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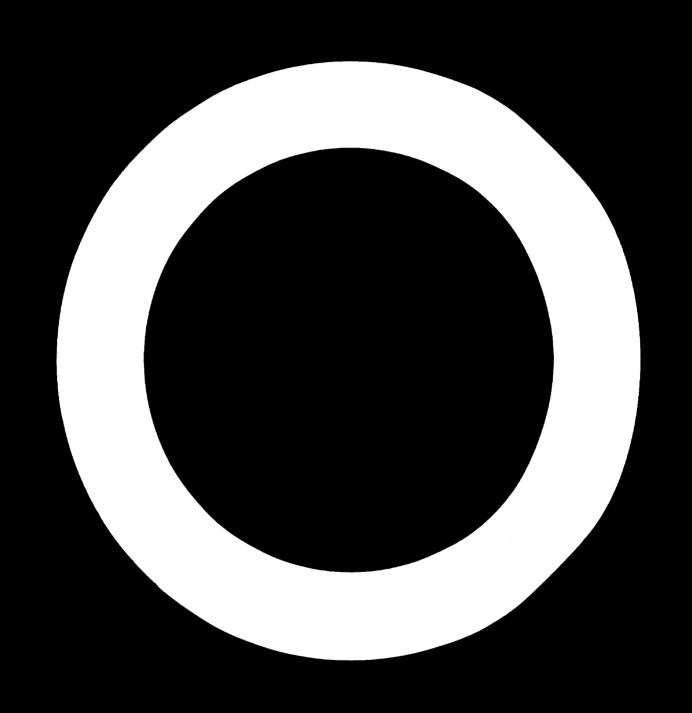
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SUMMARIES OF INDUSTRIAL DEVELOPMENT PLANS



SUMMARIES OF INDUSTRIAL DEVELOPMENT PLANS

VOLUME II



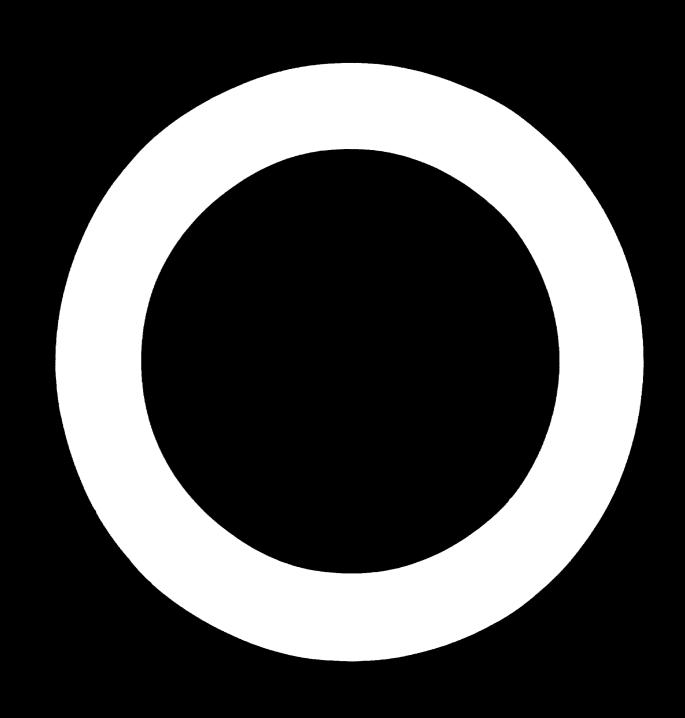
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PORSMORD

As in the case of the preliminary volume of this series, the purpose of the summeries contained in this issue is to provide readily usable information on the industrial development features contained in the economic development plans of several countries. The plane included in this welime cover the first part of the United Nations Second Development Decade and present data in industry in a systematic fashion; this will be if particular use to national planners in developing countries: in an economic development plan, items bearing directly or indirectly to the industrial sector are found under several chapters which are often dispersed in more than one wolline. Such information is, of course, included in terms of the national currency and language; the summaries presented here, however, are in a single currency and language to permit samy comparison and assimilation. This volume will be available in both Spanish and French in the near future. The reader's attention is drawn to the comparative tables found at the beginning of this volume.

The maps included in this volume have been obtained from the Map Collection of the United Nations Library in New York. The boundaries and place names shown on the maps are the responsibility of the publisher. Its use by the United Nations does not imply official endorsement or acceptance.

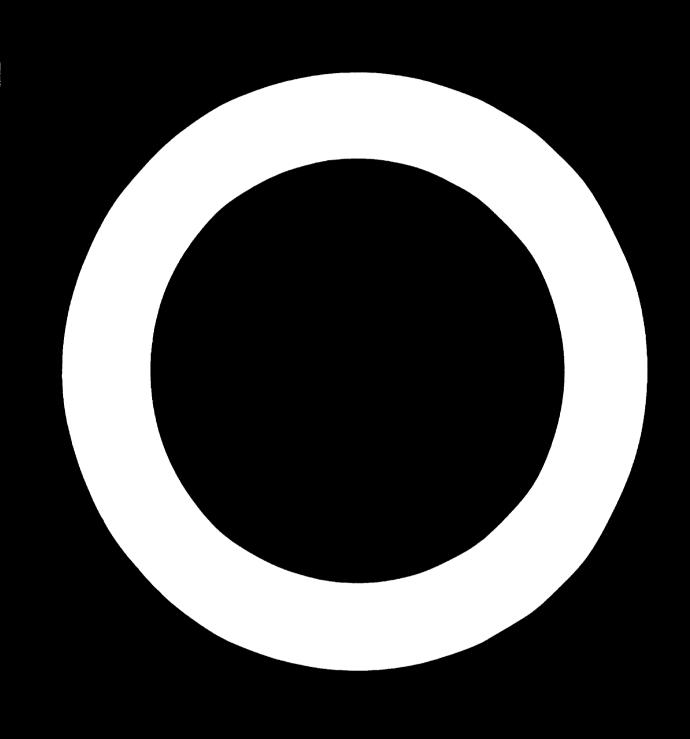
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I. 1 T	General background information Summary of the industrial development plan	387 - 413 414 - 432
ANNEX:	Planning techniques	433 - 441 .

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And the symmetries were prepared.

It should be noted that in some of the summaries more constiproduct (EP, figures are at factor cost while in other the, are it market prices. In many cases, however, the summaries of as in the case of which of these bases of calculation was seen. For this reas of the case seed for the calculation of the EPP is not shown in the summaries.

The summaries for most of the countries show planned growth in terms of manufacturing GDP. In several summaries, however, growth is shown in terms of industrial GDP, inasmuch as the country's plan did not show manufacturing separately. In these cases, industrial GDP usually includes

The first volume of this series was issued under the symbol Shine irru.

making and plantying, mater, see and electricity, in addition to making returner. The total for both, the electing year and the ending year of most of the plane are, of course, estimates. This explains the countries considerable difference in a country's artual reported 300 and the 300 which it used in the plan.

A major obstants in the propersion of thes series are the non-smallshillty of place covering the 1976-1979 period at 1888 Resignatures are started easy, it was preside to community the place of Iran, furbay, and Patrotan (Raytonal Go-sparetion for Revolutional), Respected Research (Raytona Joseph Rayton), South Rich (Santral American Santral Confortunately, the place of cortain countries of those regional groupings will only be evaluable late in 1971 and one only appear in a summarised form in Tolume III. The inclusion of the summary of the industrial development plan of Raytony util to followed later by summarises of the place of a her ORMA countries, Reigeria and Poland, whose economic development plane will appear during 1971.

