-
ARG/06/1/2	RP	6	Food technology - meat science (1/6 m/m fellowship)	-	3.4	-	-
ARG/06/2/2	RP	6	Food and light industries - leather production (2/8 m/m fellowships)	-	5.3	-	-
69/474 ARG-8	SIS	6	Food industries (1/6 m/m fellowship)	-	-	-	-
			Assistance to the footwear industry - production and management (1/5 m/m expert services)	-	-	-	-

THE AMERICAS (cont'd)

A r g e n t i n a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
							<u>beyond 1973</u>
<u>Promotion of export-oriented industries</u>							
ARG/68/4	TA	14 (1)	Export promotion (4/37 m/m expert services)	23.4	24.0	32.5	-
71/1215 ARG-19	SIS	17	Assistance in development of packaging industry - exploratory mission (2/1 m/m expert services)	-	0.0	-	-
ARG-42	IPF	14	Industrial export promotion - assistance in development of export possibilities in food industry, capital goods industry, engineering, electronic and electrical industries	-	-	(100.0)	(300.0) (400.0)
<u>Small-scale industry</u>							
ARG/70/23	TA	11	Industrial parks, San Francisco (5/48 m/m expert services; equipment)	-	32.4	100.0	-
<u>Metalworking and metallurgical industries</u>							
ARG/68/5	TA	2	Development of aluminium industry (1/6 m/m expert services)	6.5	4.0	-	-
ARG/71/16	TA	2	Metallurgy (3/9 m/m expert services; 2/12 m/m fellowships)	-	-	29.9	-
<u>Pulp and paper industry</u>							
ARG/04/1/4	BP	4	Pulp and paper industries (1/2 m/m expert services)	-	6.0	-	-

THE AMERICAS (cont'd)

A r g e n t i n a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
ARG/04/2/1	IP	4	<u>Chemical industry</u> Chemical products manufacturing (1/6 m/m fellowship)	-	-	3.4	-	-
70/1093 ARG-16	SIS	3	<u>Cement industry</u> Cement feasibility study (1/6 m/m expert services)	-	-	12.0	-	-

The Bahamas

Industry in the Bahamas is centred around the tourist trade. There is also some export-oriented industry, based on imported raw materials, and efforts are being made to expand this industry, using both imported and local resources.

UNIDO has provided assistance to the Bahamas in the formulation of an industrial development strategy and in the evaluation of industrial investment opportunities.

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. An Industrial Development Field Adviser stationed in Port of Spain, Trinidad and Tobago, also serves the Bahamas.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
71/1232 BAH-1	SIS	12	<u>Industrial development policy</u> Assistance in industrial development strategy and industrial promotion (2/15 m/m expert services)	-	-	-	-	-



B o l i v i a

The GDP of Bolivia grew by about 5.4 per cent in real terms during 1970. The value of manufacturing output rose 12 per cent in 1970 and mining, traditionally Bolivia's strongest sector, represented 9 per cent of the GDP and provided 75 per cent of the Government's foreign exchange.

UNIDO's technical assistance to Bolivia has been mainly in the fields of asbestos processing, ceramics, small-scale industries, textiles, basic chemicals and cement. Bolivian nationals have participated in a number of seminars, workshops and in-plant

training programmes organized by UNIDO. Bolivia is a member of the Andean Group (Acuerdo de Cartagena), and the Andean Development Corporation (CAF) is participating in UNIDO's regional project for this organization. Bolivia is also a member of the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Santiago, Chile, also serves Bolivia.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
BOL-20	SF	3	<p><u>Construction and building materials industries</u></p> <p><b>Experimental production plant for asbestos processing -</b>  <b>Purpose:</b> to assist in the establishment of a pilot plant; to develop economic processing and sizing techniques for crocidolite ore; to stimulate investment by developing the national and export markets for asbestos and asbestos by-products. An initial study has been completed under subcontract. UNIDO has subcontracted an international consultant firm, which has carried out an asbestos ore analysis, a feasibility study and a plant design. The final stage, which is the plant construction, delivery and installation of equipment, should be started in January 1972, after UNDP/UNIDO agreement. The start-up of the plant is expected to be in February 1973. An additional allocation of nearly \$450,000 is required for finalizing the project. Project activities began in May 1968 under a partial allocation from UNDP; the project manager began his assignment in July 1968. The Plan of Operation was signed in September 1969.</p>	82.1	218.7	183.0	-
						beyond 1973	
						1972	1973

Approved: January 1968 UNDP: \$527,500  
 Operational: February 1970 Gov't: \$237,000  
 Duration: 2 years

<u>THE AMERICAS (cont'd)</u>		<u>B o l i v i a (cont'd)</u>		<u>Planned expenditure</u>	
<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>(in '000 US\$)</u>
				<u>up to 1971</u>	<u>1972 1973 beyond 1973</u>
			<u>Construction and building materials industries (cont'd)</u>		
BOL/70/4	TA	3	Ceramic industry (1/24 m/m expert services)	8.4	15.0
BOL/03/2/2	EP	3	Cement production (1/12 m/m fellowship)	-	5.8
70/929 BOL-12	SIS	3	Assistance to the asbestos cement factory (1/12 m/m expert services)	-	6.0
71/1167 BOL-13	SIS	3	Geological survey of the asbestos area (consulting firm)	-	10.0
VC/4/20	GTF	3	Testing of raw materials (ceramic production; miscellaneous)	-	4.4
			<u>Iron and steel industries</u>		
BOL/02/2/1	EP	2	Iron and steel production (1/6 m/m fellowship)	-	3.4
			<u>Industrial planning and programming</u>		
BOL/12/1/2	EP	12	Industrial planning and programming (1/8 m/m fellowship)	-	3.5
BOL/12/1/3	EP	12	Industrial programming - techno-economic assistance for industry and industrial engineering (2/12 m/m expert services)	-	18.1
			<u>Small-scale industry</u>		
BOL/70/14	TA	11	Small-scale industries (1/8 m/m expert services)	-	16.0
BOL/10/1/1	EP	10	Industrial management and training (1/8 m/m fellowship)	-	3.0

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
71/1450 BOL-14	SIS	6	Evaluation of international bids for establishment of edible vegetable oil factory (1/1 m/m expert services)	-	-	2.5
						1972
						1973
						beyond 1973

Food and light industries

71/1450 BOL-14      SIS      6      Evaluation of international bids for establishment of edible vegetable oil factory (1/1 m/m expert services)

Brazil

The Brazilian economy continues to grow at an average of 9 per cent annually. In 1970, industrial production increased by 11 per cent, and in 1971 it was expected to do the same. During the first four months of 1971, production of petroleum increased by 4.4 per cent over the figures for the same period in 1970, production of cement increased by 13 per cent, steel ingots by 16.5 per cent and automobiles by 16 per cent. Two steps to benefit Brazilian-owned industries have recently been taken by the Government: the creation of an Industrial Modernization and Reorganization Fund through which credits are granted to locally-owned companies and a resolution allowing banks to cut their compulsory deposits by 0.5 per cent if the released funds are invested in shares of small- and medium-sized, nationally-owned firms.

UNIDO assistance to Brazil has been concentrated in two geographical areas: the relatively underdeveloped North-East

region (SUDENE area) and the industrialized São Paulo/Minas Gerais area. Assistance is also provided at the federal level. In 1971, 15 UNIDO experts served in Brazil, and two fellowships were granted to Brazilian nationals. The country has participated in a number of seminars, workshops and training programmes organized by UNIDO. In 1971, three Brazilian experts served in other developing countries. North American, European and Japanese bilateral assistance has been associated with the implementation of several technical assistance projects.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser is stationed in Rio de Janeiro.

THE AMERICAS (cont'd)

B r a z i l (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
BRA-44	SF	11	Industrial development centre, Feira de Santana - <u>Purpose:</u> to assist, in association with ILO, the Government to establish and operate an industrial development centre at Feira de Santana, with a view to promoting accelerated efficiency of industrial enterprises in the interior of the State of Bahia. The centre will provide economic information and guidance, technical advisory services, management consultancy services, financial assistance services, common facility services, subcontracting development services and management and technical training services for small- and medium-scale industries. Most of the expert posts have been subcontracted to a consulting firm. Operations are proceeding normally. The Plan of Operation was signed in March 1971 and the project manager began his assignment in April 1971. Field activities began in October 1970.	17.7	263.3	230.5	81.0
BRA/68/25	TA	4 (5)	Approved: January 1970 UNDP: \$663,900 Operational: March 1971 Gov't: \$898,000 Duration: 2½ years Technical assistance to the Superintendency for the Development of the North-East (SUDENE) in chemical industrial planning (1/36 m/m expert services)	64.7	24.0	-	-
BRA/69/8	TA	12	Industrial programming (1/3 m/m expert services)	0.7	4.0	-	-
BRA/70/1	TA	12	Industrial programming preparatory mission (SUDENE) (1/1 m/m expert services)	-	-	2.5	-
71/1218 BRA-40	SIS	12	Assistance to the Industrial Centre of Aratu (CIA), Salvador, Bahia (4/3.5 m/m expert services)	-	7.0	-	-
71/1234 BRA-41	SIS	8	Assistance to the Instituto de Pesquisas Tecnológicas (consulting firm)	-	10.0	14.0	-
71/1447 BRA-47	SIS	13	Exploratory mission to establish an investment promotion unit for the State of Bahia (1/1 m/m expert services)	-	-	2.5	-

Industrial programming and promotion



Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Food and light industries</u>							
BRA/06/1/2	BP	6	Food and light industries - footwear industry (1/6 m/m fellowship)	-	3.4	-	-
BRA/06/2/1	BP	6	Leather processing (5/15 m/m fellowships)	-	-	11.0	-
70/789 BRA-31	SIS	6 (14)	Assistance to the shoe industry (consulting firm)	22.3	28.5	-	-
70/900 BRA-35	SIS	6	Reorientation of textile industry (consulting firm)	-	140.8	-	-
70/1018 BRA-38	SIS	6	Reorientation of textile industry (1/12 m/m expert services)	-	8.0	17.0	-
71/1465 BRA-49	SIS	6	Protein enrichment of cassava (1/1 m/m expert services)	-	-	2.5	-
<u>Metallurgical and metallurgical industries</u>							
70/788 BRA-29	SIS	2	Study of the possibilities for development of metallurgical industries in the State of Bahia (consulting firm)	-	27.5	-	-
70/970 BRA-36	SIS	2	Technological innovation and its implications for long-range planning of the iron and steel industry (consulting firm)	-	122.5	20.0	-
71/1250 BRA-43	SIS	2	Electro-smelting of ilmenite concentrates (1/1 m/m expert services)	-	2.0	-	-
<u>Chemical and petrochemical industries</u>							
69/684 BRA-25	SIS	4	Evaluation of the expansion plan of Companhia Nacional de Alcalis in solar salt and soda ash production (1/4 m/m expert services; consulting firm)	12.6	11.0	-	-
71/1065 BRA-44	SIS	5	Assistance in agricultural pesticides (1/1 m/m expert services)	-	2.1	-	-

THE AMERICAS (cont'd)

Brazil (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
<u>Engineering industries</u>					
BRA/69/19	TA	1	Assistance to National Design Centre in research and design of machine tools (1/6 m/m expert services)	-	15.0 -
71/1348 BRA-42	SIS	10	Assistance to post-graduate programme for engineers (1/12 m/m expert services)	-	* 24.0 -
<u>Promotion of export-oriented industries</u>					
70/731 BRA-26	SIS	14	Export promotion of metalworking industries (5/32 m/m expert services)	9.5	52.0 -
71/1404 BRA-46	SIS	14	Product adaptation and development for export-oriented industries (1/1 m/m expert services)	-	1.4 -
<u>Industrial standardization</u>					
BRA/69/23	TA	8	Assistance in industrial standards: inspection of lifts, escalators and conveyors and inspection of boilers and confined pressure vessels (3/31 m/m expert services)	26.1	24.0 -
BRA-60	IPF	8	National institute of weights and measures - follow-up assistance to strengthen laboratory, testing and training facilities. The Plan of Operation is being prepared. (16 man/years expert services; \$234,000 equipment)	-	(200.0) (300.0) (296.7)
UNDP: \$ 796,700 Gov't: \$8,354,000					
<u>Small-scale industry</u>					
BRA/11/1/3	IPF	11	Small-scale industries and industrial estates - industrial estates (1/2 m/m fellowship)	-	2.5 -

British Honduras

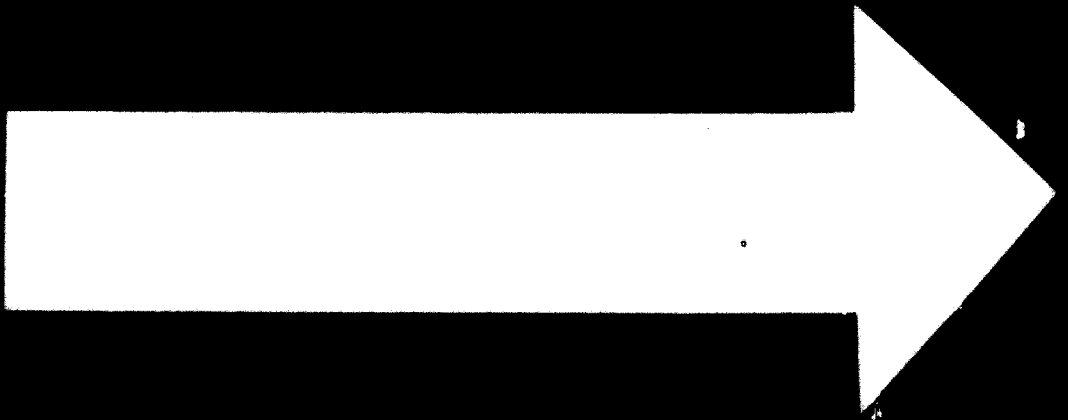
The industrial sector of British Honduras accounts for about 12 per cent of the GDP. The main industries are based on agriculture, the two most important products being sugar and citrus fruit, which together account for more than 60 per cent of the country's exports. Other export-oriented industries are clothing, boat building and furniture. Several light industries manufacture goods for domestic consumption.

UNIDO assistance to British Honduras has been rather limited. After having carried out an exploratory mission, UNIDO is prepar-

ing to make a free zone feasibility study. Assistance has been requested for the setting-up of an investment promotion unit.

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. An Industrial Development Field Adviser stationed in San Salvador, El Salvador, also covers British Honduras.

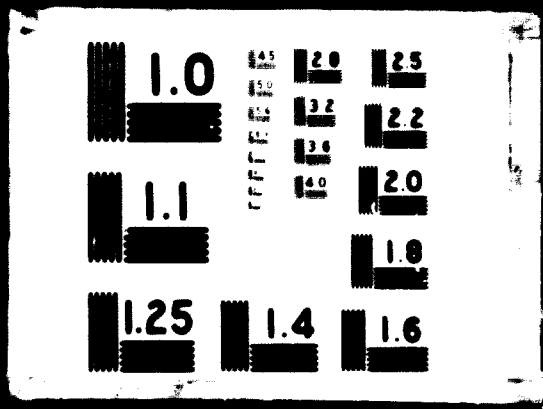
<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>
				<u>up to 1971</u>	<u>1971</u>	
BRH/09/2/1	RP	9	<u>Training in industrial programming</u> Industrial information - organization of industrial information centres (1/3 m/m fellowship)	-	-	2.2
BRH/12/2/2	RP	12	Industrial programming and project planning - project preparation and evaluation (1/3 m/m fellowship)	-	-	2.2
BRH/71/3	TA	14	<u>Promotion of export-oriented industries</u> Industrial free zone feasibility mission (2/5 m/m expert services)	-	-	12.5
						beyond 1973



**22.7.74**

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4284





Chile (cont'd)

Project number	Source of funds	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
			up to 1971	1971	1972	1973 beyond 1973

Metallurgical and metallurgical industries (cont'd)

CHI-42	SP	2		18.6	191.0	225.0	243.2
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Mineral and metallurgical research centre -

**Purpose:** to assist the Government in developing an applied research capability in the beneficiation, smelting and refining of copper and other metals through the establishment of a mineral and metallurgical research centre. The Plan of Operation was signed in October 1971. The project manager began his assignment in November 1970 under pre-project activities. The project is being implemented in co-operation with Belgian bilateral assistance.

Approved: June 1971      UNDP: \$ 759,600  
Duration: 2½ years      Gov't: \$1,305,000

CHI/68/5	TA	8	5.7	24.0	-	-	-
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Manufacturing of capital goods - quality control of rolled steel plate (2/34 m/m expert services; 2/9 m/m fellowships)

Light industries

68/337 CHI-3	SIS	6	-	-	11.0	-	-
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Assistance to the textile industry (consulting firm)

Chemical industry

CHI/70/23	TA	4	-	1.8	-	-	-
CHI/04/2/1	BP	4	-	-	10.2	-	-

Seminar in chemical industries (1/1 m/m fellowship)

Chemical products manufacturing (1/3 m/m expert services; 3/3 m/m fellowships)

THE AMERICAS (cont'd)

Chile (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Industrial research

71/1240 CHI-17 SJS 8 Adviser on technological research (1/3 m/m expert services) 6.0 - - -

Small-scale industry

CHI/70/14 TA 11 Industrial parks (1/12 m/m expert services) 24.0 - - -

Colombia

The economy of Colombia is based primarily on agriculture, with coffee as the main export. Industry, however, is expanding rapidly; in 1970, steel and cement production increased 15 per cent. Of the industrial sector, traditional industry accounts for 60.8 per cent, intermediate industry for 27.1 per cent and the metalworking industry for 12.1 per cent. In 1969 and 1970, the GDP grew by 7 per cent (in real terms).

The assistance rendered to Colombia by UNIDO has been concentrated on technological research, through the Institute for Technological Research (IIT), which has been functioning since 1963 with UNDP/SF financial assistance. In addition, assistance

has been provided in industrial policies and programming. In 1971, four Colombian nationals participated in selected seminars, workshops and training programmes organized by UNIDO. Colombia is a member of the Andean Group (Acuerdo de Cartagena), and the Andean Development Corporation (CAD) is participating in UNIDO's regional project for this organization. Colombia is also a member of the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser is stationed in Bogotá.



## C o l o m b i a (cont'd)

Project number	Source of funds	Source	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
COL-30 Phase II	SF	8	<p><u>Industrial technology</u></p> <p>Institute for Technological Research, Bogotá            Purpose: to complete and strengthen the laboratory facilities of the Institute in order to increase the effectiveness of its assistance to the industrial sector, particularly in fields of potentially rapid growth such as food industry, metallurgical and metalworking industry and chemical industries. The project is fully staffed, and operations are continuing as scheduled.</p> <p>Approved: January 1968 UNDP: \$ 760,700            Operational: February 1969 Gov't: \$1,003,000            Duration: 4 years</p>	405.6	169.5	137.3	-
COL/01/1/1 9037-71	RP FIT	1 8	<p>Industrial engineering (1/6 m/m fellowship)</p> <p>Government's cash counterpart contribution towards cost of equipment of SF project COL-30</p>	-	2.8 20.0	-	-
COL/71/5	TA IFF IFF	1 1 1	<p><u>Engineering and metallurgical industries</u></p> <p>Machine tools (2/6 m/m expert services)</p> <p>Assistance to automotive industry -            Purpose: to assist in preparation of long-term importation and assembly policies, studies of industrial locations and specialization within the Andean Group, and techno-economic feasibility studies</p> <p>Maintenance and repair of transport equipment -            Purpose: to assist in reorganization of the maintenance services of the Ministry of Public Works and to assist in maintenance and repair of highway maintenance equipment</p>	-	-	15.0 (30.0)	- (20.0)
				-	-	(30.0)	(77.0)

THE AMERICAS (cont'd)

Colombia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
<u>Engineering and metallurgical industries (cont'd)</u>					
IPF		2 (1)	Establishment of a development centre for the metallurgical and engineering sector - <u>Purpose:</u> to assist the Colombia Federation of Metallurgical Industries (FENAMETAL) in establishing a development centre. Planned project duration 3 years; 144 m/m experts and consultants in industrial organization, maintenance, machine tools, foundry, forging, engineering design, industrial economics and other fields.	-	(30.0) (455.0)
IPF		2	Study on the development of the iron and steel industry - <u>Purpose:</u> to project domestic and foreign demand, to review plans for the expansion of existing plants and to recommend programmes for development (7 to 8 short-term experts)	-	(250.0) -
IPF		2	Study of joint venture in nickel processing	-	(11.0) -
<u>Industrial planning and programming</u>					
COL/68/18	TA	12	Industrial programming (2/51 m/m expert services)	77.2	24.0 -
COL/71/1	TA	12	Industrial development (1/12 m/m expert services; 1/12 m/m fellowship)	-	16.4 -
<u>Promotion of export-oriented industries</u>					
COL/14/2/2	BP	14	Promotion of export-oriented industries - packaging techniques (1/6 m/m fellowship)	-	3.4 -
	IPF	14	Export promotion - assessment of industries for export adaptation (subcontracted study)	-	(30.0) (965.0)
	IPF	14	Establishment of industrial free zones (1/12 m/m expert services)	-	(30.0) -

Colombia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Petrochemical industry

COL/05/2/1 NP 5 Petrochemical industries (1/6 m/m fellowship) 3.4 - -

Industrial services

COL/07/1/2 NP 7 Industrial legislation, patents and licensing - industrial licensing (1/6 m/m fellowship) 3.6 - -  
 IFF 8 Assistance in quality control -  
Purpose: to co-ordinate and expand quality control services. Planned project duration 5 years; 72 m/m expert services; fellowships; \$300,000 equipment. (86.0) (236.0) (236.0)

Small-scale industry

IFF 6 Assistance to wood processing industry -  
Purpose: to establish a pilot plant for development of the furniture and low-cost wooden housing industries. Planned project duration 3 years. Expert services in production, design and marketing of furniture; quality control; industrial engineering and design of low-cost wooden houses. (30.0) (410.0)

IFF 13 Assistance to Corporación Financiera Popular (CFP) -  
Purpose: to assist in promotion, technical organization of production, administration, accounting and marketing within small-scale industries. Planned project duration 3 years; 18 m/m expert services. (15.0) (15.0) (15.0)

THE AMERICAS (cont'd)

C o s t a R i c a

In Costa Rica, the contribution of the manufacturing sector to the GDP is substantial. Traditional industries account for 72.5 per cent of the total production, while the intermediate industries generate 12.9 per cent and the metalworking industries 7.6 per cent. The country's principal industries are food processing, chemicals, beverages, non-metallic minerals, clothing and footwear. An important factor in Costa Rica's industrial development has been the Central American Common Market (CACM).

UNIDO has provided assistance to Costa Rica in the promotion of export-oriented industries, in the upgrading of management

capacity, and to the shoe and leather, wood and automotive industries. Fields identified for future assistance include textiles and small-scale industries. Five UNIDO experts were assigned to Costa Rica in 1971, and one Costa Rican national was granted a fellowship. In 1971, Costa Rica participated in an interregional symposium and in a seminar organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1972. An Industrial Development Field Adviser posted in San Salvador, El Salvador, also covers Costa Rica.

Project number	Source of funds	Grants	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Promotion of export-oriented industries</u>							
COS/68/6	TA	14	Assistance to export promotion (1/25 m/m expert services)	25.9	24.0	-	-
COS/14/2/1	EP	14	Industrial export promotion (2/8 m/m fellowships)	-	-	5.2	-
71/1306 COS-6	SIS	1	Assistance to the automotive industry (1/6 m/m expert services)	-	-	12.0	-
<u>Food and light industries</u>							
COS/06/1/2	EP	6	Food technology (1/2 m/m fellowship)	-	2.2	-	-
70/886 COS-2	SIS	6	Assistance to the footwear industry (1/6 m/m expert services)	-	8.0	5.5	-
70/1087 COS-1	SIS	10	Industrial management and problem solving mission in textile and leather industries (5/7.5 m/m expert services)	-	14.0	-	-
71/1188 COS-4	SIS	1	Exploratory mission on industrial maintenance and repair problems (consulting firm)	-	4.0	-	-
71/1313 COS-7	SIS	10	Productivity and enterprise management (1/12 m/m expert services)	-	-	24.0	-

THE AMERICAS (cont'd)

Costa Rica (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
				up to 1971	beyond 1971
				1971	1972
				1971	1973

Industrial policies

71/1257 COS-5	SIS	12	Advice on industrial policy (1/1 m/m expert services)	-	2.0	-
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Cuba

Sugar and its by-products account for the greatest part of the Cuban industrial sector. Developments are taking place in other industrial fields, however, especially in those concerned with import substitution, and special emphasis is being placed on consumer durables. A fertilizer plant has been established and increased production of electricity has generated new industrial capacity. Development of the nickel industry is also foreseen.

In 1971, requests for UNIDO assistance were received for the development and organizational establishment of the sugar derivatives industry, maintenance and repair, fertilizer production and ferrous metallurgy. Assistance is also envisaged in

the establishment of a pilot plant for the production of newsprint and for dissolving pulp from bagasse. In 1971, 13 experts recruited by UNIDO served in the country for a total of 30 man/months, and twelve Cuban nationals participated in selected seminars, training programmes and a workshop organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. A National Committee for UNIDO has been established. The Industrial Development Field Adviser stationed in Port of Spain, Trinidad and Tobago, also covers Cuba.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
				up to 1971	beyond 1971
				1971	1972
				1971	1973

Agro-industrial and light industries development

CUE/69/3	TA	4	Industrialization of sugar cane derivatives (1/3 m/m expert services)	-	6.0	-
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THE AMERICAS (cont'd)

C u b a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				up to 1971	1971	1972	1973 beyond 1973
<u>Agro-industrial and light industries development (cont'd)</u>							
CUB/70/16	TA	4	Catalysis and kinetics of chemical reactions (1/12 m/m expert services; 2/12 m/m fellowships; miscel'aneous)	-	5.0	33.4	-
CUB/70/17	TA	5	Liquid fertilizers (1/6 m/m expert services; 2/12 m/m fellowships; equipment; miscellaneous)	-	5.4	39.0	-
CUB/71/3	TA	4	Production of cellulose from sugar cane bagasse (1/12 m/m expert services)	-	12.0	15.0	-
CUB/04/1/5	RP	4	Chemical industries - industrial fermentation (2/6 m/m expert services)	-	8.8	-	-
69/479 CUB-1	SIS	4	Assistance to pulp and paper industry (1/15 m/m expert services)	22.6	12.0	-	-
71/1336 CUB-3	SIS	6	Exploratory mission on sugar industry development (3/3.5 m/m expert services)	-	7.5	-	-
CUB-9	IPP	5	Assistance in establishment of centre for industrialization of sugar cane bagasse	-	-	(70.0)	(500.0) (800.0)
CUB-10	IPP	6	Assistance in establishment of centre for industrial fermentation	-	-	(150.0)	(850.0) (2,300.0)
<u>Metalworking and metallurgical industries</u>							
CUB/71/11	TA	2	Short course for engineers on ferrous metallurgy (6/6 m/m expert services; miscellaneous)	-	17.1	-	-
CUB/02/1/2	RP	2	Iron and steel industries (1/4 m/m fellowship)	-	3.1	-	-
CUB/02/2/2	RP	2	Ore dressing and beneficiation (1/3 m/m fellowship)	-	-	2.2	-
<u>Industrial maintenance and repair</u>							
CUB/70/13	TA	4	Corrosion of industrial installations (1/12 m/m expert services; 1/3 m/m fellowship)	-	2.0	31.2	-

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
CUB/10/1/4	EP	10	Integrated system of management in building materials industry (1/6 m/m fellowship)	-	3.4	-	-
CUB/10/2/5	EP	10	Industrial management techniques (1/2 m/m fellowship)	-	-	1.8	-
<u>Specialized training</u>							
CUB/01/2/1	EP	1	Engineering industries - mechanical industries (1/2 m/m fellowship)	-	-	1.8	-
CUB/06/2/3	EP	6	Light industries - essential oils manufacturing (1/3 m/m fellowship)	-	-	2.2	-
CUB/08/2/4	EP	8	Industrial institutions - assistance in industrial research facilities and in quality control and metrology (2/5 m/m fellowships)	-	-	4.0	-

The Dominican Republic

In 1969, industrial production in the Dominican Republic increased 10 per cent, with cement, bauxite and sugar as the main products. Although the economy remains basically oriented towards agriculture, the role of the manufacturing industry is increasing. Mining and petrochemical industries are seen as promising sectors for future development.

UNIDO has provided assistance to the Dominican Republic by advising on policies and management to the Dominican Corporation of Public Enterprises (CORDE). Other fields of assistance have

included industrial parks, small- and medium-scale industries development, maintenance and repair of machinery and equipment and food processing technology. Four UNIDO experts and a consulting firm, contracted by UNIDO, worked in the country in 1971.

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. A National Committee for UNIDO has been established. An Industrial Development Field Adviser stationed in Mexico also covers the Dominican Republic.

THE AMERICAS (cont'd)

The Dominican Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
			<u>Food and light industries</u>				<u>beyond 1973</u>
DOM/06/1/1	RP	6	Food and light industries - flax board industry (1/6 m/m fellowship)	-	1.0	-	-
69/496 DOM-7	SIS	6	Assistance to the integrated cotton mill "Sacos y Tejidos Dominicanos" (2/24 m/m expert services)	-	-	48.0	-
69/620 DOM-8	SIS	6	Assistance in the field of food technology (1/3 m/m expert services)	-	6.0	-	-
			<u>Repair and maintenance</u>				
DOM/01/2/1	RP	1	Maintenance and repair - engineering industries (1/6 m/m fellowship)	-	-	3.4	-
69/632 DOM-10	SIS	1	Complex service team in maintenance and repair of industrial equipment (1/6 m/m expert services; consulting firm)	8.6	27.0	-	-
			<u>Industrial development planning and programming</u>				
DOM/68/7	TA	10	Industrial development: assistance to the Dominican Corporation of Public Enterprises (CORDE) in budget programming (2/43 m/m expert services)	67.6	24.0	22.5	-
DOM/68/8	TA	11	Development of small- and medium-scale industries (1/48 m/m expert services)	44.0	24.0	30.0	-
DOM/71/8	TA	15	Industrial survey (4/13 m/m expert services)	-	4.0	27.5	-
			<u>Specialized training</u>				
DOM/04/2/2	RP	4	Chemical, pharmaceutical and pulp and paper industries - industrial waste treatment (1/6 m/m fellowship)	-	-	3.4	-
DOM/08/2/3	RP	8	Industrial institutions - quality control and metrology (1/6 m/m fellowship)	-	-	3.4	-



Ecuador

The GDP in Ecuador grew about 5 per cent in 1970, with agricultural and industrial production regaining momentum. Increased investments, especially in oil companies, have been a positive feature in the economy during the last two years. Heavy dependence of some industries on the import of their raw materials as well as limited market demand weaken the long-term industrial position. It is expected, however, that industrial expansion will continue.

An industrial survey was carried out in Ecuador by UNIDO in 1969, and assistance has been provided in industrial promotion, textiles, fruit processing and the salt industry. Projects related to foundries and the ceramics industry have also been undertaken. In January 1972, the project "Technical advisory services to industry" (ECU-33) is scheduled to become

operational; through this project, the needs for technical assistance to the industrial field are to be co-ordinated. The Inter-American Development Bank is giving financial support to this project.

Ecuador has participated in a number of seminars, workshops and training programmes organized by UNIDO. Ecuador is a member of the Andean Group (Acuerdo de Cartagena), the Andean Development Corporation (CAF) and the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in Bogotá, Colombia, also covers Ecuador.

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
ECU/69/12	TA	11	<u>Small-scale industry</u> Industrial estates and civil engineering (1/11 m/m expert services; 1/6 m/m fellowship)	-	-	31.2	-
67/101 ECU-2	SIS	11	Advisory mission on industrial estates (1/6 m/m expert services)	7.0	-	7.0	-
ECU/10/1/1	RP	10	<u>Industrial training and management</u> Industrial management and training (1/6 m/m fellowship)	-	1.0	-	-
68/276 ECU-7	SIS	10	Assistance to the Centre de Desarrollo (CENDES) in industrial management (2/12 m/m expert services)	12.2	12.0	-	-

THE AMERICAS (cont'd)

Ecuador (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Light industries</u>								
68/302 ECU-5	SIS	6	Assistance in the reorganization of the textile industry sector (consulting firm)	41.7	7.2	-	-	-
70/820 ECU-11	SIS	4	Industrialization of selected derivatives from botanicals (1/12 m/m expert services)	-	-	24.0	-	-
70/927 ECU-13	SIS	3	Assistance to the ceramic industry (1/6 m/m expert services)	-	6.0	6.0	-	-
9030-71	FIT	3	Interpreter for ceramics expert (SIS project ECU-13: 1/6 m/m expert services)	-	6.0	6.0	-	-
<u>Chemical and petrochemical industries</u>								
ECU/04/2/2	NP	4	Manufacture of chemical products and production of pulp and paper (2/6 m/m fellowships)	-	-	4.4	-	-
70/838 ECU-10	SIS	4	Improvement of salt operations of Co-operativa de Refinadores de Sal (COOMSA) (1/6 m/m expert services)	-	12.0	-	-	-
70/1050 ECU-18	SIS	5	Assistance in petrochemical industries planning (1/6 m/m expert services)	-	-	12.0	-	-
<u>Foundry industry</u>								
70/913 ECU-12	SIS	2	Foundry industry (1/6 m/m expert services)	-	12.0	-	-	-
<u>Industrial standardisation</u>								
70/1066 ECU-14	SIS	8	Industrial standards (1/12 m/m expert services)	-	-	24.0	-	-

Project number	Source of funds	Years	Project title and service description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
ECU/07/2/3	MF	7	Industrial legislation, patents and licences - licences for the application of technological knowledge (1/2 m/m fellowship)	-	-	1.8	-
ECU/69/9	TA	12	Industrial promotion (1/8 m/m expert services)	-	-	20.0	-
9032-71	FIT	12	Industrial development and productivity (Belgium associate expert, 1/36 m/m expert services)	27.3	3.0	-	-
ECU-33	IFF	10	Technical advisory services to industry - Purpose: to create a co-ordinated system to reinforce and expand the technical assistance provided by these services in new fields to existing and planned industries. The project will include formulation and policy programming of industrial development; centralization of industrial information services; establishment of industrial engineering and production services dealing with procedures and modern techniques; establishment of a national system of quality control and quality certification; and reinforcement of technical assistance programmes in industrial management. The Inter-American Development Bank (IDB) is participating in financing this project.	-	-	(473.8)	(388.6)

Industrial licensingIndustrial promotion and extension services

Duration: 3 years

UNDP: \$1,229,500

Gov't: \$1,391,000

THE AMERICAS (cont'd)

El Salvador

In 1970, industrial production in El Salvador lost momentum, achieving a growth rate of only 2.1 per cent. This setback was due partly to the loss of a neighbouring market. Efforts are being made to regain momentum, and prospects appear good for the following years. The industrial sector accounts for about 20 per cent of the GDP.

El Salvador has received UNIDO assistance in the fields of small-scale industries development, textiles, industrial consultancy services and industrial institutions. Other areas in which the assistance of UNIDO is required are the glass, food,

mechanical and chemical industries, as well as in the establishment and implementation of industrial standards and quality control. Eight experts recruited by UNIDO assisted El Salvador in various fields during 1971, and Salvadorean institutions participated in a seminar and a workshop organized by UNIDO. The country is a member of the Central American Common Market (CACM).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser is stationed in San Salvador.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)			Planned expenditure (in '000 US\$)	beyond 1973
				1971	1971	1972		
ELS/09/1/1	HP	9	Industrial information (1/6 m/m fellowship)	-	1.0	-	-	-
ELS/13/2/1	NP	13	Industrial policies and financing (1/12 m/m fellowship)	-	-	5.8	-	-
69/628 ELS-5	SIS	8	Assistance in industrial consultancy (1/6 m/m expert services)	-	8.0	4.0	-	-
70/752 ELS-7	SIS	12	Industrial planning and promotion (1/12 m/m expert services)	-	2.0	22.0	-	-
70/768 ELS-8	SIS	8	Assistance in industrial co-operatives (consulting firm)	-	10.0	14.0	-	-
70/861 ELS-9	SIS	8	Assistance in the reorganization of the Salvadorean Institute of Industrial Development (INSAFI) (3/36 m/m expert services)	6.5	62.0	9.0	-	-
71/1254 ELS-11	SIS	8	Industrial standardization and quality control (1/1 m/m expert services)	-	2.0	-	-	-

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
ELS/71/2	TA	3	Glass manufacturing (1/12 m/m expert services) (OPAS)	-	6.0	13.7	-
ELS/01/1/2	RP	1	Engineering industries - assembly plants (tuition fee for fellowship)	-	2.0	-	-
71/1189 EIS-10	SIS	1	Exploratory mission on industrial maintenance and repair (consulting firm)	-	4.0	-	-

Light industriesRepair and maintenanceGuatemala

Industrial production in Guatemala increased by 3 per cent in 1970 and is expected to show a similar increase in 1971. The loss of preferential access to a neighbouring market has had a negative effect upon the country's industrial operations.

Assistance by UNIDO to Guatemala has been rendered mostly through Central American Common Market organizations. Assistance has been provided to the Central American Research Institute for Industry (ICAIRI) and to the Permanent Secretariat of the General Treaty on Central American Economic Integration (SIECA). In particular, UNIDO had two experts in Guatemala working joint-

ly with ECLA and SIECA on the Central American Integration Programme project. Future UNIDO assistance is foreseen in the development of new industrial zones, the utilization of excess capacity for export, the promotion of investment and the upgrading of managerial and entrepreneurial capacity. Guatemala has participated in a seminar and a workshop organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser stationed in San Salvador, El Salvador, also covers Guatemala.

THE AMERICAS (cont'd)

Guatemala (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Years</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
			<u>Repair and maintenance</u>					
GUA/01/1/1	BP	1	Engineering industries - repair and maintenance (1/3 m/m fellowship)	-	1.0	-	-	-
71/1190 GUA-4	SIS	1	Exploratory mission on industrial maintenance and repair (consulting firm)	-	4.0	-	-	-
			<u>Training in industrial development surveys</u>					
GUA/15/2/1	BP	15	Industrial development surveys (1/6 m/m fellowship)	-	-	3.4	-	-

GUYANA

In Guyana, the industrial sector is based on the country's main mineral resource, bauxite, for Guyana is the largest producer of bauxite in the world, providing one seventh of the total world output. Another major export commodity is sugar. Manufacturing accounts for 12 per cent of the GDP.

UNIDO's assistance to Guyana has been centred in the fields of industrial management, construction materials and food pro-

cessing. Four experts recruited by UNIDO served in the country in 1971. Guyana is a member of the Caribbean Free Trade Association (CARIFTA).

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. An Industrial Development Field Adviser stationed in Port of Spain, Trinidad and Tobago, also covers Guyana.

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971-1973	
			<u>Training of branch industry specialists</u>			
GUY/05/2/1	EP	5	Fertilizer, pesticide and petrochemical industries - fertilizers manufacturing (1/6 m/m fellowship)	-	-	3.4
GUY/06/2/2	EP	6	Light industries - food (1/6 m/m fellowship)	-	-	3.4
68/355 GUY-3	SIS	6	Assistance to Guyana Marketing Corporation (2/7.5 m/m expert services)	4.2	-	12.0

Light industriesHaiti

The economy of Haiti is based on agriculture. The main industries are food (including sugar, wheat flour, vegetable oils and fruit and vegetable processing), textiles, shoes and other consumer goods and assembly (subcontracting) industries.

During 1971, three experts recruited by UNIDO assisted Haitian industry in various fields. A study was undertaken to determine the prospects for further development in the vegetable and essential oils processing industries. Assistance has also

been given in establishing industrial estates and in maintenance and repair of machinery and equipment. Haiti has participated in a number of seminars and training programmes organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Advisor stationed in Mexico also covers Haiti.

THE AMERICAS (cont'd)

H a i t i (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
			<u>Food and light industries</u>		
71/1185 HAI-4	SIS	6	Assistance in the development of the tropical fruit and vegetable processing industry - food technology (1/6 m/m expert services)	- - 6.0	6.0 - -
			<u>Small-scale industry</u>		
70/974 HAI-3	SIS	11	Organization and management of industrial estates (1/12 m/m expert services)	- - 12.0	- - 12.0 - -
			<u>Metalworking industry</u>		
71/1383 HAI-5	SIS	2	Aluminium foundry expert (1/6 m/m expert services)	- - -	14.5 - -
			<u>Training in industrial information services</u>		
HAI/09/2/3	BP	9	Industrial information - administrative of industrial information services (1/6 m/m fellowship)	- - -	3.4 - -
			<u>Training in plastics production</u>		
HAI/05/2/2	BP	5	Fertilizer, pesticide and petrochemical industries - manufacture of plastic products (1/6 m/m fellowship)	- - -	3.4 - -



H O N D U R A S

The industrial sector in Honduras grew at an average annual rate of 8 per cent between 1962 and 1970, and manufacturing increased at an annual rate of 10.5 per cent. Production has been concentrated mostly in traditional products such as food, textiles, shoes and beverages. Recently, efforts have been made to reintegrate Honduras in the Central American Common Market (CACM).