Part I: "Emerol background information" has been compiled from all sources of information employee at MPRM, whereas Part II: "Gamery of the industrial development plan" to based entery on the published communic development plan of the respective country.

Sob-diviouss within those sections are as follows:

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- And a reserve of the vagetous of anti-time who is may reconstruct or a conjective of the section of the an age of section of the section who is may be contained in each planential anese.
- As an indicator of various stratement of condition approaching industrial invaloument;
- As a source of information of the resultionation saturation and the section in the sections of the sections.
- As a source of servine information on the amount and type of support which oursers plan to eveto industrial development, compared with the tevelopment of other sectors of their economical
- As a source of gerenal information or the of tall investment per annual unit of output services and the other countries, for new inforthment position of various types and sizes;
- As a new oper of cosmittee not en arms to all and plan intramental on.

Technical assistances In country are talks recent to-ensisting

These new expanded summaries will be of them inches one to technical assistance experts as background information on a country's industrial situation and on its plans for the next four to five years. However, the summaries will play a key role as part of the material required in the preparation of technical assistance programmes, particularly within the framework of the country programmes. We including countries which are numbers of a regional co-speration scheme, this volume will be used in the preparation of technical acquistance programmes within the area; nevertheless, the manuscript of industrial development plans of countries forming part of a regional group will be primarily used by member countries.

- To identify areas of incompatibility between various national goals and objectives, as well as between these and the declared regional aspirations;
- To permit improved policy formulation, hermonisation and no-ordination;
- To identify problem areas common to the region as a whole;

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"Spreaming a real part of the property to keep under systematic entities the progress tempts each oving the peaks and objectives of the Bonade - to identify shortfails in their achievement and the factors which amount for them and to renemment positive measures, their wings were positive asserted.

The summer or contribute significantly to this and by including the state and objectives to be obtained in each year through which the industrial tovelepment class is to be implemented, as well as the spiral and an adopted over the four or five-year period. The class and systematic may is which all information is presented

y nemotives and (1887) being the second of the structure of

provides a set of benchmarks which constitute a basis for the review and appraisal of the objectives and policies of the International Development Strategy with respect to industrialization.

Volume III of this series is expected to include the cummaries to the industrial development plans of some 14 countries; while priority will continue to be given to countries who are members of regional organizations, the needs in connection with UNDP country programming and with the Second Development Decade will also be met. It is expected that it will be possible in future to include an annex describing the planning techniques used in the preparation of an economic development plan which will be included at the end of each summary. In the present volume, it has been possible to include such an annex only to the summary of the industrial development plan of Humary.

COMPARATIVE TABLES

Index to the Areas Covered in the Plan Summaries of Seven Countries

	Planning areas	Costs Rica	Hungary	, sari	Kenya	Pakisten	Tansania	Purkey	T\ •	o ta :	la o
1.	General goals and objectives (i) Planned growth	_									
	(ii) Other objectives	•	0	•	•	•	*	•	7 6	-	1
2.	Strategy and policy (i) General (ii) Manpower and productivity	•	÷	÷		÷			4	3	- -
	(iv) Investment and capacity utilisation (iv) Interconnections between	o	•	•	•	•	•	*	4	2	1
1	growth factors	0	0	0	•	+	•	0	5	1	4
	Planned growth of industrial sectors (i) Planned growth of manufacturing sectors	•	O	•	•	•	•	•	6	-	1
	(ii) Planned growth of electricity		+		+	•	+	+	2	ا د	-
•	(111) Planned growth of mining	0	0	•	•	•	•	•	5	1 -	2
	(iv) Priority of sectors (v) Infrastructural problems connected with industry	0	0	•	•	•	0	•	4	1	3
5.	Planned industrial projects	+	0			_	•	0	2	1	2
	Organisational and institutional changes required for the industrial plan implementation	ø	0	0	0	•		•	2	1	4
7.	Problem areas particular to the industrial sector	0	0	•	0	0	•	•	3	-	4

Key: + Strong emphasis of the planning area.

The key symbols (*+o) are meant for use only as a guide or index to the plan summaries. In this connection, it should be noted that a country with an "o" entry for a particular plan summary heading or subheading may actually have very good planning in that area; the "o" simply means that it was not found in the published version of the country's plan or that it was inadvertently included under another heading or sub-heading in the summary.

^{*} General coverage of the planning area.

o Little or no apparent coverage of the planning area.

Selected Objectives and Strategy Found in Country Plans

The country's plan mentions or emphasizes	Costa Rica	Hungery	Ira	Keny≞	Pakistan	Tansanıe	Turkey	Number of countries mentioning or emphasizing
 Increasing or diversifying manufactured exports Tapping domestic capital 	II-2 II-4	I I -2	11-5 1 1-1	I I -4	11-2	TI-1	I I-4	7
sources for investment in manufacturing (stock market, domestic credit agencies, banks, etc.)	II - 5	11-2	II-? II -4	11-5	11-2	11-2	II-2	7
3. Increasing the substitution of domestic manufactures for foreign manufactures	11-2	TI-2	1 1-5 1 1-1	I I-2	II-1	I I – 1	11-2	7
4. Providing increased training for managers, skilled workers and unskilled workers in manufacturing industries	11-2		I I-2	11-2	11-2	11-2	II-2	6
5. Channeling a high proportion (18% or more) of total planned investments in the economy (and/or Government investment) to industry		11-2	11-2	11-2	11-5	II-2 II-5	I I-2	7
6. Regional co-operation with neighbouring countries	I-9	I-9	I- 9	1-9	1-9	I- 9	I-9 II-2	7
7. Development of industrial estates	II-5			II-2 II-5			II-2	3
8. Implementation of the planmed manufacturing growth			I-10	I-10 II-6	11-6	I-10 I I-6	I-10 II-6	5
 Development of large-scale and heavy industry 	II- 4	II-4	II-4 II-5		II-1 II-2	d I-4 II-5	I I-4	7
O. Regional location of industry within the country 1. Improvement of data used in	II-5		II-2 II-5	11-5	I -4,- 5	II-2 II-5	11-2	5
planning and monitoring manufacturing growth 2. Increasing the utilisation of		II-5	11-3	11-3	11-3	II - 3	11-3	6
the existing manufacturing capacity 3. Heavy foreign investment in	11-2		I I-2		II-2	II-5		4
menufacturing (40% or more of the total investment in menufacturing)						I I- 5		1
Wertical or horizontal integration within memufacturing sectors			•					-
of GDP (by 5% or more)								•

Agrosianto Tenifesturiac GDP per Cepita - 1766 (et mertet pricee)

	Off at material prices	Partie Partie	,				
	(KIII)		April 1 (1.5.)	Population (mm)	GDP/capita	Menu facturing	Menufacturing GDP/capita (U.S. dollare)
			1777 7 20077		,		
Oweth Pies	System of 115m	6.620	765	1,634	9	16.9%	88.0
}	221.0 million	*0.000 ¹⁾	7,367	10,2%	718	38.042)	273.03)
	611.0 William	75.500	8,095	7.35	5 06	12.0%	36.0
ł	433.0 millim	0.357	1,295	10,200	118	11.04	13.3
Parieta S	6.0 milion	1.187	14,2034)	109,500	1304)	12.0%)	10.01
1	5.000.0 million	7.140	822	12,500	*	6.4%	4.2
ļ	114.4 Million	9.000	12,600	33,539	376	23.0	85.0



(et martet prices)