UNIDO has provided assistance to Honduras in the areas of policy planning, chemicals (sodium chloride and pesticides), in-

dustrial estates and food processing. Four experts recruited by UNIDO served in the country in 1971, and Honduran nationals participated in seminars organized by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1972. An Industrial Development Field Adviser posted in San Salvador, El Salvador, also serves Honduras.

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure beyond 1973
				up to 1971	1972	
<u>Industrial planning</u>						
HON/68/3	TA	12	Industrial development and productivity - project evaluation (1/38 m/a expert services)	44.2	14.0	17.5
<u>Repair and maintenance</u>						
HON/01/2/1	BP	1	Engineering industries - maintenance and repair (1/6 m/a fellowship)	-	-	3.4
<u>Small-scale industry</u>						
70/767 HON-4	SIS	11	Assistance to industrial estates (1/6 m/a expert services)	7.4	2.0	4.0

THE AMERICAS (cont'd)

J a m a i c a

Industry in Jamaica accounts for about 15 per cent of the GDP. The industrial sector is based primarily on the production of bauxite, and it is expected that the expansion of the bauxite and alumina industry will continue. Reserves of minerals such as gypsum and marble have been discovered that could be industrially exploited. Industries based on agriculture also play an important role.

UNIDO, in association with ILO, is providing assistance to Jamaica in the establishment of a centre for maintenance and repair of machinery and equipment (JAM-14). UNIDO has also pro-

vided assistance in the form of expert services to the furniture, toolmaking, footwear, handicraft, ceramics, leather and tanning and sugar industries. Jamaican nationals have attended a number of training programmes organized by UNIDO. The country is a member of the Caribbean Free Trade Association (CARIFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1972. An Industrial Development Field Adviser stationed in Port of Spain, Trinidad and Tobago, also covers Jamaica.

Project number	Source of funds	Status	Project title and service description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
JAM/69/1	TA	10	Industrial management of "Things Jamaican" (1/24 m/m expert services) (OPAS)	32.5	7.8	-	-
JAM/10/2/2	MF	10	Industrial management and consulting services - organization and management of enterprises (1/6 m/m fellowship)	-	-	3.4	-
<u>Industrial management:</u>							
JAM/71/2	TA	4 (1)	Industrial promotion - chemical industries (2/8 m/m expert services)	-	16.0	-	-
69/562 JAM-6	SIS	1 (4)	Industrial promotion of the chemical, electrical and metal industries (3/44 m/m expert services)	65.0	32.0	-	-
<u>Industrial promotion</u>							

beyond 1973

Project number	Source of funds	Source	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
JAN-14	SP	1	<p><u>Repair and maintenance</u></p> <p>Repair and maintenance training and demonstration unit - Purpose: to assist the Government in maximizing the country's industrial resources by developing a training and demonstration programme in repair and maintenance. ILO is associated with the project in the training field. The project manager began his assignment in September 1971, and the Plan of Operation has been prepared.</p> <p>Approved: June 1971 UNDP: \$468,900 Duration: 3 years Gov't: \$353,000</p>	8.0	24.0	109.8	178.9 126.0
JAN/69/2	TA	1	<p><u>Food and light industries</u></p> <p>Industrial management and maintenance systems (1/46 m/m expert services)</p>	24.8	24.0	30.0	20.0 -
JAN/06/1/3	IP	6	<p><u>Food and light industries</u></p> <p>Development of sugar industry (2/2 m/m expert services)</p>	-	7.4	-	-
71/1449 JAN-10	SIS	6	<p>Assistance to the knitting industry (3/18 m/m expert services)</p>	-	-	36.0	-
9016-70	FIT	6	<p>Footwear production (1/96 m/m expert services)</p>	109.6	22.0	-	-
JAN/04/2/1	IP	4	<p><u>Specialized training</u></p> <p>Chemical, pharmaceutical and pulp and paper industries - industrial waste treatment (1/6 m/m fellowship)</p>	-	-	3.4	-

THE AMERICAS (cont'd)

M e x i c o

From 1959 to 1967, the GDP of Mexico increased at an average annual rate of 10.4 per cent; the industrial sector grew to account for 32 per cent of the GDP. In 1971, however, a general economic slowdown affected industrial production; in the first half of the year, steel ingot production showed only a 2.7 per cent increase compared to the 6.8 per cent increase for the same period of 1970. Among the major industries in the country are petroleum, steel, mining and automobiles.

UNIDO has provided assistance to Mexico in the pharmaceutical industry, in industrial parks and estates, in programming

the capital goods industry and in drawing economic policy guidelines for the manufacturing sector. It is expected that technical assistance will be substantially increased in the next years. In 1971, several Mexican nationals participated in two seminars and a training programme organized by UNIDO. Mexico is a member of the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. An Industrial Development Field Adviser was posted in Mexico late in 1971.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	beyond 1973
				up to 1971	1971		
MEX/71/10	TA	11	Industrial complexes and industrial development (1/6 m/m expert services)	-	8.0	5.0	-
MEX/06/1/1	RP	6	Food and light industries - agro-industrial development (1/6 m/m fellowship)	-	3.4	-	-
MEX/12/2/2	RP	12	Industrial programming and project planning - industrial studies promotion (1/6 m/m fellowship)	-	-	3.4	-
MEX/14/2/3	RP	14	Promotion of export-oriented industries (1/6 m/m fellowship)	-	-	3.4	-
70/1100 MEX-4	SIS (12)	14	Assistance to the Nacional Financiera S.A. in programming of capital goods industry (5/45 m/m expert services)	-	10.0	80.0	-
<u>Small-scale industry</u>							
MEX/11/2/1	RP	11	Small-scale industry and related activities - pilot enterprises development (1/6 m/m fellowship)	-	-	3.4	-
69/598 MEX-2	SIS	11	Industrial development areas and industrial estates at Guadalajara, Jalisco (1/12 m/m expert services)	18.4	12.0	-	-

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Specialized training

MEX/71/12	TA	2	Metallurgy study tour (1/1 m/m fellowship)	-	1.5	-	-	-
MEX/02/1/3	RP	2	Refractory production and utilization (1/0.25 m/m expert services)	-	1.5	-	-	-

N i c a r a g u a

According to preliminary estimates, real growth in Nicaragua in 1971 continued at only half the 8 per cent rate of the early 1960s, reaching just over 5 per cent. Industrial production, which accounts for over 15 per cent of Nicaragua's gross product and for about 35 per cent of its total exports, increased by 10 per cent in 1970. According to preliminary estimates of the Permanent Secretariat of the General Treaty on Central American Economic Integration (SIECA), exports from Nicaragua increased by 12.5 per cent in 1970, after a decrease of 1.7 per cent in 1969, while imports increased by 12.3 per cent.

UNIDO has provided assistance to Nicaragua in the fields of plastics, glass, fertilizers and textiles. Ten experts recruited by UNIDO served in the country in 1971, and Nicaraguan nationals attended a plastics training programme organized by UNIDO. The country is a member of the Central American Common Market (CACM).

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. An Industrial Development Field Adviser posted in San Salvador, El Salvador, also covers Nicaragua.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Light industries

104 NIC-4	SIS	3	Assistance in the development of the glass industry (consulting firm)	-	15.0	13.0	-	-
104 NIC-8	SIS	5	Assistance to the Plastics Technology Centre (4/12 m/m expert services)	-	-	24.0	-	-

THE AMERICAS (cont'd)

N I C A R A G U A (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Sexes</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
<u>Industrial administration</u>							
NIC/07/2/1	NP	7	Industrial administration - licensing of technological know-how (1/6 m/m fellowship)	-	-	3.4	-
71/1170 NIC-6	SIS	7	Assistance in the analysis and evaluation of contracts (1/3 m/m expert services)	-	-	6.0	-
<u>Fertilizer industry</u>							
69/624 NIC-3	SIS	5	Fertilizer project - ammonia, urea, complex fertilizers (1/6 m/m expert services)	2.3	10.0	-	-

P A N A M A

The industrial sector in Panama is oriented towards transformation industries and the finishing of semi-manufactured goods from abroad. Some 12 per cent of the employed population is engaged in the industrial sector. Panama's nickel reserves promise to contribute greatly to the industrial future of the country.

The activities of UNIDO in Panama have been mainly in the export-oriented, shoe and leather and salt industries; in industrial standardisation; and in fertilizers. Two UNIDO ex-

ports and a consulting engineering firm team contracted by UNIDO served in Panama in 1971, and Panamanian nationals have participated in several seminars and workshops organised by UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser posted in San Salvador, El Salvador, also serves Panama.

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971-1973	
71/1191 PAN-5	SIS	1	Exploratory mission on maintenance and repair problems (consulting firm)	-	1.0	3.0
<u>Light industries</u>						
<u>Promotion of export-oriented industries</u>						
PAN/14/2/3	EP	14	Promotion of export-oriented industries (2/10 m/m fellowships)	-	-	6.0
71/1161 PAN-6	SIS	14	Assistance in the establishment of an industrial free zone (1/6 m/m expert services)	-	-	12.0
71/1391 PAN-7	SIS	17	Feasibility study on packaging production (1/1.5 m/m expert services)	-	-	3.0
<u>Chemical and fertilizer industries</u>						
69/651 PAN-2	SIS	4	Assistance to solar salt industry (1/6 m/m expert services)	4.6	8.0	-
69/698 PAN-3	SIS	5	Assistance to fertilizer industry in marketing (1/4 m/m expert services)	8.6	2.0	-

THE AMERICAS (cont'd)

PARAGUAY

The manufacturing sector in Paraguay is expanding, primarily through the processing of agricultural products. In 1971, industry increased by about 6 per cent. The manufacture of capital goods and consumer durables (metal products, electrical machinery, equipment and accessories and transport equipment) is expected to increase.

UNIDO assistance has been channelled through the National Institute of Technology and Standards, a project that started in 1965. The primary areas of activity have been in construction materials, food processing, timber and wood (in co-operation with FAO), leather and preparation of industrial standards.

Under consideration is a joint UNIDO/FAO plan (supported by technical and economic feasibility studies) for the development of the fruit and vegetable processing industry. Some six experts recruited by UNIDO served in Paraguay in 1971, and Paraguayan nationals participated in a seminar and a workshop organized by UNIDO. The country is a member of the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. The Industrial Development Field Adviser posted in Rio de Janeiro also serves Paraguay.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
PAR-22	SP	8	<u>Industrial standardization and quality control</u> National Institute of Technology and Standards (Phase II of PAR-8) - <u>Purpose:</u> to assist the Government in strengthening the National Institute of Technology and Standards in those fields which have shown promise of early industrial application as a result of activities undertaken in the first phase of the project. The project manager began his assignment in September 1970; the Plan of Operation was signed in April 1971. In this phase of the project, particular attention is being given to the wood industry. In addition, feasibility studies are being undertaken for the food industry and assistance, in the form of expert services or consultants, is being provided in the fields of textiles and construction equipment.	up to 1971 - 1971	1972 - 1973 - beyond
				28.9 110.6	329.0 176.5 110.8
				UNDP: \$776,200	Gov't: \$742,000
				Approved: June 1970	
				Operational: June 1971	
				Duration: 3½ years	



THE AMERICAS (cont'd)

PARAGUAY (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
PAR/03/1/1	NP	3	<u>Construction and building materials industries</u> Construction and building materials industries - ceramics (1/8 m/m fellowship)	-	1.8	-	-
PAR/06/1/2	NP	6	<u>Food and light industries</u> Food and light industries - tropical fruit processing (1/5 m/m fellowship)	-	3.4	-	-
PAR/06/2/1	NP	6	Wood processing industry (1/3 m/m fellowship)	-	-	2.2	-
69/494 PAR-4	SIS	6	Assistance to the wood processing industry, through the Technical Standards National Institute - tropical hardwoods (2/6 m/m expert services)	8.8	-	5.0	-
9019-70	FIT	6	National Institute of Technological Standards (German associate expert; 1/12 m/m expert services)	8.8	12.0	-	-
71/1271 PAR-8	SIS	11	<u>Small-scale industry</u> Exploratory mission on small-scale industries (1/0.75 m/m expert services)	-	1.5	-	-

THE AMERICAS (cont'd)

PERU

In mid-1970, the GDP of Peru had increased by 6.1 per cent over that of mid-1969, reversing the decline in per capita income in 1968 and 1969. Industrial production had also increased, primarily as a result of higher outputs of fish meal and sugar. The petroleum sector is being expanded and developed.

UNIDO is assisting Peru in the development of the petrochemical industry, leading to the creation of a petrochemical institute. A consulting firm has made a major study of the iron and steel industry, and assistance has also been given to

the shipbuilding and textile industries. Peruvian nationals have attended training programmes organized by UNIDO. Peru is a member of the Andean Group (Acuerdo de Cartagena), the Andean Development Corporation (CAF) and the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in June 1972. The Industrial Development Field Adviser stationed in Bogota, Colombia, also serves Peru.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
70/762 PER-9	SIS	5	Pre-investment survey for the petrochemical industry (consulting firm)	156.3	53.0	-	-
	IPF	5	Peruvian institute of petrochemical industries	-	-	(100.0)	(200.0) (100.0)
			<u>Petrochemical industry</u>				
			<u>Industrial planning, programming and promotion</u>				
PER/71/8	TA	12	Advice to the National Integration Office (ONIT) on industrial aspects of regional economic co-operation (1/6 m/m expert services)	-	-	15.0	-
PER/09/2/2	RP	9	Organization of industrial information centres (1/3 m/m fellowship)	-	-	2.2	-
PER/15/2/3	RP	15	Industrial development surveys (1/2 m/m fellowship)	-	-	1.8	-
70/1074 PER-18	SIS	13	Finance and investment for the textile industry (1/6 m/m expert services)	-	-	12.0	-
	IPF	8	Centre for research in industrial technology	-	-	(80.0)	(300.0) (800.0)

## PERU (cont'd)

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971-1973	
			<u>Mining and metalworking industries</u>			
70/763 PER-10	SIS	2	Pre-investment study for the development of the iron and steel industry (consulting firm)	50.7	79.3	-
70/766 PER-13	SIS	2	Flat product rolling mill expert (1/12 m/m expert services)	-	-	24.0
70/767 PER-14	SIS	2	Iron and steel industry - industrial cost accountant (consulting firm)	-	-	13.5
70/1051 PER-17	SIS	1	Mining machinery and equipment (1/3 m/m expert services)	-	6.0	-
71/1203 PER-20	SIS	2	Design and layout of electrolytic tinning line (1/1 m/m expert services)	-	2.0	-
			<u>Transportation equipment</u>			
PER/69/2	TA	1	Shipbuilding industry (2/42 m/m expert services)	43.6	40.0	-
			<u>Light industries</u>			
67/161 PER-2	SIS	4	Feasibility study for bagasse pulp and paper project for "Pucallpa" (consulting firm)	-	-	72.0
			<u>Small-scale industry</u>			
PER/71/16	TA	11	Small-scale industries (1/12 m/m expert services)	-	-	30.0
71/1186 PER-19	SIS	11	Exploratory mission in programming for small-scale industry development (2/1 m/m expert services)	-	3.0	-

THE AMERICAS (cont'd)

Peru (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to	<u>Planned expenditure (in '000 US\$)</u> beyond
				1971 1971	1972 1973 1973
PER/01/2/1	RP	1	Engineering industries - mechanical industries (1/2 m/m fellowship)	- -	1.8 - -

Mechanical industry

Suriname

Manufacturing accounts for 18 per cent of the GDP in Suriname. Bauxite, alumina and aluminium are the basis of the country's industrial development and accounted for 87 per cent of the total value of exports in 1969. Development and diversification of the country's industrial capacity is expected through the construction of a wood-pulp plant, through shrimp processing and through shrimp boat servicing and repair facilities. Expansion of light industry will depend on the availability of export markets.

UNIDO is undertaking an industrial survey of Suriname to determine areas of future assistance.

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. The Industrial Development Field Adviser stationed in Port of Spain, Trinidad and Tobago, also covers Suriname.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to	<u>Planned expenditure (in '000 US\$)</u> beyond
				1971 1971	1972 1973 1973
70/989 SUR-1	SIS	15	Industrial survey (5/8.5 m/m expert services; 1/1 m/m fellowship)	- -	2.0 - - 16.4 - -

Industrial development surveys

Trinidad and Tobago

Petroleum accounts for about 20 per cent of the GDP of Trinidad and Tobago, and the expanding economy is essentially based on oil, chemical and sugar exports. The primary objectives of the country's economic policy are diversification and self-sufficiency through import substitution.

The assistance of UNIDO has been linked primarily to the Industrial Development Corporation, mainly in petrochemical industries, bagasse (furfural), small-scale industries, an export-oriented free zone and assembly of durable consumer

goods. Through the Caribbean Industrial Research Institute (CARIRI), UNIDO is also assisting industry in materials testing and research. During 1971, five UNIDO experts served in the country for a total of 44 man/months. Trinidad and Tobago is a member of the Caribbean Free Trade Association (CARIFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. An Industrial Development Field Adviser is stationed in Port of Spain.

Project number	Source of funds	Grants	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
TRI/70/3	TA	11	<u>Small-scale industry</u> Small-scale industries (3/63 m/m expert services 6/27 m/m fellowships)	11.3	27.6	104.6	30.0
TRI/05/2/1	RP	5	<u>Petrochemical industry</u> Fertilizer manufacturing (1/6 m/m fellowship)	-	-	3.4	-
69/660 TRI-16 Phase II	SIS	5 (14)	Assistance to petrochemicals marketing (consulting firm)	26.2	14.1	-	-
68/415 TRI-0	SIS	4	<u>Agro-based industries</u> Furfural industry (2/13 m/m expert services)	11.3	18.0	-	-
69/584 TRI-13	SIS	6	Assistance to the Coconut Growers Association of Trinidad (1/4 m/m expert services)	-	4.0	4.0	-

THE AMERICAS (cont'd)

Trinidad and Tobacco (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
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Promotion of export-oriented industries

71/1244 TRI-17	SIS	14	Exploratory mission on export-oriented industrial free zones (1/1 m/m expert services)	-	2.0	-	-	-
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Industrial research

TRI-5	SP	8	Caribbean industrial research institute, Port-of-Spain - <u>Purpose:</u> to assist in the establishment of an institute to provide testing and technical advisory services to industry in the Eastern Caribbean region. The project manager began his assignment in October 1969. The Plan of Operation was signed in August 1970, and the project became fully operational in October 1969 under a preliminary allocation from UNDP.	54.1	94.0	217.7	171.5	46.0
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Approved: January 1969      U.A.P: \$640,900  
Duration: 5 years              Gov't: \$966,000

U R U G U A Y

Industry in Uruguay is based primarily on agriculture, but reliance on wool and meat exports is being lessened by industrialization. In spite of emphasis on an import substitution policy, however, the manufacturing industry is expanding at a relatively slow pace; in 1968, the GDP increased by about 5 per cent.

UNIDO co-operates closely with ILO in the implementation of the national productivity centre project. The assistance of UNIDO has been channelled through this centre, with emphasis on the manufacturing of footwear and the finishing of leather. In 1971, the Government requested that a feasibility study be under-

taken to advise on the establishment of a model agro-industrial combine. Uruguay has participated in a number of seminars, workshops and training programmes organized by UNIDO. The country is a member of the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for possible submission to the UNDP Governing Council for approval in June 1973. Uruguayan authorities have established a National Committee for UNIDO. An Industrial Development Field Adviser posted in Santiago, Chile, also serves Uruguay.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	beyond 1973
				up to 1971	1971		
URU-12	SF	6	Productivity centre - Purpose: to provide expert services for the textile and shoe industries. Executing agency: ILO, in association with UNIDO.  Approved: January 1969 UNDP: \$407,700 Operational: July 1970 Gov't: \$429,000 Duration: 2½ years	8.0	16.0	30.0	-
URU/06/C/1	RP	6	Food, textile and leather processing industries (3/9 m/m fellowships)	-	-	-	6.8
71/1176 URU-3	SIS	6	Assistance to the leather manufacturing industry through the Centro de Productividad del Uruguay (1/12 m/m expert services)	-	-	24.5	-
	IPF	6	Establishment of a quality control department for leather and leather products	-	-	13.5	145.0

THE AMERICAS (cont'd)

U R U G U A Y (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
URU/06/1/2	RP	6	<u>Agro-industrial development</u> Light industries - lecture in agriculture (1/0.25 m/m expert services)	-	0.3	-	-
70/882 URU-1	SIS	5	Feasibility study for the establishment of a model agro-industrial combine (consulting firm; 6/6 m/m fellowships)	-	11.4	32.6	-

Promotion of export-oriented industries and packaging

URU/14/1/1	RP	14	Export-oriented industries (3/19 m/m fellowships)	-	8.7	-	-
71/1214 URU-4	SIS	17	Assistance in the development of the packaging industry - exploratory mission (2/0.5 m/m expert services)	-	1.0	-	-

V e n e z u e l a

In Venezuela, the petroleum sector plays the dominant role in the economy, providing resources for the growth of other sectors, primarily agriculture and industry. The GDP of Venezuela increased by nearly 6.7 per cent in 1970.

UNIDO has assisted Venezuela in the promotion of export-oriented industries, with experts and a consulting firm working in sectoral studies. Some 12 experts recruited by UNIDO served in the country in 1971. Venezuelan nationals have participated

in a seminar, a workshop and training programmes organized by UNIDO. The country is a member of the Andean Development Corporation (CAF) and the Latin American Free Trade Association (LAFTA).

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser stationed in Bogotá, Colombia, also serves Venezuela.



## THE AMERICAS (cont'd)

## Venezuela (cont'd)

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Metalworking and metallurgical industries</u>							
VEN/02/2/3	BP	2	Metallurgical industries - preparation and beneficiation of minerals (1/4 m/m fellowship)	-	-	2.6	-
70/779 VEN-5	SIS	1	Assistance to the Venezuelan Development Corporation and the Ministry of Development - metalworking industry (1/12 m/m expert services)	-	-	24.0	-
70/1081 VEN-11	SIS	2	Planning and development of iron and steel industry (1/3 m/m expert services)	-	-	6.0	-
<u>Engineering and mechanical industries</u>							
VEN/68/6	TA	1	Development of mechanical industry (1/36 m/m expert services)	58.6	24.0	-	-
VEN/71/16	TA	1	Engineering industries (1/4 m/m expert services)	-	4.0	5.0	-
VEN/01/1/2	BP	1	Engineering industries - mechanical plant training (1/6 m/m fellowship)	-	3.1	-	-
VEN/01/2/2	BP	1	Engineering industries - mechanical industries (1/4 m/m fellowship)	-	-	2.6	-
70/780 VEN-6	SIS	1	Automotive standards (1/3 m/m expert services)	-	6.0	-	-
71/1347 VEN-13	SIS	1	Comparison of costs for automotive parts (1/1 m/m expert services)	-	-	3.0	-
<u>Petrochemical industry</u>							
VEN/05/2/4	BP	5	Fertilizer, pesticide and petrochemical industries - petrochemicals (1/4 m/m fellowship)	-	-	2.6	-

THE AMERICAS (cont'd)

V e n e z u e l a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
70/717 VEN-7	SIS	14	<u>Promotion of export-oriented industries</u> Evaluation of export position of the Venezuelan industry (1/9 m/m expert services; consulting firm)	7.0	8.0	55.0	-	-
9031-71	FIT	14	Evaluation of export position of industry (consulting firm)	-	8.7	20.0	-	-
VEN/70/14	TA	8	<u>Quality control</u> Industrial standardization and quality control (1/12 m/m expert services)	-	4.0	25.0	-	-
VEN/71/15	TA	8	Technological research (1/4 m/m expert services)	-	4.0	5.0	-	-
VEN/70/16	TA	12	<u>Industrial development policy</u> Industrial policy and programming (1/12 m/m expert services)	-	-	30.0	-	-
71/1369 VEN-14	SIS	12	Industrial development strategy (1/0.5 m/m expert services)	-	1.0	-	-	-

R.E.C.I.O.N.A.L

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$) up to 1971	Planned expenditure (in '000 US\$)		
					1972	1973 beyond 1973	
<u>Industrial planning and programming</u>							
LAT/70/47	TA	12	Central American integration programme (2/16 m/m expert services; miscellaneous)	37.3	-	-	
LAT/12/1/4	RP	12	Industrial programming (1/10 m/m expert services)	27.0	-	-	
LAT/12/1/5	RP	12	Long-range programming meeting (Andean Group) (2/0.5 m/m expert services)	3.4	-	-	
LAT/12/1/7	RP	12	Central American integration programme (2/6 m/m expert services)	8.8	-	-	
LAT/12/2/4	RP	12	Regional adviser in industrial programming (1/12 m/m expert services)	-	27.0	-	
70/984 LAT-8	RP	12	Long-range country programming missions (expert services)	14.1	24.0	-	
71/1375 LAT-15	SIS	1 (6,2)	Assistance to the Junta of the Andean Integration Group in textile engineering, non-ferrous metallurgy, machine tool production and mechanical equipment fabrication (4/16 m/m expert services)	18.0	14.0	-	
	SIS	12	Industrial planning - Permanent Secretariat of the General Treaty on Central American Economic Integration (SIECA) (1/0.5 m/m expert services)	1.5	-	-	
71/1148 LAT-12	SIS	1	Agricultural machinery and implements - investigation and development mission in the Central American countries (Phase I - 2/12 m/m expert services; Phase II - 1/1 m/m expert services)	-	26.0	-	

THE AMERICAS (cont'd)

Regional (cont'd)

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Selected industries</u>							
LAT/01/1/1	BP	1	Mechanical industries (1/3 m/m expert services)	-	12.8	-	-
LAT/01/2/1	BP	1	Engineering industries - mechanical industries (1/12 m/m expert services)	-	-	27.0	-
LAT/04/1/2	BP	4	Chemical industries (2/17 m/m expert services)	-	34.8	-	-
LAT/04/1/9	BP	4	Regional consultation on pulp and paper industry - printing cost for final report (miscellaneous)	-	2.0	-	-
LAT/04/2/2	BP	4	Chemical, pharmaceutical, pulp and paper industries (2/24 m/m expert services)	-	-	54.0	-
LAT/05/1/6	BP	5	Mission on pesticide production (1/1 m/m expert services)	-	2.0	-	-
69/488 LAT-2	SIS	5 (1)	Assistance to petrochemical and assembly industries (2/18 m/m expert services)	30.2	3.0	-	-
70/1022 LAT 9	SIS	4	Pulp and paper - adviser to the Central American Institute for Research and Technology (ICAITY) (1/12 m/m expert services)	-	6.0	18.0	-

Industrial services and institutions

LAT/70/14	TA	8	Training workshop for personnel engaged in standardization (6/3 m/m expert services; 14/7 m/m participants; miscellaneous)	-	19.0	-	-
LAT/70/17	TA	8	Seminar on organization and administration of industrial services and institutions (3/2 m/m expert services; 20/10 m/m participants; miscellaneous)	-	19.0	-	-

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
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Industrial services and institutions (cont'd)

LAT/70/18	IS	9	Seminar on industrial information (2/1 m/m expert services; 20/10 m/m participants; miscellaneous)	-	20.0	-	-
LAT/08/1/3	EP	8	Industrial research (1/12 m/m expert services)	-	20.9	-	-
LAT/08/2/3	EP	8	Industrial institutions - technological research (1/12 m/m expert services)	-	-	27.0	-

Packaging industry

71/1237 LAT-14	SIS	17	Packaging survey mission (1/1 m/m expert services)	-	2.0	-	-
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ASIA AND THE FAR EAST

A f g h a n i s t a n

The main industries in Afghanistan are textile, cotton spinning, cement, sugar refining, silk manufacturing and fruit processing. The industrial sector as a whole accounts for about 12 per cent of the GDP, to which factory production contributes only 2 to 3 per cent. The remaining 10 per cent is covered by handicrafts and small-scale manufacturing establishments. While the public sector plays an important role in the industrial development of Afghanistan, a number of industries have been established in the private sector since the 1967 law on Foreign and Private Investment.

The main areas of UNIDO's assistance to Afghanistan have been industrial planning, industrial standards and training of technical personnel. During 1971, two UNIDO experts served in Afghanistan for about five man/months; seven Afghan nation-

als participated in training programmes, seminars and workshops organized by UNIDO. Subcontracting arrangements, valued at \$46,000, were concluded for one project. Six fellowships are scheduled to be awarded to national personnel in 1972. French bilateral aid was used in the implementation of the 1970 project on standards.

In June 1971, a background paper on the Country Programme for Afghanistan for the period 1972 through 1976 was submitted to the organizations concerned, including UNIDO. It is envisaged that the Country Programme will be submitted to the UNDP Governing Council for approval in June 1972.

The Industrial Development Field Adviser posted in Islamabad, Pakistan, also serves Afghanistan.

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
APG/12/2/1	RP	12	Industrial programming and project planning (2/24 m/m fellowships)	-	-	11.6
APG/13/1/1	RP	13	Investment promotion (1/9 m/m fellowship)	-	3.7	-
71/1251 APG-5	SIS	12	Advisory mission on industrial planning (consulting firm)	-	45.9	-
<u>Promotion of export-oriented industries</u>						
71/1352 APG-7	SIS	14	Exploratory mission on product adaptation and development of export-oriented industries (1/0.5 m/m expert services)	-	1.0	-
<u>Engineering industries</u>						
70/836 APG-3	SIS	1	Exploratory mission on industrial maintenance and repair (1/1 m/m expert services)	-	2.0	-

Expenditure (in '000 US\$)

up to 1971    1971    1972    1973    beyond 1973

ASIA AND THE FAR EAST (cont'd)

A f g h a n i s t a n (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
			<u>Food and light industries</u>				
71/1384 AFG-8	SIS	6	Assistance to the leather industries (1/6 m/m expert services; 2/12 m/m fellowships)	8.0	11.4	-	-
71/1385 AFG-9	SIS	6	Assistance in the development of food industries (1/6 m/m expert services; 2/12 m/m fellowships)	-	19.4	-	-

B r u n e i

The economy of Brunei is based primarily on the country's rich oil resources, which account by value for over 95 per cent of all exports. In 1971, the daily production of crude oil had reached 200,000 barrels as compared to 130,000 in 1970. Other economic activities are rubber cultivation, agriculture, forestry and fishing. Aware of the limitations of an economy depending upon one major industry, the Government of Brunei has made provisions for a diversification of the economy in its National Development Plan. The Government took the lead in capital investments for infrastructure projects in order to encourage private investments in the estab-

lishment of various enterprises. The main infrastructure projects are in the fields of education, health, sanitation, sewerage and water supplies, electric power, transport (roads, airport, deep-water port) and related facilities.

UNIDO rendered assistance to Brunei in the planning of small-scale and light industries. In 1971, an expert recruited by UNIDO served in Brunei for 11 months. A representative of Brunei participated in the Seminar on Financing of Small-scale Industries, held in India in 1971.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
			<u>Small-scale industry</u>				
70/841 BRU-1	SIS	11	Assistance in planning of small-scale and light industries (1/12 m/m expert services)	1.3	24.0	-	-

ASIA AND THE FAR EAST (cont'd)

B u r m a

In the last Four-year National Economic Plan of Burma, priority was given to investment in industries using agricultural raw materials. The New Four-year Development Plan is being finalized.

During 1971, a UNIDO mission visited Burma upon the request of the Government to help finalize a draft request for the establishment of a polymer research laboratory. Another UNIDO consultant was requested to advise on the possibilities of naphthenic acid recovery from petroleum, production of wood preservatives, and pesticide production and formulation. The Government has also requested expert advice for textile ma-

chinery equipment and spare parts manufacture. UNIDO is sending a universal laboratory pilot plant and a universal process trainer to Burma, together with two demonstration training experts for this equipment.

Burma is participating in a number of regional and inter-regional projects. Burmese nationals took part in several training programmes, seminars, workshops and expert group meetings organized by UNIDO.

The Industrial Development Field Adviser posted in Bangkok also serves Burma.

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
BUR/70/11	TA	5	Assistance in the establishment of a universal laboratory pilot plant (1/6 m/m expert services; equipment)	-	-	45.0	-
BUR/70/12	TA	5	Technician instructor for the universal process trainer (1/6 m/m expert services; equipment)	-	19.0	28.4	-
BUR/04/2/1	BP	4	Treatment of industrial wastes of chemical, pharmaceutical and pulp and paper industries (1/12 m/m fellowship)	-	-	5.8	-
71/1195 BUR-2	SIS	5	Exploratory mission on petrochemical industries (1/0.3 m/m expert services)	-	1.5	-	-
71/1353 BUR-3	SIS	5	Assistance in the recovery of naphthenic acids from petroleum and nicotinic acids from tobacco (1/1 m/m expert services)	-	2.0	-	-
71/1418 BUR-4	SIS	5	Assistance in the establishment of a polymer research laboratory (3/2.25 m/m expert services)	-	6.5	-	-

Chemical and petrochemical industries



Ceylon

During the ten-year period 1959 to 1968, industry in Ceylon grew at an average annual rate of 5.9 per cent. During the period 1965 to 1969, the output of industry, at constant prices, rose by 30.3 per cent as compared to 23.7 per cent during 1960 to 1964. The Government intends to enlarge the role of the state sector in industry. At present, there are 26 state corporations playing a significant role in the industrial development of the country. In 1969, the contribution of the manufacturing sector to the GDP amounted to 11.7 per cent.

The assistance rendered by UNIDO has been in the fields of ceramics, fertilizers, oils and fats, cement, synthetic resin adhesives, basic chemicals and training of local personnel. Assistance has also been provided in the application of chemical fertilizers and pesticides and the increased use of modern agricultural machinery. Feasibility studies are being carried out by UNIDO on the processing of ilmenite sands, a process that may lead to the creation of a new industry in

Ceylon. Assistance is being planned for, inter alia, the pharmaceutical, leather and engineering industries.

During 1971, six UNIDO experts and short-term consultants served in Ceylon for a total of 37 man/months. In addition, two fellowships were awarded to national personnel, and ten nationals of Ceylon participated in expert group meetings, workshops and seminars organized by UNIDO. Two Ceylonese specialists served as UNIDO experts in other developing countries in 1971.

A country brief has been prepared by UNIDO as a first step towards the formulation of a Country Programme for the period 1972 through 1976; the brief was sent to the Resident Representative. The Country Programme will be submitted to the UNDP Governing Council for approval in June 1972.

The Industrial Development Field Adviser posted in New Delhi also serves Ceylon.

Project number	Source of funds	Grade	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure beyond 1973
				up to 1971	1972	
11/1343 CEY-25	SIS	12	Industrial project evaluation (1/2 m/m expert services)	-	4.0	-
11/1345 CEY-30	SIS	8	Assistance in the formulation of industrial research policy (1/3 m/m expert services)	-	4.0	-
10/810 CEY-17	SIS	1	Rationalization programme on the manufacture of agricultural machineries (1/3 m/m expert services)	-	4.0	-

Engineering industries

ASIA AND THE FAR EAST (cont'd)

Ceylon (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stages</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Metallurgical industries</u>								
CEY/02/2/1	RP	2	Metal treatment (2/12 m/m fellowships)	-	-	-	-	-
69/593 CEY-13	SIS	2	Development of the gem industry (2/6 m/m expert services)	-	-	-	-	-
71/1210 CEY-22	SIS	2	Feasibility study on electro-metallurgical processing of ilmenite concentrate (consulting firm)	-	1.3	-	-	-
71/1241 CEY-25	SIS	2	Feasibility study on electro-smelting of ilmenite and production of titanium tetrachloride (1/0.5 m/m expert services)	-	1.0	-	-	-
71/1420 CEY-35	SIS	2	Assistance in market analysis of titanium (1/3 m/m expert services)	-	-	1.0	-	-
<u>Chemical and petrochemical industries</u>								
CEY/69/12	TA	4	Development of the chemical industry (1/21 m/m expert services)	7.9	24.0	11.5	-	-
69/495 CEY-9	SIS	5	Production of synthetic resin adhesives (1/3 m/m expert services)	-	7.0	-	-	-
69/646 CEY-14	SIS	5	Assistance to the State Fertilizer Manufacturing Corporation (3/9 m/m expert services)	1.6	-	14.0	-	-
70/771 CEY-16	SIS	1	Provision of specialist technician in freeze dryers for vaccine production (1/1.5 m/m expert services)	-	-	3.0	-	-
70/1104 CEY-21	SIS	5	Fertilizer materials handling (1/6 m/m expert services)	-	-	12.0	-	-
71/1284 CEY-23	SIS	4	Assistance in the development of pharmaceutical industries (1/6 m/m expert services)	-	-	13.0	-	-
<u>Building materials industry</u>								
CEY/03/1/2	RP	3	Construction and building materials - ceramic products (1/6 m/m fellowship)	-	2.4	-	-	-

## ASIA AND THE FAR EAST (cont'd)

## Ceylon (cont'd)

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<b><u>Building materials industry (cont'd)</u></b>							
70/897 CEY-5	SIS	1	Assistance to the Ceylon Cement Corporation (1/12 m/m expert services: mechanical engineer)	-	10.0	14.0	-
70/1028 CEY-20	SIS	3	Assistance to the Ceramic Corporation in the manufacture of refractories (1/1.5 m/m expert services)	-	3.0	-	-
<b><u>Industrial information</u></b>							
	IPF	9	Assistance to the National Scientific and Technical Documentation Centre	-	-	-	-
<b><u>Food and light industries</u></b>							
CEY/70/10	TA	6	Assistance to the handloom industry (1/12 m/m expert services)	-	14.0	-	-
CEY/06/2/2	RP	6	Wood processing (2/24 m/m fellowships)	-	-	-	-
68/435 CEY-11	SIS	6	Feasibility study on the manufacture of agar-agar (1/3 m/m expert services)	-	-	-	-
69/062 CEY-15	SIS	6	Modern rice-milling and oil recuperation (1/2 m/m expert services)	-	-	-	-
71/1284 CEY-24	SIS	6	Fruit processing exploratory mission (2/2 m/m expert services)	-	-	-	-
71/1326 CEY-21	SIS	6	Assistance to the Ceylon Leather Products Corporation (1/6 m/m expert services)	-	-	-	-

ASIA AND THE FAR EAST (cont'd)

Fiji

In Fiji, the manufacturing sector contributes 10.9 per cent of the GNP. Among the major industrial establishments are sugar mills, copra processing units and vegetable oil mills. In the Sixth Development Plan of Fiji (1971-1975), special emphasis is put on industrial development and on the creation of a favourable climate for investment.

The main efforts of UNIDO's assistance have been directed towards industrial planning and pre-feasibility studies for the processing of indigenous raw materials. UNIDO is assisting the Government through a UNDP/SF project, Centre for Leather Training, Development and Promotion (FIJ-6), which includes a pilot tannery, and by undertaking development work and training in leather production and utilization. UNIDO is

also providing assistance in the building of two types of boats, one of which is of ferro-cement (by a method developed fairly recently). The project has proved useful not only to Fiji but also to the whole region. During 1971, four UNIDO experts and short-term consultants served in Fiji.

In its Country Programme proposal for UNDP assistance for the years 1972 through 1975, the Government has reserved an important role for UNIDO in the development of the country's industry.

A Senior Industrial Development Field Adviser posted in Manila also serves Fiji.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
FIJ/65/3	TA	12	Industrial planning and programming assistance to the Ministry of Commerce, Industry and Co-operatives (1/45 m/m expert services) (OPAS)	41.3	-	17.0	17.0
	IPP			-	-	(17.0)	(17.0)
	IPP	12		-	-	-	(17.0)
			Assistance to Fiji Development Bank for project appraisal and loan evaluation (1/12 m/m expert services; 1/12 m/m fellowship)	-	-	-	(17.0)
FIJ-6	SF	6	Centre for leather training development and promotion - <u>Purpose:</u> to assist the Government in establishing facilities, including a pilot tannery, to undertake research and training in leather production and utilization. Project activities are also to include establishment of quality standards for hides and leather products, development of footwear manufacturing techniques and assessment of economic	-	26.5	140.0	117.0 (14.0)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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**FUJ-6 (cont'd)**

Leather industry (cont'd)

viability of full-scale tanning operations. The project manager is continuing work begun under SIS. The Plan of Operation has been prepared.