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					Man froturing
	(m1)16m 1 U.S.)	Population (000)	(000) (U.S. dollars)	Seafecturing.	(J.S. dollars)
Cours Sies (1972)	1,037	1.875	553	214	111.0
(1975)	P. P.	3.6	й. В	ë.	B. B.
Ine (1972)	12,300	30,500	, O †	**	o. X
(1074)	1,800	12,400	3.	**	18.5
Patriota (1975)	23,000	151,500	152	10,	15.0
1974)	1,185	14,200	83	£	J.C
Techno (1972)	13,200	37,000	355	3.1.2	0.76

Number of Planned Manufacturing Projects -

	1969-1972	1971-1974	1366-1772	1970-1974	1370-1375	1969-1974	136-1372
Poodstuffs	Costa Rica	Hungary	1365 - 1372	Kenya	Pakieten	Tensense	Turkey
Canned fish	n.a.						
Milk pasteurisation	n.a.		n.a.				
Condensed milk	n. a.		n.a.	1			
Fish processing				n.a	•		
Fish-meal	n.a.						
Sauces	n. a.						
Fruit juices	n. a.						
Dehydrated vegetables	n. a.		n.a.	1			
Canned vegetables	n.a.		n.a.	n.a	•		
Glucose	n.a.						
Maise oil	n.a.						
Pastes	n.a.						
Flour	n.a.					n.a.	
Salt	n.a.						
Sugar			n.a.	1	1	n.a.	
Vegetable oils			n.a.				
Bakery products						n.a.	
Food, beverages and tobacco						97	

^{*/} Pigures for Tansania also include expansion projects in each of the manufacturing branches.

Number of Planned Manufacturing Projects (continued)

	Costa Rica 1969-1972	1971-1975	1368-1972	1970-1974	1970-1975	1969-1974	1368-1972
	Costs Rice	Bungary	Izen	Kenya	Pakieten	Tensenie	Turkey
hwrone							
Brownies	n.a.		n. a.	ı		n.a.	
Liqueure	n. a.		n. a.				
Tobacco							
Tobacco					1	n. a.	
<u>Poztilos</u>							
Cotton cloth	n. a.			B. 6	١.		
Synthetic fibres	n. a.						
Cotton fibres	R. G.						
Carpete			n.a.				
Handiorafts			n.a.				
Rayon cloth				n. e	٠.		
Mool mills					1		
Textile wearing apparel and leather industries						51	

Number of Planned Manufacturing Projects (continued)

	Costa Rica 1969-1972	1971-1975	1968-1972	1970-1974	1970-1975	1960-1974	1346 1070
	Costa Rice	Hungary	Iren	Kenya	Pakseten	Tensenta	1
Wood and wood products							
Purnature	n.a.						
Wood sheets	n. a.						
Timber			n. a.	,			
Plywood				1			
Pencils				1			
Pulp mills				2			
Wood products including furniture						67	
Paper and paper products, printing				•			
Kraft paper				1			
Paper for duplicates	n.s.						
Air mail paper	n.a.						
Cigarette paper	n.s.						
Transparent and absorbest paper	R.A.						
Cardboard boxes	n.a.						
Onion paper	n.a.						
Paper and paper products						12	
Leather products							
Shoes	n. a.						
Kid-leather				1			
Rubber and rubber products							
Rubber products	n.c.						
Tyres				1			

Runter of Planned Hamufacturias Projecty (continued)

	1969-1972	1971-1975	1968-1972	1970-1974	1970-1975	1969-1974	1968-1972
Chemicals, setrochemicals	Costs Rics 1969-1972	Bungaery	Ĭ	Kenya	1	Tasa .	Purbey
Synthetic fibres		n.a.	1				
Sulphur and sulphuric acid	R. &.		3				
Urea Tomo I debude	R. G.		2		2		
Pormaldehyde Insecticides and posticides	B. 4.						
Portilisers	R. S.		1	. 1	11 2		
Pharmaceuticals	R. G.		•	•	2		
Casoline	R. G.				•		
Propene	R. G.						
Asphalt	R. &.						
Discol	R. G.						
Aromatic derivatives Commetics		Ņ. G.		R. &	•		
Detergents	ì	R. S.	1				
Amonia			ż				
Phosphoric acid			ī				
Polyvinyl chloride			1		1		
Cametie soda			1				
Sode ach					1		
Liquefied gas Helanis			1				
Pthylone			8.4	_			
Isoporone			1	•			
Carbon sulphate			ì				
Methanol			1				
Grease				1			
Intricating oil Petroleum refineries				1	_		
Potrochemical complemes					2 2		
Chemicals including coal, petroleus					•		
and plantice						4	
Polymers	1	1 . B.				-	

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	Case Bee 1 25-1972	1971-1974	In 146-1972	100 100	Part 1976 1976	Manage 14-199	146-1072
Exercising manage							
Aphaetee	8. 6.						
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Proofstaged products							
Refrestory tiles							
Pering tiles	n. e.						
'Inglased pipes	8.6.						
Coruntos				1			
Piro-brido					ì		
Specialized pofraptories					1	_	
Pro-motellie memoral products						16	
Treas_metale							
Corrugated and galvanised iron elaste							
Rolling mills		9. 6.					
Place1			1		1		
Phg-spon					1		
Special and allow step1					1		
Aluminium					1		
Ratio artal industries						3	

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Food	34.6	n. a.	R. S.	43.1	R. &.	A . B.	154.
Prinks	0.1	n. a.	n. a.	2.6	n. a.	n. a.	
Tobacco	0.2	n.a.	n. e.	7.4	n. e.		prwa.
Textiles	P.3	R. S.	n. a.	∴ _{••}	R		1
Shoes and clothing	5.7	n. a.	n. a.	11.5		n. a.	* **.
Wood	۶.2	n.a.	R	4.6	n. a.	n. a.	6. 0
Purniture	1.2	R. S.	n. a.	•	A	n. e.	
Paper and paper products	4.1	n. a.	n. a.	4. 7	n. a.	n	
Printing and publishing	1.7	n. a.	n	• .	n. s.	n	n.6
Leather and leather products	0.6	n.a.	n. e.	2.9	R. 6.	R. 6.	13.0
Rubber products	2.6	n. a.	A . S.	6.2	R . G.	R. G.	
Chemical products	15.1	R. S.	n	24.6	R		12.0
Petroleum derivatives	-	R	n.a.	40.6	R. G.	R	-
Non-metallic minerals	0.9	R	R . G.	13. (2)	n. e.	n. a.	4.4
Basic metals	2.3	R. S.	R	•	n. e.	n. a.	1.04)
Metal products	2.4	R	R. G.	1 .	n. o.	n. o.	51.0
Non-electric machinery	0.6	n.a.	R. G.	9.1 ⁵⁾	n. o.	R. 6.	4.0
Electrical equipment	4.4	R. B.		(n. e.		20. 0 ⁶)
Transport material	0.1	R. S.	n)	R. G.	n. a.	1.0
Others	2.9	R. S.	R	2.7		n. o.	-
Total	76.6	R. 6.	n. o.	180.2	R. 6.	9. 0.	424.0

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4/ Iron, steel and non-ferrous metals.
5/ Metal products and machinery.
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Man	£ ,)	A		19.4	M . 🖦	n	23.0
*-tel	260.9	1. 4.	n. o.	₩8.4	n	n. o.	#7,0

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tore, stepi and non-femous estate.