Approved: June 1971 UNDP: \$461,500  
Duration: 3½ years Gov't: \$207,000

09/532 FUJ-2 SIS 6 Tanning and footwear industry (1/13 m/m expert services) 21.7 1.0

Promotion of export-oriented industries

FUJ/14/2/1 EP 14 Promotion of export-oriented industries (1/6 m/m fellowship) 3.4

Engineering industries

FUJ/10/3 TA 1 Assistance to the Marine Department in the construction, repair and maintenance of ships (1/18 m/m expert services) 5.2 4.1

09/531 FUJ-1 SIS 1 Assistance in the development of metalworking industries (1/12 m/m expert services) 10.1 1.0

IPF 1 Shipyard manager (1/30 m/m expert services)

Ceramics industry

10/587 FUJ-3 SIS 3 Assistance in a feasibility study on heavy clay projects (1/5 m/m expert services)

Chemical industry

10/1030 FUJ-4 SIS 4 Feasibility studies on solar salt production (consulting firm)

ASIA AND THE FAR EAST (cont'd)

HONG KONG

The Government of Hong Kong has been concerned by the problems posed by trading uncertainties and increasing competition by other producers. There is a need to develop more sophisticated lines to meet selective demands and lessen the effects of competition. The prospects continue to be favourable, however, for certain industries such as toys, wigs and electronics.

The assistance of UNIDO to industry in Hong Kong has been limited to an advisory mission on electrical testing and safety design and an exploratory mission in the field of con-

sumer products. Further assistance, in the form of a training programme within the proposed packaging centre, is envisaged.

Hong Kong has participated in the First and Second Asian Meetings to Promote Specific Industrial Projects, sponsored by UNIDO and held in Manila and Singapore, respectively.

The Industrial Development Field Adviser stationed in Bangkok also covers Hong Kong.

<u>Project number</u>	<u>Source of funds</u>	<u>Value</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
				up to	beyond
				1971 - 1971	1972 - 1973
					1973

Packaging industry

70/734 HOK-2	SIS	17	Consultancy services on promotional and protective packaging for export goods (consulting firm)	6.1	-
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I n d i a

The Government of India has declared that industrial development will continue to be guided by the Industrial Policy Resolution of 1956. Under the Fourth Five-year Plan (1969-1974), the public sector continues to occupy a predominant role in new investments in organized industry and mining (approximately 60 per cent out of an envisaged total of approximately Rs. 52,980 million). The Fourth Plan takes into account the need to correct imbalances in the industrial structure and to bring about maximum utilization of existing industrial capacity. The Government envisages an 8 to 10 per cent average annual increase in industrial production during the period of the Fourth Plan. It is also the policy of the Government to achieve as widespread an industrialization of the country as possible, and to encourage the emergence of new entrepreneurship.

To date, the assistance of UNIDO to India has been concentrated in three areas: the supply of advanced technological expertise, the processing of its mineral resources and other raw materials, and the development of the country's exports. Some equipment, mostly of the research and demonstration and pilot plant type, has also been supplied. UNIDO is expected to be increasingly active in providing assistance in export promotion of selected industrial goods (such as pharmaceuticals, dyes and dye intermediates, essential oils, toiletries and cosmetics) as well as in-product adaptation for export. The assistance of UNIDO has been requested by the Government in such fields as transformer design, mica marketing, electrical engineering (variable speed drive applications), polymer chemistry and in the establishment of subcontracting exchanges in Madras and Bombay.

Under the UNDP/SP component, assistance is being given in the establishment of a design centre for electrical measuring instruments and of a central creep testing facility, to be attached to the National Metallurgical Laboratory. During 1972,

UNDP assistance is also expected in the development of the leather industry and of the synthetic fibre industry and in the establishment of a pilot demonstration plant for the electro-smelting of ilmenite concentrates.

Technical assistance to India included the training of technical personnel, in the form of individual fellowships or group training, primarily in areas of technological specialization and marketing. During 1971, some 35 experts and short-term consultants recruited by UNIDO served in India for a total of nearly 130 man/months. In addition, approximately 25 fellowships were awarded to national personnel. Subcontracting arrangements valued at \$12,000 were concluded for three projects, and equipment worth \$51,000 was delivered. During the first half of 1971, 45 Indian specialists served in UNIDO experts in other developing countries.

A Senior Industrial Development Field Adviser is attached to the Resident Representative's office in New Delhi. In addition, the UNDP field office in New Delhi, assisted by the Senior Industrial Development Field Adviser, helped the Government in drafting a Country Programme for the next five years. At the moment of writing, the draft has not yet been finalized and the amount of technical assistance to the industrial sector is not yet known.

India has participated in a number of regional and international projects. Some 30 Indian participants participated in training programmes organized by UNIDO as well as in seminars, workshops and expert group meetings. India hosted 12 UNIDO seminars in 1971, one on small-scale industry and one on food processing industry. A National Centre for Industrial Development has been established in India, and UNIDO publications are distributed directly to some 30 governmental and private institutions in the country.

ASIA AND THE FAR EAST (cont'd)

India (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972 1973 beyond 1973
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Engineering industries

IND-67	SF	1	<p>Design centre for electrical measuring instruments -  <b>Purpose:</b> to provide, in association with ILO, to manufacturers of electrical equipment the technical knowledge necessary to increase plant productivity; to carry out research and development to provide modern, indigenous designs and prototypes adapted to local manufacturing conditions; to provide testing and laboratory facilities to smaller manufacturers; to arrange training in design and manufacture of electrical measuring instruments; to maintain liaison with national scientific and research institutes and to assist industry in the development and manufacture of instruments such as jewel bearings, hair springs, pivots and permanent magnets. The Plan of Operation was signed in April 1969. The present chief adviser began his assignment in November 1969, continuing work begun by a previous expert from 1963 to 1969. The project is almost fully staffed and equipment required has been purchased.</p>	213.1	203.8	251.4
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Operational: April 1969      UNDP: \$833,000  
 Duration: 5 years              Gov't: \$739,000

IND/71/21	TA	1	Engine design computerization (1/3 m/m fellowship)	-	-	2.4
IND/01/1/4	RP	1	Manufacturing and testing of electronic parts (2/12 m/m fellowships)	-	8.2	-
IND/01/2/1	RP*	1	Electronic industries (1/6 m/m fellowship)	-	-	3.4
"	RP	1	Mechanical industries (1/6 m/m fellowship)	-	-	3.4
"	RP	1	Industrial design (1/6 m/m fellowship)	-	-	3.4
69/484 IND-17	SIS	1	Electrical industry, Bhopal - transformers and variable speed drivers (2/8 m/m expert services)	3.8	12.0	-



ASIA AND THE FAR EAST (cont'd)

India (cont'd)

Project number      Source of funds      Year      Project title and project description

Expenditure (in '000 US\$)  
 up to 1971    1971    1972    1973    beyond 1973

Metallurgical industries

Project number	Source of funds	Year	Project title and project description	Expenditure (in '000 US\$)
				up to 1971    1971    1972    1973    beyond 1973
IND-111	SP	2	<b>National Metallurgical Laboratory, Jamshedpur - Purpose:</b> to assist the Government in establishing a central creep testing facility as part of the National Metallurgical Laboratory at Jamshedpur. It is expected that project activities will result in the establishment of test facilities and the training of personnel required for the development of local grades of heat resistant steel and super alloys, using indigenous raw materials, to international standards. The Plan of Operation was signed in July 1971.	15.4    -    296.3    255.4    37.7
			Duration: 3 years      UNDP: \$671,000 Gov't: \$410,000	
IND/70/42	TA	2	Treatment of vanadi-ferrous ores (1/24 m/m expert services; 4/12 m/m fellowships; equipment)	-    9.4    35.0    30.0    -
IND/71/27	TA	2	Methods of preparing standard samples of metals and alloys (2/8 m/m fellowships)	-    8.0    -    -    -
IND/71/29	TA	2	Assistance in the development of the Khetri copper project (1/36 m/m expert services)	-    -    30.0    30.0    -
IND/02/1/1	RP	2	Application of modern techniques and quality control methods in non-ferrous industries (2/12 m/m fellowships)	-    3.4    -    -    -
09/480 IND-13	SIS	2	Assistance in the marketing and processing of mica (2/6 m/m expert services)	3.7    -    -    -    -
09/652 IND-4	SIS	2	Pilot plant scale tests on vanadi-ferrous magnetites (consulting firm)	-    3.0    -    -    -
11/1146 IND-23	SIS	2	Beneficiation of low-grade bauxite (1/3 m/m expert services)	-    -    -    -    -
11/1203 IND-27	SIS	2	Feasibility study on the electro-smelting of ilmenite (1/0.3 m/m expert services)	-    1.2    -    -    -

ASIA AND THE FAR EAST (cont'd)

I n d i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	1971	<u>Planned expenditure (in '000 US\$)</u> beyond 1971	1972	1973	1973
<b><u>Metallurgical industries (cont'd)</u></b>									
71/1291	IND-30	SIS	2	Exploratory mission on the production of pig iron based on the utilization of non-coking coal (1/0.5 m/m expert services)	-	0.3	-	-	-
VC/2/19		GTF	2	Laboratory-scale metallurgical investigation (consulting firm)	-	-	34.0	-	-
IND-121		IPF	2	Provision of a pilot and demonstration plant for the production of pig iron on the basis of non-coking coal	-	-	20.0	20.0	40.0
<b><u>Promotion of export-oriented industries</u></b>									
IND/69/17		TA	14	Training programme for marketing and export promotion of industrial goods (1/17 m/m expert services; 20/80 m/m fellowships)	60.4	5.0	-	-	-
IND/71/1		TA	14	Inter-firm comparison techniques (1/6 m/m expert services)	-	-	15.0	-	-
IND/71/42		TA	14	Export of mica products (1/1.5 m/m fellowship)	-	2.7	-	-	-
IND/14/2/4		RP	14	Export products identification and industrial export promotion (2/12 m/m fellowships)	-	-	6.0	-	-
69/580	IND-18	SIS	14	Export promotional effort studies in the fields of pharmaceuticals, essential oils, toiletries, cosmetics, dyes and dye intermediates (3/24 m/m expert services)	6.5	32.0	3.0	-	-
71/1178	IND-24	SIS	14	Assistance in the establishment of a pilot test house for export quality control (2/12 m/m expert services)	-	-	24.0	-	-
71/1193	IND-26	IPF	14	Test house for export quality control programme	-	-	(50.0)	(100.0)	(500.0)
		SIS	14	Orientation programme on product adaptation and development for the promotion of export-oriented industries (10/5 m/m expert services)	-	1.2	20.2	-	-
71/1299	IND-28	SIS	14	Product adaptation for export (3/3 m/m expert services)	-	-	-	-	-

ASIA AND THE FAR EAST (cont'd)

I.A.D.I.S. (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Start</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
			<u>Packaging industry</u>					
71/1327 IND-31	SIS	17	Assistance to the Indian Institute of Packaging, Bombay (2/1.5 m/m expert services)	-	6.8	-	-	-
	IPF	17	Further assistance to the Indian Institute of Packaging					
			<u>Industrial management and training</u>					
IND/10/1/3	RP	17	Modern techniques of industrial management (2/12 m/m fellowships)	-	6.7	-	-	-
IND/10/1/7	RP	17	Production management (1/6 m/m fellowship)	-	3.0	-	-	-
IND/10/1/9	RP	17	Management training consultancy (1/3 m/m fellowship)	-	2.3	-	-	-
69/556 IND-11/12	SIS	17	Organization and management of quality control schemes and seminars on quality control techniques (consulting firm)	-	25.0	5.4	-	-
			<u>Chemical and petrochemical industries</u>					
IND/69/1	TA	5	Assistance in the development of chemical and petrochemical industries (1/12 m/m expert services; equipment)	25.7	6.7	-	-	-
IND/04/1/8	RP	4	Expansion of pulp and paper industries (16/16 m/m fellowships)	-	13.0	-	-	-
IND/05/1/5	RP	5	Petrochemical industry (1/6 m/m fellowship)	-	4.3	-	-	-
IND/05/1/6	RP	5	Plastic moulding and fabricating reinforced plastics (1/3 m/m fellowship)	-	4.1	-	-	-
	IPF	5	Establishment of a demonstration plant for the production of synthetic fibres - Silk and Art Silk Mills' Research Association (SASWIRA)	-	-	-	-	-

ASIA AND THE FAR EAST (cont'd)

India (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Chemical and petrochemical industries (cont'd)

IND-117	IPF	5	Performance, evaluation and utilization of petroleum products	-	-	-	-	-	(30.0) (300.0) (300.0)
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Leather industries

IND/70/33	TA	6	Development of chrome tanning processes for village tanneries (1/10 m/m expert services; 1/6 m/m fellowship)	-	20.0	1.5	-	-	-
IND/06/2/2	RF	6	Leather processing (1/6 m/m fellowship)	-	-	3.4	-	-	-
68/288 IND-	SIS	6	Development of chrome tanning processes for village tanneries (1/5 m/m expert services)	8.8	4.0	-	-	-	-
IND-113	IPF	6	Leather goods development and demonstration centre, Madras - <u>Purpose:</u> to assist in the establishment and operation of a centre to pioneer and disseminate modern methods of leather goods production (11/7.25 m/m expert services)	-	-	-	-	(16.0)	(126.0) (204.5)

Duration: 4 years      UNDP: \$351,200  
Gov't: \$437,000

Food industries

IND/70/46	TA	6	Advanced techniques in food industry (1/6 m/m fellowship)	-	3.6	-	-	-	-
IND/06/2/2	RF	6	Food industry (1/6 m/m fellowship)	-	-	-	3.4	-	-

ASIA AND THE FAR EAST (cont'd)

India (cont'd)

Project number	Source of funds	Source	Project title and project description	Expenditure (in '000 US\$) up to 1971	1971	1972	1973	Planned expenditure (in '000 US\$) beyond 1973	
IND-116	IFF	6	Assistance to the Jute Industries Research Association (JIRA)	-	-	-	(100.0)	(252.3)	
<u>Jute industry</u>									
<u>Small-scale industry</u>									
IND/71/43	TA	11	Small-scale industries - Hindustan steel (9/42 m/a fellowships)	-	26.6	4.0	-	-	
IND/11/2/3	BP	11	Industrial estates organization and pilot enterprises development (2/12 m/a fellowships)	-	-	6.8	-	-	

Indonesia

In 1969, the manufacturing sector of Indonesia contributed 13 per cent of the GNP. The main industries are food, beverages, textiles, chemicals, leather and rubber goods and non-metallic minerals. A five-year plan, which was introduced at the beginning of the 1969/1970 fiscal year, placed emphasis on the development of the agricultural sector and the rehabilitation of retarded industries. From 1967 till the end of January 1971, 335 projects were approved, with a total value of \$1,339 million. Investments in manufacturing industries amounted to about \$244 million.

In recent years UNIDO has been assisting in improving the performance of certain "retarded" industries. Emphasis has been given to helping the Department of Industry in strengthening its organization and also in making industry-wide surveys

to provide the Government with a basis for future sectoral planning. Operations have begun in these fields under pre-project allocations from technical assistance funds. Technical assistance to Indonesia included the training of technical personnel through individual fellowships and group training. During 1971, some fifteen experts and short-term consultants recruited by UNIDO served in Indonesia for a total of nearly 55 man/months. In addition, eight fellowships were awarded to national personnel. Subcontracting arrangements valued at \$238,000 were concluded for three projects.

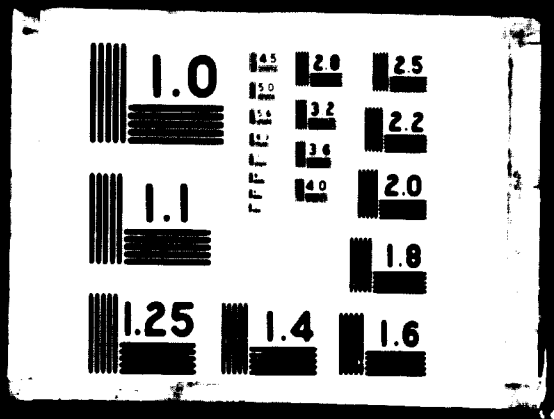
Indonesia is participating in a number of regional and interregional projects. Some 25 Indonesian national participants in group training programmes, seminars, workshops and expert group meetings organized by UNIDO.



**22.7.74**

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ASIA AND THE FAR EAST (cont'd)

I n d o n e s i a (cont'd)

A UNIDO expert who was attached to the Directorate General for Basic Industries co-operated in establishing the Metal Industry Development Centre (MIDC) at Bandung; Belgian bilateral assistance was associated with this project. The possibility of forming a manufacturers' association to support MIDC was examined by another UNIDC expert. Assistance was also provided to the Directorate General for Textile Industries. A UNIDO adviser is attached to the office of the Director General. His responsibilities include the Textile Institute, which has received equipment and other assistance from bilateral sources.

An industrial advisory team has been requested by the Government of Indonesia and will be attached to the Secretary

General, Department of Industry. The team is expected to work closely with the World Bank mission which is assisting the National Development Planning Agency (BAPPENAS). The Government would like to have a UNIDO adviser in the Technical Secretariat of the Investment Promotion Board for 1972. The adviser would be part of a team, the other members of which are expected to be provided through bilateral assistance sources.

The draft of the Country Programme has not yet been finalized and the amount of technical assistance to the industrial sector is not yet known. Indonesia is covered by the Industrial Development Field Adviser posted in Bangkok.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
INS/69/28	TA	13	Industrial loan appraisal (1/15 m/m expert services)	13.6	10.0	-	-
INS/69/29	TA	12 (1,6)	Industrial development advisory mission (3/54 m/m expert services)	54.2	38.0	48.0	-
INS/12/1/2	RP	12	Projects planning and implementation (2/10 m/m fellowships)	-	6.2	-	-
INS-35	IPF	12	Industrial development advisory team. Pre-project activity; financing approved by UNDP in July 1971 (4/48 m/m expert services)	-	-	(105.6)	(500.0) (488.0)
70/919 INS-19	SIS	8	Assistance in elaborating policy guidelines for further research activities (1/4 m/m expert services)	-	8.0	-	-

Industrial research



Project number	Source of funds	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
			up to 1971	1971	1972	1973
<u>Industrial management and training</u>						
INS/10/1/4	RP	10 Industrial management and training (2/4 m/m fellowships)	-	2.2	-	-
INS/10/1/7	RP	10 Industrial management (1/6 m/m fellowship)	-	3.1	-	-
INS/10/2/3	RP	10 Industrial management techniques (1/12 m/m fellowship)	-	-	5.8	-
70/902 INS-17	SIS	1 Assistance in the organization of manufacturers' association (1/2 m/m expert services)	-	5.0	-	-
<u>Textile industry</u>						
INS/70/3	TA	10 Assistance to the textile industry (1/9 m/m expert services)	12.6	14.0	-	-
INS-31	IPF	6 Textile industry rehabilitation and development centre, Bandung - Purpose: to assist the Government in the modernization of the textile industry through strengthening of the Directorate General for the textile industry in Djakarta and the Institute of Textile Technology in Bandung. The project manager began his assignment in September 1971, continuing work begun under TA. A textile industry planning and policy study has been made under subcontract.	-	86.9	274.6	263.4
					389.0	
					Approved: January 1971 UNDP: \$1,125,100	
					Duration: 4 years Gov't: \$ 705,000	
<u>Engineering industry</u>						
70/800 INS-15	SIS	1 Assistance in building and operation of shipyards (2/18 m/m expert services)	-	-	36.0	-

ASIA AND THE FAR EAST (cont'd)

I n d o n e s i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>Planned expenditure (in '000 US\$) 1972-1973</u>	<u>beyond 1973</u>
<u>Engineering industry (cont'd)</u>						
70/1124 INS-21	SIS	1	Survey mission on engine overhaul, repair and rehabilitation (1/4 m/m expert services)	-	8.0	-
71/1200 INS-22	SIS	1	Assistance in the development of electrical industry (1/4 m/m expert services)	-	8.0	-
<u>Metallurgical industry</u>						
INS/02/2/1	RP	2	Iron and steel production (2/24 m/m fellowships)	-	11.6	-
<u>Pulp and paper industry</u>						
INS/04/2/2	RP	4	Pulp and paper production (1/12 m/m fellowship)	-	5.8	-
67/177 INS-6	SIS	10	Paper mill - assistance in management, production costing and budget techniques (2/24 m/m expert services)	33.4	10.0	-
69/589 INS-11	SIS	4	Assistance to the Goe Paper Mill (1/12 m/m expert services)	-	6.0	-
<u>Building materials industry</u>						
INS/03/1/1	RP	3	Ceramics development (1/3 m/m fellowship)	-	2.5	-
<u>Light industries</u>						
INS/06/1/3	RP	6	Silk industry (2/4 m/m fellowships)	-	2.0	-
70/813 INS-14	SIS	6	Assistance to match manufacturing industry (1/2 m/m expert services)	-	4.0	-

Indonesia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
INS/11/1/5	RP	11	<u>Small-scale industry</u> Industrial estates development (1/3 m/m fellowship)	-	1.6	-	-
INS/11/1/6	RP	11	Seminar on small-scale industries (1/0.1 m/m expert services)	-	0.7	-	-
71/1379 INS-16	SIS	5	<u>Chemical and petrochemical industries</u> Survey of petrochemicals industries (consulting firm)	-	-	96.0	-

Iran

The industrial sector contributes greatly to the continuing economic growth of Iran. During the current plan (1968-1973), industrial output is expected to increase at an annual rate of 15 per cent. In 1971, the main growth was in the automotive, petrochemical, electrical and radio and television industries. The plan for 1968 to 1973 is the first stage of a long programme to industrialize Iran. The objective is to minimize the volume of imports of consumer goods, to increase steadily the range of capital and intermediate goods manufactured in the country, and to expand and diversify the range of locally manufactured goods exported to other countries. The industrialization efforts are also aimed at reducing the country's dependence on oil revenues and at exploiting other locally available raw materials.

Among the principal activities of UNIDO in Iran is the preparation of master plans for various industries and of

feasibility studies for the development of new industries, within the framework of the Research Centre for Industrial and Trade Development (a UNDP/SF project). UNIDO has continued its assistance in the establishment of the Ahwaz industrial estate and in the strengthening of an organization for small-scale industries and industrial estates. A long-term project in the field of metrology is also underway. UNESCO and the Federal Republic of Germany are co-operating with UNIDO in the implementation of the UNDP/SF project in metrology. FAO and UNIDO have a joint project in the field of agricultural machinery. The services of Norwegian volunteers and US Peace Corps volunteers were utilized in the industrial estate at Ahwaz.

During 1971, some 30 experts and short-term consultants served in Iran for a period of nearly 200 man/months. In addition, two fellowships were awarded to national personnel.

ASIA AND THE FAR EAST (cont'd)

I r a n (cont'd)

Subcontracting arrangements valued at \$368,080 were concluded for six projects.

The country programming exercise will take place in 1972. The present programme reflects in large measure the findings and recommendations of the UNIDO Programming Mission that took place in December 1969.

As a member of the Regional Co-operation for Development (RCD), Iran has participated in the UNIDO advisory project on

regional development. It also hosted meetings on promotion of small-scale industries in RCD countries. Moreover, 12 Iranian nationals participated in training programmes, seminars, workshops and expert group meetings.

Iranian authorities have established a National Committee for UNIDO. A Senior Industrial Development Field Adviser stationed in Islamabad also covers Iran.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1972 1973 beyond 1973	
IRA-16	SF	12	<p><u>Industrial planning and programming</u></p> <p>Research Centre for Industrial and Trade Development - Purpose: to strengthen the Centre, which was established by the Ministry of Economy for formulation of industrial plans, preparation of investment priorities, preparation and evaluation of feasibility studies, and formulation of industrial and trade policies. Project activities began in 1967 under subcontract.</p> <p>Operational: February 1968 UNDP: \$1,058,900 Duration: 5 years Gov't: \$1,560,000</p>	566.3	132.1	267.4
IRA/70/4	TA	9	<p>Development banking: assistance to the Industrial and Mining Development Bank of Iran (IMDBI) on technical information services (1/12 m/a expert services)</p>	-	-	30.0
IRA/70/13	TA	12	Industrial planning and project evaluation (1/12 m/a expert services)	-	20.0	5.0
IRA/12/2/4	NP	12	Project preparation and evaluation (1/12 m/a fellowship)	-	-	5.8
IRA/15/2/5	NP	17	Industrial reviews and surveys: sectoral studies (1/12 m/a fellowship)	-	-	5.8
71/1408 IRA-43	SIS	12	Industrial integration and mergers (1/1 m/a expert services)	-	1.2	-

## I.F.A.B. (cont'd)

Project number	Source of funds	Start	Project title and project description	Expenditure (in '000 US\$) up to 1971	1971-1973	Planned expenditure (in '000 US\$) beyond 1973
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Industrial standardization and research

IRA-34	SP	8	Institute of Standards and Industrial Research, Karaj - Purpose: to assist, in association with UNESCO, in the establishment and operation of a metrology centre within the Institute of Standards and Industrial Research of Iran at Karaj. The project manager began his assignment in July 1970. The Plan of Operation has been prepared.	40.6	45.1	244.8	304.3	221.8
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Duration: 5 years  
UNDP: \$ 951,700  
Gov't: \$3,182,000

Promotion of export-oriented industries

70/894 IRA-30	SIS	14	Export promotion of metalworking industries (2/2 m/m expert services)	0.4	2.0	-	-	-
71/1207 IRA-38	SIS	14	Product adaptation and development of export-oriented industries (1/0.75 m/m expert services)	-	2.0	-	-	-

Engineering industries

IRA/70/10	TA	1	Assistance to optics industry (1/24 m/m expert services)	5.9	24.0	17.5	-	-
70/714 IRA-27	SIS	1	Cutting tool production (consulting firm)	-	-	8.0	-	-
71/1160 IRA-35	SIS	1	Marketing of engineering products (1/3 m/m expert services)	-	-	6.0	-	-
9026-71	PIT	1	Lens grinding expert (Danish associate expert; 1/12 m/m expert services)	-	20.0	4.0	-	-

ASIA AND THE FAR EAST (cont'd)

I R A A (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973 beyond 1973</u>	
			<u>Metallurgical industries</u>					
IRA/02/1/2	RP	2	Iron and steel production (1/12 m/m fellowship)	-	4.7	-	-	
70/774 IRA-20 Phase II	SIS	2	Pilot plant scale tests on direct reduction of iron ores by the HYL process (consulting firm)	0.2	17.7	-	-	
70/890 IRA-31	SIS	2	Assistance in the production of lead and zinc (2/6 m/m expert services)	-	2.0	4.0	-	
	IPF	2	Centre for metallurgical technology	-	-	(80.0)	(300.0) (400.0)	
			<u>Chemical and petrochemical industries</u>					
IRA/04/2/3	RP	4	Pulp and paper production (1/12 m/m fellowship)	-	-	5.8	-	
71/1.17 IRA-32	SIS	5	Advisory services on joint ventures in the petro-chemical industries (1/6 m/m expert services)	-	15.0	-	-	
			<u>Building materials industry</u>					
69/608 IRA-26	SIS	3	Assistance in the mining of decorative building stones (1/3 m/m expert services)	-	-	6.0	-	
71/1282 IRA-39	SIS	3	Application of plastics in buildings (1/0.25 m/m expert services)	-	0.5	-	-	
90/14-71	FIT	3	USSR interpreter for expert in mining of decorative building stones (1/3 m/m expert services)	-	-	6.0	-	
			<u>Food and light industries</u>					
IRA/68/28	TA	6	Assistance in the development of food industries (1/10 m/m expert services)	19.1	-	20.0	-	

Project number	Source of funds	Start	Project title and project description	Expenditure (in '000 US\$) up to 1971	1971	1972	1973	Planned expenditure beyond 1973
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Industrial management and training

71/1197 IRA-37	SIS	16	Exploratory mission on in-plant training for engineers (1/0.75 m/m expert services)	-	1.0	-	-	-
	177	16	In-plant training for engineers	-	-	(20.0)	(100.0)	(200.0)
71/1288 IRA-40	SIS	10	Exploratory mission on management assistance to industries (1/0.5 m/m expert services)	-	0.9	-	-	-

Small-scale industry

IRA-11	SP	11	Establishment of an industrial estate Ahwas and the development of small-scale industries - <u>Purpose:</u> to assist in the establishment of an industrial estate at Ahwas and in the development of small-scale industries. The project was extended under supplementary assistance in January 1969. It is fully staffed.	719.8	232.3	73.8	-	-
9024-70	FIT	11	Operational: September 1965 UNDP: \$1,067,400 Duration: 7 years Gov't: \$1,926,000 Industrial estates (Belgian associate expert; 1/12 m/m expert services)	-	22.0	2.0	-	-

ASIA AND THE FAR EAST (cont'd)

The Khmer Republic

The Khmer Republic produces a substantial range of consumer goods including textiles, sugar, cigarettes, canned fish and matches. Plywood, paper, cement, tires, glassware and fertilizers are other important industries. A motor vehicle assembly plant is also functioning. An oil refinery at Kompong Som, which started production in 1969, supplies the country's fuel requirements.

The Government has requested UNIDO for the services of an industrial economist to assist in the establishment and use of industrial statistics, and an industrial adviser to assist the Ministry of Industry in the industrial planning and development of the country.

During 1971, one UNIDO expert served in the Khmer Republic for three months. In addition, two fellowships were awarded to national personnel. The Khmer Republic is participating in an Asian industrial survey for regional co-operation. As a member of the Mekong Committee, it is receiving assistance in the field of ferro-alloys and iron and steel industries.

The Country Programme for the calendar years 1972 through 1977 has been submitted for the consideration of the UNDP Governing Council. The Industrial Development Field Adviser posted in Bangkok also serves the Khmer Republic.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
							beyond 1973
			<u>Industrial planning and programming</u>				
KOR/70/7	TA	12	Assistance to the Department of Industries and Handicrafts in industrial statistics, technical documentation and project appraisal (1/12 m/m expert services)	-	4.0	25.0	-
KOR/71/6	TA	12	Assistance to the Ministry of Industry in industrial planning, organization and methods (1/24 m/m expert services; equipment)	-	6.0	33.0	22.5
KOR/15/2/2	RP	15	Industrial statistics (1/6 m/m fellowship)	-	-	3.4	-
			<u>Engineering industries</u>				
KOR/01/1/1	RP	1	Industrial engineering (1/8 m/m fellowship)	-	5.6	-	-
			<u>Building materials industry</u>				
KOR/03/1/2	RP	3	Construction industries (1/4 m/m fellowship)	-	2.9	-	-



The Khmer Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>Expenditure beyond 1971</u>	<u>Planned expenditure (in '000 US\$) 1972 1973</u>
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Textile industry

RM/06/2/1 RP 6 Textile technology (1/6 m/m fellowship) 3.4 - -

L a o s

The main industries in Laos are processing of lumber and rice, textile weaving, distilling, and the manufacture of rubber sandals, cigarettes, matches, soft drinks, plastic bags, pottery, ice and bricks. A cement factory is being planned with bilateral assistance.

Laos has been receiving UNIDO assistance since 1968, with an expert assisting in the field of small- and medium-scale industries for two years. A survey mission visited the country in 1970 and concentrated its efforts on metalworking, food and textile industries and on industrial financing. UNIDO is presently assisting the Government in industrial planning, the food industry and furniture manufacturing. An expert is also undertaking a pre-feasibility study for the establishment of

a small-scale foundry. During 1971, five UNIDO experts and short-term consultants served in Laos for a total of 28.5 man/months. In addition, one fellowship was awarded. A Laotian national participated in a seminar organized by UNIDO. Laos is participating in an Asian industrial survey for regional co-operation and, as a member of the Mekong Committee, is receiving assistance in the field of iron and steel and ferro-alloys.

The Country Programme for the years 1972 through 1974 has already been submitted to the UNDP Governing Council for approval. The Government of Laos has established a National Committee for UNIDO. The Industrial Development Field Adviser posted in Bangkok also serves Laos.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>Expenditure beyond 1971</u>	<u>Planned expenditure (in '000 US\$) 1972 1973</u>
LAC/50/5	TA IPF	15	Industrial development and productivity: processing of industrial statistics (1/24 m/m expert services)	27.0	20.0	(30.0) (30.0) (30.0)
			<u>Industrial planning and programming</u>			

ASIA AND THE FAR EAST (cont'd)

Laos (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure beyond 1973</u>
<u>Industrial planning and programming (cont'd)</u>								
69/577 LAO-3	SIS	15	Appraisal of textile and metalworking industries (2/4 m/m expert services)	3.7	4.0	-	-	-
70/814 LAO-6	SIS	1	Feasibility study on the manufacture of agricultural machinery (1/3 m/m expert services)	-	-	6.0	-	-
71/1260 LAC-7	SIS	2	Pre-feasibility study on the establishment of a small-scale foundry (1/2 m/m expert services)	-	4.0	-	-	-
<u>Metallurgical industries</u>								
LAO/04/2/1	BP	4	Production techniques in the pharmaceutical industry (1/6 m/m fellowship)	-	-	3.4	-	-
<u>Chemical industry</u>								
<u>Light industries</u>								
LAO/71/7	TA IPP	6	Food processing (1/5 m/m expert services)	-	10.0	-	-	-
69/614 LAO-4	SIS	6	Furniture design and production and maintenance of woodworking machinery (2/10 m/m expert services)	-	-	20.0	-	-
						(30.0)	(36.4)	(30.0)

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
LAO/10/1/1	NP	10	Industrial management techniques (1/12 m/m fellowship)	-	5.8	-	-
"	NP	10	Industrial census (1/12 m/m fellowship)	-	4.7	-	-
LAO/10/2/2	NP	10	Industrial management techniques (1/6 m/m fellowship)	-	-	3.4	-
LAO/11/2/3	NP	11	Industrial estates organization (1/6 m/m fellowship)	-	-	3.4	-

Small-scale industryMalaysia

The annual industrial growth of Malaysia during the last decade was 10.2 per cent as compared to 5.5 per cent for the GNP. Although the industrial growth was based essentially on private enterprises, active government involvement in the industrial sector constitutes the principal policy in the new development plan for 1971 to 1975. In the Second Plan, public development expenditure for commerce and industry will be M\$583.1 million compared with M\$141.9 million estimated expenditure for the First Plan (1966-1970). The Plan aims at increasing the value added in manufacturing, as a proportion of the GDP, from 13 per cent in 1970 to 17 per cent in 1975.

The assistance provided by UNIDO has been related largely to industrial infrastructure-service projects that offer selected services to the private and public sectors of the economy. Thus, assistance is being given to the Federal Industrial Development Authority (FIDA) in a survey of the industrial po-

tential of various states of Malaysia. UNIDO is also assisting in the establishment and initial operation of the National Institute for Scientific and Industrial Research (NISIR), the development of managerial know-how in the Majlis Amanah Ra'ayat (MARA) and the strengthening of economic research work in the Malaysian Industrial Development Finance Board (MIDF). UNIDO has also played a role in the development of indigenous entrepreneurship in specific industries such as in the leather and footwear industry.

During 1971, a total of six experts and short-term consultants served in Malaysia for 44 man/months, and 13 Malaysians participated in seminars, workshops, expert group meetings and training programmes organized by UNIDO. Malaysia has participated in a number of regional and interregional projects, including the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971. In the current

ASIA AND THE FAR EAST (cont'd)

Malaysia (cont'd)

Industrial survey mission the UNIDO team is working closely with Colombo Plan experts assigned to FIDA.

be submitted to the UNDP Governing Council for approval in January 1972. Malaysia has established a National Committee for UNIDO. The Industrial Development Field Adviser stationed in Bangkok serves Malaysia.

In 1971, the Country Programme exercise was conducted in association with UNDP and the Government. The Programme will

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
MAL/68/5	TA	12	<u>Industrial planning and programming</u> Assistance to the Malaysian Industrial Development Finance Board (1/12 m/m expert services)	24.0	-	-
	IPF	12	Assistance to the Malaysian Industrial Development Finance Board in project evaluation (1/24 m/m expert services)	-	(15.0)	(30.0) (15.0)
	IPF	12	Industrial development studies on organizational and policy matters, with specific allocation of funds (800,000) to implement recommendations thereof (1/36 m/m expert services)	-	(15.0)	-
MAL/69/13	TA	13	Assistance in the field of industrial finance (1/12 m/m expert services)	-	30.0	-
MAL/71/11	TA	12	Industrial strategy mission (1/2 m/m expert services)	-	4.0	-
70/961 MAL-12	SIS	15	Industrial survey mission (3/14 m/m expert services)	-	32.0	-
MAL-22	SP	8	<u>Industrial standardization and research</u> National institute for scientific and industrial research - <u>Purpose:</u> to assist the Government in establishing a national institute of scientific and industrial research. The institute will provide testing and standardization services, technical advice and information, technical and economic feasibility studies and instrument repair and maintenance services. The project manager began his assignment	14.8	30.1	220.0 142.2

MALAYSIA (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Start</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972-1973 beyond 1973
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MAL-22 (cont'd)

Industrial standardization and research (cont'd)

in July 1970. The Plan of Operation has been prepared.

Duration: 2 years      UNDP: 2455,300  
Gov't: 2270,000

8 Assistance to the national institute for scientific and industrial research, Phase II.

Industrial management and training

10 Assistance to the Majlis Amanah Ra'ayat in management services, footwear manufacturing, and industrial design (3/97 m/m expert services; 2/24 m/m fellowships)

Metallurgical industries

1 Assistance in foundry, tool, dye and mould making

Building materials industry

3 Production of building materials and components (1/12 m/m fellowship)

Plastics industry

5 Review of the plastics industry (1/6 m/m expert services)

ASIA AND THE FAR EAST (cont'd)

Malaysia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
69/504 MAL-8	SIS	6	<u>Light industries</u> Study on feasibility of a particle-board plant (consulting firm)	-	-	8.0	-	-
69/503 MAL-9	SIS	6	Studies on the establishment of joinery and furniture industries (consulting firm)	-	-	12.5	-	-
IPP		11	<u>Small-scale industry</u> Assistance to the Malaysian Industrial Development Finance Board in the field of small-scale industries (joint project with ILO)	-	-	(76.5)	(189.0)	(277.5)

Mongolia

The production of the industrial sector of Mongolia accounts for 34 per cent of the GNP. Under the Fifth Five-year Development Plan (1971-1975), about 23 per cent of the total investment is to be made in industry and about 36 per cent in agriculture. The Plan envisages an increase in industrial production of 53 to 56 per cent, with an average annual growth rate of not less than 9 per cent. By 1975, this increase should raise the industrial sector share to 40 per cent of the GNP.

UNIDO is providing assistance to light industry within the framework of UNDP/SF projects at an applied research and experimental centre for leather and leather goods industry and an experimental and demonstration plant for processing

goat and camel's hair. It is envisaged that assistance will also be given in the processing of scrap leather and in the development of the food industry. Assistance has also been rendered in industrial planning and programming, maintenance and repair of industrial equipment, processing of precious and semi-precious stones, technologies of soapmaking and milk processing, and promotion of export-oriented industries.

Technical assistance to Mongolia includes individual fellowships for the training of technical personnel. In 1971, five fellowships were awarded to national personnel and seven experts served in Mongolia for 32 man/months. Most of the requests for short-term assistance included a component for equipment to be used for the training of local personnel.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Engineering industries</u>							
MON/01/2/1	EP	1	Industrial maintenance and repair (2/24 m/m fellowships)	-	-	11.6	-
69/597 MON-2	SIS	1	Organization and methods of industrial repair and maintenance (2/12 m/m expert services)	-	12.0	12.0	-
<u>Building materials industry</u>							
MON/68/10	TA	3	Technological development of glass plant in Malaichi (1/6 m/m expert services; 3/9 m/m fellowships; equipment)	-	21.0	-	-
<u>Chemical industry</u>							
MON/68/11	TA	4	Technological development of soap factory at Ulan Bator (2/5 m/m expert services; 2/6 m/m fellowships; equipment)	-	6.0	5.7	-
<u>Light industries</u>							
MON-6	SF	6	Applied research and experimental centre for leather and leather goods industry, Ulan Bator - <u>Purpose:</u> to assist the Government in the organization and establishment of an applied research and experimental centre for leather and leather goods industry, activities of which will include research and development work, production design and development, consultancy services, formulation of development programmes and policies and provision of technical information and documentation services. The Plan of	21.7	52.6	345.4	390.3 52.1

ASIA AND THE FAR EAST (cont'd)

MONGOLIA (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to	<u>Planned expenditure (in '000 US\$)</u> beyond
				<u>1971</u>	<u>1972</u> <u>1973</u> <u>1973</u>

Light industries (cont'd)

MON-6 (cont'd)

Operation was signed in December 1970. The project manager began his assignment in February 1970.