Statement in section for the party and sections

Average Annual Rates of Growth Between 1969-1975

	Rate of growth of ODP	Rate of growth of GDP/capita	Rate of growth of industrial GDP	Rate of growth of industrial GDP/cepita
losta Rica	7.0%	4.2%	10.5%	6.05
Ringery	n. a.	R.A.	R. G.	n. a.
Iren	10.0%	7.3%	13.0 %	10.35
Konya	6.8≰	4.5\$	9.25	5.84°
Paksetan	6.5 4**	4.14**	10.25	7.450,00
Tensenis	7.7%	5.9%	13.04°	11. 0 %
Pirkey	7.04	4.5%	10.8%°	8.0%

nemufacturing

Smort Pictree for the Last Years of the Daveloanest Plane

	Report of menufactured goods [U.S.)	Hamufactured experts of total experts	Seport retes	Emport/Import
Coote Rice (1972)	37.0	32. 35	9.1≸	0.91
Biograpy (1975)	R. G.	R. S.	0. Q.	8.8.
Iran (1472)	R. G.	a. s.	17.5\$	1.52
Honga (1974)	180.0	31.45	7.5%	0.83
Pakieten (1975)	R. G.	A. G.	8.4%	0.67
Tencenta (1974)	n.a.	n.a.	4.9%	0.93
Pustoy (1972)	424.0	98.95	7.1\$	0.65

SUMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN OF IRAN: 1968 - 1972 -/

- I. General background information
- II. Summary of the industrial development plan

The Pourth National Development Plan 1968-1972, pp. 335, Plan Organisation, Teheran 1968.

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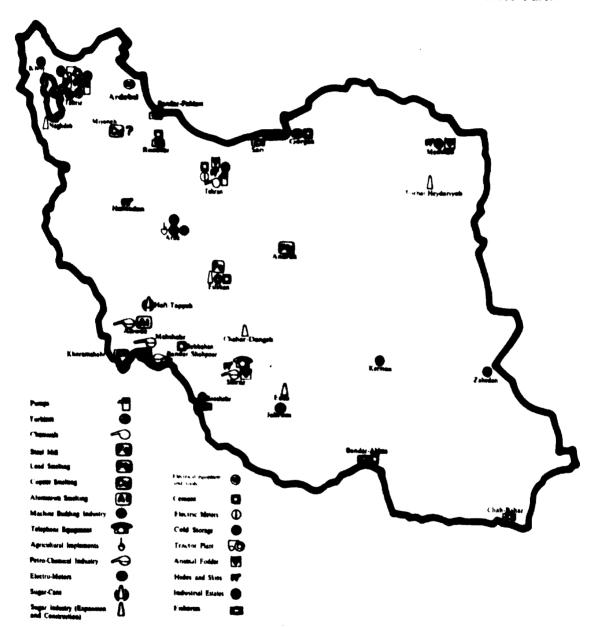
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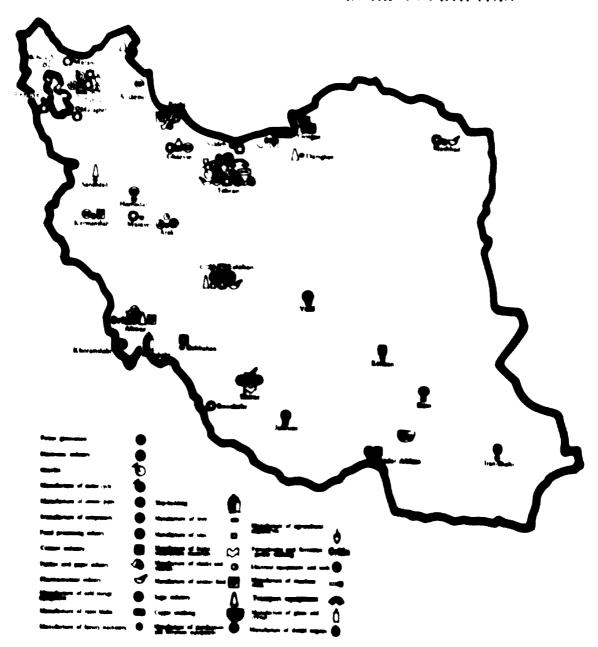
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A comprehensive set of information, including all details on costs of land, building, utilities, transport, labour, etc. is available in the Bank Markasi's Investors' Quids to Iran. It further contains legal aspects of foreign investments and procedures to establish an enterprise and gives a sample application for the import of capital. Finally, all information on banking and credit institutions, insurance, taxation, marketing, status of foreign nationals and industrial property protection is included.

INDUSTRIAL PROJECTS IN THE FOURTH PLAN



FORECAST OF NEW PRIVATE SECTOR INDUSTRIAL PROJECTS IN THE FOURTH PLAN



I. SERENAI MACKSPOUND INFORMATION

1. Resid statistics of Iren:

<u>4799</u> :	Agric: Itural area Porests and pastures Temest and non-arable land	1,€50,000 km ² 4,25,000 km ² 297,000 km ² 55,000 km ²
Major cities:		Population
	Tohoran Isphahan Machad Tabris Abadan-Khorranshahr	2,720,000 425,000 410,000 404,000 362,000
ther data:	Average household size Average rooms per household	4.8 2.1
	Number of passenger cars in time	∴20 _• 000
	That, telegraphs and telephones	1,300 past offices of which 1,100 with telegraph services
	Electricity production	48,000 kwh/head

Departs 19166.

hit	Rials <u>equivalent</u>		
US dollar	75.50		
Pound sterling	179.50		
Swiss franc	17.40		
French frenc	15.10		
Terman mark	18.75		
Italian lira (100)	11.94		

Gracerian Calendare (1470108-1989)

1347

		March 1	9 6 F
		to	
	1968	Merch 1	<u> </u>
1		Narch	21
31		Aprı l	20
1		April	21
31		May	21
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^{*/} There are 31 days in each of the first six months of the Iranian calendar, 30 days in each of the next 5 months and 29 days in the last month, except in leap years when it has 30 days.

2. Population:

Distribution

ACC ATTUD	1956	1966
o - 10	41.74	is, od
20 - 64	46.37	41.09
65 ver	4.04	4.0%

The orban areas' population has increased at 4.5%, while rural areas at only 1.7%.

The total population grew from 21.7 million in 1959, to 26 million in 1966 at an average annual rate of 2.6%.

Active Population

(000)

	1956	5	1967	16
Active population Employment seeking Employed	160	0.8	7,052 120 6,932	0.4
Non-active population	12,885	68.0	19,624	73.6
Total population	18,955	100.0	26,676	100.0

Imployment Distribution

(000)

	1956	\$	1967	\$
Agriculture	3,330	56.0	3,372	49.0
Industry	1,190	20.0	1,686	24.0
Services	1,390	24.0	1,874	27.0
Total	5,910	100.0	6.932	100.0

Education:

Primary Education During the Third Plan

COOK

	1964	1.16/	Increase
Projected	1,544	2,224	681
Actual	1,713	2,000	1.111

The 'iteracy 'orps was formed. Its aim is to send high school graduates, after a four-month's training during their military service, to riral areas and remote villages in order to extend edicational services to adults and children, apart from the promotion of social and self-help services. 35,000 literacy Corponen have been trained. An average of 231,000 primary school stidents and 106,000 adults have benefited from them.

The illiteracy rate in the 10-4° age group was reduced from and to 65%, largely due to the expansion of primary education.

Technical training: by the Ministry of Labour:

- 1,500 workers;
- 2,400 supervisors;
- 300 instructors.

The Industrial Management Organization trained 5,500 people.

34,800 soldiers took agricultural and vocational training curses.