Operational: April 1971 UNDP: \$ 957,500  
Duration: 3 years Gov't: \$1,786,000

MON-8

SF 6

Experimental and demonstration plant for processing goat and camel's hair, Ulan Bator -  
Purpose: to assist the Government in establishing a pilot plant to conduct experimental work on local goat and camel's hair and to select technologies for industrial production of mohair, yarn and related consumer articles. The Plan of Operation has been prepared.

- 2.2 572.1 181.3 146.9

MON/68/8

TA 6

Duration: 3 years UNDP: \$1,008,200  
Gov't: \$1,750,000  
Technological development of leather goods industry (2/14 m/m expert services; 2/6 m/m fellowships)

26.0 3.7 6.0 - -

MON/69/2

TA 6

Assistance to meat and milk industry (2/4 m/m expert services; equipment)

9.2 4.0 16.2 - -

9027-71

FIT 6

Interpreter for Applied Research and Experimental Centre for Leather and Leather Goods Industry (travel costs)

- 1.0 - - -

MON-9

IPF 6

Experimental and demonstration plant for the utilization of scrap leather -  
Purpose: to assist the Government in establishing an experimental and demonstration plant in Ulan Bator to carry out investigations and practical experiments for the production of reconstituted leather from scrap leather (1/6.5 m/m expert services)

- - (159.5) (427.7) (190.0)

Duration: 3 years

UNDP: \$ 824,400  
Gov't: \$1,100,000



Project number	Source of funds	Years	Project title and project description	Expenditure (in '000 US\$) up to	Planned expenditure (in '000 US\$) beyond
				1971	1972
				1971	1973

Metalurgical industries

MOA/68/12	TA	2	Assistance in manufacture of precious and semi-precious stones (1/6 m/m expert services; 2/5 m/m fellowships; equipment)	5.1	17.0
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N e p a l

Industry (including mining and tourism) occupies an important place in the Nepalese Fourth Five-year Plan (1970-1975). The allocation to this sector has increased from 17 per cent during the period of the Second Plan to 20.3 per cent in the current Plan. During the period of the Third Five-year Plan (1965-1970), manufacturing industries grew by 10 per cent and cottage industries by 30 per cent. The main industries in Nepal are jute, sugar, rice milling, vegetable oil milling, textiles, cigarettes, matches and agricultural tools.

UNIDO assistance has been rendered in vegetable oil technology and agricultural machinery and implements. A textile technologist for cotton was also provided in 1971. During 1971, eight UNIDO experts and short-term consultants served in Nepal for 37 man months. In addition, two fellowships were awarded to national personnel. One Nepalese specialist served in 1971 as a UNIDO expert in another developing country. Technical assistance to Nepal includes the training of technical personnel.

UNIDO provided an industrial advisory team to help the Government draft an industrial development programme and to

advise on the policy instruments and necessary supporting institutions. An ILO management adviser was attached to the industrial advisory team. The various government requests for assistance in the food processing and the agricultural machinery and implements industries were discussed with FAO. The report of the industrial advisory team will provide a basis for the programming of technical assistance to the industrial sector.

Nepal is participating in a number of interregional projects. Four Nepalese nationals participated in seminars, workshops, expert group meetings and a training programme organized by UNIDO. Nepal took part in the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971.

The Country Programme is scheduled for presentation to the UNDP Governing Council for approval in January 1973. The Senior Industrial Development Field Adviser stationed in New Delhi covers Nepal.

ASIA AND THE FAR EAST (cont'd)

J e p a n (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$) beyond 1973</u>
			<u>Industrial policies and programming</u>				
NEP/12/1/1	NP	12	Industrial project preparation (2/12 m/m fellowships)	-	5.6	-	-
NEP/12/2/4	NP	12	Project preparation and evaluation (1/6 m/m fellowship)	-	-	3.4	-
69/618 NEP-1 NEP/70/6	SIS TA	12 (10)	Industrial planning and advisory mission (4/56 m/m expert services; 1/12 m/m fellowship)	59.8	4.0	-	-
71/1283 NEP-6	SIS	13	Assistance in selection and preparation of industrial projects (2/1 m/m expert services)	-	48.0	22.4	-
				-	2.6	-	-
			<u>Industrial administration</u>				
NEP/07/2/3	NP	7	Industrial legislation (1/3 m/m fellowship)	-	-	2.2	-
			<u>Promotion of export-oriented industries</u>				
NEP/14/2/5	NP	14	Industrial export promotion (1/3 m/m fellowship)	-	-	2.2	-
			<u>Engineering industries</u>				
71/1253 NEP-5	SIS	1	Industrial preventive maintenance (1/12 m/m expert services)	-	-	24.0	-
71/1303 NEP-7	SIS	1	Maintenance and repair of agricultural machinery (1/3 m/m expert services)	-	-	6.0	-
71/1305 NEP-8	SIS	1	Design, production and marketing of agricultural machinery and implements (1/6 m/m expert services)	-	-	12.0	-

Project number	Source of funds	Start	Project title and project description	Expenditure (in '000 US\$) up to 1971	Planned expenditure (in '000 US\$) beyond 1971
MEP/02/2/2	MF	2	Ore dressing and beneficiation (1/12 m/m fellowship)	-	5.8
70/910 MEP-2	SIS	6	Assistance in development of vegetable oil and feed-stuff industries (1/6 m/m expert services)	12.0	-
70/1063 MEP-4	SIS	6	Assistance in development of textile industry (1/5 m/m expert services)	6.0	5.0

Metallurgical industries

MEP/02/2/2 MF 2 Ore dressing and beneficiation (1/12 m/m fellowship)

Food and light industries

70/910 MEP-2 SIS 6 Assistance in development of vegetable oil and feed-stuff industries (1/6 m/m expert services)

70/1063 MEP-4 SIS 6 Assistance in development of textile industry (1/5 m/m expert services)

P a k i s t a n

The main industries in Pakistan are jute, textiles, sugar, fertilizers, cement, paper and board, chemicals, metals, food processing, sporting goods and surgical equipment. A beginning has been made in the production of steel, machine tools and petrochemicals, and plans for an integrated steel mill of a million tons capacity are being finalized. There are several plants manufacturing spare parts for automobiles. Increasing use of the abundant natural gas has been planned and machinery manufacturing is to start soon. In 1970, the manufacturing sector contributed 12 per cent of the GNP. In the draft Fourth Five-year Plan (1970-1975), the industrial sector has been allocated 3.3 per cent of the resources.

UNIDO has been providing assistance in the following areas: (i) pre-investment and pre-feasibility studies and

surveys; (ii) strengthening the existing industrial institutions or establishing new ones; and (iii) planning, programming and implementation of industrial projects, through help to government and semi-government organizations. Under the first category, the petrochemical and fertilizer sectors were thoroughly surveyed within the framework of a UNDP/SF project on pre-investment studies for promotion of the fertilizer and petrochemical industries, in which FAO co-operated. Studies were also undertaken in the iron, steel and engineering sectors and on wood-based and small-scale industries. Further studies are planned for the leather, vegetable oil and pulp and paper industries. Under the second category of assistance are the centres for the proposed development and modernization of the jute and textile industries; these centres are to be established under the UNDP/SF programme. Preliminary studies

ASIA AND THE FAR EAST (cont'd)

have been carried out for the establishment of a centre for metallurgical technology. Assistance was also provided to the Pakistan Council of Scientific Industrial Research with a view to reorientating the industrial research programme in the country. Under the third category, the Central Planning Commission and the Planning Department were assisted in planning and programming.

During 1971, a total number of 16 experts and short-term consultants recruited by UNIDO served in Pakistan for a total of 122 man/months. In addition, 14 fellowships were awarded to national personnel. A subcontracting arrangement valued at \$33,600 was concluded for one project and equipment worth \$77,000 was delivered.

As a member of the Regional Co-operation for Development (RCD), Pakistan participated in a project for assistance in

Pakistan (cont'd)

the establishment of heavy engineering and electrical industries in the RCD countries. Pakistan also participated in the First and Second Asian Meetings to Promote Specific Industrial Projects, held by UNIDO in Manila and Singapore, respectively. In 1971, 12 Pakistan nationals participated in training programmes, seminars and workshops organized by UNIDO. One Pakistan specialist served in 1970 as a UNIDO expert in another developing country.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. UNIDO publications are distributed directly to 11 governmental and professional institutions in the country. An Industrial Development Field Adviser is posted at Islamabad.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Industrial planning and programming</u>							
PAK/68/8	TA	12	Industrial programming mission (3/95 m/m expert services; 2/24 m/m fellowships)	92.8	48.0	66.4	-
PAK/68/11	TA	12	Assistance to the Pakistan Industrial Credit and Investment Corporation (1/48 m/m expert services)	25.3	24.0	15.0	-
PAK/69/19	TA	12	Investment promotion and supplies (1/12 m/m expert services)	-	-	30.0	-
PAK/71/7	TA	12	Industrial development (1/12 m/m fellowship)	-	6.4	-	-
PAK/71/22	TA	12	Industrial planning (1/12 m/m fellowship)	-	6.9	-	-
<u>Industrial standardization and research</u>							
PAK/70/16	TA	8	Introduction of metric system (1/12 m/m expert services)	-	10.0	17.5	-

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Industrial standardization and research (cont'd)</u>							
69/653 PAK-6	SIS	8	Assistance in conducting survey on industrial research (1/6 m/m expert services)	-	12.0	-	-
<u>Industrial management and training</u>							
PAK/70/38	TA	15	Preparatory mission on in-plant training of engineers (1/1 m/m expert services)	-	2.0	-	-
69/499 PAK-5	SIS	10 (1,2)	Survey to formulate recommendations for co-ordination and efficient utilization of the steel and iron and various engineering industries (5/17 m/m expert services)	17.3	-	17.0	-
<u>Engineering industries</u>							
PAK/69/8	TA	1	Assistance in the field of repair and maintenance (1/14 m/m expert services)	24.1	12.0	-	-
PAK/01/2/3	RP	1	Mechanical industries (1/12 m/m fellowship)	-	-	5.8	-
VC/00/1	GTF	1	Repair shops and mobile repair units for agricultural machinery (2/6 m/m expert services; equipment; miscellaneous)	-	20.9	112.1	-
<u>Metallurgical industries</u>							
PAK/02/2/4	RP	2	Iron and steel production (1/12 m/m fellowship)	-	-	5.8	-
VC/817 PAK-12	SIS	2	Assistance in establishing a centre for metallurgical technology (1/3 m/m expert services)	-	4.0	2.0	-



## Pakistan (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
PAK-48 (cont'd)			<u>Industrial management and training (cont'd)</u> the industry through research and new product development.				beyond 1973
PAK-62	SP	10	Duration: 3 years Cotton textile industry development centre, Karachi - Purpose: to assist the Government in establishing a cotton textile industry development centre in Karachi and a sub-centre in Iacca, to increase productivity in order to make the cotton textile industry more competitive, especially in export markets. The Plan of Operation has been prepared, and the project manager is under recruitment. UNDP: \$599,000 Gov't: \$481,000	-	10.1	243.7	222.9
71/1183 PAK-11	SIS	10	Duration: 3 years Industrial management advisory and problem solving mission on woollen and worsted textile industry (consulting firm; 0.5 m/m expert services) UNDP: \$723,700 Gov't: \$809,000	-	18.5	11.0	-
PAK/69/9	TA	6	<u>Food and light industries</u> Wood panel industry (3/12 m/m expert services)	22.0	4.0	-	-
PAK/70/55	TA	6	Food processing (1/2 m/m fellowship)	-	2.1	-	-
PAK/06/2/6	RP	6	Leather processing (1/12 m/m fellowship)	-	-	5.8	-
70/1019 PAK-13	SIS	6	Assistance to leather industries (1/6 m/m expert services)	-	-	12.0	-
70/1020 PAK-15	SIS	6	Assistance to leather footwear and leather goods industries - advisory mission (1/6 m/m expert services)	-	-	12.0	-

ASIA AND THE FAR EAST (cont'd)

Pakistan (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> beyond 1971
			<u>Small-scale industry</u>		
PAK/11/2/7	RP	11	Small-scale industries promotion (1/6 m/m fellowship)	-	3.4
PAK-59	IPP	11	Assistance to the West Pakistan Small Industries Corporation in establishing light engineering service centre in small industries estate, Sukkur	-	(100.0) (500.0)

PAPUA AND NEW GUINEA

In the current National Development Programme (1968/1969 to 1972/1973) rapid progress is envisaged in agriculture, livestock, forestry, manufacturing, transport and telecommunications. Secondary and service industries are expanding for the local market. Industries at Port Moresby include the manufacture of paint, gases and concrete; the processing of twist tobacco; brewing; boat building; and the assembly of electrical appliances.

In 1971, assistance was provided by UNIDO in the sericulture industry, indigenous entrepreneurship and the pulp and

paper industry. Three UNIDO experts and short-term consultants served in Papua and New Guinea for a total of 5.5 man/months. The UNIDO Regional Adviser made a number of recommendations for technical assistance, which are under consideration. Papua and New Guinea participated in the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971. A Senior Industrial Development Field Adviser posted in Manila serves Papua and New Guinea.

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> beyond 1971
			<u>Industrial management and training</u>		
PAP/69/2	TA	10	Development of indigenous entrepreneurship (1/18 m/m expert services)	14.7	22.5



Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
PAP/69/3	TA	4	Processing of tropical hardwood for pulp and paper (1/12 m/m expert services)	29.9	2.0	-	-
PAP/69/5	TA	11	Development of sericulture industry (1/8 m/m expert services)	13.6	2.0	-	-

Pulp and paper industrySmall-scale industryThe Philippines

The manufacturing sector in the Philippines grew by 2.8 per cent in 1970. In the industrial sector the main objective of the Four-year Development Plan (1971-1974) is the development of intermediate and capital goods manufacturing industries and export-oriented industries that utilize local raw materials. The Plan also stresses the expansion of industries with high employment potential. The private sector, with institutional support from the Government, plays a predominant role in industry. The main industries are food and beverages, textiles, paper, leather and footwear, metalworking, machinery, electrical goods, furniture and rubber, and wood and cane products.

In 1970, a UNIDO programming mission visited the Philippines and prepared a tentative programme for UNIDO long-term assistance to the country. Another mission visited the country in 1971 and updated the programme. UNIDO has provided technical assistance in industrial estates, quality control

and industrial fermentation. Several feasibility studies have been undertaken for the expansion of the shoe, furniture and textile industries. UNIDO is also assisting the country in the establishment of a metal industry development centre through a three-year IMDP/SF project. This centre will serve the needs of the metal industry in technical advisory services, quality control, management and technical training. Other fields of current UNIDO assistance include industrial research, regional planning, industrial data banking and testing and standardization. During 1971, nine UNIDO experts and short-term consultants served in the Philippines for 35 man/months. In addition, seven fellowships were awarded to national personnel. Subcontracting arrangements valued at \$45,000 were concluded for two projects. In 1971, 29 Filipino nationals participated in training programmes, seminars, workshops and expert group meetings organized by UNIDO. The Government provided host facilities for the First Asian Meeting to Promote

ASIA AND THE FAR EAST (cont'd)

The Philippines (cont'd)

Specific Industrial Projects, held by UNIDO in 1970 and also participated in the Second Asian Meeting held in Singapore in 1971. Two Filipino specialists served as UNIDO experts in other developing countries.

automotive components and fertilizer industries, the Asian coconut community, and a regional industrial survey.

The Country Programme for 1972 through 1976 has been submitted to the UNDP Governing Council for approval in January 1972. The Government of the Philippines has established a National Committee for UNIDO. A Senior Industrial Development Field Adviser is posted in Manila.

The Philippines is participating in regional and inter-regional projects: ASEAN co-operation in the development of

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>

Industrial planning and programming

PHI/12/1/7	RP	12	Industrial programming (1/3 m/m fellowship)	-	2.4	-	-	-
PHI/12/2/3	RP	12	Industrial programming and project planning - industrial studies promotion (1/3 m/m fellowship)	-	-	2.2	-	-
PHI/12/2/4	RP	12	Industrial policies (1/6 m/m fellowship)	-	-	3.4	-	-
PHI/13/1/5	RP	13	Investment promotion (1/3 m/m fellowship)	-	3.2	-	-	-
67/254 PHI-3	SIS (1,4,14)		Assistance to the Board of Investments in industrial economy, mechanical engineering, chemical engineering and market analysis (4/52 m/m expert services)	76.4	34.0	3.0	-	-
69/666 PHI-9	SIS	12	Economic and industrial development machinery - planning (1/2 m/m expert services)	-	-	4.0	-	-
70/1121 PHI-22	SIS	12	Regional industrial planning (1/12 m/m expert services)	-	-	24.0	-	-
71/1311 PHI-27	SIS	12	Assistance in the establishment of a central industry data bank (consulting firm)	-	-	31.0	-	-

Industrial standardization and research

PHI/08/2/2	RP	8	Industrial institutions - organization and administration of industrial services (1/3 m/m fellowship)	-	-	2.2	-	-
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The Philippines (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971-1973	
<u>Industrial standardization and research (cont'd)</u>						
71/1402 PHI-30	SIS	8	Assistance to National Development Bank (NSDW) in strengthening industrial research activities (1/3 m/m expert services)	-	-	6.0
71/1432 PHI-32	SIS	8	Industrial standards (1/12 m/m expert services)	-	-	24.0
71/1433 PHI-33	SIS	8	Planning and designing of testing and analytical laboratories at the National Institute of Science and Technology (NIST) (1/12 m/m expert services)	-	-	24.0
<u>Industrial management and training</u>						
PHI/10/1/6	RP	10	Industrial management - organization and administration of industrial information centre (1/3 m/m fellowship)	-	3.2	-
70/806 PHI-13	SIS	10	Assistance to four-week seminar in value analysis (consulting firm)	0.6	6.4	-
70/850 PHI-15	SIS	10	Organization and management quality schemes in manufacturing industries (2/4 m/m expert services)	-	8.0	-
71/1376 PHI-28	SIS	10	Assistance to the productivity and development centre in quality control (1/12 m/m expert services)	-	-	24.0
71/1377 PHI-29	SIS	10	Assistance to the productivity and development centre in the implementation of its value analysis programme (1/12 m/m expert services)	-	-	24.0
<u>Promotion of export-oriented industries</u>						
PHI/14/1/4	RP	14	Industrial export promotion (2/6 m/m fellowships)	-	5.7	-

ASIA AND THE FAR EAST (cont'd)

The Philippines (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
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Promotion of export-oriented industries (cont'd)

71/1224 PHI-26	SIS	14			12.2	-	-
			<p>Product adaptation for export-oriented industries            Stage I - product adaptation, 3/2.25 m/m expert services;            Stage II - participation of experts in export product consultation, 4/2 m/m expert services, and shipping of selected samples to markets of developed countries.</p>				

Engineering industries

PHI/01/2/1	EP	1			3.4	-	-
			<p>Diesel engines (1/6 m/m fellowship)</p>				

Metallurgical industries

PHI-30	EP	1		30.1	24.7	315.4	386.9	66.2
			<p>Metal industries development centre -  <u>Purpose:</u> to assist the Government in establishing a centre to serve the needs of the metals industry in the fields of technical advisory services, quality control, management and technical training; and to guide the Government in formulating policies for the expansion of the industrial sector of the national economy.            The Plan of Operation was signed in December 1970. The project manager began his assignment in October 1971.</p>					

Approved: June 1969      UNIP: \$ 913,600  
 Operational: January 1971      Gov't: \$1,000,000  
 Duration: 3 years

Chemical and petrochemical industries

71/1166 PHI-24	SIS	6						4.0
			<p>Yeast and alcohol technologist (1/2 m/m expert services)</p>					

## The Philippines (cont'd)

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Chemical and petrochemical industries (cont'd)</u>							
71/1417 PHI-21	SIS	4	Mission to assess the status of consumer speciality chemicals (1/0.75 m/m expert services)	-	1.6	-	-
	IPF	4	Pulp and paper industry	-	-	(20.0)	(30.0)
	IPF	5	Plastic products industry	-	-	(20.0)	(30.0)
<u>Light industries</u>							
70/818 PHI-19	SIS	6	Assistance to the furniture and woodworking industry (2/8 m/m expert services)	-	16.0	-	-
71/1145 PHI-23	SIS	6	Assistance to the Philippine Textile Research Institute in the finishing of textiles and in quality control (2/12 m/m expert services)	-	-	24.0	-
	IPF	6	Shoe and leather industry	-	-	(20.0)	(30.0)
	IPF	6	Wood and furniture industry	-	-	(20.0)	(30.0)
	IPF	6	Textile and garment industry	-	-	(20.0)	(30.0)
<u>Small-scale industry</u>							
PHI/11/1/8	RP	11	Small-scale industry promotion (1/3 m/m fellowship)	-	2.0	-	-
	IPF	11	Assistance to the Institute of Small-scale Industries of the University of the Philippines	-	-	(15.0)	(45.0)
71/1172 PHI-25	SIS	11 (6)	Assistance to the Institute of Small-scale Industries in small- and medium-scale industry development and in garment production and quality control (3/18 m/m expert services)	-	-	36.0	-
<u>Packaging industry</u>							
71/1236 PHI-21	SIS	17	Packaging exploratory mission (1/1 m/m expert services)	-	-	2.0	-

ASIA AND THE FAR EAST (cont'd)

The Republic of Korea

The Second Five-year Plan (1967-1971) of the Republic of Korea envisaged an annual growth rate of 11.7 per cent and emphasis, as in the first plan, was placed on import substitution. Large-scale investments in iron and steel, petrochemicals, fertilizers and cement were planned or completed with the aim of eliminating most of these imports by 1971.

The Republic of Korea has received assistance from UNIDO in the fields of electronics, adaptation of export-oriented industries, quality control and free trade zones. Projects in the pipeline include: assistance to the Fine Instruments Centre (KOR-15), with the collaboration of UNESCO; establishment of an engineering centre; a technical development centre; and assistance to the Medium Industry Bank (KOR-39), with the collaboration of ILO. During 1971, four UNIDO experts and

short-term consultants served in the Republic of Korea for a total of 10.5 man/months. In addition, two fellowships were awarded to national personnel. Subcontracting arrangements valued at \$98,000 were concluded for two projects.

The Republic of Korea is participating in a number of regional and interregional projects and also participated in the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971. Moreover, 10 Korean nationals participated in training programmes, seminars, workshops and expert group meetings organized by UNIDO.

Korean authorities have established a National Committee for UNIDO. A Senior Industrial Development Field Adviser posted in Manila also serves the Republic of Korea.

Project number	Source of funds	Source	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Industrial planning and programming</u>							
KOR/12/1/1	RP	12	Industrial project evaluation (2/12 m/m fellowships)	-	7.5	-	-
71/1202 KOR-12	SIS	13	Assistance in the organization of an investment promotion week (1/1 m/m expert services)	-	-	2.5	-
KOR-39 Phase II	IFF	13	Assistance to Extension Services Department in the Medium Industry Bank, Seoul - Purpose: to assist in project identification and feasibility studies (executing agency: ILO). Duration: 3 years UNDP: \$ 744,600 Gov't: \$1,304,000	-	-	(50.0)	(100.0) (100.0)
<u>Industrial standardization and research</u>							
70/1101 KOR-10	SIS	8	Exploratory mission on applied industrial research (1/1 m/m expert services)	-	-	-	3.5

The Republic of Korea (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Years</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - beyond <u>1973</u>
<u>Promotion of export-oriented industries</u>					
KOR/14/2/2	RP	14	Industrial export promotion (1/6 m/m fellowship)	-	3.4
70/1135 KOR-11	SIS	14	Assistance in the establishment and organization of an export processing zone (consulting firm)	79.6	16.4
71/1238 KOR-13	SIS	14	Assistance in connexion with a joint mission on the introduction of the generalised system of preferences (3/10.5 m/m expert services) (UNIDO/UNCTAD)	-	5.6
71/1302 KOR-14	SIS	14	Exploratory mission on product adaptation and development of export-oriented industries (1/0.5 m/m expert services)	2.0	-
71/1405 KOR-11 Phase II	SIS	14	Assistance in the establishment and organization of an export processing zone (1/0.5 m/m expert services)	1.9	-
<u>Industrial management and training</u>					
KOR/10/2/1	RP	10	Industrial management techniques (1/6 m/m fellowship)	-	3.4
<u>Engineering industries</u>					
KOR/69/16	TA	1	Manufacture of knitting machines (1/6 m/m fellowship)	13.8	3.7
69/565 KOR-4+5	SIS	1	Assistance to the Korea Productivity Centre on quality control and maintenance and repair services (2/12 m/m expert services)	21.9	4.0
69/673 KOR-7	SIS	1	Assistance in the manufacture of electronic equipment and components (2/16 m/m expert services)	12.5	3.0
<u>Metallurgical industries</u>					
KOR/1/4	TA	2	Iron and steel industry (4.48 m/m fellowships)	-	25.6

ASIA AND THE FAR EAST (cont'd)

The Republic of Korea (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Building materials industry</u>								
KOR/69/16	TA	3	Ceramics production (1/6 m/m fellowship)	-	-	3.7	-	-
<u>Chemical and petrochemical industries</u>								
KOR/69/16	TA	5	Plastics processing (1/6 m/m fellowship)	-	-	3.7	-	-
69/630 KOR-8	SIS	4	Exploratory mission to assess the Korea Salt Corporation (consulting firm)	-	2.0	-	-	-

The Republic of Viet-Nam

The main industries in the Republic of Viet-Nam are textiles, cement, particle board, glass and rice milling. An urea fertilizer factory is under construction, and sugar mills are being planned.

During 1971, one UNIDO expert served for eight months, and two fellowships were awarded to national personnel. One specialist from the Republic of Viet-Nam served as a UNIDO expert in another developing country. It is foreseen that UNIDO will provide assistance in 1972 in maintenance and repair and packaging.

The Republic of Viet-Nam is participating in a regional industrial survey for Asian co-operation, a ferro-alloy indus-

trial study in the Mekong countries and a feasibility study for the establishment of iron and steel industries in the Mekong Committee countries. Further, two nationals of the Republic of Viet-Nam participated in a training programme and a workshop organized by UNIDO. National representatives participated in the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971.

The Republic of Viet-Nam has established a National Committee for UNIDO. An Industrial Development Field Adviser posted in Bangkok serves the Republic of Viet-Nam.



## ASIA AND THE FAR EAST (cont'd)

## The Republic of Viet-Nam (cont'd)

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
VIE/69/2	TA	12	<u>Industrial planning and programming</u> Assistance in industrial development planning (1/12 m/m expert services)	-	18.0	7.5	-
			<u>Petrochemical industry</u>				
VIE/05/1/1	RP	5	Assistance to the fertilizer industry (1/6 m/m fellowship)	-	3.5	-	-
VIE/05/1/3	RP	5	Fertilizer industry (1/6 m/m fellowship)	-	4.5	-	-
VIE/05/2/2	RP	5	Assistance in fertilizer production (3/9 m/m fellowships)	-	-	6.6	-
			<u>Packaging industry</u>				
71/1328 VIE-1	SIS	17	Exploratory mission on packaging techniques (1/0.3 m/m expert services)	-	-	1.2	-

ASIA AND THE FAR EAST (cont'd)

S i n g a p o r e

In 1966, the main industrial sectors in Singapore included food, wood and cork, chemicals and chemical products, petroleum and coal products, shipbuilding and repair, metal products and machinery. The public sector in Singapore plays an important role in industrial development. The Second Five-year Development Plan (1966-1970) provided for increased government expenditure for establishing new industries and the expansion of existing ones, particularly the export-oriented industries. In 1969, 62.5 per cent of the total public sector expenditure (about 24 per cent of the GNP) was allotted to economic development. Of this expenditure, 28.6 per cent was earmarked for the industrial sector. The latest estimates indicate that the manufacturing sector accounts for 19 per cent of the GNP.

UNIDO has continued to assist the Economic Development Board and its various divisions such as the Light Industries Service Unit and the Engineering Industries Development Agency. UNIDO is associated with ILO in the implementation of a UNDP/SF

project at the Metal Industries Development Centre, which is also a unit of the Economic Development Board. UNIDO assistance has covered, inter alia, the following fields: food processing, woodworking, packaging, maintenance and repair, management accounting, industrial design, leather processing and shoe manufacturing. During 1971, eight experts served in Singapore for a total of 55 man/months, and two fellowships were awarded to national personnel. Nine representatives of Singapore participated in seminars, workshops and expert group meetings. Singapore hosted the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in 1971.

It is envisaged that during 1972 a draft country programme for the period up to 1976 will be prepared for submission to the UNDP Governing Council for approval in January 1973. A National Committee for UNIDO has been established. An Industrial Development Field Adviser posted in Bangkok serves Singapore.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
SIN/68/1	TA	12 (10,1)	Advisory assistance to the Economic Development Board (3/92 m/m expert services)	115.8	19.3	-	-
<u>Industrial planning and programming</u>							
SIN/08/1/1	IF	8	Applied industrial research (2/24 m/m fellowships)	-	12.0	-	-
SIN/08/2/3	IF	8	Quality control and metrology (1/4 m/m fellowship)	-	-	2.6	-
<u>Industrial standardization and research</u>							

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
SIN-7	SF	1	<p><u>Engineering industries</u></p> <p>Metal industries development centre -  <u>Purpose:</u> to provide four experts: an industrial development adviser (technical), an industrial development adviser (financial), a machine tool maintenance and repair expert, and a metrological specialist. (Executing agency: ILO)</p> <p><u>Approved:</u> June 1967 <u>UNEP:</u> \$1,145,100  <u>Operational:</u> July 1969 <u>Gov't:</u> \$1,670,000  <u>Duration:</u> 6 years</p>	-	11.0	43.9
70/724 SIN-16	SIS	1	<p><u>Metallurgical industries</u></p> <p>Assistance in special industries project studies (1/1 m/m expert services)</p>	-	-	3.0
SIN/02/2/1	MF	2	<p><u>Industrial management and training</u></p> <p>Metal treatment (1/12 m/m fellowship)</p>	-	-	5.8
71/1150 SIN-21	SIS	16	<p><u>Packaging industry</u></p> <p>Training in application of quality control techniques (1/12 m/m expert services)</p>	-	-	24.0
70/746 SIN-19	SIS	17	<p><u>Engineering industries</u></p> <p>Exploratory mission (2/1.5 m/m expert services)</p>	1.1	-	2.0

ASIA AND THE FAR EAST (cont'd)

S I N G A P O R E (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Food and light industries</u>								
SIM/70/8	TA	6	Assistance to woodworking industry (1/10 m/m expert services)	-	14.0	10.0	-	-
SIN/06/1/3	NP	6	Assistance to woodworking industry (1/2 m/m expert services)	-	4.5	-	-	-
SIN/06/2/2	NP	6	Assistance to wood processing and food industries (2/12 m/m fellowships)	-	-	6.8	-	-
69/609 SIN-13	SIS	6	Assistance to the food processing industry (1/7 m/m expert services)	8.0	6.0	-	-	-
<u>Small-scale industry</u>								
70/715 SIN-15	SIS	11	Product development for export and the tourist market (1/12 m/m expert services)	12.1	12.0	-	-	-

T h a i l a n d

Industrial development in Thailand is being increasingly reoriented towards promotion of export-oriented industries. The processing of agricultural products and locally available raw materials to semi-finished and finished products with export potential has received strong support from the Government. The primary responsibility for industrial development has been with the private sector, with government support in such industrial promotion policies and programmes as the creation of tax incentives and the establishment of industrial estates and export processing zones.

The UNIDO assistance requested by the Government during 1971 reflected the above-noted situation. Emphasis was placed on the study of specific industries having export potential and based on, or related to, locally available raw materials. This included advisory assistance to the Board of Investments in rubber, food processing, textiles and leather. The Phase II activities of the UNDP/SF project at the Technological Research Institute are concentrated on the research and promotion of extraction of vegetable oils from soyabean, ground-nuts, cotton seed, castor and rice bran and the extraction residues

Thailand (cont'd)

(meals). Assistance in the marketing of handicrafts and small-scale industry products and industrial standardization was also given.

UNIDO assisted in the preparation of the 1971 to 1976 Development Plan by rendering advice on problems of target setting at macro- and micro-levels, the identification of strategic industries, the elaboration of specific policies, and the assessment of future export-oriented industries. During 1971, a total of 15 experts and short-term consultants served in Thailand for 103 man/months. In addition, 14 fellowships were awarded to national personnel. Thailand participated in the Second Asian Meeting to Promote Specific Industrial Projects, held by UNIDO in Singapore in 1971.

Thailand has participated in a number of regional projects and meetings, particularly those undertaken by ECAFE, the Asian Industrial Development Council (AIDC) and the Mekong Committee. As Bangkok is the seat of ECAFE, Thailand has offered host facilities to various meetings relating to industrial development. Sixteen Thai nationals participated in training programmes, seminars, workshops and expert group meetings organized by UNIDO.

UNIDO has co-operated with: FAO in the study of rice, kenaf, rubber, soyabean, pulp and paper, agricultural implements and fertilizers; ILO in the promotion and marketing of small-scale industry products and handicrafts, management and training in the textile industry and promotion of small-scale industries; WHO in the study of industrial wastes and effluents control; UNESCO in setting up a technical documentation centre and an instrument repair and calibration centre with the Applied Scientific Research Corporation of Thailand; UN Office of Technical Co-operation in the field of statistics; and UNCTAD in the field of trade and export promotion. American and Australian bilateral assistance has been associated in research programmes conducted under the auspices of the UNIDO technological research institute project.

The Country Programme will be submitted to the UNDP Governing Council for approval in January 1973. The Thai Government has set up a National Committee for UNIDO. An Industrial Development Field Adviser is posted in Bangkok.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	beyond 1973
				up to 1971	1971		
THA/70/22	TA	12	Regional industrial planning (1/6 m/m fellowship)	-	4.0	-	-
THA/12/2/2	RP	12	Industrial programming and project planning - industrial programming (1/12 m/m fellowship)	-	-	3.5	-
70/1122 THA-24	SIS	12	Industrial development programming (1/6 m/m expert services)	-	12.0	-	-

Industrial planning and programming

ASIA AND THE FAR EAST (cont'd)

Thailand (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
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Industrial standardization and research

THA-37 SF 8 Thai industrial standards institute -  
Purpose: to assist the Government in establishing a Thai industrial standards institute as the national authority for preparing and certifying industrial standards. The project manager began his assignment in January 1971. The Plan of Operation has been prepared.

13.8 36.6 112.0 14.6 -

THA-39 SF 8 Technological Research Institute, Bangkok (Phase II of THA-16, which was completed in October 1970) -  
Purpose: to assist the Government in strengthening the Technological Research Institute, particularly to serve the needs of industry. As a result of the THA-16 project it has been possible to identify several fields of activity within the Institute's competence which offer possibilities for increased industrial application. Further assistance is being concentrated in these fields, particularly in food technology, chemical industry, vegetable oil extraction and industrial applications and surveys. The project manager began his assignment in February 1971. The Plan of Operation was signed in September 1971.

- 103.1 202.1 171.0 35.6

70/958 THA-21 SIS 9 Product design index and certification system - industrial information and documentation (1/4 m/a expert services)

- - 8.0 - -

Approved: January 1971 UNDP: \$541,000  
Operational: September 1971 Gov't: \$287,000  
Duration: 2 1/2 years

Thailand (cont'd)

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Promotion of export-oriented industries</u>							
THA/70/42	TA	14	Export-oriented industry (1/12 m/m fellowship)	-	-	6.4	-
THA/14/1/1	EP	14	Export-oriented industries (1/12 m/m fellowship)	-	7.1	-	-
70/1009 THA-23	SIS	14	Assistance in the establishment of an industrial free zone oriented towards export production (consulting firm)	-	7.5	16.5	-
71/1310 THA-32	SIS	14 (11)	Industrial design and export markets and procedures (factory crafts and small-scale industry projects) (2/24 m/m expert services)	-	-	48.0	-
<u>Engineering industries</u>							
THA/01/1/2	EP	1	Engineering industries - electrical equipment (1/9 m/m fellowship)	-	2.6	-	-
70/840 THA-19	SIS	1	Assistance to the electronic industry - manufacture of radio parts (1/4 m/m expert services)	-	8.0	-	-
71/1162 THA-26	SIS	1	Manufacture of farm and artisan tools (consulting firm)	-	-	13.0	-
71/1163 THA-27	SIS	1	Manufacture of small internal combustion engines (consulting firm)	-	-	26.0	-
<u>Metallurgical industries</u>							
71/1416 THA-34	SIS	2	Assistance in quality control for the production of hot-dipped tin plate (1/6 m/m expert services)	-	-	12.0	-
9010-70	FIT	2	Technological research institute (Danish associate expert; 1/12 m/m expert services)	13.4	8.0	-	-
9012-70	FIT	2	Technological research institute (Danish associate expert; 1/24 m/m expert services)	14.5	24.0	6.0	-

ASIA AND THE FAR EAST (cont'd)

Thailand (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Stage</u>	<u>Project title and major description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>Planned expenditure (in '000 US\$) 1972 1973 beyond 1973</u>
THA/03/1/3	NP	3	<u>Building materials industry</u> Construction and building materials (3/10 m/m fellowships)	- 8.0	- - -
70/718 THA-13	SIS	4	<u>Chemical and petrochemical industries</u> Development of chemical industries (1/6 m/m expert services)	- 12.0	- - -
70/800 THA-15	SIS	4	Industrial effluents and trade waste disposal (consulting firm)	2.2 20.5	- - -
71/1277 THA-31	SIS	4	Assistance to the Government pharmaceutical organization (1/6 m/m expert services)	- -	13.5 - -
71/1335 THA-33	SIS	5	Plastics market survey (1/3 m/m expert services)	- -	6.0 - -
THA/70/24	TA	6	<u>Food and light industries</u> Sugar processing techniques (1/6 m/m fellowship)	- -	3.7 - -
THA/06/2/1	NP	6	Food industries (1/12 m/m fellowship)	- -	5.8 - -
71/1149 THA-25	SIS	6	Assistance to the Board of Investments in policy measures and identification of investment opportunities - food and garment industry (2/6 m/m expert services)	- 12.0	- - -
71/1235 THA-29	SIS	6	Sugar refinery technology (1/2 m/m expert services)	- -	4.0 - -
71/1252 THA-30	SIS	6	Assistance to the textile industry (1/6 m/m expert services)	- 14.0	- - -
71/1440 THA-36	SIS	6	Silk manufacture (1/6 m/m expert services)	- -	12.0 - -
THA-40	ITP	6	Establishment of a textile institute	- -	(80.0) (300.0) (900.0)



THAILAND (cont'd)

Project number	Source of funds	Start	Project title and service description	Expenditure (in '000 US\$)	Planned expenditure (in '000 US\$)
				up to 1971	1972 1973 beyond 1973

Small-scale industry

THA/70/23	TA	11	Development of small-scale industries (1/12 m/a expert services)	-	8.0	20.0	-
THA/71/16	TA	11	Industrial estates development (1/12 m/a fellowship)	-	-	6.4	-
THA-41 Phase II	IPP	11	Industrial services institute - Purpose: to assist the Government in promoting the development and growth of small- and medium-scale industry by strengthening the facilities of the existing institute and establishing a branch of the institute north of Chiang Mai. Associated agency: ILO.	-	-	(538.0)	(393.7) (218.0)

Duration: 4 years      UNDP: \$1,249,700  
Gov't: \$1,175,400

Packaging industry

70/990 THA-22	SIS	17	Consultant on the establishment of a national packaging centre (1/2 m/a expert services)	-	7.5	-	-
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ASIA AND THE FAR EAST (cont'd)

Regional (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
<u>Building materials industry</u>					
AFE/69/15	TA	3	Meeting of the chiefs of research and development organizations (2/2 m/m expert services; 12/6 m/m fellowships; miscellaneous)	- 20.0	- - -
<u>Chemical and petrochemical industries</u>					
PAO/UNIDO/70/69	TA	4	Asian newsprint study (consultant)	-	1.4 - -
AFE/05/1/3	RP	5	Petrochemical industry (1/12 m/m expert services)	- 27.0	- - -
AFE/05/2/2	RP	5	Petrochemical industry (1/12 m/m expert services)	-	27.0 - -
<u>Food and light industries</u>					
AFE/06/1/4	RP	6	Food processing (1/12 m/m expert services)	- 23.6	- - -
AFE/06/2/3	RP	6	Food processing (1/12 m/m expert services)	-	27.0 - -
<u>Small-scale industry</u>					
REG-176	SP	15	Asian regional project for employment promotion, Bangkok (executing agency: ILO) (1/30 m/m expert services)	-	33.3 33.3 15.5
AFE/70/29	TA	11	Seminar on financing small-scale industries (3/1 m/m expert services; 14/4 fellowships; miscellaneous)	- 15.0	- - -

EUROPE AND THE MIDDLE EAST

Albania

The economy of Albania is based primarily on agriculture, with sheep, wool, hides and skins, tobacco and wine as important export commodities. The extent of mineral resources is largely unknown, but chrome, coal, copper, iron, oil, natural gas and some asphalt and bitumen have been extracted and exported. One of the aims of the present five-year plan is to raise the value

of industrial output to more than 50 per cent of total production. According to official statistics, national income since 1960 has grown at an average rate of 7 per cent annually.

In 1971, the Government submitted to UNIDO two fellowship requests. UNIDO documents are distributed to two governmental and professional institutions in Albania.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				1971	1971	1972	1973
ALB/01/2/1	RP	1	Electrical engineering (1/6 m/m fellowship)	-	-	3.4	-
ALB/02/1/1	RP	1	Gas containers production (2/6 m/m fellowships)	-	4.4	-	-
				up to			beyond
				1971	1971	1972	1973
							1973

Industrial training

Industrial development in Bulgaria has been concentrated primarily in the power, machinery, metal and chemical sectors, with especially rapid growth in electricity and electronics, agricultural machinery, shipbuilding and some consumer goods. Industrial production, more than half of which is in capital goods, accounted for about half of the national income. The five-year plan for 1971 through 1975 foresees a major expansion of heavy industry (iron and steel industry and non-ferrous metals) and automation. Industrial production will continue to increase, with particular emphasis on the development of the chemical industry (especially fertilizers), power supply (the first nuclear power station is scheduled for completion in 1974), metallurgy, food processing and machine building. Bulgaria's major exports in 1968 were in machinery and equipment, followed by processed foodstuffs and beverages.

The main areas of assistance provided by UNIDO in 1971 were in the development of the packaging industry and the strengthening and reorganization of the Research Institute for Instrument

Bulgaria

Design in Sofia (a UNDP/SF project). Technical assistance to Bulgaria in 1971 included individual fellowships for the training of technical personnel and 16 fellowships to Bulgarian nationals. Six UNIDO experts served for 23 man months in Bulgaria. Two Bulgarian nationals served as UNIDO experts in other developing countries.

Bulgaria has participated in a number of regional and international projects. Two Bulgarian nationals participated in training programmes organized by UNIDY and six in a regional group meeting. Bulgaria was the host country for the UNIDY Regional Seminar on Machine Tools in Developing Countries in Europe and the Middle East.

The Country Programme in Bulgaria for 1971-1975, under UNDP Governing Council for Africa and Latin America, UNIDY allocations are distributed to the following governmental and professional institutions.

EUROPE AND THE MIDDLE EAST (cont'd)

BULGARIA (cont'd)

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
BUL-3 Phase I	SP		<p style="text-align: center;"><u>Instrument design</u></p> <p>1 Research institute for instrument design, Sofia - <b>Purpose:</b> to assist the Government in strengthening and reorganizing the research institute for instrument design. The project manager was posted in December 1970. In 1971, four short-term consultants were under recruitment; the fellowship component under implementation; and the equipment component delivered.</p> <p>Approved: January 1971 UNDP: \$298,100 Duration: 1½ years Gov't: equiv. \$550,000</p>	3.5	99.8	93.0	73.7
Phase II	IFF		<p>1 Research institute for instrumental design, Sofia - <b>The Government included the extension of the project in its country programming.</b></p> <p>UNDP: \$605,000 Gov't: equiv. \$485,000</p>	-	-	(100.0)	(305.0) (200.0)
70/777 BUL-5	SIS	17	<p><u>Packaging industry</u></p> <p>17 Assistance to the development of the packaging industry (3/8 m/m expert services; \$2,500 equipment)</p>	4.3	10.0	-	-
	IFF	17	<p>17 Research institute of packaging - <b>Purpose:</b> to assist in the establishment of the research institute to improve packaging techniques, both for export use (relating to transporting, climatic conditions, loading and unloading), and for domestic use (relating to self-service shops and supermarkets).</p>	-	-	(120.0)	(240.0) (100.0)

UNDP: \$469,000  
Gov't: leva 2,525,000

EUROPE AND THE MIDDLE EAST (cont'd)

B u l g a r i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Summary</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Training programme</u>						
BUL/71/32	TA	5	-	1.4	-	-
BUL/71/33	TA	6	-	1.4	-	-
BUL/71/34	TA	5	-	1.4	0.3	-
BUL/06/1/1	EP	6	-	2.2	-	-
BUL/06/2/2	EP	6	-	-	2.2	-
	IPP	16	-	-	(50.0)	(150.0)
<u>Pulp and paper industries</u>						
BUL/71/13	TA	4	-	-	2.0	-
BUL/71/14	TA	4	-	-	1.4	-
BUL/04/2/1	EP	4	-	-	2.2	-
71/1320 BUL-6	SIS	4	-	6.0	-	-
<u>Industrial information</u>						
IPP		9	-	-	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

C Y P R U S

Mining and tourism are the two sectors which contribute the most to the economy of Cyprus. The rate of industrial growth achieved during the last few years is very promising and during the Third Five-year Plan (1972 through 1976), the contribution of manufacturing to the GDP should increase from the present rate of 11.5 per cent to 14.5 per cent.

The main areas of UNIDO assistance are in small-scale industries, wood processing, packaging, export development, the food industry, industrial legislation, paper mills and forest

industries. Seven UNIDO experts served for a total of 40 man/months in Cyprus during 1971. Two nationals of Cyprus have participated in UNIDO training programmes and one national received a fellowship. UNIDO documents and publications are distributed to 38 governmental and professional institutions in Cyprus.

The Country Programme is scheduled for presentation to the UNDP Governing Council for approval in January 1972. An Industrial Development Field Adviser stationed in Beirut covers Cyprus.

Project number	Source of funds	Grant	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
CYP/70/5	TA	12	Industrial project evaluation - continuation of SIS-project 70/772 (1/12 m/m senior adviser)	-	10.0	17.5	-
CYP/71/1	TA IFF	12	Industrial programming - continuation of SIS-project 70/772 (1/7 m/m senior industrial adviser)	-	-	17.5 (12.5)	- (12.5)
CYP/12/1/2	RP	12	Training in industrial planning and programming (1/9 m/m fellowship)	-	4.6	-	-
70/772 CYP-9	SIS	15 (12)	Industrial survey and programming assistance (4/24 expert services)	13.0	40.0	-	-
	IFF	12	Industrial research and development - Purpose: to assist in strengthening the Research and Industrial Development Section of the Ministry of Commerce and Industry in preparation of industrial programmes; and to advise on industrial policies and regulations.	-	-	(20.0)	(200.0)
							(400.0)

Gov't: equiv. \$1,264,000



<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972 1973 beyond 1973
70/722 CYP-10	SIS	6	<u>Wood, pulp and paper industry</u> Preparation of call for tenders, evaluation of offers and final reception for an integrated wood processing plant (consulting firm)	1.2 16.1	- - -
70/1097 CYP-15	SIS	4	Exploratory mission to prepare terms of reference to assist in establishing a new paper mill (1/1 m/m expert services)	- 1.5	- - -
70/935 CYP-12	SIS	14	<u>Exploratory missions to assess the needs of selected industries</u> Assistance in industrial export promotion techniques (1/3 m/m expert services)	- 6.0	- - -
70/1029 CYP-13	SIS	6	Exploratory mission to identify basic problems of the food industry (1/1 m/m expert services)	- 1.5	- - -
70/1036 CYP-14	SIS	17	Survey on packaging (1/2 m/m expert services)	- 4.0	- - -
71/1419 CYP-16	SIS	7	Exploratory mission - industrial legislation adviser (1/1 m/m expert services)	- 2.0	- - -
CYP/10/1/1	RP	10	<u>Small-scale industry</u> Organization and management of small-scale industries (1/6 m/m fellowship)	- 3.4	- - -
CYP/11/1/3	RP	11	Small-scale industry adviser (1/9 m/m expert services)	14.2 7.3	- - -
CYP/06/2/1	RP	6	<u>Light industries</u> Assistance to textile industries (1/6 m/m expert services)	- - -	- - -

EUROPE AND THE MIDDLE EAST (cont'd)

Czechoslovakia

In 1965, industry in Czechoslovakia contributed 42 per cent of the total investment funds and accounted for 57 per cent of the national income, 33 per cent of the basic equipment and about 40 per cent of the workers. The main sectors of industry are **metallurgy, metalworking, vehicle production, chemicals and petrochemicals, textiles and wood and food processing.**

The Government requested technical assistance in the form of highly specialized fellowships in the various sectors of industry. Czechoslovakia participated in many regional and interregional

projects and has served twice as the host country for the In-plant Group Training Programme in the Field of Diesel Engines and will do so again in 1972. It is planned to repeat this training programme in Czechoslovakia in 1973 and 1974. During 1971, 15 Czechoslovak specialists and two consulting firms served as UNIDO experts in other developing countries.

Czechoslovakia has established a National Committee for UNIDO. UNIDO documents and publications are distributed to governmental and professional institutions.

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Industrial training</u>								
CZE/70/6	TA	1	Training in mechanical, electrical and other engineering industries (33/39 m/m fellowships)	22.2	14.4	-	-	-
		6	Management in textile industry (3/3 m/m fellowships)	-	4.4	-	-	-
		1 (5)	Plastics in mechanical engineering (1/1 m/m fellowship)	-	1.4	-	-	-
		1	Mechanical engineering process (1/2 m/m fellowship)	-	1.1	-	-	-
		2	Copper refining (1/2 m/m fellowship)	-	1.9	-	-	-
		2	Steel industries (4/4 m/m fellowships)	-	3.2	-	-	-
		1	Technology of semiconductors (2/2 m/m fellowships)	-	1.6	-	-	-
		4	Paper and cardboard production (1/1 m/m fellowship)	-	0.8	-	-	-

G r e e c e

In spite of rapid industrialization in recent years, the economy of Greece remains oriented primarily towards agriculture. The industrial sector now employs about one fifth of the economically active population and in 1969 accounted for about 28 per cent of the GNP as compared with 25 per cent in the previous year. Recent growth has shifted away from the traditional light industries to such heavy industries as basic metals, paper, metallurgy, iron and steel, minerals, shipbuilding, chemicals and textiles. Major expansions have also taken place in transport equipment and processed foods.

In accordance with the government policy of promoting industry in the less developed regions of the country, assistance has

been provided through a UNDP/SP project in the establishment of an industrial area and estate near Salonika. A short-term consultant assisted the Government in assessing the feasibility of increasing pesticide production and formulation. Another planned project, with five experts, was approved in 1971. In addition, one fellowship was awarded and two Greek nationals participated in training programmes organized by UNIDO. One national from Greece served as a UNIDO expert in another developing country.

During 1970, OECD was one of the major donors of technical assistance to Greece. Bilateral, multilateral and UNDP programmes have concentrated on providing high-level advisory and research services to the agricultural industry and education in Greece.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973

Industrial area and industrial estate near Salonika

**Purpose:** to assist in planning, setting up and operating an industrial area and a free customs zone near Salonika. The project manager began his assignment in February 1971 and the project became fully operational with signature of the Plan of Operation in April 1971. Initial studies have been made by a firm under subcontract.

0.8 124.2

UNDP: \$ 711,200  
Gov't: equiv. 20,494,000

Petrochemical industry

Assistance in the production and formulation of pesticides (1/1 m/m expert services)

EUROPE AND THE MIDDLE EAST (cont'd)

G r e e c e (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
GRE/07/2/1	RP	7	<u>Industrial management and training</u> Industrial legislation (1/3 m/m fellowship)	-	-	2.2	-	-
GRE/10/1/1	RP	10	Management techniques (1/3 m/m fellowship)	-	2.2	-	-	-

H u n g a r y

At present, industry in Hungary accounts for 41 per cent of the national income and 38 per cent of the GDP. About 80 per cent of all exports are of industrial origin and 33 per cent of the total labour force is working in industry. The main industries of Hungary are metalworking, metallurgy, electrical energy, mining, light industry and food industry.

In 1971, the Government requested technical assistance in the form of fellowships in various specialized fields, and nine such fellowships were awarded. Nine Hungarian specialists served as UNIDO experts in other developing countries.

A Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1972. Hungary has established a National Committee for UNIDO. UNIDO documents and publications are distributed to 57 Hungarian governmental and professional institutions.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
HUN/69/1	TA IPF	5	<u>Industrial training</u> Production of artificial leather (10/34 m/m fellowships)	2.2	8.0	11.0	-	-

Project number	Source of funds	Stages	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
HUN/69/2	TA	6	Industrial training (cont'd) Technical development of the knitting industry (4/13 m/m fellowships)	-	3.2	4.1	-
HUN/69/3	TA	6	Technical development of household textiles (4/13 m/m fellowships)	2.2	2.0	3.9	-
HUN/69/5	TA IPF	10	Use of computers in industry (20/80 m/m fellowships)	-	1.4	-	-
HUN/69/7	TA	1	Automation of machine sets for production of paint (1/3 m/m fellowship)	-	-	(72.3)	-
HUN/69/10	TA	2	Modern high-speed procedures for the forming of aluminium (1/3 m/m fellowship)	-	1.4	2.3	-
HUN/69/11	TA	5	Selection of products in petrochemical plants (1/3 m/m fellowship)	-	-	1.4	-
HUN/70/10	TA	2	Aluminium industry development (3/9 m/m fellowships)	-	-	4.2	-
HUN/03/2/1	RP	3	Production of building materials and components (1/3 m/m fellowship)	-	-	2.2	-
HUN/14/1/1	RP	14	Export-oriented industries (1/3 m/m fellowship)	-	2.2	-	-
	IPF	1	Development of machinery-production engineering	-	-	(14.0)	(13.4)
	IPF	1	Heavy current equipment	-	-	(15.0)	(16.0)
	IPF	1	Studying electronic equipment, communication systems and production of electrical and electronic components	-	-	(10.0)	(14.7)
	IPF	3	Advanced structural solutions and building methods - introduction of light structural building methods	-	-	(12.0)	(14.4)
	IPF	5	Petrochemical processing techniques - production of synthetic yarn and plant protectives	-	-	(15.0)	(16.0)
	IPF	17	Material handling engineering within the plants; packaging technology	-	-	(11.0)	(14.7)

EUROPE AND THE MIDDLE EAST (cont'd)

H u n g a r y (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grants</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
71/1318 HUN-2 and 71/140 HUN-3	SIS	4	<u>Pulp and paper industry</u> Exploratory mission and follow-up for assistance to the Dunaujváros paper mill (two visits by a consultant for 1 month)	-	1.6	-	-	-

I c e l a n d

Iceland has recovered from a severe depression in 1967 and 1968, when there was a sharp decline in national income due to a crisis in the fishing industry. After a growth of 3 per cent in 1969 and an increase of over 10 per cent in 1970, the economy was expected to continue its expansion in 1971.

The main areas of UNIDO assistance to Iceland are in market research and distribution analysis for fishery products.

improvement of shipyard operations and development of export-oriented industries. Three experts from UNIDO served in Iceland for a total of eight man/months during 1971. UNIDO documents and publications are distributed to eight Icelandic governmental and professional institutions.

<u>Project number</u>	<u>Source of funds</u>	<u>Grants</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
70/938 ICE-5	SIS	1	<u>Shipyard operations</u> Assistance in the improvement of small shipyard operations (1/2 m/m expert services)	-	4.0	-	-	-
70/940 ICE-7	SIS	3	<u>Building materials industry</u> Feasibility study of industrial uses of perlite and pumice (1/2 m/m expert services)	-	4.0	-	-	-

Project number	Source of funds	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
			up to 1971	1971-1973	
71/12/6 ICE-10	SIS	<p>Promotion of export-oriented industries</p> <p>Development of export-oriented industries (7/49 m/m expert services; 6/36 m/m fellowships and short-term consultants; consulting firms). Associated agency: UNCTAD</p>	-	8.0	1972-1973
					beyond 1973

Iraq

The economy of Iraq is based primarily on oil and agriculture. In 1966, crude oil extraction accounted for 35 per cent of the GDP, agriculture for 19 per cent and industry for 11 per cent.

The expansion of the industrial sector started after 1958 with the creation of the government-owned Industrial Bank and with an increase in the budgetary resources for construction of industrial plants. In 1960, construction was begun on a number of large industrial establishments in such sectors as textiles, sugar, chemical fertilizers, pharmaceutical products, electro-technical equipment and agricultural machinery. Most of the bigger industrial establishments are government-owned and operate under the State Organization for Industry.

UNIDO assistance to Iraq has been mainly in the development of steel and allied industries and in the fields of maintenance and repair facilities, packaging techniques, electric cable industries and export promotion. Iraq has participated in a number of regional and interregional projects. As a member of the Industrial Development Centre for Arab States (IDCAS), Iraq participated in various national projects and regional meetings organized by UNIDO in co-operation with UNIDO. Moreover, in 1971, 12 Iraqis participated in training programmes organized by UNIDO.

An Industrial Development Field Advisor posted in Baghdad also serves Iraq.

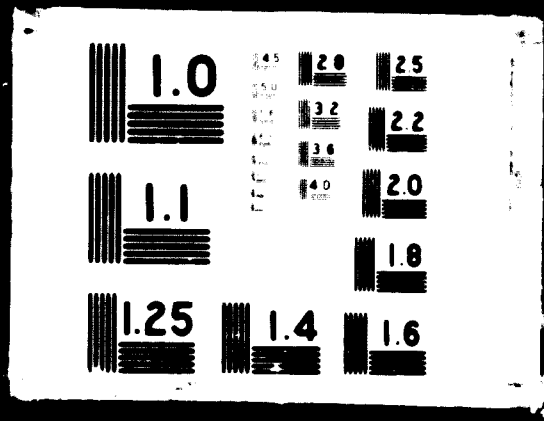


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EUROPE AND THE MIDDLE EAST (cont'd)

I r a g (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973 beyond 1973</u>	
IRQ/69/7	TA	13	<u>Industrial planning and financing</u> Assistance to the Industrial Bank (1/18 m/m expert services)	9.4	24.0	-	-	
IRQ/12/1/3	RP	12	Industrial planning (1/2 m/m fellowship)	-	0.9	-	-	
IRQ/13/1/2	RP	13	Industrial policies and financing - investment promotion (1/6 m/m fellowship)	-	3.4	-	-	
71/1213 IRQ-11	SIS	6	Exploratory mission for the establishment of agro-industries in the Greater Musayib area (1/3 m/m expert services)	-	4.0	2.0	-	
<u>Steel industry</u>								
70/842 IRQ-10	SIS	2	Small-scale steel foundry project (1/6 m/m expert services)	-	-	12.0	-	
70/871 IRQ-12	SIS	2	Merchant steel rolling mill project (1/6 m/m expert services)	-	8.0	5.5	-	
70/872 IRQ-13	SIS	2	Electric steel melting project (1/6 m/m expert services)	-	13.5	-	-	
70/873 IRQ-14	SIS	2	Steel market and demand projections (1/4 m/m expert services)	-	9.5	-	-	
<u>Fertilizer industry</u>								
IRQ/05/1/1	RP	5	Fertilizer industry (1/12 m/m fellowship)	-	6.6	-	-	
<u>Construction and building materials industry</u>								
IRQ/03/2/1	RP	3	Construction and building materials industries - refractory products manufacturing (1/6 m/m fellowship)	-	-	3.4	-	

EUROPE AND THE MIDDLE EAST (cont'd)

I r a g (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
IRQ/04/2/2	RP	4	<u>Chemical industry</u> Chemical, pharmaceutical and pulp and paper industries - chemical products manufacturing (1/2 m/m fellowship)	-	-	5.8	-
69/634 IRQ-5	SIS	1	<u>Engineering industries</u> Assistance to the electronics industry (1/5 m/m expert services)	5.5	6.0	-	-
70/981 IRQ-17	SIS	1	Assistance to the electric cable industry (1/4 m/m expert services)	-	8.0	-	-
70/983 IRQ-16	SIS	1	Agricultural machinery design, development and product performance evaluation (1/12 m/m expert services)	-	8.0	16.0	-
71/1380 IRQ-19	SIS	6	<u>Light industries</u> Assistance to the Mosul Particle Board Factory (1/2 m/m expert services)	-	-	4.0	-
IRQ/71/6	TA	10	<u>Industrial management</u> ECE Study Tour - application of computers as an aid to management (1/1 m/m fellowship)	-	0.8	-	-
IRQ 14/1/4	RP	14	<u>Promotion of export-oriented industries</u> Industrial export promotion (2/12 m/m expert services)	-	25.7	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

I r a q (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
				up to 1971	1972 1973 beyond 1973
			<u>Promotion of export-oriented industries (cont'd)</u>		
70/1059 IRQ-9	SIS	17	Techno-economic and marketing study of packaging and distribution of dates (consulting firm)	- 19.0	16.0 - -
			<u>Repair and maintenance</u>		
70/706 IRQ-7	SIS	1	Exploratory mission on maintenance and repair facilities, needs and services (consulting firm)	6.8	6.0 - -

I s r a e l

In 1969, Israel derived 26 per cent of its national income from industry, and the relative contribution of industry has continued to rise. The main industries are textiles, diamond polishing, processing of vegetable oils, chemicals and food processing; but heavy industries are also being established. Israeli industry relies heavily on imported raw materials and is seeking to increase exports through the development and utilization of advanced technologies.

One of the main areas of UNIDO assistance has been the upgrading of skills and the provision of programme guidance for applied industrial research within the framework of a UNDP/SF project, Centre for Industrial Research. UNIDO has also provided assistance in the areas of: metalworking, including metal finishing and materials handling; quality control for furniture and

textile industry; industrial management; industrial automation; ceramic and silicate research; and pharmaceutical research. Technical assistance to Israel includes individual fellowships and group training, with 11 fellowships being awarded to national personnel in 1971. Four participants were sent to various training programmes organized by UNIDO. A total of 11 experts and short-term consultants recruited by UNIDO served in Israel for 28 man/months. Three Israeli specialists served in 1971 as UNIDO experts in other developing countries.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. UNIDO publications are distributed to 42 governmental and professional institutions in the country.

EUROPE AND THE MIDDLE EAST (cont'd)

I s r a e l (cont'd)

Project number	Source of funds	Grants	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
ISR-11	SF	8	<p><u>Industrial research and technology</u></p> <p>Industrial Research Centre -  <b>Purpose:</b> to assist in promoting the application of findings of pure research to industrial production as a means of accelerating industrial development'. The work of the Centre is devoted to food technology, plastics, textiles, fibres and some aspects of inorganic and organic chemistry, primarily significant for potential export industries. Eight experts and six short-term consultants have assisted and given perspective to the Centre's research programme. Thirty fellows have been given an opportunity to upgrade their skills through working at or visiting research institutions abroad. The Centre itself is well on the way to becoming an effective institution capable of providing impressive and useful results.</p> <p>Approved: January 1964 UMDP: \$1,266,500                      Operational: April 1966 Gov't: \$3,970,000                      Duration: 5 years</p>	632.3	125.1	389.9	46.9	-
ISR/70/20	TA	8	Technological forecasting (1/3 m/m expert services)	-	-	-	7.5	-
0038-71	FIT	8	Government's cash counterpart contribution towards cost of equipment of SF-project ISR-11	579.0	96.5	200.9	-	-
<u>Food and light industries</u>								
00508 ISR-4	SIS	6	Assistance to Government Mint (1/2 m/m expert services)	-	-	4.0	-	-
70/863 ISR-8	SIS	6	Quality control in the textile industry (1/2 m/m expert services)	-	4.0	-	-	-
70 914 ISR-6	SIS	6	Fruit and vegetable preserves industry - problems of packaging and dispatching (1/6 m/m expert services)	-	12.0	-	-	-
70/969 ISR-7	SIS	6	Assistance in the quality control of furniture (1/2 m/m expert services)	-	4.0	-	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

I s r a e l (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Training in selected industries</u>								
ISR/70/5	TA	1	Training of engineers in advanced industrial automation (2/8 m/m expert services; 2/6 m/m fellowships)	-	10.4	14.9	-	-
ISR/71/16	TA	5	Use of phosphoric acid for the production of fertilizers and derivatives (1/2 m/m fellowship)	-	2.3	-	-	-
ISR/01/1/1	RP	1	Engineering industries - electronic industry (1/3 m/m fellowship)	-	2.7	-	-	-
ISR/01/2/1	RP	1	Engineering industries - maintenance an' repair	-	-	2.2	-	-
ISR/14/1/2	RP	14	Export promotion (1/1 m/m fellowship)	-	0.4	-	-	-
<u>Industrial policies and financing</u>								
ISR/13/2/2	RP	13	Industrial policies and financing - project financing (1/2 m/m fellowship)	-	-	1.8	-	-
<u>Industrial management</u>								
69/635 ISR-9	SIS	10	Industrial management - introduction of modern management techniques (1/12 m/m expert services)	-	8.0	16.0	-	-
<u>Engineering and metallurgical industries</u>								
71/1381 ISR-10	SIS	2	Follow-up assistance to the metal-finishing industry (consultant in metal-finishing processes; 1/1 m/m expert services; 1/12 m/m fellowships)	-	5.0	2.0	-	-
69/670 ISR-5	SIS	1	Materials handling equipment consultancy services (1/6 m/m expert services)	5.5	-	6.0	-	-

Jordan

Although the manufacturing sector in Jordan accounts for but a small proportion of the GDP, there are indications that this sector will grow. The main industries in Jordan are cement, petroleum products, leather processing, liquid batteries and beverages.

One of the main types of UNIDO assistance has been the evaluation of industrial projects and the preparation of feasibility studies for new industries within the framework of the UNDP/SF project at the Centre for Industrial Development. Following a temporary lapse in the activities of the Centre, the project was started up again in November 1971 with an industrial survey and the preparation of an industrial development programme. A ceramics feasibility study was carried out as a UNDP/SF project at the Centre with the co-operation of USAID. Technical assistance has also been given in the fields of steel rolling, maintenance and repair, fertilizer and printing industries and for

the training of national personnel in general industrial subjects. During 1971, a total of four experts and short-term consultants served in Jordan for a period of 15 man/months, and two Jordanian specialists served as UNIDO experts in other developing countries. In addition, two fellowships were awarded to national personnel. Subcontracting arrangements valued at \$150,000 were concluded for one project. Jordan has participated in a number of regional and interregional projects. As a member of the Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational projects undertaken by IDCAS in co-operation with UNIDO.

The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. UNIDO publications are distributed to 27 governmental and professional institutions in the country. An Industrial Development Field Adviser stationed in Beirut also covers Jordan.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
				up to			beyond
				<u>1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>

Industrial planning and programming

JOR-13	SF	12	Centre for industrial development, Amman - <b>Purpose:</b> to assist, in association with ILO, the Government to establish a centre for industrial development. The centre will provide advice and assistance to the Jordan Development Board in the formulation of industrial plans; prepare surveys of the industrial structure; prepare feasibility studies; formulate and evaluate industrial projects and establish product standards and quality control. Before September 1970 UNIDO sent 10 experts and ILO sent 5 experts to the project; 6 counterparts received fellowships. UNIDO intends to continue the project with a subcontracted survey of industrial	702.1	141.2	195.7	-
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EUROPE AND THE MIDDLE EAST (cont'd)

Jordan (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$) up to 1971</u>	<u>Planned expenditure (in '000 US\$) 1972-1973</u>	<u>beyond 1973</u>
JOR-13 (cont'd)			<p><u>Industrial planning and programming (cont'd)</u></p> <p>establishments which begins in the last quarter of 1971. After the survey a four-man UNIDO team, together with Jordanian counterparts, will advise and assist in the preparation and initial implementation of an industrial development programme for the country.</p> <p>Approved: January 1967 UNDP: \$1,153,100 Operational: July 1968 Gov't: \$ 532,000 Duration: 4 years</p> <p>Industrial development banking techniques (2/12 m/m fellowships)</p>			
JOR/71/11	TA	13		7.4	-	-
			<u>Repair and maintenance</u>			
JOR/01/1/2	RP	1	Engineering industries - repair and maintenance (1/6 m/m expert services)	12.0	-	-
JOR/01/2/1	RP	1	Engineering industries - repair and maintenance (2/6 m/m fellowships)	-	4.4	-
71/1231 JOR-11	SIS	1	Assistance in repair of industrial machinery and equipment (1/6 m/m expert services)	-	12.0	-
			<u>Small-scale industry</u>			
JOR/71/10	TA	11	Industrial estates (1/6 m/m expert services)	4.0	10.0	-
			<u>Construction and building materials industries</u>			
JOR/03/1/1	RP	3	Construction and building materials - building materials production (2/12 m/m fellowships)	-	4.8	-



K u w a i t

The production of oil and petrochemicals, including fertilizers, is the mainstay of Kuwait's economy. In 1969/1970, manufacturing industries accounted for 3.7 per cent of the GDP.

The main areas of assistance provided to Kuwait by UNIDO have been in industrial planning, industrial policies, industrial standardization and small-scale industry. Technical assistance included individual fellowships and group training for government personnel. During 1971, a total of three experts and short-term consultants recruited by UNIDO served in Kuwait for 24 man/months, and one Kuwaiti specialist served as a UNIDO expert in another developing country.

In January 1971, the Industrial Development Field Adviser prepared a preliminary long-term programme of technical assis-

tance in the industrial field for Kuwait. This preliminary programme will be finalized in the light of the draft industrial development programme that has just been prepared. Kuwait has participated in a number of regional and interregional projects. As a member of the Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational projects undertaken by IDCAS in co-operation with UNIDO. In 1971, the Government hosted the Second Symposium on Industrial Development in Arab States, which was organized by UNIDO in co-operation with IDCAS.

The Kuwaiti authorities have established a National Committee for UNIDO. UNIDO publications are distributed to 19 governmental and professional institutions in the country. An Industrial Development Field Adviser is posted in Kuwait.

Project number	Source of funds	Year	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
							beyond 1973
			<u>Industrial planning and financing</u>				
KUM/13/2/1	RP	13	Industrial policies and financing - industrial development banking (1/3 m/m fellowship)	-	-	2.2	-
70/832 KUM-6	SIS	12	Industrial planning mission (3/13.25 m/m expert services)	-	26.6	-	-
	IPF	12	Bureau of industrial studies and services	-	-	(50.0)	(200.0)
			<u>Promotion of export-oriented industries</u>				
71/1212 KUM-8	SIS	14	Feasibility study for establishing an export-oriented free zone (1/2 m/m expert services)	-	-	4.0	-
			<u>Industrial standardization and quality control</u>				
KUM/68/2	TA	8	Standardization and quality control (1/17 m/m expert services)	11.4	24.0	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Lebanon

In 1968 the industrial sector in Lebanon accounted for 13 per cent of the GDP, with textile and food industries contributing a major share to this sector. Investment promotion efforts and the eventual establishment of industrial free zones are expected to result in a significant increase of exports.

One project assisted by UNIDO aims at the preparation of a long-term industrial development programme for Lebanon, and a second project deals with the immediate promotion of selected industrial projects. Assistance has also been given in food industries and the packaging of both fresh and processed fruits and vegetables. Technical assistance to Lebanon includes the training of government personnel through individual fellowships and group training. During 1971, a total of nine experts and short-term consultants served in Lebanon for 22 man/months. In addition, one fellowship was awarded to a Lebanese national and two Lebanese nationals participated in training activities organized by UNIDO. One Lebanese specialist served as a UNIDO expert in another developing country.

In December 1969, a UNIDO headquarters mission prepared a long-term programme for technical assistance in the field of industry in Lebanon. The projects in this programme are at various stages of planning and implementation. The Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973.

Lebanon has participated in a number of regional and international projects. As a member of the Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational projects undertaken by that organization in cooperation with UNIDO. The Government provided host facilities for a UNESCO/UNIDO/IDCAS Working Group of Experts on Industrial Project Planning, for a Working Party on Industry Profiles and for a UNESOB/UNIDO/IDCAS Interregional Seminar on Selected Aspects of Industrial Policy. An Industrial Development Field Adviser is posted in Beirut.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Industrial planning</u>							
LEB/69/5	TA	12	Industrial development (1/3 m/m expert services)	-	6.0	-	-
LEB/12/1/1	RP	12	Industrial planning and programming - planning and management of industrial fairs (1/6 m/m fellowship)	-	2.6	-	-
<u>Investment promotion</u>							
71/1206 LEB-9	SIS	13	Second exploratory mission for assistance in investment promotion (1/0.25 m/m expert services)	-	0.6	-	-
71/1333 LEB-10	SIS	13 (14)	Technical assistance in the promotion of industrial investment and export (8/18 m/m expert services; consulting firm)	-	14.0	36.0	-

EUROPE AND THE MIDDLE EAST (cont'd)

Lebanon (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972	<u>Planned expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Promotion of export-oriented industries</u>							
LEB/14/2/1	RP	14	Industrial export promotion (1/6 m/m fellowship)	-	3.4	-	-
71/1332 LEB-6 Phase I	SIS	14	Technical assistance in the establishment of an industrial free zone (1/3 m/m expert services)	-	6.0	-	-
<u>Packaging industry</u>							
70/963 LEB-4	SIS	17	Techno-economic study on plastics packaging for processed fruits and vegetables (1/4 m/m expert services)	-	8.0	-	-
70/964 LEB-5	SIS	17	Modernization of existing fresh fruit and vegetable packaging system - packaging and packing methods (1/2 m/m expert services)	-	4.0	-	-
<u>Agricultural machinery and implements</u>							
70/1113 LEB-7	SIS	1	Agricultural machinery design, development, adaptation and testing (1/4 m/m expert services)	-	8.0	-	-
70/1114 LEB-8	SIS	1	Organization and operation of facilities for repair and maintenance of agricultural machinery and implements (1/2 m/m expert services)	-	4.0	-	-
<u>Food industry</u>							
LEB/70/9	TA	6	Sunflower processing: products and by-products (1/2 m/m expert services; 1/3 m/m fellowship)	-	4.0	2.4	-
71/1360 LEB-11	SIS	6	Exploratory mission on sugar industry development (1/0.5 m/m expert services)	-	0.9	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Malta

Economic growth in Malta has been maintained at a high level in recent years. The GNP grew at an average rate of 11.5 per cent per annum during the first two years of the Third Development Plan although the target for the five-year period as a whole was 9.4 per cent per annum.

UNIDO technical assistance to Malta has been limited in the past, and only one project in light industries has been implemented. In line with the government policy of indus-

trial expansion, however, assistance has been requested in industrial management, quality control and standards, small-scale industries, standards and measures and jewellery.

A Country Programme is scheduled for submission to the UNDP Governing Council for approval in January 1973. UNIDO documents and publications are distributed to 12 Maltese governmental and professional institutions.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
MAT/11/1/1	RF	11	Organization and management of small-scale industries (1/6 m/m fellowship)	-	3.4	-
MAT/06/2/1	RF	6	Food industries development (1/2 m/m expert services)	-	-	4.0
						beyond 1973
						1973

Small-scale industry

Food industry

EUROPE AND THE MIDDLE EAST (cont'd)

People's Democratic Republic  
of Yemen

To the total GNP of the People's Democratic Republic of Yemen, the industrial sector contributes 10 per cent. The petroleum refining industry accounts for four fifths of this 10 per cent. The Government has been making efforts to expand the industrial sector by establishing a textile plant and a glass factory.

UNIDO has assisted in the formulation of technical proposals and recommendations for the establishment of a composting plant at Aden. Another project being assisted by UNIDO is the development of an industrial free zone at Aden. It is envisaged that the free zone will encourage the utilization of local and imported resources and thus give rise to the establishment of export-oriented industries. Another project is in the field of maintenance and repair. Equipment valued at \$30,000 has been delivered for the training of local technicians. In addition, one fellowship was awarded to national personnel.

UNIDO also participated in the preparation of a request for a UNDP/SF project, Pilot Training and Demonstration Centre for Leather Products, which has been submitted to UNDP for approval.

The People's Democratic Republic of Yemen has participated in a number of regional and interregional projects. As a member of the Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational projects and regional meetings organized by IDCAS in co-operation with UNIDO.

An Industrial Development Field Adviser posted in Cairo had been serving the People's Democratic Republic of Yemen, but recently a new Industrial Development Field Adviser posted in Kuwait took over this function.

Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		
				up to 1971	1972	Planned expenditure beyond 1973
SOY/01/1/2	RP	1	Engineering industries - repair of industrial machinery and equipment (1/6 m/m expert services)	-	5.8	-
SOY/01/2/1	RP	1	Engineering industries maintenance and repair (1/12 m/m fellowship)	-	5.8	-
TO/045 SOY-12	SIS	1	Organization and operation of maintenance services and facilities (1/6 m/m expert services)	-	-	12.0
<u>Repair and maintenance</u>						

EUROPE AND THE MIDDLE EAST (cont'd)

People's Democratic Republic  
of Yemen (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
SOY-14	IFF	6	<u>Leather industry</u>  Pilot demonstration plant for the manufacture of leather footwear and leather products - <u>Purpose:</u> to assist in the establishment of a demonstration centre in Aden for the manufacture of leather footwear and other leather products. Associated agency: FAO.  Duration: 3 years  UNDP: 300,000 Gov't: 213,720	-	(80.0) (150.0) (70.3)
SOY/11/1/1	BP	11	<u>Small-scale industry</u>  Small-scale industry development and industrial management (1/4 m/m fellowship)	-	4.3
70/1070 SOY-11	SIS	14	<u>Promotion of export-oriented industries</u>  Assistance in establishment of an industrial free zone (1/4 m/m expert services)	-	8.0
70/756 SOY-7	SIS	5	<u>Chemical and fertilizer industries</u>  Composting of town's waste at Aden (consulting firm)	-	20.7
71/1180 SOY-13	SIS	4	Techno-economic and market study for solar salt production in the Aden area (consulting firm)	-	10.0

EUROPE AND THE MIDDLE EAST (cont'd)

People's Democratic Republic  
of Yemen (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	1971	1972	1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
71/1293 SOY-14	SIS	1 (2)	<u>Engineering and metallurgical industries</u> Pre-feasibility study on possibilities of producing agricultural implements and tools, other metal and foundry products (2/2 m/m expert services)	-	-	4.0	-	-

Poland

Poland has a well-developed industrial sector. In 1967, industry accounted for 54 per cent of the national income. The main industries are: metallurgy; metalworking; chemical, petrochemical and fertilizer production; and shipbuilding. The processing industries account for almost 90 per cent of the industrial output, and the engineering and metallurgical industries account for 29 per cent.

Poland concentrated its request for assistance on fellowships (86 during 1971), particularly those for advanced techniques and management systems. In the last five years Poland

has served as host country for the Higher Training Course in Textile Industries and plans to do so again in 1972 and in the future. In 1971, six Polish specialists served as UNIDO experts in other developing countries. Two Polish nationals participated in training programmes organized by UNIDO.

The Country Programme is scheduled to be presented to the UNDP Governing Council for approval in June 1972. Poland has established a National Committee for UNIDO. UNIDO documents and publications are distributed to 15 governmental and professional institutions in Poland.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	1971	1972	1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
POL/10/1/1	RP	10 (6)	<u>Industrial management</u> Industrial management and training - building industry management and management techniques (3/18 m/m fellowships)	-	7.2	-	-	-
POL/10/1/2	RP	10	Industrial management (14/63 m/m fellowships)	-	-	-	-	18.9

EUROPE AND THE MIDDLE EAST (cont'd)

Poland (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>
69/560 POL-3	SIS	10	<u>Industrial management (cont'd)</u> Assistance in reorganization and improvement of management in existing and newly designed plants (consulting firm)	28.1	81.0	20.0	-
POL/69/1	TA	5	<u>Industrial training</u> Industrial technology in petrochemical plants (67/213 m/m fellowships)	96.3	0.9	-	-
POL/69/20	TA	10	Computing techniques (16/93 m/m fellowships)	31.2	1.4	-	-
POL/70/1	TA	2	Iron and steel production (47/194 m/m fellowships)	17.1	6.4	23.0	18.0
POL/70/2	TA	1	Engineering industries (51/196 m/m fellowships)	33.2	23.9	8.2	-
POL/70/3	TA	4	Advanced training in the chemical industry (21/72 m/m fellowships)	16.1	7.2	-	-
POL/70/5	TA	6	Light industry (11/57 m/m fellowships)	3.6	8.4	6.0	-
POL/70/23	TA	1	EDP systems in machine building industries (2/12 m/m fellowships)	-	3.6	-	-
POL/70/24	TA	2	Automation of oil and gas recovery and processing (1/3 m/m fellowships)	-	1.4	-	-
POL/70/25	TA	4	Problems of boilers for burning waste (1/3 m/m fellowships)	-	0.9	-	-
POL/71/2	TA	1	Ignition in light systems and alternators (1/3 m/m fellowships)	-	0.9	-	-
POL/71/3	TA	5	Use of plastics in gas industry (1/3 m/m fellowships)	-	0.9	-	-
POL/71/7	TA	4	Hydrogeology of sulphur, rock salt and potash ores (1/2 m/m fellowships)	-	0.9	-	-



EUROPE AND THE MIDDLE EAST (cont'd)

Poland (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Industrial training (cont'd)</u>								
POL/71/8	TA	6	Industrial development machinery - leather industry (1/6 m/m fellowship)	-	1.8	-	-	-
POL/01/2/1	NP	1	Electrical and electronic industries (2/12 m/m fellowships)	-	-	6.8	-	-

Qatar

The Government of Qatar has established a policy of industrial diversification to reduce the country's dependence on oil. Although industrialization is at an early stage of development, a fertilizer plant, a flour mill, a shrimp processing plant and a cement plant have already been established.