The Plan Organization and several Government agencies undertook training of:

- municipal personnel;
- police technical personnel;
- specialised accountants;
- graduate engineers;
- topographers;
- technical personnel for the railways;
- technical personnel for the merchant navy;
- technical personnel for provincial water and electricity utilities.

The private sector has been becoming increasingly important in education, including in short technical and vocational and on-the-job training.

Most large-scale industries provide on-the-job training for their workers.

The per capita cost of education, particularly in vocational and industrial schools, is very high due to inaderiate facilities, higher drip-out rates, insufficient hours taught by teachers (19% of the current budget, and 4.0% of GNP).

Educational programmer are not consistent with the regularments of economic development.

3. GDP:

	10€2	1366	Average annial increase
Industrial CDP/capita (8)	25	27	⊬ <u>.</u> 0⊀
Total GDP/capita (\$)	210	27 0	F.01
Population (000)	23,400	26,000	2.74
Industrial GDP (million \$ ".S.)	595	955	10.7
Total GDP (million \$ ".S.)	4,960	6,240	7.24
Industry f of total GDP	11	13	

^{*/} Pigiros for manufacturing are not available.

(million \$ ".S.)

	1962	1	1966	1
Agriculture and animal husbandry	1,340	27.0	1,440	20.8
Industry and mining	590	12.0	950	14.9
Construction	242	5.7	440	6.3
Water and power	40	8.0	70	1.0
011	790	16.1	1,270	18.4
Other sectors	1,900	36.4	2,750	39.7
GDP at market prices	4,960	100.0	6,940	100.0

Principles within the industrial center was not according to the following exitoria:

- contestintion to notional seconds
- engint better to employment;
- corings in terms of foreign contange; improvement in income distribution.

Tiping the Third Plan, the industrial sector grow at 126 per assum and investments escaped the amount foresexted.

The private sector laid the basis for the development of beary industry and participated in private sector investments.

(oction 0 H.S.)

	136	1
Prival Fixed serestages	645	1,200
by the public sector: Thing	219	161
•	33	•
by the private sector: rojus	430	140
5	47	96

Theirical chulses of various projects uses exceed out by the Sovermont and offsetively used by the private corter to take instructed decisions.

The descript industry was protected and annunged through examptions of outless duties, provinces of oradit facilities and lower e-exercial benefit tasse. This axis possible the diversification of production and increased experts (other than oil).

The highest rates of growth wave experienced in the production of construction exteriols, eachingsp, extel products and circles industries.

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4. Mecro-comonic indicators:

Money eusely:	1 mb 2 - 0 mb mailine 1 mb - 0 mb mailine
	brorego annual increase toff
Pr1000:	Average amual increase 145-146 i.vf.
<u>gn</u> P:	1 162 - 86, 166 01 11 1 10 1 166 - 86, 16 01 11 1100
	American comital incomes ! #

Name of Passage

(million # 11.5.

	1312	1
Current assount	≯ .0	-142.
Capital assount	2.2	122.4
Public sector	0.1	104.6
Private sector	2.0	16. 1
Gold .	-0.1	-
Overall balance	30. 1	- 24.6

Continue of the Part of the Part of the Part Clar

	Approved allegation	Table 1	definal expends turn de 1967	Interi	Expends took of approval (Light Mass)
Agriculture and irrigation	630	21. pf	110	25. 🐕	ac. 🗯
Industry and mining	10 0	12.64	160	7. 📢	42. 🖬
Power and fuel	440	15.25	270	12.66	49. i 4
Communications	790	16. 16	900	3.4	72.75
Musetion	240	7.84	140	A. 75	79.45
Realth	180	1.98	190	6.86	A 2 . 25
Labour and manpouter	#	1.4	>>	1.4	69. 7E
Urban and Fural devalopment	300	3. 🐗	80	3.86	4.4
Planning and statistics	20	0. 75	*	. 76	79.4
Busing and construction	170	5.75	140	6.4	00.AS
Total	3,430	100.00	2,170	10.0	71.

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Daret Igarme	10	10	•
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industrial products and technology - soin semifacturing industries:

After a start in consumer manufactures, industrialisation is now spreading t intermediate and capital goods.

No to the projects inder construction, the structure of the summy will be considerably different from the present one.

Attention is being increasingly devoted to the promotion firs or one-based industries producing intermediate and capital g de.

. Industry - releted resources and sectors:

". Impall economic development strategy and policy:

". Nectonal co-operation: see also page 87)

The Regional Co-operation for Development (RCD) was created in July 1964: its object is not an economic integration but rather preferential treatment and co-operation. Heater countries are further, Pakistan and Iran.

The Regional Co-operation for Development comprises a total of 1°C million people and has a 77°C of \$27,000 million; this represents a per capita income in the region of \$155. These figures do not reflect the wast discrepancies existing between the three countries.

A Pormanont Secretariat was established in Teheran; it is responsible to a Ministerial Council composed of the Ministries of Poreign Affairs of the member countries.

A Regional Planning Council has also been created, composed of the chiefs of the planning organisation of each country. Its mais function is to harmonise the assistance of several working groups. Its interests are in projects of a regional nature and in long-term trade agreements.

Three "common" projects are now in the process of realisation:

- an aluminium plant at Ahwaz (Iran), financed by Iran, Pakistan and a private US investor;
- a pager plant for producing bank notes, located in Pakistan;
- a jute processing factory to be located also in Pakistan.

A project to produce carbon-black has been approved and will be located in Iran.

Preliminary agreements have been obtained in relation to other projects:

- locomotives in Turkey;
- ontion, lint paste products, wire, cables and ball-bearings in Pakistan
- a petrol refinery at Isnur has been approved by Turkey and Iran; the two countries are now studying the construction of a pipeline connecting Iran to a mediterranean port in Turkey.

The more eignificant results are to be attained by the Regional Co-operation for Development in the field of common services:

- common airline;
- common merchant chipping line;
- common oil organisation;
- common regional cultural institute;
- as RCD Chamber of Commerce.

Other measures which have already been taken include:

- the reduction of air mail postage;
- the creation of a commercial bank covering the three countries;
- the conclusion of a general technical assistance agreement;
- the establishment of the Assurance Contro at Karachi in 1965;
- the creation of a Commultative and Study Centre of the Regional Co-operation for Development.

while the intraregional trade has been increasing, it represents only a small portion of the countries' total foreign trade. This is in part due to a lack of progress in the trade liberalisation. The three economies are competitive, mainly in the industrial sector which consists largely of light manufactures. However, the economic development plans of Turkey and Pakistan will increase the production of intermediate and heavy goods by 70% and 66% respectively over the plan period. No figure for Iran is available.

The intraregional trade will also benefit from the creation in 1967 of a multilateral payment system.

Regional Co-operation for Davelopment Intraregional Exports 1964

	1964 exports f.o.b.		•	1964 imports c.i.f.	
	Intraregional export (million \$ U.S.)	Total		Intraregional imports (million \$ U.S.)	% of Total
Iran	56. 0	1,253	4.5%	n.a.	1.2%
Pakistan	3.4	493	0.7%	n.a.	2.6%
Turkey	5.0	411	1.2%	n.s.	1.4%

Regional Co-operation for Development Composition of Intraregional Imports

	1963	1967
Jute and jute products	4.0%	62.0%
Dried fish, meat and animal products	-	25.0%
Other agricultural products	9.0%	8.5%
Petroleum	85.0%	-
Negufactures	2.0%	1.9
Others	-	2.6%
Total	100.0%	100.0%

Regional Co-operation for Development Composition of Intraregional Exports

	Iran 1963-1964	Pakistan 1963-1965	Turkey 1963-1965
Pood-stuffs, beverages, tobacco	3.0%	10.4%	60.0%
Row materials, fuel	93.5\$	58.0%	35.0%
Hemufactures	3.5%	31.6%	5.0%
Total	100.0	100.0%	100.0%

Takes of Paractic (exclusives onl) (mellion 0 U.S.)