A team of three experts surveyed the industrial sector of Qatar and prepared a long-range plan for industrial development. UNIDO assistance is expected to develop along the lines of this

plan. In addition, five experts have been engaged for pre-feasibility studies in the following industries: aluminum, steel rolling, petrochemicals, solar salt and building materials. During 1971, a total of six experts and short-term consultants served in Qatar for ten man/months.

An Industrial Development Field Adviser stationed in Kuwait covers Qatar.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> 1973	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Industrial programming</u>								
70/1075 QAT-1	SIS	15	Industrial survey and programming mission (3/6 m/m expert services)	-	4.0	8.0	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Q a t a r (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grants</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
9028-71	FIT	2	Industrial development - aluminium and steel industries (5/13 m/m expert services)	-	13.0	27.7	-	-

Metallurgical industries

R o m a n i a

Romania has a modern industrial-based economy that includes well-developed metallurgical, chemical and petroleum processing sectors. During the period 1966 to 1970, the average annual industrial growth rate was 11.3 per cent; in 1970 the growth rate was 11.8 per cent. Growth has been particularly marked in the chemical (especially petrochemical), electric power, engineering (especially electrical engineering), metalworking, woodworking, cement, pulp and paper and mining industries. The next five-year plan, covering 1971 to 1975, envisages increases of 50 to 57 per cent in industrial output. Priority will be given to the metalworking, engineering and chemical industries and electric power, so that by 1975 they will account for 54 per cent of total industrial production, as compared with 40 per cent in 1965.

UNIDO is assisting Romania in the fields of building research, the use of computers in certain industries, the design and research of diesel engines, chemicals and petrochemicals, ceramics, glass, leather and food processing industries. Equipment to the value of approximately \$300,000 has been provided to replace that damaged or destroyed by the 1970 floods, and a number of fellowships in various industrial fields have been made available to Romanian nationals.

During 1971, 25 fellowships were awarded to Romanians. One UNIDO expert served for one month in Romania. Five Romanian nationals participated in training programmes and seminars organized by UNIDO. Six Romanian specialists served in other developing countries. Six governmental and professional institutions in Romania receive UNIDO publications.

<u>Project number</u>	<u>Source of funds</u>	<u>Grants</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
70/994 ROM-13	SIS	5	Assistance to the industries affected by the floods in May-June 1970	-	-	-	-	-
			Assistance in the development of synthetic leather substitutes (experts and fellowships; consulting firm)	-	-	17.6	-	-

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>Assistance to the industries affected by the floods in May-June 1970 (cont'd)</u>							
70/995 ROM-14	SIS	3	Assistance to ceramics and glass industries (experts and equipment; consulting firm)	-	-	62.0	-
70/996 ROM-15	SIS	4	Production of transfer paper for decalcomania industries (consulting firm)	-	15.6	-	-
70/997 ROM-16	SIS	4	Assistance to Chemiegas Corporation (experts and equipment; consulting firm)	-	40.0	41.0	-
70/998 ROM-17	SIS	6	Assistance to the Salconserv canning and meat products factory - Medias (experts and equipment; consulting firm)	-	21.4	40.0	-
70/999 ROM-18	SIS	6	Assistance to canned food factories (consulting firm; fellowships)	-	-	35.6	-
70/1002 ROM-21 Phase I	SIS	1	Assistance to process control in the food industries (consulting firm; fellowships)	-	-	9.6	-
70/1073 ROM-23	SIS	6	Flood emergency replacement of industrial equipment	122.6	140.0	-	-
71/1194 ROM-24	SIS	4	Assistance to the rehabilitation of carbide plant (consulting firm)	-	-	8.0	-
71/1431 ROW-25	SIS	3	Exploratory mission to prepare and specify terms of reference for contract specifications for consulting firms in the project ROM-14 (SIS project 70/995)	-	0.5	-	-
<u>Introduction of new industrial management techniques</u>							
69/552 ROM-5	SIS	10	Assistance in introducing use of computers to management systems of machine tool, metallurgical and chemical industries (consulting firm)	1.0	66.5	-	-
70/835 ROM-10	SIS	5	Optimization of an olefines plant - computerization of process control (consulting firm; equipment)	-	33.0	-	-
70/1056 ROM-11	SIS	5	Application of electronic computers in petrochemical industries (consulting firm; equipment)	-	-	26.5	-

EUROPE AND THE MIDDLE EAST (cont'd)

Romania (cont'd)

Project number	Source of funds	Grants	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973 beyond 1973	
71/1435 ROM-26	SIS	10	Exploratory mission in connexion with assistance to "Elektroputers", Craiova	-	0.3	-	-	
<u>Introduction of new industrial management techniques (cont'd)</u>								
<u>Introduction of modern industrial technologies</u>								
ROM/69/2	TA	2	Metallurgical quality control (1/1 m/m expert services; 6/18 m/m fellowships; equipment)	9.1	4.8	1.4	-	
ROM/69/3	TA	1	Electronic spare parts production (2/4 m/m expert services; 4/12 m/m fellowships; equipment)	9.0	-	9.5	-	
ROM/69/5	TA	1	Production of machine tools with numerical programming (1/2 m/m expert services; 4/12 m/m fellowships; equipment)	8.8	4.0	17.5	-	
69/452 ROM-3	SIS	1	Assistance in appraising the state of technology of precision measure and process control instruments (consulting firm)	-	-	12.0	-	
70/770 ROM-9	SIS	1	Design of, and research in, diesel engines for industrial, railway and naval use (consulting firm; experts; equipment; fellowships)	-	17.7	14.0	-	
70/1057 ROM-12	SIS	1	Assistance in research and production of ceramic materials for the electronics industry (consulting firm; fellowships)	-	-	44.7	-	
<u>Industrial training</u>								
ROM/69/6	TA	8	Industrial metrology (8/24 m/m fellowships; equipment)	7.2	3.0	5.1	-	
ROM/70/1	TA	2	Technology of steel production (4/12 m/m fellowships)	-	2.0	2.8	-	
ROM/70/2	TA	1	Research and development of semi-conductors (3/9 m/m fellowships)	-	2.0	1.4	-	

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
							beyond 1973
<u>Industrial training (cont'd)</u>							
ROM/70/3	TA	2	Technology of heat-resistant alloys and super alloys (5/15 m/m fellowships)	1.4	2.0	2.8	-
ROM/70/5	TA	6	Micro-structure of textile fibres (6/18 m/m fellowships)	2.8	2.0	2.8	-
ROM/70/6	TA	5	Treatment and utilization of stereo-regular polymers (6/19 m/m fellowships)	2.8	2.0	2.0	-
ROM/70/7	TA	3	Technology of glass production (6/18 m/m fellowships; equipment)	2.8	2.0	3.8	-
ROM/70/18	TA	6	Technology of flour paste ware production (5/15 m/m fellowships)	-	2.0	5.0	-
ROM/70/21	TA	6	Organization and planning in food industry enterprises (1/3 m/m fellowship)	-	1.4	-	-
ROM/70/36	TA	2	Utilization of non-ferrous and ferrous ores (3/9 m/m fellowships)	-	1.0	6.1	-
ROM/70/39	TA	1	Technology of car maintenance and repair (3/9 m/m fellowships)	-	1.0	3.2	-
ROM/71/3	TA	1	Maintenance and utilization of computers (1/6 m/m fellowship)	-	1.0	-	-
ROM/02/1/1	RP	2	Metallurgical industries: iron and steel (3/9 m/m fellowships)	-	6.6	-	-
ROM/04/2/1	RP	4	Chemical products manufacturing (1/3 m/m fellowship)	-	-	2.2	-
<u>Packaging industry</u>							
70/1023 ROM-22	SIS	17	Exploratory mission on the development of the packaging industry (1/1 m/m expert services)	-	0.7	-	-
<u>Food industry</u>							
70/1001 ROM-20	SIS	6	Soyabean processing - exploratory mission (1/0.25 m/m expert services)	-	0.6	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Saudi Arabia

Industry represents a small but fast growing sector in the economy of Saudi Arabia. In 1969/1970, this sector accounted for 2.5 per cent of the GNP while the oil sector accounted for 49 per cent. One of the major objectives of the current development plan (1969/1970 to 1975/1976) is the diversification of the economy to diminish the current dependence on oil. Some 283 factories with approximately 10,200 employees are currently in operation. Machinery and food industries employ the greatest number of workers. Most manufacturing companies are private but some large enterprises, especially in the petrochemical, fertilizer and basic metal industries, are partially or wholly government-owned.

In response to the government policy of developing industry, assistance is being provided under a UNDP/SF project in the establishment and initial operation of the Industrial Studies and Development Centre. The Centre is to deal with industrial estates, surveys, opportunity studies and extension services and is to render general assistance in the field of industry. Other main areas of technical assistance

have been industrial promotion, small-scale industries and maintenance and repair of industrial and agricultural machinery. Technical assistance has included the training of national personnel in general industrial subjects. During 1971, nine experts and short-term consultants served in Saudi Arabia for 64 man/months. Saudi Arabia has participated in a number of regional projects. As a member of the Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational projects undertaken by IDCAS in co-operation with UNIDO.

In March 1970, a UNIDO mission to Saudi Arabia consulted with the Government in the preparation of a programme for long-term assistance in the industrial field, paving the way for the preparation of the Country Programme, which is scheduled for submission to the UNDP Governing Council for approval in January 1973. UNIDO publications are distributed to 21 governmental and professional institutions in the country. An Industrial Development Field Adviser posted in Kuwait serves Saudi Arabia.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>	<u>Planned expenditure (in '000 US\$)</u>
				up to 1971	beyond 1971
SAU-14	SF	12	<u>Industrial policies and planning</u> Industrial Studies and Development Centre, Riyadh - Purpose: to assist in the establishment and initial operation of the Centre which is to advise the responsible authorities on industrial policies and programming; to assist in carrying out or commissioning industrial feasibility studies on establishment, financing and operation of new industries, on the planning, management and operation of industrial estates, and on the establishment and initial operation of model industrial estates. Supplementary earmarking approved in January 1971 extended the project for 2½ years. UNIDO provided 11 experts and a base team of 3 has been in the field since	554.4	135.8
				1971	1972
				1971	1973
				141.4	157.6

EUROPE AND THE MIDDLE EAST (cont'd)

Saudi Arabia (cont'd)

Project number	Source of funds	Start	Project title and project description	Expenditure (in '000 US\$)	Planned expenditure (in '000 US\$)
				up to 1971	1972
				1971	1973
					beyond 1973

Industrial policies and planning (cont'd)

SAU-14 (cont'd)

November 1968. Five counterparts have been on project-sponsored fellowships. The Centre has been established and has set up two industrial estates, carried out an industrial survey of Saudi Arabia, issued a Guide for Investors and other documents, and provides extensive services to industry.

Operational: March 1966 UNDP: \$ 966,900  
Gov't: \$2,667,000

SAU/70/5	TA	12	Industrial development and policy (1/12 m/m expert services)	-	30.0	-
70/962 SAU-4	SIS	12	Industrial policy adviser to the General Petroleum and Mineral Organization (PETROMIN) (1/3 m/m expert services)	-	4.0	-

Industrial services

SAU/08/2/2	RP	8	Industrial services and their administration - industrial standards (1/6 m/m fellowship)	-	3.4	-
SAU/09/1/2	RP	9	Industrial information and promotion (1/3 m/m expert services)	-	6.0	-
70/834 SAU-10	SIS	9	Assistance to the technical library of PETROMIN (1/6 m/m expert services)	-	12.0	-

Repair and maintenance

70/738 SAU-6	SIS	1	Assistance in maintenance and repair (1/6 m/m expert services)	-	6.0	-
70/932 SAU-11	SIS	1	Organization and operation of facilities for repair and maintenance of agricultural machinery (1/6 m/m expert services)	-	12.0	-

EUROPE AND THE MIDDLE EAST (cont'd)

Saudi Arabia (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
70/833 SAU-9	SIS	16	<u>Industrial management and quality control</u> Assistance in industrial management training (1/6 m/m expert services)	-	12.0
70/853 SAU-3	SIS	8	Industrial standardization and quality control (1/3 m/m expert services)	-	6.0

Spain

Despite the current stagnation in industrial growth in Spain, considerable progress has been made in certain sectors such as in the production of machinery and in vehicle manufacturing as well as in shipbuilding and metallurgy where several mergers have occurred. In order to revitalize the economy, the Government is making considerable effort to increase investment. It has established seven industrial growth centres where special tax and credit privileges are available to investors.

UNIDO has given assistance through a UNDP/SP project in establishing the Electrical Industry Testing and Experimentation

Centre. Assistance is also being provided to improve food packaging processes. During 1971, seven Spanish specialists served as UNIDO experts in other developing countries.

The Country Programme is scheduled for presentation to the UNDP Governing Council for approval in June 1973. UNIDO documents and publications are distributed to 25 governmental and professional institutions.

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
SPA-12	SP	1	<u>Electrical industries development</u> Electrical industry testing and experimentation centre - Purpose: to assist the Government in establishing a centre near Madrid to carry out testing and advisory services for the electrical industry.	19.4	384.9
				39.0	182.0



Spain (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> <u>1973</u> <u>beyond 1973</u>
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Electrical industries development (cont'd)

SPA-12 (cont'd)

The project manager began his assignment in March 1971. The Plan of Operation was signed in February 1971.

Approved: January 1970 UNDP: \$ 693,500  
Operational: March 1971 Gov't: \$3,934,000  
Duration: 2 years

Packaging techniques

71/1152 SPA-3	SIS	17	Assistance in the packaging of food for export and tourist consumption (1/1 m/m expert services)	-	-	2.0	-
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Syrian Arab Republic

Under the Third Five-year Development Plan (1971-1975), 16.3 per cent of the total allocation has been earmarked for industry, as against 8.0 per cent in the previous plan. In the Third Plan, emphasis has been placed on improving the balance of trade by increasing exports of semi-finished products; production of yarn, cotton textiles, silk, wool, clothing, footwear, matches, glass and porcelain is expected to increase. The Third Five-year Development Plan also gives attention to the expansion of the country's petroleum and petrochemical industry: a new refinery with a capacity of two million tons a year is to be built. The construction of the Nitrogen Fertilizer Complex in Homs was completed in 1970. The Syrian Arab Republic is continuing the development of the phosphate industry. Part of the phosphate ores will be exported and part transformed into triple superphosphate fertilizers at the new Homs Fertilizer Plant.

UNDP assistance has been given through the UNDP/SF project to establish a bureau of industrial project evaluation and feasibility studies. The bureau is to advise the Government and its

concerned agencies on the preparation of feasibility studies and on the evaluation and implementation of industrial projects. Other UNIDO projects cover a variety of fields such as a steel rolling mill, the design of radio and television receivers, and the manufacture of petrochemicals and fertilizers and agricultural machinery and implements. In 1970, a long-term technical assistance programming mission assisted the Government in specifying its technical assistance requirements in the field of industry for the coming years and in defining areas of future co-operation between the country and UNIDO. As a member of the Industrial Development Centre for Arab States (IDCAS), the Syrian Arab Republic has participated in various multinational projects and regional meetings organized by IDCAS in co-operation with UNIDO. In 1971, seven Syrian nationals participated in training programmes organized by UNIDO, and two Syrian specialists served as UNIDO experts in other developing countries.

An Industrial Development Field Adviser posted in Beirut serves the Syrian Arab Republic.

EUROPE AND THE MIDDLE EAST (cont'd)

Syrian Arab Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Iron and steel industries</u>								
SYR/71/3	TA	2	Assistance to the steel rolling mill, Hama (1/2 m/m expert services)	-	4.0	-	-	-
SYR/02/1/3	RP	2	Iron and steel industry study tours (3/2 m/m fellowships)	-	1.1	-	-	-
68/306 SYR-8	SIS	2	Assistance to steel rolling mill (1/20 m/m expert services)	24.1	10.0	-	-	-
69/513 SYR-18	SIS	2	Assistance to Integrated Iron and Steel Industry (2/4 m/m expert services)	5.0	2.0	-	-	-
<u>Industrial programming and project planning</u>								
SYR-34	SP	12	Establishment of bureau of industrial project evaluation and feasibility studies - <b>Purpose:</b> to assist the Government to establish and strengthen the bureau with a view to making full and rational use of natural and energy resources and industrial by-products. The project manager and other experts were recruited in September 1971; the Plan of Operation is prepared for signature.  Duration: 3½ years      UNDP: \$531,500 Gov't: \$390,000	10.6	16.0	184.6	145.0	123.1
SYR/12/2/5	RP	12	Industrial programming (1/6 m/m fellowship)	-	-	3.4	-	-
SYR/12/2/6	RP	12	Project preparation and evaluation (1/6 m/m fellowship)	-	-	3.4	-	-
<u>Fertilizer industry</u>								
68/325 SYR-3	SIS	5	Study on fertilizer requirements and urea production (1/6 m/m expert services)	4.3	8.0	-	-	-
71/1204 SYR-35	SIS	5	Assistance to Homs Nitrogen Fertilizer Plant (1/6 m/m expert services)	-	-	12.0	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Syrian Arab Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond <u>1973</u>	
<u>Chemical and petrochemical industries</u>									
68/445 SYR-4	SIS	4	Advice on industrial utilization of sodium chloride (1/3 m/m expert services)	-	4.0	2.0	-	-	
69/535 SYR-16	SIS	5	Assistance to insecticide industry (1/3 m/m expert services)	-	6.0	-	-	-	
69/509 SYR-19	SIS	5	Natural gas development - petrochemicals and fertilizers (1/6 m/m expert services)	-	-	12.0	-	-	
70/9.6 SYR-27	SIS	4	Evaluation and feasibility study of salt production from lakes or the sea (1/4 m/m expert services)	-	4.0	4.0	-	-	
<u>Repair and maintenance</u>									
SYR/01/1/1	RP	1	Engineering industries repair and maintenance (1/6 m/m fellowship)	-	2.3	-	-	-	
SYR/01/2/3	RP	1	Engineering industries repair and maintenance (1/6 m/m fellowship)	-	-	3.4	-	-	
<u>Construction materials industry</u>									
68/448 SYR-14	SIS	3	Assistance to the asbestos cement processing industry (consulting firm)	10.7	1.2	-	-	-	
70/237 SYR-28	SIS	4	Feasibility study on the manufacture of sulphuric acid and cement from gypsum (1/3 m/m expert services)	-	-	6.0	-	-	
SYR-25	IPF	3	Centre for housing and construction, Damascus - Purpose: to assist in brick production and in the establishment of a prefabrication industry (executing agency: UN/OTC) (2 experts)	-	-	-	(30.0)	(43.2)	

EUROPE AND THE MIDDLE EAST (cont'd)

Syrian Arab Republic (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> - <u>1971</u>	<u>Planned expenditure (in '000 US\$)</u> <u>1972</u> - <u>1973</u> - <u>beyond 1973</u>
			<u>Industrial information</u>		
SYR/09/2/4	RP	9	Organization of industrial information centre (1/6 m/m fellowship)	-	3.4 -
70/1134 SYR-26	SIS	9	Establishment of an industrial information and documentation service (1/9 m/m expert services)	-	18.0 -
			<u>Manufacture of agricultural implements</u>		
71/1181 SYR-33	SIS	1	Rationalization of the agricultural implements manufacturing programme of Tractor and Engine Factory (MCH) (1/12 m/m expert services)	-	24.0 -
71/1182 SYR-34	SIS	1	Agricultural machinery development, adaptation and testing (1/12 m/m expert services)	-	24.0 -
			<u>Promotion of export-oriented industries</u>		
SYR/14/1/2	RP	14	Promotion of export-oriented industries (2/12 m/m fellowships)	-	5.9 -
			<u>Engineering and electrical industries</u>		
68/441 SYR-12	SIS	1	Assistance to the electric cable industry (1/6 m/m expert services)	-	4.0 -
69/536 SYR-15	SIS	1	Assistance to the radio and TV industry in design and manufacture engineering (2/6 m/m expert services)	-	12.0 -
69/607 SYR-23	SIS	1	Assistance to engineering works in Aleppo (1/1 m/m expert services)	-	2.0 -

EUROPE AND THE MIDDLE EAST (cont'd)

S y r i a n A r a b R e p u b l i c (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				<u>up to</u>	<u>beyond</u>	<u>1972</u>	<u>1973</u>
				<u>1971</u>	<u>1971</u>		<u>1973</u>
69/579 SYR-22	SIS	6	Beer processing (1/6 m/n expert services)	3.1	13.0	-	-

Food industry

T u r k e y

Turkey produces a variety of industrial and mineral products, and textile manufacturing is by far the largest industry. Turkey has two iron and steel plants, and a third plant is under construction. Automobile manufacturing has shown an increase. Since the First Five-year Development Plan (1963-1967) was inaugurated, the economy has made rapid progress: national income growth has been estimated at an average annual rate of about 6.5 per cent and industrial production has expanded by 11 per cent. The Second Five-year Development Plan (1968-1972) envisages an annual rate of growth of 7 per cent, with industry's share in the GNP rising from 16.9 per cent in 1967 to 20.5 per cent in 1972. It is envisaged that in 1972 the greatest increases in industrial production will be in fertilizers, copper ore, crude oil, electricity and in the development of infrastructure.

The UNIDO programme in Turkey has concentrated on five aspects of industrial development: promotion of specific projects in the field of metallurgy (the production of aluminium, copper, steel and ferrochromium); development and modernization of building and construction industries (cement machinery and its maintenance, limestone quarrying and cement factory planning); assistance to the chemical (sulphuric acid produc-

tion) and petrochemical industries; promotion and relocation of small-scale industries, through a UNDP/SF project; and in-plant training facilities for recently graduated engineers, also a UNDP/SF project.

During 1971, a total of eleven experts and short-term consultants served in Turkey for 95 man/months. Twelve fellowships were awarded to national personnel. Seven Turkish nationals participated in training programmes, seminars, workshops and expert group meetings organized by UNIDO. One specialist from Turkey served as a UNIDO expert in another developing country. Subcontracting arrangements valued at \$36,000 were concluded for a project aimed at assisting in the production of copper.

Turkey is an active participant with Pakistan and Iran in the Regional Co-operation for Development (RCD) organization, with which UNIDO is co-operating in the development of technical assistance projects.

An Industrial Development Field Adviser posted in Islamabad, Pakistan, serves Turkey.

EUROPE AND THE MIDDLE EAST (cont'd)

T u r k e y (cont'd)

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
<u>Industrial training</u>								
TUR-29	SF	16	In-plant training centre for engineers, Kirikkale - Purpose: to provide intensive practical pre-employment and upgrading training for engineers in the metalworking industries. The Plan of Operation was signed in April 1971. The project manager began his assignment in September 1970.  Approved: January 1968 UMDP: \$1,420,300 Operational: April 1971 Gov't: \$3,000,000 Duration: 5 years	41.1	37.1	344.0	254.0	603.3
TUR/69/16	TA	10	Operational research (2/15 m/m fellowships)	4.8	-	1.4	-	-
TUR/70/31	TA	12	Industrial engineering - industrial development programming (2/11 m/m fellowships)	2.9	0.9	-	-	-
TUR/71/10	TA	10	Industrial management organization (1/4 m/m fellowship)	-	1.8	-	-	-
TUR/01/1/4	RP	12	Engineering industries - engineering economics and industrial programming techniques (1/3 m/m fellowship)	-	5.5	-	-	-
TUR/10/1/3	RP	10	Industrial management (1/3 m/m fellowship)	-	2.2	-	-	-
TUR/12/2/2	RP	12	Industrial programming and project planning - industrial programming (2/6 m/m fellowships)	-	-	4.4	-	-
TUR/12/2/3	RF	12	Industrial policies (1/3 m/m fellowship)	-	-	2.2	-	-
<u>Metallurgical industries</u>								
TUR/68/2	TA	2	Upgrading and briquetting of lignite (1/22 m/m expert services)	25.0	12.0	-	-	-
TUR/68/11	TA	2	Metallurgical industry development (consulting firm)	-	36.3	-	-	-
TUR/68/12	TA	2	Aluminium industry - critical path method (1/42 m/m expert services)	25.2	24.0	30.0	10.0	-

## Turkey (cont'd)

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)		
				up to 1971	1971	1972	1973	beyond 1973
<u>Metallurgical industries (cont'd)</u>								
TUR/02/1/2	RP	2	Training in aluminium industry (2/6 m/m fellowships)	-	4.4	-	-	-
TUR/02/1/5	RP	2	Hot briquetting of lignite (1/1 m/m fellowship)	-	0.6	-	-	-
TUR/02/2/1	RP	2	Iron and steel production (2/3 m/m fellowships)	-	-	3.2	-	-
69/697 TUR-13	SIS	2	Mounting of technological equipment in the aluminium industry (1/12 m/m expert services)	5.9	16.0	-	-	-
70/1031 TUR-19	SIS	2	Project evaluation in non-ferrous metallurgy - cost analysis for copper work (1/2 m/m expert services)	-	-	4.0	-	-
70/1032 TUR-20	SIS	2	Ferro-chromium production (1/12 m/m expert services)	-	-	24.0	-	-
70/1033 TUR-21	SIS	2	Non-ferrous metals: copper, lead, zinc, sulphide flotation (1/12 m/m expert services)	-	6.0	18.0	-	-
70/1034 TUR-22	SIS	2	Assistance in the field of mercury extraction (consulting firm)	-	-	24.0	-	-
<u>Cement industry</u>								
TUR/68/3	TA	3	Cement manufacture (1/12 m/m expert services)	22.1	4.0	-	-	-
TUR/69/4	TA	3	Cement industry: limestone quarrying and machine maintenance (3/16 m/m expert services)	16.5	14.0	-	-	-
<u>Chemical and petrochemical industries</u>								
TUR/69/1	TA	4	Chemical industries planning (3/54 m/m expert services)	79.3	24.0	-	-	-
70/911 TUR-15	SIS	4	Production of sulphuric acid (1/2 m/m expert services)	-	16.0	8.0	-	-
70/1107 TUR-23	SIS	4	Exploratory mission to assess the possibilities of expanding the pulp and paper industry (1 short-term consultant)	-	1.4	-	-	-

EUROPE AND THE MIDDLE EAST (cont'd)

Turkey (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond <u>1973</u>	
71/1329	TUR-24	SIS	5 Assistance in planning and design of a petrochemical complex (1/12 m/m expert services)	-	-	24.0	-	-	
<u>Chemical and petrochemical industries (cont'd)</u>									
TUR-25		SF	11 <u>Small-scale industry</u> Small-scale industries development programme <u>Purpose:</u> to establish a small industries development centre in Ankara and a demonstration industrial estate in Gaziantep in order to promote the development of small-scale industries through training and demonstration. The Plan of Operation was signed in June 1970. Work had begun previously with the arrival of the project manager in December 1964.  Approved: January 1968 UNDP: \$ 962,800 Operational: September 1970 Gov't: \$1,240,000 Duration: 5 years	79.9	97.2	265.7	201.7	256.7	
69/493	TUR-12	SIS	11 Small-scale industry - subcontractors' exchanges (1/3 m/m expert services)	-	9.5	-	-	-	
<u>Engineering industries</u>									
TUR/01/1/1		RP	1 Engineering industry (1/3 m/m fellowship)	-	2.2	-	-	-	
71/1434	TUR-25	SIS	1 Survey mission on development of tools, dies, jigs and fixtures (1/1 m/m expert services)	-	-	2.0	-	-	
TUR-30		SF	6 <u>Assistance to leather industry</u> Leather footwear industry and leather goods; executing agency: FAO (2/48 m/m expert services)	-	-	30.0	90.0	-	



Y e m e n

The industrial sector in the Yemen Arab Republic is at an early stage of development. The assistance rendered by UNIDO in 1970 and 1971 was concentrated on the formulation of a programme for the development of small-scale industries, including assistance to new enterprises in the selection of products for local manufacture. Studies have been undertaken on the possibility of establishing an industrial estate area and of setting up a small-scale industry section with the relevant government department.

The Yemen Arab Republic has participated in a number of regional and interregional projects. As a member of the

Industrial Development Centre for Arab States (IDCAS), it has participated in various multinational and regional meetings organized in co-operation with UNIDO. One specialist from the Yemen Arab Republic served as a UNIDO expert in a developing country during 1971.

An Industrial Development Field Adviser posted in Cairo had been serving the Yemen Arab Republic, but recently an Industrial Development Field Adviser posted in Kuwait took over this function.

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
YEM/71/4	TA	11	Small-scale industry adviser (1/12 m/m expert services; miscellaneous)	-	20.0	10.0
YEM/11/1/2	RP	11	Small-scale industries (2/12 m/m fellowships)	-	6.4	-
71/1143 YEM-2	SIS	1	Complex service team in maintenance and repair of industrial equipment (2/24 m/m expert services)	-	-	48.0
YEM/13/2/1	RP	13	Industrial policies and financing - project financing (2/12 m/m fellowships)	-	-	6.8
VC/15/10	GTF	15	Yemen Arab Republic Industrial Survey Report by IDCAS (translation - consulting firm)	-	1.5	-



EUROPE AND THE MIDDLE EAST (cont'd)

Y u g o s l a v i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Industrial management and consulting services (cont'd)</u>								
YUG/10/1/1	RP	10	Industrial management and training - work organization and management in scientific institutions (2/6 m/m fellowships)	-	4.4	-	-	-
YUG/10/2/2	RP	10	Industrial management techniques (1/3 m/m fellowship)	-	-	2.2	-	-
68/339 YUG-3	SIS	10	Establishment of a market research and product forecasting programme for a group of industries (1/12 m/m expert services)	1.2	24.0	-	-	-
68/340 YUG-4	SIS	10	Establishment and management of a computer-based production planning and control system at the shipyards "3 May" and "Tito" (1/6 m/m expert services)	-	11.0	-	-	-
68/341 YUG-5	SIS	10	Establishment and management of a computer-based production planning and control system at "Energoinvest", Sarajevo, and "Hasan Brkic", Zenica (consulting firm)	-	20.1	-	-	-
68/347 YUG-11	SIS	10	Assistance to a furniture factory in industrial product costing and industrial management (marketing) (2/11 m/m expert services)	10.1	2.0	4.0	-	-
70/980 YUG-32	SIS	10	Application of digital computers (1/1 m/m expert services)	-	-	2.5	-	-
71/1319 YUG-40	SIS	10	Industrial management systems analysis (1/6 m/m expert services)	-	-	12.0	-	-

Metallurgical industries

YUG/68/6	TA	2	Iron and steel metallurgy - assistance in development of mathematical models, automation of steel production, iron ore beneficiation, vacuum spectroscopic and X-ray fluorescence analysis, and vacuum metallurgy (solid m/m expert services; 24/72 m/m fellowships; equipment)	36.8	51.2	-	-	-
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Project number	Source of funds	Group	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
<u>Metallurgical industries (cont'd)</u>							
68/456 YUG-7A	SIS	2	Vacuum steel degassing project (consulting firm)	-	-	12.0	-
69/460 YUG-7E	SIS	2	Iron and steel expert (consulting firm)	-	15.0	-	-
71/1196 YUG-37	SIS	2	Roll-pass design expert - commissioning of new sections (1/2 m/m expert services)	-	-	4.0	-
71/1321 YUG-41	SIS	2	Assistance in electron-microscopy (1/1 m/m expert services)	-	2.0	-	-
<u>Engineering industries</u>							
YUG/01/2/1	RP	1	Engineering industries - mechanical industries (2/6 m/m fellowships)	-	-	4.4	-
70/816 YUG-21	SIS	1	Handling and transportation of semi-processed materials and finished products (consulting firm)	2.8	2.2	-	-
70/829 YUG-22	SIS	1	Materials handling equipment (consulting firm)	-	3.1	-	-
70/880 YUG-26	SIS	1	Assistance in technological and organizational problems of bearings and bushes production (consulting firm)	-	-	24.0	-
70/893 YUG-28	SIS	1	Assistance in automation and regulation (consulting firm)	-	-	3.0	-
71/1221 YUG-38	SIS	1	Exploratory mission for preparatory assistance to "Energoinvest", Sarajevo (1/0.25 m/m expert services)	-	0.2	-	-
71/1243 YUG-33	SIS	1	Production of clutches (1/4 m/m expert services)	-	-	8.0	-
71/1308 YUG-39	SIS	1	Testing of automotive electrical components (1/6 m/m expert services)	-	-	12.0	-

EUROPE AND THE MIDDLE EAST (cont'd)

Y u g o s l a v i a (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
<u>Chemical and petrochemical industries</u>								
68/345 YUG-9	SIS	5	Assistance to petrochemical industries in the organization and management of a technical plant (1/6 m/m expert services)	7.6	5.0	-	-	-
70/809 YUG-20	SIS	4	Improvement of paper mill operations - reduction of losses of fibres and fillers and their re-use in the process (consulting firm)	1.1	9.0	-	-	-
70/852 YUG-25	SIS	4	Assistance to the cellulose and viscose factory in Banja Luka in industrial waste water treatment, pulp and paper production (consulting firm; 1/6 m/m expert services; 14/36 m/m fellowships)	3.5	40.0	62.0	-	-
70/955 YUG-31	SIS	5	Evaluation of the long-range development of petrochemicals - exploratory mission (3/2.25 m/m expert services)	-	4.5	-	-	-
70/1138 YUG-35	SIS	4	Assistance to the Kocani pulp and paper mill (2/12 m/m expert services)	-	-	24.0	-	-
71/1151 YUG-36	SIS	4	Technical assistance to the paper mills at Plaski and Maglaj (1/6 m/m expert services)	-	12.0	-	-	-
<u>Food and light industries</u>								
YUG-10	SF	6	Development of forestry and forest industries - <u>Purpose:</u> to provide experts in quality control, integration and mechanization of forest and forest industry enterprises, and marketing. (executing agency: FAO)	-	-	60.0	-	-

Approved: January 1969 UNDP: \$ 983,200  
 Operational: August 1969 Gov't: \$1,331,000  
 Duration: 3 years

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EUROPE AND THE MIDDLE EAST (cont'd)

YUGOSLAVIA (cont'd)

Project number	Source of funds	Sector	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973
YUG-14	SP	6	Development of the agricultural food complex in the Bosanska-Krajina region (executing agency: FAO)	-	0.3	-	-
70/845 YUG-23	SIS	6	Assistance to the VHBES wood industrial combine, Banja Luka (1/2 m/m expert services; 4/8 m/m fellowships; consulting firm; equipment)	-	15.0	18.0	-
70/848 YUG-24	SIS	6	Assistance to the VITAMINKA food processing factory (2/5 m/m fellowships; consulting firm; equipment)	-	-	68.1	-
70/1110 YUG-34	SIS	6	Assistance to the textile industry in the production of pile fabrics, application of crease-resistant finishes on cotton and high temperature dyeing of synthetics (5/9 m/m expert services)	-	6.0	12.0	-
71/1407 YUG-43	SIS	6	Exploratory mission - assistance to CEMENTOKRIL, Skopje and Vranje (1/0.25 m/m expert services)	-	0.3	-	-
71/1512 YUG-48	SIS	6	Preparatory mission - centre for improvement of wood industry production (1/0.5 m/m expert services)	-	0.5	-	-

Food and light industries (cont'd)

EUROPE AND THE MIDDLE EAST (cont'd)

Regional

<u>Project number</u>	<u>Source of funds</u>	<u>Source</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>Industrial policies and programming</u>								
EME/69/27	TA	12	Seminar on selected aspects of industrial policies for selected countries in the Middle East and North Africa (Beirut, January 1971) (5/1 m/m expert services; 14/1 m/m participants; miscellaneous)	-	22.7	-	-	-
EME/12/1/1	RP	12	Industrial planning and programming (1/3 m/m expert services)	-	7.2	-	-	-
EME/12/2/1	RP	12	Industrial planning and programming (1/12 m/m expert services)	-	-	27.0	-	-
"	RP	12	Long-range country programming of technical assistance (expert services)	-	2.0	18.0	-	-
<u>Selected industries</u>								
EME/02/1/2	RP	17	ECE seminar on air and water pollution arising in the iron and steel industry (USSR, 22-29 August 1971) (8/2 m/m fellowships)	-	7.1	-	-	-
10/797 EME-3	SIS	3	Exploratory mission to study the feasibility of poly-sand products manufacture - pipes and building elements (2/1.5 m/m expert services; shipment of samples)	4.2	2.2	-	-	-

INTERREGIONAL

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Expenditure (in '000 US\$)</u> 1971	<u>Expenditure (in '000 US\$)</u> 1972	<u>Expenditure (in '000 US\$)</u> 1973	<u>Expenditure (in '000 US\$)</u> beyond 1973
INTREG-13	SP	16	<p>Advanced industrial training for the electrical and electronic industries -</p> <p><u>Purpose:</u> to assist the Governments in meeting urgent needs for trained engineers and specialists in the field of the electrical and electronic industries. Training facilities have been offered by the Government of the Netherlands at the Research Institute for Management Science, Delft, in association with local industry.</p> <p>Approved: January 1970      UNDP: \$275,000 Duration: 3 years              Gov't: \$138,000</p>	0.3	-	83.4	90.1	74.2
INTREG-14	SP	16	<p>Higher training for textile industries -</p> <p><u>Purpose:</u> to assist the Governments in meeting urgent needs for trained engineers and specialists in the general fields of the textile industry. The project will use the training facilities offered by the Government of Poland at the Textile Research Institute, Lodz.</p> <p>Approved: January 1970      UNDP: \$179,600 Duration: 3 years              Gov't: \$342,000</p>	19.8	24.2	52.7	50.5	16.1
INTREG-15	SP	16	<p>Maintenance and repair of rail and road transport equipment -</p> <p><u>Purpose:</u> to assist the Governments in meeting urgent needs for trained engineers and specialists in the fields of maintenance systems and maintenance management of rail and road transport equipment. The project will use the training facilities offered by the Government of the Federal Republic of Germany in association with local industry.</p> <p>Approved: June 1971         UNDP: \$191,800 Duration: 3 years              Gov't: \$111,000</p>	-	24.0	63.7	56.7	52.7

In-plant group training programmes



INTERREGIONAL (cont'd)

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973
<u>In-plant group training programmes (cont'd)</u>							
INTREG-22	SF	16	In-plant group training programme in the field of diesel engineering, Czechoslovakia - Purpose: to assist the Governments in meeting their needs for trained engineers and technicians in the field of diesel engineering.  Approved: June 1971 UNDP: \$251,600 Duration: 3 years Gov't: \$104,000	-	22.0	80.4	71.3
INT/69/7	TA	16	Group training programme for engineers in the field of food processing, India (20/60 m/m participants)	-	20.0	-	-
INT/69/8	TA	16	In-plant training in the shoe industry, Czechoslovakia (20/80 m/m participants)	-	-	20.0	-
INT/70/20	TA	16	In-plant group training course for engineers in the field of organization of standardization systems in manufacturing industries, USSR (25/100 m/m participants)	-	25.0	-	-
INT/70/21	TA	16	In-plant group training course for engineers in the field of the metalworking industry, USSR (20/80 m/m participants)	-	20.0	-	-
INT/70/22	TA	16	In-plant group training course for engineers in the field of electrical industry (20/80 m/m participants)	-	27.0	-	-
INT/70/23	TA	16	In-plant group training course for engineers in the field of the pulp and paper industry (12/36 m/m participants)	-	11.0	-	-
INT/70/27	TA	16	In-plant group training course for engineers in the field of mechanical industries (15/45 m/m participants)	-	15.0	-	-
INT/70/28	TA	16	In-plant group training course for engineers in the field of organization and management of maintenance systems, Sweden (20/60 m/m participants)	-	22.0	-	-
INT/70/48	TA	16	In-plant group training programme in the field of diesel engineering, Czechoslovakia (1/12 m/m expert services; 20/60 m/m participants; equipment; miscellaneous)	-	-	75.7	-

INTERREGIONAL (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>		
				<u>up to 1971</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>beyond 1973</u>
<u>In-plant group training programmes (cont'd)</u>								
INT/10/1/13	RP	16	7th in-plant group training programme for engineers and technicians in the iron and steel industry, Zaporozhye, USSR (50/275 m/m participants)	-	188.1	-	-	-
INT/10/1/15	RP	16	3rd in-plant group training programme on production and formulation of pesticides, Syracuse, USA (17/34 m/m participants)	-	16.0	-	-	-
VC/10a/13	GTF	16	In-plant group training programme for engineers in the field of organization of standardization systems (25/112 m/m participants)	-	66.7	-	-	-
VC/10a/14	GTF	16	In-plant group training programme for engineers in the field of diesel engines (20/60 m/m participants)	-	-	34.8	-	-
VC/10a/16	GTF	16	In-plant group training programme for production engineers in the field of the metalworking industry (20/80 m/m participants)	-	66.7	-	-	-
VC/10a/26	GTF	16	In-plant group training for engineers in the field of management of maintenance and repair services in Italy (20/65 m/m participants; consultants)	-	81.3	-	-	-
VC/10a/28	GTF	16	In-plant group training programme for production engineers in the field of metalworking industry, USSR (20/80 m/m participants)	-	-	63.3	-	-
VC/10a/29	GTF	16	In-plant group training programme in the field of maintenance and repair of instruments and measuring equipment (20/60 m/m participants)	-	-	33.5	-	-
VC/10a/30	GTF	16	In-plant group training programme for engineers in the field of organization of standard systems in manufacturing industries (30/90 m/m participants)	-	-	73.0	-	-
VC/10a/31	GTF	16	In-plant group training programme in the field of application of dyes and chemicals to textiles (12/30 m/m participants)	-	-	14.2	-	-

INTERREGIONAL (cont'd)

Project number	Source of funds	Status	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)
				up to 1971	1971	
INT/69/19	TA	14	Training course in the development of industrial exports (20/50 m/m participants; miscellaneous)	0.4	34.8	-
INT/70/2	TA	2	Creation and transfer of metallurgical know-how (workshop) (6/2 m/m expert services)	-	-	6.0
INT/70/8	TA	5	Second Interregional Fertilizer Symposium (11/7 m/m expert services; 65/54 m/m participants; miscellaneous)	-	66.0	-
INT/70/9	TA	6	Seminar on furniture and other secondary wood processing industries (4/3 m/m expert services; 20/20 m/m participants; miscellaneous)	-	24.5	-
INT/70/11	TA	6	Seminar on industrial processing of rice (8/3 m/m expert services; 30/7 m/m participants; miscellaneous)	-	30.0	-
INT/70/39	TA	16	Training workshop in methods of industrial surveys (3/2 m/m expert services; 20/15 m/m participants; miscellaneous)	-	20.0	-
INT/05/1/10	EP	5	Second training programme in plastics technology for developing countries (15/26 m/m fellowships)	-	31.3	-
VC/5/1	GTF	5	Country correspondent for pesticides, fertilizers and petrochemicals (consulting firm)	-	4.0	-
VC/5/7	GTF	5	Second Interregional Fertilizer Symposium (expert services; 30/15 m/m participants; consultants)	-	49.7	-
VC/5/15	GTF	5	Second training programme in plastics technology (consulting firm)	-	15.6	-
VC/6/10	GTF	6	IDCAS study on the sugar industry (expert services)	-	3.4	-
VC/8/9	GTF	8	Assistance to the Arab countries in the field of standardization and metrology	-	26.0	-

Seminars, workshops, training courses (other than in-plant training programmes) and other projects for the exchange of know-how

INTERREGIONAL (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Years</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>Planned expenditure (in '000 US\$)</u> 1972 1973 beyond 1973
			<u>Seminars, workshops, training courses (other than in-plant training programmes) and other projects for the exchange of know-how (cont'd)</u>		
VC/8/14	GTF	8	Training workshop for public industrial administrators of Arab countries of the Middle East and North Africa (19/14 m/m participants; consultants)	15.0	-
VC/8/15	GTF	8	Joint consultation on the stimulation of industrial research activities in Latin America (15/15 m/m participants; consultant)	13.5	-
VC/8/16	GTF	8	Collection and dissemination of industrial information and promotion activities (consultant)	0.8	-
VC/9/17	GTF	9	IDCAS centre for industrial information and documentation (equipment)	60.0	-
VC/9/23	GTF	9	IDCAS information and documentation centre (2 participants; consultants)	60.0	-
VC/9/24	GTF	9	Training and upgrading of industrial information personnel (expert services; 18/36 m/m participants)	80.0	-
VC/9/25	GTF	9	Promotion and organization of the exchange of industrial information (consulting firm)	-	15.0
VC/10a/25	GTF	16	Training courses and study tours sponsored by Switzerland (expert services; 31/23 m/m participants)	46.0	-
VC/12/15	GTF	12	IDCAS regional training workshop on industrial implementation (31/26 m/m participants; consultants)	20.5	-
VC/12/20	GTF	12	IDCAS regional workshops on productivity profiles (Workshop A: expert services; 20/7 m/m participants; consultants) (Workshop B: expert services; 25/13 m/m participants; consultants)	22.0	-
VC/13/7	GTF	13	IDCAS regional workshop training programme for financial analysis and planning for industrial projects (16/12 m/m participants; consultants)	9.1	-

INTERREGIONAL (cont'd)

Project number	Source of funds	Stage	Project title and project description	Expenditure (in '000 US\$)		Planned expenditure (in '000 US\$)	
				up to 1971	1971	1972	1973 beyond 1973

Seminars, workshops, training courses (other than in-plant training programmes) and other projects for the exchange of know-how (cont'd)

VC/14/9	GTF	14	Training workshop in free zone areas as incentives to promote export-oriented industry (13/7 m/m participants; lecturers)	-	20.0	-	-
VC (AIDE MEMOIRE)	GTF	16	Training course and study tours (Swiss contribution) (expert services; 58/58 m/m participants)	108.9	57.4	-	-
9035-71	FIT	4	Expert group meeting on production of contraceptives in less developed countries (4/14 m/m participants)	-	42.5	-	-

Industrial promotion projects

INT/70/35	TA	13	Training programme in investment promotion techniques (3/1 m/m expert services; 12/12 m/m participants; miscellaneous)	-	20.0	-	-
INT/70/37	TA	14	Seminar on measures to achieve better utilization of industrial capacities through production for export (1/1 m/m expert services; 7/3 m/m participants; miscellaneous)	-	20.0	-	-
INT/70/41	TA	13	Industrial investment promotion team (4/88 m/m expert services)	-	46.0	120.0	74.0
INT/70/42	TA	14	International subcontracting programme (3/48 m/m expert services)	-	18.0	72.0	42.0
INT/15/1/12	RP	13	Investment promotion (5/15 m/m fellowships)	-	1.4	-	-
INT/10/1/14	RP	10	Training programme on export development of manufactures, New York City, USA (10/20 m/m fellowships)	-	35.7	-	-
VC/8/10	GTF	8	Industrial Promotion Service (IPS) at Second Ghana International Trade Fair in Accra (4/3 m/m expert services)	-	6.5	-	-
VC/8/12	GTF	8	Industrial Promotion Service (IPS) at the International Fair in Budapest - Hungary (consultants)	-	14.0	-	-
VC/8/13	GTF	8	Industrial Promotion Service (IPS) at the 40th International Fair in Poznan - Poland (consultant)	-	7.0	-	-

INTERREGIONAL (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to <u>1971</u> <u>1971</u> <u>1973</u> <u>beyond</u> <u>1973</u> <u>1973</u> <u>1973</u>	<u>Planned expenditure (in '000 US\$)</u>
INT-25	SF	12	<p style="text-align: center;"><u>Assistance to multi-country institutions and industrial co-operation schemes</u></p> <p>Central advisory services to IDCAS - <b>Purpose:</b> to harmonize industrial development policies and plans of member countries, to conduct feasibility studies to develop unified concepts and methodology in national accounts and to establish joint industrial information and research services. One-year pre-project activities were approved in March 1971, to be undertaken jointly by UNIDO and ILO.</p>	-	150.0
INT/12/1/7	RP	12	<p style="text-align: center;">UNDP: \$226,000 IDCAS: \$248,000</p> <p>High-level consultation meeting on the role of UNIDO in the industrialization of developing countries (15/12 m/m fellowships)</p>	-	14.2
69/669 INTREG-9	SIS	8	Assistance to the Arab Organization for Standardization and Metrology (ASMO) (2/12 m/m expert services)	-	28.0
69/672 INTREG-12	SIS	15	Assistance to IDCAS in industrial surveys and industrial information (3/15 m/m expert services)	12.7	14.0
70/712 INTREG-10	SIS	12	Regional co-operation in the establishment of manufacturing units in the heavy electrical and heavy engineering branches of industry (3/49 m/m expert services; miscellaneous)	18.8	20.0
70/737 INTREG-13	SIS	6,5,3,1,12	Assistance to the Industrial Development Centre for Arab States (6/36 m/m expert services)	4.0	45.1
70/898 INTREG-12 Phase II	SIS	17	Consultation with IDCAS on regional packaging institute (1/0.25 m/m expert services)	-	0.1
VC/8/11	GTP	8	World Association of Industrial and Technological Research Organizations (WAIIRO) (expert services; consultants)	-	12.0
VC/9/20	GTP	9	Co-operation between UNIDO and the Countries of the Regional Co-operation for Development (RCD) in the establishment of an RCD information centre (2/10 m/m consultants; equipment)	-	20.0

INTERREGIONAL (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Group</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u> up to 1971	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>Planned expenditure (in '000 US\$)</u> beyond 1973
			<u>Assistance to multi-country institutions and industrial co-operation schemes (cont'd)</u>					
VC/12/17	GTF	12	Training in the preparation of summaries of industrial development plans (consultants)	-	6.6	-	-	-
VC/12/19	GTF	12	IDCAS national machinery for follow-up targets (consultants)	-	6.0	-	-	-
VC/15/8	GTF	15	Industrial survey (consultant)	-	1.6	-	-	-
VC/15/9	GTF	15	IDCAS analysis of country surveys (consultant)	-	3.3	-	-	-
			<u>Regional and interregional advisory projects</u>					
INT/01/1/9	RP	1	Agricultural machinery and implements (1/12 m/m expert services)	-	14.8	-	-	-
INT/02/1/2	RP	2	Metallurgical industries (1/12 m/m expert services)	-	30.0	-	-	-
INT/05/1/3	RP	5	Petrochemical industries (1/12 m/m expert services)	-	30.0	-	-	-
INT/06/1/11	RP	6	Food and light industries (1/12 m/m expert services)	-	30.0	-	-	-
INT/12/1/5	RP	12	Industrial programming (2/24 m/m expert services)	-	60.0	-	-	-
INTREG/01/2/1	RP	1	Engineering industries: interregional adviser (1/12 m/m expert services)	-	-	27.0	-	-
INTREG/02/2/2	RP	2	Metallurgical industries: interregional adviser (1/12 m/m expert services)	-	-	27.0	-	-
INTREG/05/2/3	RP	5	Fertilizer, pesticide and petrochemical industries: interregional adviser (1/12 m/m expert services)	-	-	27.0	-	-
INTREG 11/2/4	RP	11	Small-scale industries and related activities: interregional adviser (1/12 m/m expert services)	-	-	27.0	-	-
INTREG 11/2/5	RP	12	Industrial programming and policies: interregional adviser (2/24 m/m expert services)	-	-	27.0	-	-

INTERREGIONAL (cont'd)

<u>Project number</u>	<u>Source of funds</u>	<u>Grant</u>	<u>Project title and project description</u>	<u>Expenditure (in '000 US\$)</u>		<u>Planned expenditure (in '000 US\$)</u>	
				up to 1971	1971	1972	1973
<u>Multi-sectoral studies and surveys</u>							
VC/00/13	GTF	12	IDCAS Second Symposium on Arab Industrial Development in Kuwait (14/3 m/m participants; consultants)	-	20.3	-	-
VC/1/15	GTF	1	Regional seminar on machine tools in developing countries of Europe and the Middle East (23/8 m/m participants; consultants)	-	23.0	-	-
VC/1/20	GTF	1	IDCAS study on lorries, tractors and primemovers (7/2 m/m participants; consultants)	-	3.0	-	-
VC/1/21	GTF	1	UNIDO/IDCAS fact finding mission on agricultural machinery (consultants)	-	4.0	-	-
VC/1/25	GTF	1	Maintenance weeks in Turkey and Venezuela (consultants)	-	4.5	-	-
VC/4/19	GTF	4	IDCAS survey of pulp and paper industries in Arab countries (1/2 m/m participants; 1 m/m consultant)	-	3.6	-	-
VC/10a/23	GTF	16	Individual training for IDCAS staff in UNIDO (10/5 m/m)	-	6.0	-	-
VC/10b/5	GTF	10	Joint consultation for management improvement in the textile industry (15/7.5 m/m participants; consultants)	-	9.9	-	-
VC/10b/24	GTF	10	IDCAS industrial manpower development conference (consultants)	-	6.0	-	-



**LIST TWO**

**FORECAST OF REQUIREMENTS FOR ADDITIONAL  
OPERATIONAL PROJECTS IN 1973**

Forecast of requirements for additional operational projects in 1973

Estimated requirements  
(in thousands of US \$)

Group 1: Engineering industries

Africa

Assistance for the establishment of centres for research and development of electronics industries	160.0
Engineering and industrial design development centres	200.0
Maintenance of heavy equipment	130.0
Maintenance and repair mobile workshops for agricultural equipment	150.0
Maintenance and repair shops for fishing boats	100.0
Subregional study on manufacturing agricultural equipment	90.0
Regional workshop on maintenance and repair of agricultural machinery and implements	22.0

The Americas

National design centres	150.0
Assistance to maintenance and repair facilities	130.0
Maintenance and repair units	120.0
Assistance to electrical industries in maintenance and repair	120.0
Automotive industry	70.0
Maintenance of industrial machinery and equipment	55.0

Asia and the Far East

Assistance in engineering works to develop a range of machinery spare parts for local industries	85.0
Assistance in the local manufacture of industrial inputs for agriculture	115.0
Textile machinery equipment and spare parts manufacture	50.0
Assistance in electrical research and development	45.0
Modernization of engineering design services	65.0
Assistance to engineering research centres in the production of design of prefabricated structures	75.0
Assistance in the establishment of engineering institutes	80.0
Assistance in the establishment of research development corporations for industrial technology and application	85.0
Assistance to a fine instruments centre	45.0
Assistance to an electronic industries development centre	90.0
Regional seminar on metalworking industries	35.0

Europe and the Middle East

Establishment of scientific and industrial research institutes	160.0
Maintenance and repair of transport equipment	120.0
Development of electronic industries	120.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
in thousands of US \$

Group 2: Metallurgical industries

Africa

Assistance in the establishment of an iron and steel technology institute	100.0
Consultancy services on forging equipment	30.0
Pilot utilization of monazite sands	120.0
Pilot scale industrial prototype units for processing ilmenite	120.0
Assistance to foundry industry	60.0
Establishment and development of a small-scale foundry	30.0
Assistance to the foundry industry	60.0
Assistance in the establishment of prototype training and demonstration foundries	150.0
Pre-feasibility study for the establishment of small-scale iron and steel industry	100.0
Pre-feasibility studies on, and laboratory testing for, processing local bauxites	60.0
Study of the iron and steel industry	100.0

The Americas

Pre-feasibility studies and surveys for the development of metallurgical industries	185.0
Assistance to the aluminium industry	100.0
Assistance for long-range planning of the iron and steel industry development	100.0
Metallurgical studies and investigations of processing titaniferrous ores and concentrates	85.0
Assistance in laboratory-scale testing of bauxites	45.0
Assistance to the iron and steel industries	75.0
Assistance in copper products production	145.0
Development studies for the iron and steel industry	80.0
Assistance in the development of aluminium plants	120.0
Assistance to the extractive non-ferrous metals industry	80.0
Assistance to the metals transforming industry	65.0
Pre-feasibility studies in processing ilmenitic black sands	40.0

Asia and the Far East

Consultancy services for pre-investment studies on iron ore deposits for the iron and steel industry	75.0
Assistance in the establishment of a pilot plant for extractive metallurgy research and smelting of non-ferrous metals	85.0
Pre-feasibility study of aluminium rolling and extrusion plants	110.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 2: Metallurgical industries (cont'd)

Asia and the Far East (cont'd)

Pilot scale metallurgical processing of ilmenite concentrates	140.0
Establishment of a metalworking development centre	70.0
Assistance to an iron and steel mill	75.0
Assistance to the foundry industry	75.0
Centre for metallurgical technology	80.0

Europe and the Middle East

Feasibility studies for establishment of small-scale steel plants	120.0
Assistance in the utilization of scrap iron	90.0

Interregional

Third interregional iron and steel symposium	69.0
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Group 3: Construction and building materials industries

Africa

Development centres for the organization of building materials and ceramics	120.0
Establishment of small-scale cement plants	350.0
Assistance to brickwork industry	60.0

The Americas

Assistance to the cement industry	100.0
Production of building materials	40.0
Assistance to brickwork industry	40.0
Assistance to the glass industry	100.0

Asia and the Far East

Assistance to ceramics industries	105.0
Regional workshop on refractories production	31.0

Europe and the Middle East

Assistance in the development of the cement industry	50.0
Research in building materials	45.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 4: Chemical, pharmaceutical and  
pulp and paper industries

Africa

Pilot plant for processing medicinal plants	150.0
Assistance to basic chemical industries	120.0
Development of pharmaceutical industries	130.0
Regional meeting on manufacture of basic chemicals	10.0

The Americas

Pulp and paper industry	60.0
Assistance to sulphuric acid plants	110.0
Exploitation of rock salt and sea salt	70.0
Sectoral assistance to the pharmaceutical industry	65.0
Feasibility studies, design and planning of sewerage works	130.0
Assistance to chemical industries	180.0
Cellulose nitrate production	50.0
Silicon carbide	25.0
Utilization of excess chlorine	40.0

Asia and the Far East

Development of pulp and paper industries	130.0
Pulp and paper technology	70.0
Assistance to basic chemical industries	160.0
Development of pharmaceutical industries	70.0
Regional establishment of pharmaceutical industry sectors including contraceptives	13.0
Regional workshop on efficiency in pulp and paper mills	15.0

Europe and the Middle East

Development of pulp and paper industries	55.0
Feasibility studies for the development of chemical industries	90.0

Group 5: Fertilizer, pesticide and  
petrochemical industries

Africa

Use of anhydrous ammonia as source of nitrogen for agriculture	130.0
Assistance in pesticide formulation	35.0
Feasibility studies on the development of petrochemical industry	250.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 5: Fertilizer, pesticide and  
petrochemical industries (cont'd)

Africa (cont'd)

Pre-feasibility study on fertilizer industry	110.0
Expert team for plastics production and utilization	30.0
Feasibility and market study on production of chemical products derived from chlorine	100.0
Regional development of the fertilizer and pesticide industry	19.0

The Americas

Centres for petrochemical studies	150.0
Assistance in the field of plastics technology	125.0
Assistance to the pesticide industry	25.0
Assistance in establishing a bromine recovery plant and manufacture of brominated nematocides	60.0
Development of the plastics products industry	130.0
Feasibility study for fertilizer production plants	120.0
Petrochemical industries	140.0
Plastics technology centre	60.0
Petrochemical marketing	25.0
Regional sectoral training programme in plastics manufacturing	15.0

Asia and the Far East

Industrial marketing surveys on petroleum derivatives and natural gas	135.0
Assistance in the establishment of a plant to manufacture wood preservatives	100.0
Assistance in the establishment of a polymer research laboratory	95.0
Assistance to pesticide formulation industries	100.0
Assistance to nicotine production (pesticide) industry	50.0
Pre-feasibility survey on pesticide and plant hormone industries in the ECAFE region	60.0
Plastics technology centre	95.0
Assistance to petrochemical industries	110.0
Regional seminar on plastics application	23.0

Europe and the Middle East

Feasibility studies for investment promotion of fertilizer industry	100.0
Assistance in the production of basic pesticides	65.0
Plastics technology centres	150.0
Assistance in development of the phosphate industry	60.0
Pre-feasibility studies for the development of petrochemical industries	130.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
 (in thousands of US \$)

Group 5: Fertilizer, pesticide and  
 petrochemical industries (cont'd)

Interregional

Seminar on plastics application	30.0
Sectoral training programme in plastics technology	36.0

Group 6: Light industries

Africa

Assistance in training centres for knitting, hosiery and clothing industries	180.0
Centre for developing production and inspection of furniture	85.0
Food industries development centre	70.0
Leather footwear testing and development centres	200.0
Assistance to the cassava industry	50.0
Assistance to leather and leather products industries	50.0
Reptile tanning techniques	75.0
Regional symposium on prospects for industrial meat processing	19.0
Regional seminar on furniture and other secondary wood processing industries	29.0

The Americas

Food processing demonstration plants	160.0
Centre for the development of the footwear industry	80.0
Promotion of leather export industries	110.0
Assistance to the leather products industries	145.0
Tropical fruit and vegetable processing	145.0
Protein production from spirulina	35.0
Animal feedstuffs	25.0
Design of wooden furniture	20.0
Fish protein concentrate development	60.0
Regional seminar on processing of cassava for export markets and domestic consumption	20.0
Regional seminar on modernization and diversification of the cane-sugar industry	38.0
Regional seminar on food processing and packaging	20.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 6: Light industries (cont'd)

Asia and the Far East

Assistance to the footwear industries	120.0
Fruit and vegetable processing	100.0
Assistance in the establishment of a modern wool dyeing and finishing plant	50.0
Assistance to the leather industry	45.0
Development of meat industry technology	55.0
Applied research centre for the food industry	85.0
Development of meat industry technology	65.0
Applied research centre for the food industry	30.0
Assistance to the rubber industry	30.0
Regional symposium on engineering aspects of up-to-date coconut processing	40.0

Europe and the Middle East

Assistance to the leather industry	60.0
Pre-feasibility studies on the establishment of agro-industrial complexes	130.0
Assistance to the textile industry in management and technology	230.0
Assistance to leather garment tannery	50.0
Assistance in the erection of fish meal plant	70.0
Regional workshop on leather industries development	17.0

Interregional

Expert group meeting on the selection of food processing equipment	15.0
Expert group meeting on manufacture of adhesives for the wood processing industries	15.0
Workshop on criteria for the choice of production processes in wood processing industries	22.0

Group 7: Industrial administration

Africa

Assistance to industrial properties offices	140.0
Industrial legislation advice	60.0



Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 7: Industrial administration (cont'd)

The Americas

Public industrial administration	60.0
Industrial legislation	35.0
Patents	15.0
Licensing	35.0

Asia and the Far East

Industrial legislation	70.0
Fire safety assistance	30.0
Advice on licensing and patents legislation	60.0

Europe and the Middle East

Licensing and patents legislation adviser	45.0
Industrial administration techniques	30.0

Group 8: Industrial institutions

Africa

Establishment of laboratories for quality control of production for state companies	150.0
Industrial research centres	420.0

The Americas

Standardization and quality control	115.0
Regional sectoral training programme in industrial research	20.0
Regional sectoral training programme in industrial co-operatives	20.0

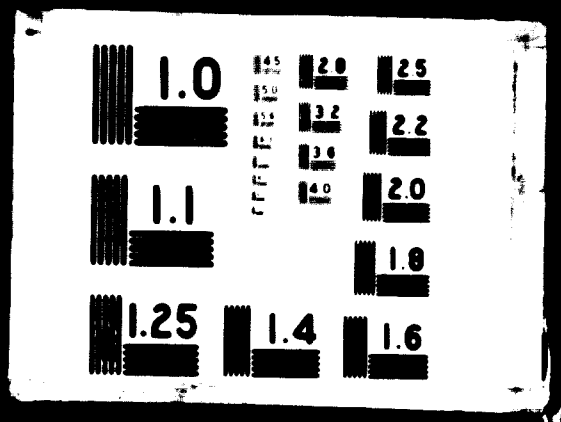
Asia and the Far East

Assistance in standardization and quality control	80.0
Assistance in applied metrology	110.0
Training centre for industrial standards	80.0
Assistance in industrial standards and quality control	120.0
Assistance to an institute of standards and industrial research	50.0



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Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 8: Industrial institutions (cont'd)

Europe and the Middle East

Centres for metrology and instrument repair	150.0
Industrial training centre	60.0
Assistance to an industrial standards and quality control centre	30.0
Establishment of national standards organization	170.0
Regional workshop for managerial staff of chamber of commerce and industry	20.0

Group 9: Industrial information

Africa

Industrial documentation and information centre	80.0
Establishment of regional and subregional industrial information and documentation centres	230.0

The Americas

Assistance in industrial information and documentation	40.0
Training of industrial information personnel	50.0
Regional financial assistance on extension services for the promotion of small-scale industries	9.0

Asia and the Far East

Assistance in the establishment of a technical information bureau	35.0
Assistance in establishing a trade information centre	60.0
Assistance in the establishment and operation of a centre of industrial information and studies	65.0
Regional training course for the upgrading of industrial information personnel	25.0

Europe and the Middle East

Assistance to a Building Materials Institute in the establishment of an industrial information centre	80.0
Assistance in the establishment of an industrial information and documentation centre	65.0
Assistance in the field of industrial information and documentation	30.0

Interregional

Seminar for industrial information officers	25.0
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Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 10: Industrial management and consulting services

Africa

Assistance to management consultancy institutes	80.0
Assistance to the organization of public sector economic enterprises	130.0
Industrial management clinics	110.0
Consultancy services for industry	80.0

The Americas

Assistance in the reorganization and establishment of industrial consulting units	130.0
Upgrading of entrepreneurial and managerial capacity	200.0
Management development and productivity centres	125.0

Asia and the Far East

Consulting services	130.0
Industrial management clinics	140.0
Training in modern management techniques	80.0

Europe and the Middle East

Introduction of computing techniques for industrial management	180.0
Management assistance to textile industry	60.0
Advisory services for industrial management	30.0

Group 11: Small-scale industry and related activities

Africa

Assistance to the small-scale industries - extension services	140.0
Establishment of industrial estates	300.0
Industrial extension services for the small-scale industry	150.0
Small-scale industry development centres	250.0
Regional training of industrial extension officers for the promotion of indigenous enterprises	90.0
Regional partnerships scheme on co-operation in small-scale and medium-sized industry	66.0

The Americas

Financing of small-scale industry	50.0
Industrial zones and parks	85.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 11: Small-scale industry and related activities (cont'd)

Asia and the Far East

Assistance to industrial parks	45.0
Assistance in the integrated development of small-scale industries	145.0
Assistance to a small-scale industries corporation	45.0
Assistance in the establishment of industrial estates and related activities	135.0
Extension services for small-scale industries	120.0

Europe and the Middle East

Development of small-scale industries	30.0
Establishment and development of industrial estates	140.0

Group 12: Industrial programming, project planning and policies

Africa

Centres for industrial studies and development	200.0
Assistance to a development corporation	160.0
Consultancy services to assist a Ministry of Commerce in project formulation and evaluation	55.0
Industrial studies and development centres	340.0
Regional appraisals of progress in the field of industry under the International Development Strategy	255.0

The Americas

Industrial policies and programming	290.0
Regional appraisals of progress of industry under the International Development Strategy	182.0
Regional Caribbean integration programme	60.0
Regional Central American integration programme	71.0

Asia and the Far East

Assistance in cost accounting and industrial data processing	120.0
National economic programming and planning	170.0
Regional planning and development	90.0
Project implementation and follow-up	100.0
Regional workshop on tariff and other protection policies for industrial development	20.0
Regional appraisals of progress in industry under the International Development Strategy	183.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 12: Industrial programming, project  
planning and policies (cont'd)

Europe and the Middle East

Establishment and initial operation of a department of project evaluation, implementation and follow-up control	180.0
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Group 13: Industrial financing and  
investment promotion

Africa

Establishment of industrial promotion centres	145.0
Investment promotion centres	120.0
Regional evaluation of the national economic, commercial and financial profitability of industrial projects	34.0
Regional workshop on tariff and other protection policies for industrial development	9.0
Regional training workshop in financial analysis and planning for industrial projects	20.0
Regional workshop in techniques of investment promotion	26.0
Regional investment promotion programme	86.0

The Americas

Industrial investment promotion	100.0
Assistance to industrial banking centres	280.0
Regional workshop on tariff and other protection policies for industrial development	20.0

Asia and the Far East

Assistance to industrial development banks	75.0
Assistance in industrial banking	80.0
Assistance in development of industrial policies	110.0
Investment promotion	60.0
Regional training workshop in industrial banking techniques	20.0
Regional workshop on techniques of investment promotion	26.0
Regional investment promotion programme	161.0

Europe and the Middle East

Assistance to agencies for the promotion of industrial investments	150.0
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Interregional

Investment promotion - interregional advisers	70.0
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Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 14: Promotion of export-oriented industries

Africa

Product adaptation techniques	140.0
Assistance to export-oriented industries	120.0
Regional international subcontracting programme	95.0

The Americas

Industrial free zones	150.0
Utilization of excess capacity for export	70.0
Capital goods industry	80.0
Export-oriented industries	75.0
Industrial free zone promotion and development	65.0
Regional training joint venture agreements negotiations	25.0
Regional international subcontracting programme	95.0
Regional programming of industrial exports	35.0

Asia and the Far East

Development of export potential of metalworking industries	100.0
Study of export potential of selected industries	60.0
Identification of industries with export potential	110.0
Export incentive measures	65.0
Utilization of excess capacity for export	45.0
Regional training course in the development of industrial exports	35.0
Regional international subcontracting programme	95.0

Europe and the Middle East

Product development and product adaptation	60.0
Regional meeting on export promotion and development of manufactured goods	23.0

Interregional

Promotional meeting for the transfer of technology and know-how through subcontracting and licensing agreements	40.0
Second consultation meeting on product adaptation for export	60.0
International subcontracting programme	42.0



Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 15: Industrial surveys and studies

Africa

Country industrial surveys	130.0
Regional training workshop in methods of industrial surveys	40.0

The Americas

Industrial survey missions	180.0
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Asia and the Far East

Industrial survey missions	180.0
Regional training workshop in methods of industrial survey	40.0

Europe and the Middle East

Industrial survey missions	140.0
Industrial survey techniques	50.0

Interregional

Seminar on methods of industrial surveys within the framework of regional and subregional integration	35.0
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Group 16: Industrial training

Africa

Achievement motivation training	50.0
Industrial training advisers	110.0
Industrial training (individual fellowships in selected industrial branches)	130.0

The Americas

Industrial training (individual fellowships in selected industrial branches)	180.0
Achievement motivation training (expert advice)	100.0

Asia and the Far East

Industrial training (individual fellowships)	260.0
Achievement motivation training	80.0
Regional sectoral training programme in mechanical industries	10.0
Regional sectoral training programme in basic chemicals	10.0
Regional sectoral training programme in the mechanical industry	17.0
Regional sectoral training programme in food processing	15.0

Forecast of requirements for additional operational projects in 1973 (cont'd)

Estimated requirements  
(in thousands of US \$)

Group 16: Industrial training (cont'd)

Europe and the Middle East

Industrial training (individual fellowships in selected industrial branches)	520.0
Regional sectoral training programme in industrial design	20.0
Regional sectoral training programme in cotton textiles	15.0

Interregional

Sectoral training programme in the shoe industry	23.0
Sectoral training programme in maintenance and repair of instruments and measuring equipment	25.0
Sectoral training programme in ship repair and maintenance systems	23.0
Sectoral training programme in textile industry	26.0
Sectoral training programme in food processing	35.0
Sectoral training programme in materials handling	35.0
Sectoral training programme in electric welding	23.0
Sectoral training programme in organization of standardization systems in manufacturing industries	23.0
Sectoral training programme in fertilizer industry	15.0
Sectoral training programme in metalworking industry	23.0
Sectoral training programme in petrochemical industry	25.0

Group 17: Industrial branch reports and across-the-board techniques

Africa

Establishment of packaging quality control and promotion centre	180.0
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The Americas

Packaging industry	55.0
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Asia and the Far East

Assistance for packaging and product improvement	85.0
Regional workshop on industrial waste utilization and non-polluting technology	23.0
Regional sectoral training programme on packaging for export goods	43.0

Europe and the Middle East

Assistance in the field of packaging industry	230.0
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**LIST THREE**

**IN-PLANT TRAINING COURSES, 1971 TO 1978<sup>1</sup>**

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<sup>1</sup> The in-plant training courses fall within the operational activities of Group 16 (Industrial Training).

IN-PLANT TRAINING COURSES HELD DURING 1971

<u>Training sector</u>	<u>Country</u>
Electrical industry	Sweden
Food processing (I)	United Kingdom
Food processing (II)	India
Industrial information	Union of Soviet Socialist Republics
Iron and steel	Union of Soviet Socialist Republics
Maintenance - transportation equipment	Federal Republic of Germany
Management of maintenance and repair	Italy
Management of maintenance systems	Sweden
Mechanical industry	Japan
Metalworking industry	Union of Soviet Socialist Republics
Pesticides	United States of America
Plastics technology	Austria
Pulp and paper	Sweden
Standardization	Union of Soviet Socialist Republics
Textile industry (I)	Poland

IN-PLANT TRAINING COURSES PLANNED FOR 1972

<u>Training sector</u>	<u>Country</u>
Basic chemicals	Japan
Cement industry	Denmark
Chemical industry	Switzerland
Cotton textile industry	Egypt
Diesel engines	Czechoslovakia
Electric welding	Union of Soviet Socialist Republics
Fertilizer industry	Union of Soviet Socialist Republics
Financial management	Federal Republic of Germany
Food processing (I)	United Kingdom
Food processing (II)	India
Industrial consultancy	Federal Republic of Germany
Industrial information	Union of Soviet Socialist Republics

IN-PLANT TRAINING COURSES PLANNED FOR 1972 (cont'd)

<u>Training sector</u>	<u>Country</u>
Iron and steel	Union of Soviet Socialist Republics
Maintenance - instruments	Hungary
Maintenance - transportation equipment	Federal Republic of Germany
Management of maintenance and repair	Italy
Management of maintenance systems	Sweden
Materials handling	United Kingdom
Mechanical industry	Japan
Metalworking industry	Union of Soviet Socialist Republics
Pesticides	United States of America
Plastics technology	Austria
Pulp and paper	Sweden
Ship repair and maintenance	Norway
Standardization	Union of Soviet Socialist Republics
Systems analysis	Federal Republic of Germany
Textile industry	Poland
Value analysis/engineering	Denmark

IN-PLANT TRAINING COURSES PLANNED FOR 1973

<u>Training sector</u>	<u>Country</u>
Basic chemicals	Japan
Cotton textile industry	Egypt
Diesel engines	Czechoslovakia
Electric welding	Union of Soviet Socialist Republics
Electrical industry	Sweden
Engineering industry	Switzerland
Fertilizer industry	Union of Soviet Socialist Republics
Financial Management	Federal Republic of Germany
Food processing (I)	United Kingdom
Food processing (II)	India
Industrial consultancy	Federal Republic of Germany
Industrial co-operatives	Poland
Industrial design	Egypt

IN-PLANT TRAINING COURSES PLANNED FOR 1973 (cont'd)

<u>Training sector</u>	<u>Country</u>
Industrial information	Union of Soviet Socialist Republics
Industrial management	Italy
Iron and steel	Union of Soviet Socialist Republics
Maintenance - instruments	Hungary
Maintenance - transportation equipment	Federal Republic of Germany
Management of maintenance and repair	Italy
Management of maintenance systems	Sweden
Materials handling	United Kingdom
Mechanical engineering	Pakistan
Mechanical industry	Japan
Metalworking industry	Union of Soviet Socialist Republics
Packaging	Spain
Pesticides	United States of America
Petrochemical industry	Romania
Plastics industry	Argentina
Plastics technology	Austria
Pulp and paper	Sweden
Quality control	Sweden
Ship repair and maintenance	Norway
Shoe industry	Czechoslovakia
Standardization	Union of Soviet Socialist Republics
Systems analysis	Federal Republic of Germany
Textile industry	Poland

**LIST FOUR**

**SYMPOSIA, SEMINARS, WORKSHOPS AND OTHER MEETINGS,  
1971 TO 1978**

SYMPOSIA, SEMINARS, WORKSHOPS AND OTHER MEETINGS HELD DURING 1971

<u>Project Component</u>		<u>Place</u>
<u>Group 1: Engineering Industries</u>		
1.03.04	National maintenance week	Istanbul
1.04.01	Regional seminar on machine tools in developing countries	Varna, Bulgaria
<u>Group 2: Metallurgical Industries</u>		
2.05.01	Workshop on the creation and transfer of metallurgical know-how	Jamshedpur, India
<u>Group 3: Construction and Building Materials Industries</u>		
3.07.01	Meeting of directors of building research institutes and development organizations in the ECAFE region	Melbourne
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>		
5.01.05	Second interregional fertilizer symposium	Kiev New Delhi
5.03.04	Third interregional training course for industrial production of pesticides	Syracuse, N.Y.
<u>Group 6: Light Industries</u>		
6.02.06	Joint UNIDO/FAO/ECAFE interregional seminar on the industrial processing of rice	Madras, India
6.03.03	Seminar on furniture and other secondary wood processing industries	Helsinki
6.04.01	Seminar on the development of the leather and leather products industries in Africa	Vienna
<u>Group 8: Industrial Institutions</u>		
8.01.01	WAITRO meeting	Vancouver
8.01.03	Joint regional consultation meeting with a view to stimulating industrial research in Latin America	Bogot#
8.02.01	Training workshop for personnel engaged in standardization in Latin America	Santiago, Chile
8.02.05	Training workshop on metrology for participants from Asian countries	Nagoya, Japan
8.03.01	Regional training workshop on the organization and administration of industrial services in Latin America	Santiago, Chile



SYMPOSIA ... DURING 1971 (cont'd)

Project  
Component

Place

Group 9: Industrial Information

- |         |  |        |
|---------|--|--------|
| 9.01.03 | Regional training workshop for the upgrading of industrial information personnel | Moscow |
| 9.01.04 | Interregional seminar for industrial information officers                        | Lima   |

Group 11: Small-scale Industry and  
Related Activities

- |          |   |           |
|----------|---|-----------|
| 11.01.02 | Training workshop on extension services for small-scale industry        | Kinshasa  |
| 11.04.06 | Meeting on the promotion of small-scale industries in the RCD countries | Tehran    |
| 11.05.01 | Seminar on financing of small-scale industry in Asia and the Far East   | New Delhi |

Group 12: Industrial Programming,  
Project Planning and Policies

- |          |  |        |
|----------|--|--------|
| 12.06.01 | Seminar on selected aspects of industrial policy | Beirut |
|----------|--|--------|

Group 13: Industrial Financing and  
Investment Promotion

- |          |  |                                |
|----------|--|--------------------------------|
| 13.06.01 | Two training workshops in financial planning and analysis techniques for industrial projects | Singapore<br>Alexandria, Egypt |
|----------|--|--------------------------------|

Group 14: Promotion of Export-Oriented Industries

- |          |   |          |
|----------|---|----------|
| 14.05.01 | Training course on industrial export development  | Belgium  |
| 14.05.02 | Interregional training seminar on the utilization of excess capacity in developing countries for export | Istanbul |

SYMPOSLA, SEMINARS, WORKSHOPS AND OTHER MEETINGS PLANNED FOR 1972

<u>Project - Component</u>		<u>Place</u>
<u>Group 1: Engineering Industries</u>		
1.03.04	One or two national maintenance weeks	
1.04.01	Regional seminar on machine tools for countries in Latin America	Buenos Aires
<u>Group 2: Metallurgical Industries</u>		
2.05.02	Meeting on the promotion of metallurgical technology transfer to the metals transforming industries of developing countries	Buenos Aires
<u>Group 3: Construction and Building Materials Industries</u>		
3.01.01	Interregional seminar on the manufacture of cement	Holte, Denmark
3.04.01	Workshop on clay building materials industries in Latin America	Karlovy Vary, Czechoslovakia
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>		
5.01.02	Meeting on the development of the fertilizer and pesticide industries in developing countries in the ECE region	Bucharest
5.04.05	Symposium on the development of the plastic fabrication industry	Bogota
<u>Group 6: Light Industries</u>		
6.04.02	Regional seminar on the development of the footwear manufacturing and the leather goods manufacturing industries	Madras, India
<u>Group 7: Industrial Administration</u>		
7.01.01	Regional training workshop of public industrial administrators of Arab countries in the Middle East and North Africa	Kuwait
7.01.01	Regional training workshop for public industrial administrators in Africa	Addis Ababa
7.03.01	Training workshop for senior personnel of patent offices in Asian countries	
7.04.04	Symposium on problems and prospects of industrial licensing in developing countries	New York

SYMPOSIA ... FOR 1972 (cont'd)