	1367
Live enimals	2.3
Vegetables	2.2
Praise	20.6
Stocks	3.0
Tragmenth	3.9
Oil educe	1.7
Certer	4.1
Cetton	37.7
Carpote	49.2
Leether and leether products	11.6
Minoral ores	7.0
Others	37.0
Total	180,5

him of imports

(million \$ '1.5.)

	1967
Rilk and dairy products	6.9
Yes	8.9
Spices	1.3
Wheat (grain)	4.4
Wheel (flour)	0.3
Rico	1.7
Augus	12.7
Vegetable mile	22.3
Cotton	1.3
Bruge	43.5
Electric appliances	18.4
Pessenger care	20.4
Corente products	5.0
Posticidos	7.6
Portilisors	9.4
Other chemicals	M. 5
Tunning and colouring products	19.1
Robber and rubber products	21.8
Cardhoard and paper	25.9
Ni lib	56. 0
Meol	¥. 5
Glass and glassware	8.0
bre	48.3
Signie	52.0
Piping	69.7
Other iron and steel products	55.6
Aluminium	10.6
Copper	4.9
Agricultural equipment	32.0
Industry and mining equipment	189.8
Mostrical machinery	72.0
Other anchinory and equipment	66.0
Optical and procision instruments	14.6
Others	215.7
Potel	1,198.0

Prices: Domestic in Relation to Imports c.i.f.

	Prices (8)			
Item	Domestic		Pifference	
Paints: Decorative (1:w quality) (duty: 55-65% of c.i.f. price)	0.72 /kg	n.a.	n.a.	
Television sets: imports a not allowed 19" sets (new plants) (duty: 100%)		-	-	
Air coolers: no imports al Hodel II Hodel III	156.00 170.00	-	- -	
Present duty 15% Production has been init production will probably increased to 20%.	iated;			
Coment:	17.21/tom	60.35 (coloured) 41.14 (other)	-250% -	
(duty: coloured \$1.98/topother \$5.29/top	n) n)			
Jeep vehicles:	1,785.21	3,802.76	-113%	
Tyres: 1200 x 24 Truck tyres Note: Japanese imports average 20% less but probably benefit from export subsidy. (duty: 15% or \$0.19/kg)	118.00 65.10	232.20 105.80	-96\$ -77\$	
Leyland trucks:	7,218.54	12,529.80	-73%	
Tyres: 750 x 17 Note: Japanese imports average 20% less but probably benefit from export subsidy. (duty: 15% or \$0.19/kg)	35.70	60.46	-69%	
Cotton textiles: no imports allowed Grey cloth	0.11/m	0.17/m	-54%	

Prices: Domestic in Relation to Imports c.i.f. (continued)

	Pricee (\$)		
Item	Domestic	(c.1.f.) D	ference
Neat preserves: Bologna	1.33-1.67	'S retail) 2.40	-43%
Tyres: Passenger car sise 15 Note: Japanese imports averaged less but probably benefirem export subsidy. (duty: 15% or \$0.10/kg)		18.40	-264
Neat preserves: Sausagee	1.22-1.67	'S retail) 1.20-2.00	-19%
Electric switchmean: Import prices are 184 above the domestic price.	100.00	118.00	-18 \$
Pharmaceuticals: Prices kept 54-124 below c. by the Government.	n.m. i.f.	D. A.	-124
Carbon steel and stainless blackduty: 33%)	ades: 1.03	1.09	-5%
Cables: Largert	12,319.00/km	12,119.00/km	+1%
leyland diesel engines (for 1972):	2,088.74	2,013.24	+34
DDB:	190.00/ton	180.00/\$0	n +5%
Cablee: Smalleet	134.35/km	124.50/km	+7%
Telecommunication equipment: Telephone sets Telephone exchanges: domest prices are 50% higher	16.88 1c	15.23	+9%
Transformers: (duty: 15%, domestic prices are 10% higher)	110.00	100.00	+10%
Pumpe: Domestic prices are about 15-20% above c.i.f. prices. (duty: 20%)	n. á.	R. &.	+15-20%
Dorman diesel engines (for 1972):	3,576.15	3,046.35	+17%
Radice: Average	57.00	48.00	+18%

Prices: Domestic in Helation to Imports c.i.f. (continued)

	Prices (8)		
Item	Pomestic	(c.1.f.) 71	fference
Vegetable onls: Himed refined vegetable onls (sunflower, cotton seed) (duty: Off or \$0.35 kg)	0.47 lkg	(), } :	+201
Diesel engines: Mercedes-Benz (1972)	1,892.71	1,560.26	+21 ⊈
Paints: Decorative (high quality) (duty: 55-65% of c.i.f. price	1.25	1.00	+2*4
Woollen textiles: Projected Ferman plant	3. 97 /m	3.17/m	+2%
Passenger cars: Rambler	3,152.31	2,499.33	+264
Steel wire, nails, screws: Nails (duty: 2004)	0.34/kg	0.23/kg	+32%
Woollen textiles: Vaton plant (duty: 100% or above)	2.64/	1.98/m	+33%
Paper: Writing and printing (duty: 21% or \$0.05/kg)	0.34/kg	0.25/kg	+ 36%
Paints: Industrial (high quality) (duty: 55%-65% of c.i.f. prio	1.85	1.32	+40%
Space heaters: (duty: 50%)	42.00 27	.00-30.00	+404
Paints: Industrial (baking enamel) (duty: 55-65% of c.i.f. price	1.12	0.79	+41%
Neat preserves: Pressed ham		Fotail) .00- 2.50	+44%
Rolled steel: Rolled steel products (duty on finished products: 40%)	160.00/tom	110.00/tom	+4%
Synthetic fibres: No. 20 deniers	3.84/kg	2.64/zg	+45%
Steel wire, mails, screws: Drawn wire (duty: 30%)	0.22/kg	0.15/kg	+46%

Prices: Doggetic in Relation to Imports catif. (centinue)

	771000	Prices (8)	
itee	Doggette	كالم سالمت	ference
Synthetic fibree: No. 40 deniere No. 70 deniere	2.7 ^p /ha 2.64/ha	1.75 /kg 1.45/kg	. * 6.4 . 66 1.
PVC: faity: \$0.12 kg or 63%)	0.43 /2/	0.25 /kg	+724
Refrigerators: GE	2.2.46	147.94	+774
Electric func (for 1972): (duty: 454)	33.11	18.54	174
Cotton textiles: no imports al Printed cloth		from Japan .10 =0.12 m	er 39
Passenger care: Citroën	2,000.00	1,033.11	•07¢
Air conlers: no importe allow Nodel I	120.00	60.00	+100%
Refrigoratore: Arj Asservoh	139.07 104.90	68.5 4 51.65	+102* +103*
01ase: 3 m	1.98	0.92	+115≸
Caustic soda: (duty: 100%)	0.13/ h g	0.06 mg	+116%
Refrigeratore: Philos PATA	185.43	68.11	+172%
61ase: 2 m 6 m 6 m (duty averages 190%)	1.19 15.89 7.28 4.23	0.39 5.03 2.25 1.30	+2075 +2175 +2275 +2275
Sagar: no importe allowed White organization sugar (daty: 80.13/kg or 1275)	0.30/hg	0.09/1	+233%
Tolovision sets: imports are : allowed 19" sets (present plant) (detp: 100%)	_	3.00-70.00	+2515

Destroy of June 1982-1984

Recognize Bostone Commonty 19.56
Insted States 17.46
The ted States 11.76
Tapen 7.46
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The Plan Prominetion is responsible for the approval of development programme and projects, as until as for those fragments.