Project  
Component

Place

Group 8: Industrial Institutions

8.01.01	WAITRO meeting 1972	Antibes
8.01.02	Regional workshop for Asia to stimulate industrial research activities	
8.01.03	National joint consultations for the development and strengthening of industrial research activities	Pakistan Thailand
8.02.01	Subregional training workshop on standardization and metrology for participants from French-speaking African countries	Dakar
8.02.03	Training workshop for personnel responsible for quality control	Cairo
8.02.03	Regional training workshop on quality control	Tehran
8.03.02	Regional workshop on industrial co-operatives in Africa	Dar-es-Salaam
8.03.03	Regional workshop for managerial staff of chambers of commerce and industry	Latin America
8.03.05	Joint consultations and discussions with local officials of chambers of commerce and industry	Turkey Africa
8.04.02	Joint consultations for effective fair administration in developing countries	Milan

Group 9: Industrial Information

9.01.03	Training course for upgrading of industrial personnel for French-speaking countries in Africa	Moscow
9.01.04	Seminar for industrial information officers	Addis Ababa

Group 11: Small-scale Industry and  
Related Activities

11.01.01	Group training programme for industrial extension officers from Latin American countries	Latin America
11.01.01	Group training programme for industrial extension officers from French-speaking African countries	Kinshasa
11.02.02	Training workshop on industrial free zones	Shannon, Ireland
11.03.05	Seminar on low-cost automation	

SYMPOSIUM ... FOR 1972 (cont'd)

<u>Project Component</u>		<u>Place</u>
<u>Group 12: Industrial Programming, Project Planning and Policies</u>		
12.01.02	Seminar on plans and policies for the development of electrical engineering industries in Latin America	Latin America
12.06.03	Two regional workshops on tariff and other protection policies	Africa Asia and the Far East
12.07	Interregional seminar on the operation of industrial planning systems	
<u>Group 13: Industrial Financing and Investment Promotion</u>		
13.06.01	Regional workshops in financial planning and analysis techniques for industrial projects for participants from French-speaking African countries	
13.06.01	Regional workshop in financial planning and analysis techniques for industrial projects for participants from Spanish-speaking Latin American countries	
13.06.03	Workshop on industrial banking techniques	
13.07.02	Training workshop on industrial joint venture agreement negotiations	Kuala Lumpur
13.09.02	Second Asian meeting to promote specific industrial projects	Singapore
13.09.02	Third African meeting to promote specific industrial projects	Abidjan
13.09.02	National investment promotion meeting	
<u>Group 14: Promotion of Export-oriented Industries</u>		
14.01.02	Promotional meeting for transfer of technology and know-how through subcontracting and licensing agreements	Paris
14.02.02	Consultation conference on product development for exports	New York
14.03.01	Training workshop on industrial free zones as incentives to promote export-oriented industries	Shannon, Ireland
14.05.01	Training course on industrial export development for participants from French-speaking developing countries	

SYMPOSIA ... FOR 1952 (cont'd)

Project  
Component

Place

Group 17: Industrial Branch Reports  
and Across-the-Board Techniques

17.03.02	Seminar on the production and use of tin plate containers in the developing countries	Santiago, Chile
17.03.04	Regional symposium on packaging research and development centres	Cairo

SYMPOSIA, SEMINARS, WORKSHOPS AND OTHER MEETINGS PLANNED FOR 1973

<u>Project</u> <u>Reference</u>		<u>Place</u>
<u>Group 1: Engineering Industries</u>		
1.01.03	Manufacturing development clinic for animal-drawn implements and hand-operated agricultural machines	India
1.01.10	Workshop on selection of stationary and mobile maintenance and repair workshops for agricultural machinery and implements	Moscow
1.01.11 (Priority B)	Meeting on small low-cost agricultural tractors and power tillers	
1.03.02	Regional symposium on maintenance planning and organization	Japan
1.03.04	Two national maintenance weeks	
1.04.01	Regional seminar on machine tools in developing countries	
1.05.06 (Priority B)	Workshop on ferro-cement boat building	
<u>Group 2: Metallurgical Industries</u>		
2.03.06	Third interregional iron and steel symposium	
<u>Group 3: Construction and Building Materials Industries</u>		
3.09.01	Workshop on the production of refractories	Vienna
<u>Group 4: Chemical, Pharmaceutical and Pulp and Paper Industries</u>		
4.01.04	Workshop on the manufacture of basic and secondary chemicals in Africa	
4.05.02	Workshop on pulp and paper production	
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>		
5.01.02	Regional meeting on the development of the fertilizer and pesticide industries in developing countries in the ECA region	
5.03.03	Workshop on pesticides	
5.04.11	Seminar on the application of plastics	London

SYMPOSIA ... FOR 1973 (cont'd)

Project  
Component

Place

Group 6: Light Industries

6.02.03	Seminar on the selection of food processing equipment	
6.02.04	Regional seminar for Latin America on processing of cassava (tapioca, manioc) for export markets and for domestic consumption	
6.02.10	Symposium on industrial meat processing in Africa	
6.02.11	Seminar on the modernization and diversification of the cane-sugar industry in developing countries	
6.02.12	Symposium on engineering aspects of up-to-date coconut processing	
6.03.05	Workshop on the manufacture of adhesives for the wood processing industries	Vienna
6.03.07	Workshop on criteria for the choice of production processes in wood processing industries	
6.04.04	Regional workshop on leather industry development	Vienna

Group 7: Industrial Administration

7.04.03 (Priority B)	Consultations on licensing	Latin America
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Group 8: Industrial Institutions

8.01.03	National joint consultations for the development and strengthening of industrial research activities	Africa Latin America
8.02.01	Consultations in standardization and quality control	United States of America
8.02.07	Consultations on the establishment and operation of national quality control systems in developing countries	
8.03.03	Regional workshop for managerial staff of chambers of commerce and industry of Arab countries of Africa and the Middle East	Africa
8.03.05	Joint consultations and discussion meetings for local industrialists of the Government and national chambers of commerce and industry	Latin America

Group 9: Industrial Information

9.01.03	Training course for the upgrading of industrial information personnel from English-speaking countries in Asia	Moscow
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SYMPODIA ... FOR 1973 (cont'd)

Project  
Component

Place

Group 11: Small-scale Industry and  
Related Activities

- 11.01.10 Group training programme on the development of extension services through intergovernmental and business organizations (in co-operation with OCAM)
- 11.01.10 Seminar on financial assistance and extension services for the promotion of small-scale industry in the Caribbean countries

Group 12: Industrial Programming,  
Project Planning and Policies

- 12.03 Regional training workshop on evaluation of commercial, financial and national economic profitability of industrial projects Dakar, Senegal
- 12.06.03 Two regional workshops on tariff and other protection policies Africa  
Latin America

Group 13: Industrial Financing and  
Investment Promotion

- 13.06.01 Training workshop in financial planning and analysis techniques for industrial projects Africa
- 13.06.03 Workshops on industrial banking techniques Africa  
Asia
- 13.07.02 Training workshop on industrial joint venture agreement negotiations Africa
- 13.09.02 Two meetings on investment promotion Africa  
Latin America

Group 14: Promotion of Export-oriented Industries

- 14.01.02 Promotional meeting for transfer of technology and know-how through subcontracting and licensing agreements
- 14.02.02 Consultation conference on product development for exports
- 14.04.01 Seminar on the appraisal of progress achieved through joint country missions on export-promising industries in the UNESOR region
- 14.05.01 Training course on industrial export development



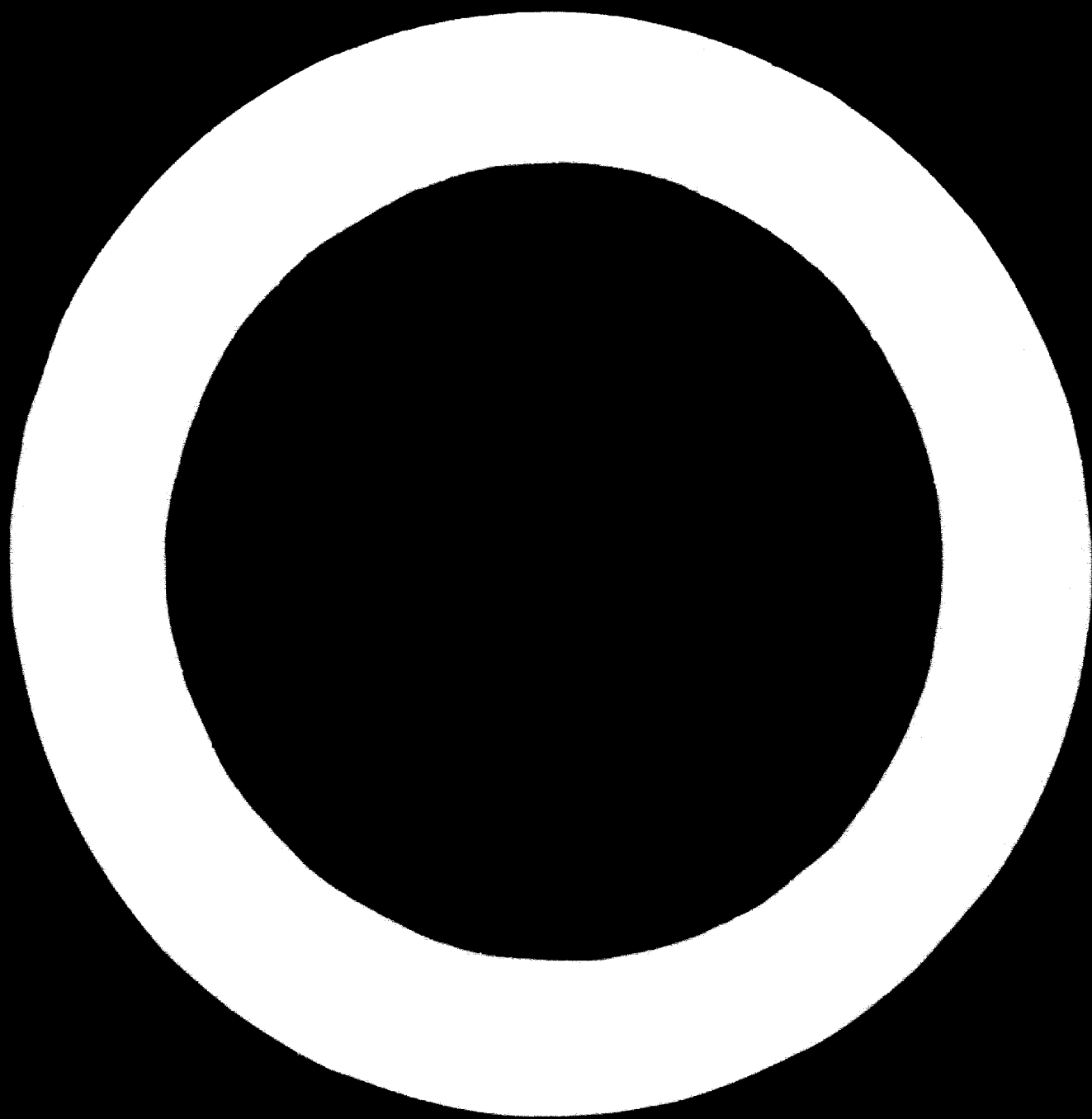
SYMPOSIA ... FOR 1974

Project  
Component

Area

Group 17: Industrial Transfer, Imports,  
and Across-the-Board Techniques

17.03.05	Seminar on food processing and packaging	Latin America
17.04.02	Workshop on industrial waste utilization and non-polluting technology	Bangkok



**LIST FIVE**

**EXPERT GROUP MEETINGS, 1971 TO 1973**

EXPERT GROUP MEETINGS HELD IN 1971

<u>Project Component</u>		<u>Place</u>
<u>Group 1: Engineering Industries</u>		
1.02.03	Expert group meeting on the manufacture of electronic components in developing countries	San Francisco, Calif.
<u>Group 3: Construction and Building Materials Industries</u>		
3.03.01	Expert group meeting on the use of plastics in the building industry	Vienna
<u>Group 4: Chemical, Pharmaceutical and Pulp and Paper Industries</u>		
4.05.01	Expert group meeting on pulp and paper	Vienna
<u>Group 6: Light Industries</u>		
6.02.08	Expert group meeting on processing selected tropical fruits and vegetables for export to premium markets	Salvador (Bahia)
<u>Group 7: Industrial Administration</u>		
7.01.04	Expert group meeting of the Government of Austria and UNIDO to consider more effective training in industrial administration	Vienna
<u>Group 8: Industrial Institutions</u>		
8.01.02	Expert group meeting on the stimulation of industrial research activities	Copenhagen
8.03.02	Expert group meeting on industrial co-operatives	Warsaw
<u>Group 9: Industrial Information</u>		
9.01.08	Expert group meeting on innovative approaches to the dissemination of industrial information through extension services	Vienna
<u>Group 10: Industrial Management and Consulting Services</u>		
10.01.01	Expert group meeting on the development of management consultancy	Santiago, Chile

EXPERT GROUP MEETINGS HELD IN 1961 (cont'd)

Project  
Component

Place

Group 11: Small-scale Industry  
and Related Activities

11.04.03 Expert group meeting on industrialization in countries at early stages of development, with special reference to small-scale industry

Vienna

Group 12: Industrial Programming,  
Project Planning and Policies

12.04.02 Expert group meeting on project implementation and related systems

Vienna

12.05 Expert group meeting on regional industrial co-operation

Vienna

12.06.02 Expert group meeting of consultants on industrial policies

Vienna

Group 13: Industrial Financing  
and Investment Promotion

13.05.02 Expert group meeting on co-operation among industrial development financing institutes in developing and developed countries

Copenhagen

Group 17: Industrial Branch Reports and  
Across-the-Board Techniques

17.03.01 Expert group meeting on packaging

Vienna

EXPERT GROUP MEETINGS PLANNED FOR 1972

<u>Project Component</u>		<u>Place</u>
<u>Group 2: Metallurgical Industries</u>		
2.03.06	Preparatory expert group meeting for the third interregional iron and steel symposium	Vienna
<u>Group 3: Construction and Building Materials Industries</u>		
3.05.01	Expert group meeting on prefabrication in Africa and the Middle East	Bucharest
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>		
5.01.09	Expert group meeting on transfer of know-how in production and use of catalysts	Bucharest
5.04.03	Expert group meeting on future trends in, and competition between, natural and synthetic rubber	Vienna
<u>Group 6: Light Industries</u>		
6.01.04	Expert group meeting on new yarn and fabric production	Manchester
6.02.05	Expert group meeting on pre-investment considerations and technical and economic production criteria in the oil-seed processing industry	Vienna
<u>Group 7: Industrial Administration</u>		
7.01.04	Expert group meeting on the establishment of an international centre for industrial administration	Vienna
7.04.01	Expert group meeting on licensing practices	Vienna
<u>Group 11: Small-scale Industry and Related Activities</u>		
11.06.01	Expert group meeting on domestic marketing of small-scale industry products	Dublin
<u>Group 12: Industrial Programming, Project Planning and Policies</u>		
12.03	Expert group meeting on the application of national investment criteria	Vienna
12.04.02	Expert group meeting on project implementation data	Algiers

EXPERT GROUP MEETINGS PLANNED FOR 1972 (cont'd)

<u>Project Component</u>		<u>Place</u>
<u>Group 12: Industrial Programming, Project Planning and Policies (cont'd)</u>		
12.04.04	Expert group meeting on industrial planning, implementation and follow-up machinery	Vienna
12.06.02	Expert group meeting of consultants on industrial policies	Vienna
<u>Group 13: Industrial Financing and Investment Promotion</u>		
13.05.02	Expert group meeting on co-operation among industrial development financing institutes in developing and developed countries	Canada
13.08.03	Expert group meeting to further co-operation among investment promotion centres	Asia
<u>Group 16: Industrial Training</u>		
16.01.02	Expert group meeting of in-plant group training directors	Vienna

EXPERT GROUP MEETINGS PLANNED FOR 1973

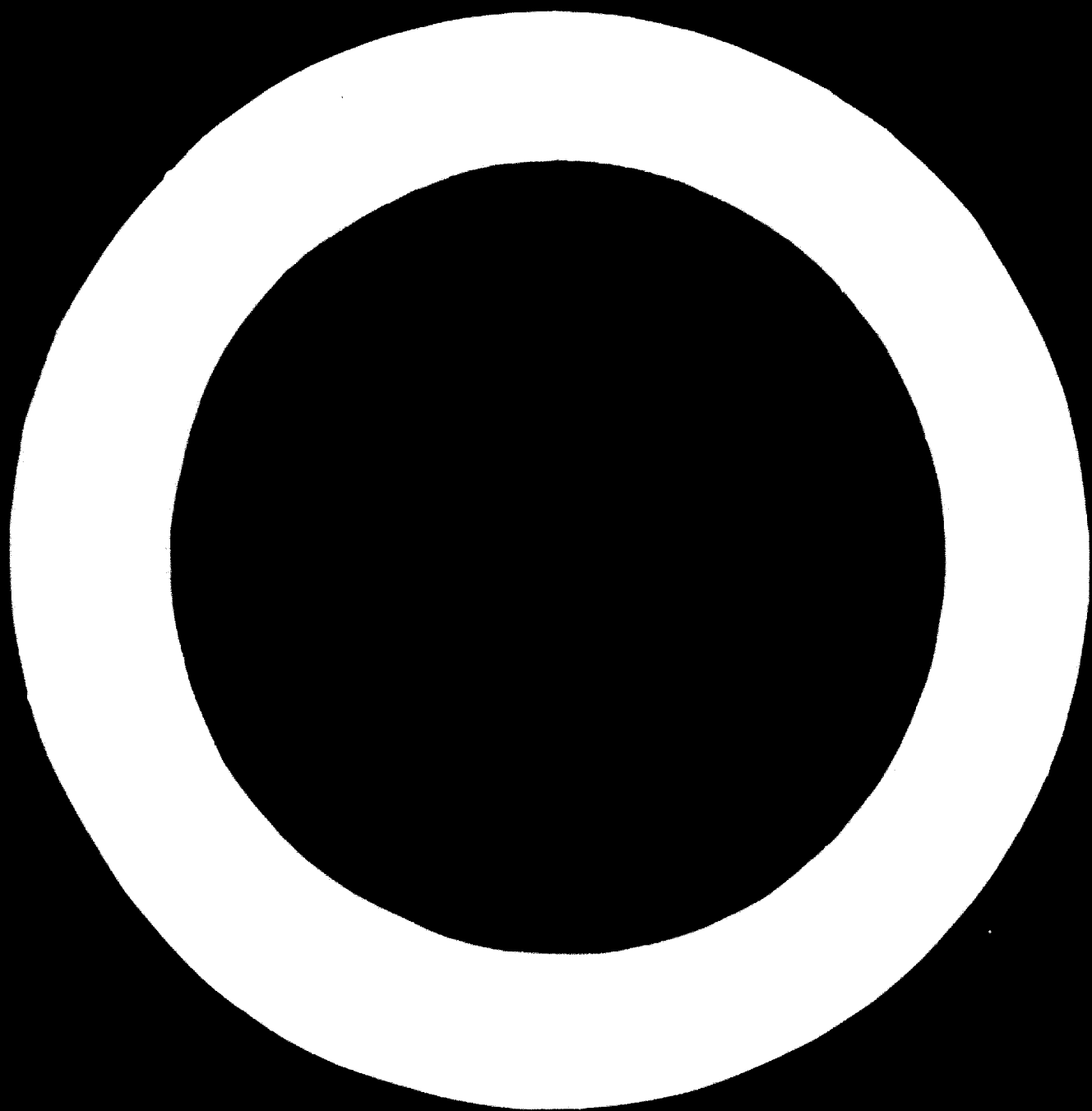
<u>Project Component</u>		<u>Place</u>
<u>Group 1: Engineering Industries</u>		
1.01.08	Expert group meeting on the design and manufacture of wet land (rice) harvesting and threshing machinery in developing countries	Manila
1.02.05 (Priority B)	Expert group meeting on the manufacture of semi-conductors on a subregional basis	
1.05.05 (Priority B)	Expert group meeting on the manufacture of fibre-glass reinforced plastic bodies for road vehicles	
<u>Group 3: Construction and Building Materials Industries</u>		
3.08.01	Expert group meeting on the construction industry in developing countries	Vienna
<u>Group 4: Chemical, Pharmaceutical and Pulp and Paper Industries</u>		
4.03.04	Expert group meeting on the establishment of pharmaceutical industry sectors, including contraceptive devices	
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>		
5.04.03	Expert group meeting on the development of the synthetic rubber industry	Romania
5.04.06	Expert group meeting on the manufacture of proteins from hydrocarbons	
<u>Group 6: Light Industries</u>		
6.02.13 (Priority B)	Expert group meeting on milling of African cereals particularly small millet grains	
6.03.04	Expert group meeting on the selection of woodworking machinery	Hannover
6.05.01 (Priority B)	Expert group meeting on the development of the graphics industry	
<u>Group 7: Industrial Administration</u>		
7.01.04	Expert group meeting on the establishment of an international centre for industrial administration	Vienna



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EXPERT GROUP MEETINGS PLANNED FOR 1973 (cont'd)

<u>Project Component</u>		<u>Place</u>
	<u>Group 10: Industrial Management and Consulting Services</u>	
10.06.01	Expert group meeting on industrial-university linkages for management and consulting services	
	<u>Group 11: Small-scale industry and Related Activities</u>	
11.01.10	Expert group meeting with a view to exchanging and disseminating experience on self-help programmes	
	<u>Group 12: Industrial Programming, Project Planning and Policies</u>	
12.06.02	Expert group meeting of consultants on industrial policies	Vienna
	<u>Group 13: Industrial Financing and Investment Promotion</u>	
13.05.02	Expert group meeting on co-operation among industrial development financing institutes in developing and developed countries	
	<u>Group 14: Promotion of Export-oriented Industries</u>	
14.03.01	Expert group meeting to evaluate the results achieved in the operation of various free zones	
	<u>Group 15: Industrial Surveys and Studies</u>	
15.02.04	Expert group meeting on projections of industrial development	
	<u>Group 16: Industrial Training</u>	
16.04	Expert group meeting to establish guidelines for technical assistance projects in the field of achievement motivation	Vienna



**LIST SIX**

**STUDIES AND RESEARCH PROJECTS, 1971 TO 1973**

STUDIES AND RESEARCH PROJECTS CARRIED OUT IN 1971

	<u>Project Component</u>
<u>Group 1: Engineering Industries</u>	
UNIDO/IDCAS agricultural machinery mission	1.01.03
Preparation of industrial branch studies on lorries, tractors and prime movers (an IDCAS document)	1.01.04
Paper on the agricultural machinery and implements industry in the Arab countries	1.01.04
Agricultural machinery and implements mission	1.01.05
Five studies: Design and development; maintenance and repair; storage and transport; professional agricultural societies; and the activities of manufacturers' associations in promoting the agricultural machinery industry	1.01.07
Paper on the role of UNIDO in promoting the manufacture of rice mechanization machinery in the developing countries	1.01.07
Manufacture of construction machinery (two studies)	1.08.01
<u>Group 2: Metallurgical Industries</u>	
Report of the seminar on tin plate production (mimeo.)	2.03.04
Portfolio of metallurgical technologies	2.05.02
<u>Group 3: Construction and Building Materials Industries</u>	
Investigations on fibro-cement composites	3.02.01
Five studies in the building materials industry	3.06.01
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>	
Studies on the underutilization of capacities in the fertilizer and pesticide industry (in the ECAFE region and in Pakistan)	5.01.04
Missions to investigate the availability of excess chlorine and its potential use for pesticide production (in ECLA and ECAFE regions)	5.03.01
Study on future trends in, and competition between, natural and synthetic rubber	5.04.03
Study on proteins from hydrocarbons (petro-proteins)	5.04.06

STUDIES AND RESEARCH PROJECTS CARRIED OUT IN 1964

Group 6: Light Industries

- Background papers for an IDCAS textile seminar 6.01.03
- Background papers for an expert group meeting on pre-investment considerations and technical and economic production criteria in the oil-seed processing industry 6.02.03
- Report of the seminar on the development of the leather and leather products industries in Africa (mimeo.) 6.04.01

Group 7: Industrial Administration

- Studies on licensing 7.04.03

Group 8: Industrial Institutions

- Report of the founding meeting of the World Association of Industrial and Technological Research Organizations (WAITRO) (mimeo.) 8.01.01

Group 9: Industrial Information

- Directories to sources of information by industrial sectors and on specific subjects 9.01.06
- Final report of the expert group meeting on innovative approaches to the dissemination of industrial information through extension services (mimeo.) 9.01.03
- Readership study (in connexion with UNIDO Newsletter) 9.05.03

Group 10: Industrial Management and Consulting Services

- Field investigations of organizational problems 10.03.01

Group 11: Small-scale Industry and Related Activities

- Report of the expert group meeting on industrialization in countries at early stages of development (mimeo.) 11.04.03
- Report of the meeting on the promotion of small-scale industries in the RCD countries (mimeo.) 11.04.06
- Studies on marketing methods and distribution channels 11.06.01
- Case studies on subcontracting 11.06.02
- Study on small-scale industry outside metropolitan areas 11.06

STUDIES AND RESEARCH PROJECTS CARRIED OUT IN 1971 (cont'd)

	<u>Project Component</u>
<u>Group 12: Industrial Programming, Project Planning and Policies</u>	
Studies on problems and techniques related to the selection of industrial development priorities	12.01.02
Advisory mission on industrial strategy (Senegal)	12.01.02
Analysis of resource allocation and actual costs in existing industries	12.01.03
Study on the implications of the pollution issue on the industrial project development strategy of the developing countries	12.02.01
Collection of reference studies on market analysis	12.03
Two studies on computer-oriented procedures for implementation, follow-up and control of industrial projects	12.04.05
Study on computer utilization in the industrialization of India	12.04.05
Case study on regional industrial co-operation in West Africa	12.05
Case studies of industrialization policy	12.06.01
Case studies of policies adopted in the state-owned manufacturing sector	12.06.05
<u>Group 13: Industrial Financing and Investment Promotion</u>	
Case studies on industrial financing	13.05.01
Portfolio of industrial projects	13.09.01
<u>Group 14: Promotion of Export-oriented Industries</u>	
Two studies on international subcontracting	14.01.01
Collection of information on industrial free zones	14.03.01
Mission to Morocco to identify industries with export potential	14.04.01
Studies of the industrial structure and export potential of the industry of specific countries	14.04.01
<u>Group 15: Industrial Surveys and Studies</u>	
Study on some special problems of industrial development of the smaller developing countries	15.02.01
Investigation of the effects of industrialization on manufacturing employment and productivity	15.02.02
Paper on fiscal incentives to promote employment (for an ILO expert group meeting)	15.02.02
Study on structural changes in manufacturing growth	15.02.03
Projections of industrial development	15.02.04

STUDIES AND RESEARCH PROJECTS CARRIED OUT IN 1971 (cont'd)

	<u>Project Component</u>
<b><u>Group 16: Industrial Training</u></b>	
Training course material	16.02
<b><u>Group 17: Industrial Branch Reports and Across-the-Board Techniques</u></b>	
Study on the pharmaceutical industry	17.02.06
Study on the tin plate industry	17.02.07
Assessment of the impact of major steelworks projects on the steel industry of developing countries	17.02.08
Study on the construction industry	17.02.12
Study on industrial development and human environment	17.04.01
Study on radio-isotopes and radiation in industrial development	17.05.01

STUDIES AND RESEARCH PROJECTS PLANNED FOR 1972

	<u>Project Component</u>
<u>Group 1: Engineering Industries</u>	
Agricultural machinery and implements mission	1.01.05
UNIDO-ECA agricultural machinery and implements mission	1.01.06 (Priority B)
Study on the design and manufacture of wet-land (rice) harvesting and threshing machinery in the developing countries	1.01.08
Studies on electrical equipment manufacture	1.02.06
Study on UNIDO sponsored mobile workshops	1.03.05
Report of the studies on manufacture of construction machinery (mimeo.)	1.08.01
<u>Group 2: Metallurgical Industries</u>	
Tin plate production (information on)	2.03.04
Internal report of the preparatory expert group meeting for the third interregional iron and steel symposium	2.03.06
Portfolio of metallurgical technologies (mimeo.)	2.05.02
<u>Group 3: Construction and Building Materials Industries</u>	
Studies in the building materials industry	3.06.01
Study on building components produced from silicious raw material	3.06.02 (Priority B)
Study on construction industry in developing countries	3.08.01
<u>Group 4: Chemical, Pharmaceutical and Pulp and Paper Industries</u>	
Regional survey of basic chemicals	4.01.02
Studies on secondary chemicals	4.01.03
Action team on extraction of essential oils from indigenous plants	4.04.02
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>	
Study on techno-economics of nitrophosphate fertilizers (mimeo.)	5.01.07
Study on reduction of fertilizer costs	5.01.10
Information paper on the establishment of a plastics technology centre	5.04.08
Visiting and consulting team for petrochemical and plastics industries	5.04.10



STUDIES AND RESEARCH PROJECTS PLANNED FOR 1962 (cont'd)

Project  
Number

Group 6: Light Industries

Preliminary survey and preparation of background documentation on prospects for industrial meat processing in developing countries 6.01.10

Documentation for a seminar on selection of woodworking machinery 6.03.04

Group 7: Industrial Administration

Manuals on industrial administration 7.01.03

Industrial legislation reviews 7.02.01

Studies on licensing 7.04.02

Paper on experiences and conditions in developing countries with regard to the acquisition of technology through licensing 7.04.04

Group 9: Industrial Information

Study on the long-term results of training courses for the upgrading of industrial information personnel 9.01.03

Reports of the seminars for industrial information officers (Tehran, Lima) (mimeo.) 9.01.04

Directories to sources of information by industrial sectors and on specific subjects (mimeo.) 9.01.06

Group 10: Industrial Management and Consulting Services

Field investigations of organizational problems 10.03.01

Preparatory investigation for industry-university linkages for management and consulting services 10.06.01

Group 11: Small-scale Industry and Related Activities

Evaluation study on the development of industrial estates 11.02.04

Case studies in adaptation of technology for small industry in selected countries 11.03.02

Studies on small-scale industry in centrally-planned economies 11.04.07

Case studies on subcontracting 11.06.02

Consultations on promotion of subcontracting in Latin America 11.06.03

STUDIES AND RESEARCH PROJECTS PLANNED FOR 1972 (cont'd)

	<u>Project Component</u>
<u>Group 12: Industrial Programming, Project Planning and Policies</u>	
Advisory mission on industrial strategy	12.01.02
Guidelines on production possibilities and programming methodology	12.01.03
Case studies on development of national industrial programming data systems	12.02.02
Case studies for the determination of national investment criteria	12.03
Collection of reference studies on market analysis	12.03
Study on computer utilization in the industrialization of India	12.04.05
Checklist for regional industrial co-operation within the manufacturing sector	12.05
Case studies of industrialization policy	12.06.01
Case studies of policies adopted in the state-owned manufacturing sector	12.06.05
<u>Group 13: Industrial Financing and Investment Promotion</u>	
Case studies on industrial financing (mimeo.)	13.05.01
Case studies on methods of mobilizing internal capital formation	13.05.04
Advisory missions on project evaluation and financing	13.06.06
Case studies on joint venture agreements	13.07.02
Portfolio of industrial projects	13.09.01
<u>Group 14: Promotion of Export-oriented Industries</u>	
Studies on special issues related to subcontracting	14.01.01
Collection of information on industrial free zones	14.03.01
Papers on selected issues of industrial free zones	14.03.01
Consultations on the establishment of international associations of producers for specific branches of industry	14.03.02 (Priority B)
Investigations on improved access to information on industrial products for export	14.03.03 (Priority B)
Missions to identify industries with export potential	14.04.01
Studies of the industrial structure and export potential of the industry of specific countries	14.04.01
Report of the training activities of Group 14 (mimeo.)	14.05.01

STUDIES AND RESEARCH PROJECTS PLANNED FOR 1972 (cont'd)

	<u>Project Component</u>
<u>Group 15: Industrial Surveys and Studies</u>	
Investigation of the effects of industrialization on manufacturing employment and productivity	15.02.02
Study on structural changes in manufacturing growth	15.02.03
Projections of industrial development	15.02.04
Synoptic presentation of industrial survey mission reports	15.05
<u>Group 16: Industrial Training</u>	
Study and analysis of experience gained in in-plant group training programmes	16.01.01
Evaluation of UNIDO's training programmes	16.01.03
Studies on improvement of selection and training procedures	16.01.06
Pilot study on training needs and procedures related to selection of candidates	16.01.06
Training course material	16.02
<u>Group 17: Industrial Branch Reports and Across-the-Board Techniques</u>	
Study on the agricultural machinery industry (mimeo.)	17.01.04
Study on the pharmaceutical industry	17.02.06
Study on the tin plate industry	17.02.07
Assessment of the impact of major steelworks projects on the steel industry of developing countries	17.02.08
Study on the construction industry	17.02.12
Perspective study of the inorganic basic chemicals industry	17.02.13
Study on industrial development and human environment	17.04.01
Consultations on product improvement and process control techniques	17.05.02

STUDIES AND RESEARCH PROJECTS PLANNED FOR 1973

	<u>Project Component</u>
<u>Group 1: Engineering Industries</u>	
Telecommunication equipment for rural areas (two studies)	1.02.01 (Priority B)
Market survey on manufacture of semi-conductors on a sub-regional basis	1.02.05 (Priority B)
Study on emergency techniques in maintenance and repair	1.03.07
Report on the studies on manufacture of construction machinery (revised edition)	1.08.01
<u>Group 3: Construction and Building Materials Industries</u>	
Study on building components produced from silicious raw material	3.06.02 (Priority B)
<u>Group 4: Chemical, Pharmaceutical and Pulp and Paper Industries</u>	
Studies on secondary chemicals	4.01.03
<u>Group 5: Fertilizer, Pesticide and Petrochemical Industries</u>	
Study on reduction of fertilizer costs (misc.)	5.01.10
Survey on co-ordination of pesticide production	5.03.05 (Priority B)
Visiting and consulting team for petrochemical and plastics industries	5.04.10
<u>Group 6: Light Industries</u>	
Study on restructuring of the textile industry in developing countries	6.01.06
<u>Group 7: Industrial Administration</u>	
Manuals on industrial administration	7.01.03
Industrial legislation reviews	7.02.01
Studies on licensing	7.04.02
<u>Group 8: Industrial Institutions</u>	
Survey of available training courses and those being planned	8.02.02

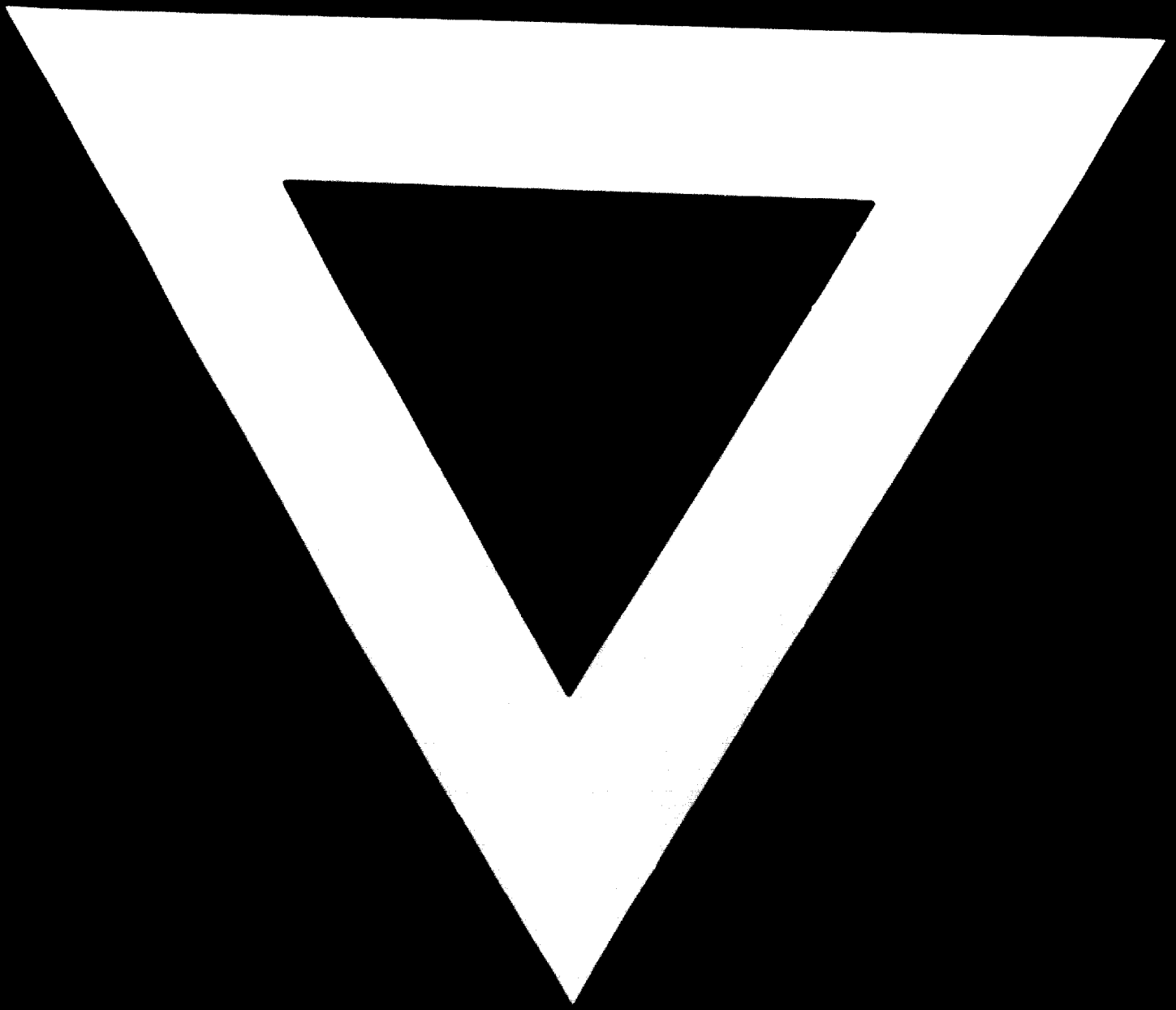
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STUDIES AND RESEARCH PROJECTS PLANNED FOR 1973 AND 1974

	<u>Priority</u>
	<u>Component</u>
<u>Group 10: Industrial Management and Consulting Services</u>	
Field investigations of organizational problems	10.03.01
Study on management needs and requirements for management assistance projects as envisaged in their industrial planning	10.03.03
<u>Group 11: Small-scale Industry and Related Activities</u>	
Guidelines on planning, establishing, financing and operating different types of industrial estates	11.02.04
Studies on financing of small-scale industry	11.05.04
Case studies on subcontracting	11.06.02
Consultations on promotion of subcontracting in Latin America	11.06.03
<u>Group 12: Industrial Programming, Project Planning and Policies</u>	
Advisory mission on industrial strategy	12.01.02
Analysis of effects of national policy measures on the establishment of facilities for maintenance and repair	12.01.03
Case studies on development of national industrial programming data systems	12.02.02
Collection of reference studies on market analysis	12.03
Case studies for the determination of national investment criteria	12.03
Studies on project implementation techniques and their applicability	12.04.01
Terms of reference and guidelines for pre-contractual arrangements	12.04.03
Case studies on the organizational structure of industrial planning, implementation and follow-up machinery	12.04.04
Case studies of industrialization policy	12.06.01
<u>Group 13: Industrial Financing and Investment Promotion</u>	
Case studies on methods of mobilizing internal capital formation	13.05.04
Advisory missions on project evaluation and financing	13.06.06
Portfolio of industrial projects	13.09.01
<u>Group 14: Promotion of Export-oriented Industries</u>	
Papers on selected issues of industrial free zones	14.03.01
Consultations on the establishment of international associations of producers for specific branches of industry	14.03.02 (Priority B)

STUDIES AND RESEARCH PROJECTS PLANNED FOR 1974 (cont'd)

	<u>Project Component</u>
<u>Group 14: Promotion of Export-Oriented Industries (cont'd)</u>	
Investigations on improved access to information on industrial products for export	14.03.03 (Priority B)
Missions to identify industries with export potential	14.04.01
Studies of the industrial structure and export potential of the industry of special countries	14.04.01
<u>Group 15: Industrial Surveys and Studies</u>	
Projections of industrial development	15.02.04
Development of methodology for analysis of industrial survey data	15.03.04
Synoptic presentation of industrial survey mission reports	15.05
<u>Group 16: Industrial Training</u>	
Study and analysis of experience gained in in-plant group training programmes	16.01.01
Evaluation of UNIDO's training programmes	16.01.03
Training course material (mimeo.)	16.02
<u>Group 17: Industrial Branch Reports and Across-the-Board Techniques</u>	
Perspective study of the leather industry	17.02.14
Perspective study on the iron and steel industries of the developing countries	17.02.15



**22.7.74**