It has taken anti-n to so-nediments policies through the Migh Pleasuring Privates in Implementation of projects is espayable to mentioned and removes the name too.

A picture and heighting groten bus been exceed by the Pice Description through the establishment of the factori flores for Phojente and Budgeting. Its test is to propert the dove ingenet and the evergent budget for the forcement.

To Commission for Minimetrates Affines and Embourant we set up to separate employment regulations and present setton exercises of executation. The new executation were not up:

- Biototop of tator and Posse; Biototop of Posseingment and Bousses;
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In the second heaf of thee period, increased industryate and confidence induced fast rates of go web.

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THE THE PERSON

To fruith the is the first steps if a long-tem progresse with the following objects and

- to add the country telependant to
- removes preto;
 to equipators agental end autorestates peds end to fluridae agent-endatatatates to becausely expert production of

" "treter and schier:

1) Jeneral:

In order to attain the targets set for the industrial sector, the following policies will also be implemented:

- Industries related to agriculture will be explained in order to make fuller use of agricultural products, thereby raising the farmers' incomes and their purchasing power.
- Industries will be established in the inderdeveloped but suitable regions of the country.
- Special attention will also be paid to the quality in order to be competitive on the international market.
- Special attention will be paid to ecientific research and the standardisation of all industrial products.
- The Government will play an increasingly active role in the manufacturing sector, particularly in relation to the establishment of heavy industry.
- The expert policy will be directed toward the diversification of expert commedites.
- The import policy will further importsubstitute a firstly of consumer goods and later of capital goods.
- Services, such as shipping, consulting, engineering, touries, etc. will be increased.
- Poreign experts will gradually be replaced by Iranians and greater emphasis will be placed on training.
- Policies will be adopted to further the participation of industrialists and entrepressure in the on-the-job training in industry.
- Vecational schools will be set up and advanced technical schools will be supported, particularly to serve the country's new industries.
- New distribution and marketing methods will be furthered.
- Pinescial and technical assistance in marketing will be made available to producers of export goods.
- The soot of employing foreign and Iranian emports in highly specialised fields will be shared.

To encourage private investors in industry:

- the Covernment will carry out feasibility studies and prepare industrial projects;
- credit facilities will continue to be made available. Participation will be furthered with private entrepreneurs through specialised banks;
- the activities of these banks will be expanded to ensure that sufficient working capital is available;
- the terms of loans will be reviewed according to different regions and industries:
- exhibitions of various products will be held at home and abroad;
- exhibitions will also bring the latest technical methods to the attention of both industrialists and investors;
- the Government will organise seminars and will arrange for mobile audio-visual demonstrations of technical principles and of improved working methods to owners of small-scale and cottage industries;
- public sector establishments will have to obtain their requirements from desestic industries;
- incentives will encourage private entrepreneurs to make use of systems of management and cost accounting and to publish annual reports.

In order to increase foreign exchange receives to \$600 million in 1973, the Bank Markası Iran (the Central Bank) will take the required measures.

Prices will be maintained stable during the plan period, largely through the Government's financial policies and programmes based on the following principles:

- increasing revenue from oil, taxation and the sale of Government goods and services;
- agreeing on a maximum limit for the growth of general and current expenditures;
- utilizing private sector savings by a policy of offering optimum interest rates on treasury bends and other Government securities:
- utilizing foreign credite and loans to overcome the shortage of financial recourses.

The Covernment revenue will include in the 1968-1973 period:

	Million \$ U.S.
011	6,445
Customs, commercial duties	1,655
Direct taxation	980
Indirect taxation	690
Government profit-making and commercial enterprises	1,000
Post, telegraph, foreign ministry, police and other	
services	330

The Covernment expenditure growth will be limited to an average annual increase of 10%.

As regards foreign loans and credits, \$2,000 million will be used.

Treasury bonds and Covernment securities valued at \$610 million will be issued in order to finance the capital expenditure and military installations.

The Covernment will refrain from investing in industries in which the private sector is interested.

The attraction of foreign capital will be encouraged, particularly in fields requiring the co-operation of foreign entrepreneurs and a high degree of technical know-how.

(ii) Manpower and productivity:

The productivity in existing industries will be increased by means of:

- maximum capacity utilisation;
- renovation and development;
- sufficient supply of raw materials;
- sufficient supply of working capital;
- employing skilled workers;
- training in management;
- rationalising enterprises and applying sound management practices.

In connection with new enterprises, the following policies will be pursued:

- industrial studies and scientific research will be carried out;
- modern production methods will be promoted through the establishment of productivity promotion centres.

Distribution of Population of Working Age (12-64 age group) (000)

	1267	1372
Total of working age	14,860	16,900
Total active population	7,050	7,960
Total employed	6,930	7,900
Total seeking employment	120	60

<u>Distribution of Reployed Persons by Sector of Activity</u> (000)

	1967	4	1972	4.	Increase
Agriculture	3,370	49	3,600	46	230
Industry and mining	1,600	24	2,100	26	410
Services	1,870	27	2,200	28	3 3 0
All sectors	6,930	100	7,900	100	270

In order to achieve the above employment objectives, the following policies will be pursued:

- articles in the labour law prohobiting the employment of children under 12 years of age will be strictly enforced;
- a minimum wage will be setablished, especially in cases of low wage levels;
- primary, secondary and higher education will be rapidly extended;
- insurance and retirement benefits will be extended to the private sector;
- specialised vocational training courses will be introduced at the secondary school level and above;

- Vocational training will be made available also for prisoners, vagrants, beggars, etc.

- the country's labour market will be regulated through labour exchanges and the Social Insurance Reportment of the Ministry of Labour and Social Affairs.

The following policies will be applied in relation to the industry and sining sector:

- employment growth will be realised through the creation and protection of small and medium-sized labour-intensive establishments around large industries;
- around large industries;
 those establishments will be centralised
 within co-operative systems and specialised
 professional organisations;
- products of these establishments will be standardized and increasingly specialised in order to prevent destructive competition;
- maintain labour-intensive industries where increased labour productivity is not eccential;
- handicraft industries in rural areas will be expanded in line with new domestic and foreign markets;
- employment effects of new industries will be an important criteria for new projects.

Built Bestored Personal is the Sain Industrial Breach

		1	Productive employees	~~~	Berineers	×	Tooles coes	~	Stilled sorbare	_ ~		<u>. ~</u>
The State of	297,000	11	1 242,000	12	11 1,700	%	000*9	*	46 171,000	8	95,000	2
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Bestriotty	10,000	~	9° 000	~	330	11	1,500	12	12 4,000	~	4,000	ď
Maring		4	15,000	•	98	•		v.	2,000	-	1,000	-
79.00	417,000	8	100 336,000	8	2,930	8	12,460	8	225,000	8	79,000	8

(iii) Investment and capacity utilisation:

Fixed Investment 1968-1973

(million \$ U.S.)

	Public sector	Private sector	Total
Industry and mining	1,150	1,590	2,740
Total whole sconomy	5,875	4, PCR	10,730

Sources of Fixed Investment 1968-1973

(million \$ U.S.)

	Public sector	Private sector	Total
Plan Organization credits	5,035	460	5,495
Government profit-making snterprises and municipalities	940		0.4
manicipalities	840	-	840
Private resources	-	4,395	4,395
Total	5,875	4,855	10,730

(iv) Interconnections between growth factors:

3. Data bases and projections:

The collection of statistical data faces the following problems:

- lack of co-ordination between officials of the executive agencies and the planning units;
- shortage of specialised statistical staff and the failure to appoint qualified administrative personnel in these services;
- the absence of an agency to supervise statistical projects, as well as the lack of an operational work schedule.

During the plan period:

- the present organization and regulations will be revised in order to improve the efficiency of the Iran Statistics Centre and other agencies;
- a permanent network for data collection will be created throughout the country;
- pre-employment and on-the-job training courses will be provided for statistical staff;
- order and continuity will be established in the preparation and publication of statistics, particularly in connection with labour and manpower;
- economic and demographic surveys will be carried out;
- civil registration will be reinforced;
- agencies responsible for the preparation of statistics and the calculation of national products and income will be reinforced;
- Surveys are to be undertaken by the Iran Statistics Centre and those assigned to other agencies will be clearly defined.

4. Plenned growth of industrial sectors:

(i) Planned growth of manufacturing sectors:

Value added (million \$ U.S.)

	1967	1973	Average annual increase
Food processing and tobacco	2 95	405	9.5%
Tembiles, clothing, leather	173	245	9.0%
Basic metals and metallic products Cellulose	66 78	100 125	14.0% 7.0%
Pharmaceuticals	8	20	21.0%
Chemicals	40	41	4.5%
Potrochemicals	3	210	87.0%
Mechanical, electrical engineer and vehicles	ring 85	255	19.5%
Won-metallic minerals	60	103	9.0%
Handicraft and carpets	66	102	8.5%
Others	6	16	15.5%
Wining	45	90	13.5%
Total	925	1,715	13.0%

Public and Private Investment in Industry 1965-1973

	Z Z	Public sector		Prim	Private sector		
	1		1	\$			
	Credits	compercial enterprises Total		Organisation credits	Orend Resources Total total	Total	So tel
Pool processing and tobacco	81	21.0	102.C	11.0	110.0	121	\$
Motel and motel emolting	530	1	530.0	7.0	70.0	1	77 1,214
Mechanical and electrical engineering and vehicles	160	0.1	160.0	0 .34	700.0	7	746 1.812
Chemicals and petroobsmicals	332	2.5	X 5.0	င်	426.0	\$	435 1.550
Non-metallic mimerals	ľ	,	S.C.	0.0	0.9	*	55 120
Others including rural industries	71 15	1.5	16.0	21.0	0.951	170	8
Ptal	1,123	X.	1,146.0	103.0	1,510.0	1.613	1,613 5,532
Political assistance for training and research	ine 35	ı	35.0	,		,	, ,
Exploration and exploitation of these	ير 13		4 2.5	9	ا د د	X	67
Mediatence to private investors (losse or partnerships)	110	ł	ı	1	•	, ,	
Frank total	1,300	× .	1,226.5	1.000.0	1 4	.6% 5.74	137

Profesors' co-operatives will be established for small-scale industries in order to promote a maximum employment and a more equitable income distribution.

Infractructure for small-scale industries will be made available in cities, towns and industrial estates.

Efforts will be made to increase the percentage value added by domestic production in the case of the assembly industries.

Pacilities will be provided to improve the eapply of row materials to the handleraft industries, as well as their products and sales.

Emphasis will be placed on proceeding demostic raw materials into intermediate or finished goods prior to being emported.

The Covernment will firther the exploitation of marine recourses in the Caspian Sea, Persian Oilf and the See of Omen. This will raise living standards and secure food materials for export.

(ii) Planned growth of electricity:

Electricity (capacity in kilouptte)

1962	400,000
1967	1,342,000
1972	2,763,000

(111) Planed greeth of states:

Public and private financed projects include:

- copper: production of eathedic copper will reach 15,000 tens in 1972 which is sufficient to supply descrite demand;
- load: local production of 15,000 tons per year will esticity the describe denand;
- gold: a daily production of 200 tons of ore will be reached at the Nutch gold mine.

(10) Rivelle of melons

The providings growth of sectors during the plan part of still to as follows:

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Sa lighter	100,000	-	-	
Phosphoric sold	97,000	1-00		
Particus tetrogen and				
phosphoto aised fortilisare	264,000	tons		
	160,000	tens	-	
The Abades complete				
Polyvinyl chloride	20,000	tens	-	
Disegnate	10,000	tens	-	
Ametic ents	26,400	1		
The Sharp evaples:				
the highest	184,400	tem		
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- the production for dominion companybeans
- the production for emport purposes.

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Data.

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Private investore are discouraged by the lask of technical applications.

"redat facilities are inadequate.

Advanced mining techniques are coriously lasking.

Roads, electricity, port familiation and other infrastructural

Disting regulations for sining operations are employ.

EXHIBIT OF THE INDUSTRIAL DEVELOPMENT PLAN OF PARISTAN: 1970 - 1971 -

- 1. Conorel beckground and reseason
- II. Summary of the industrial development plan

y' to hall happer has 19th 19th, go. 1th, haming haziration, bearings of historia, July 19th.

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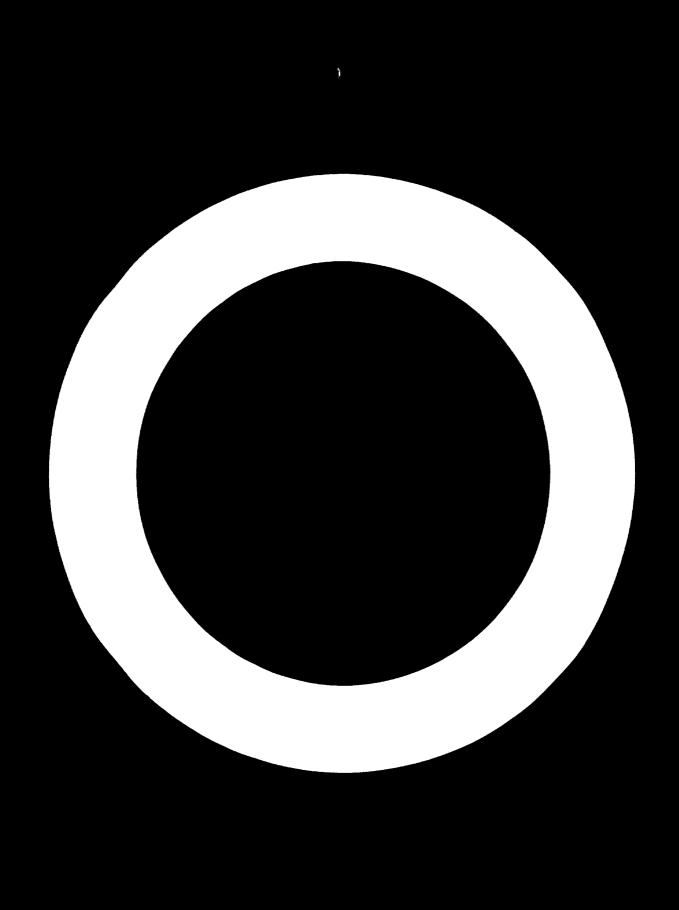
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I. GENERAL BACKGROOMS INFORMATION

1. Masic statistics f Pakistan:

Area:

	Million acres			
	East Pakistan	Pakistan	Inta!	
Total area Net sown area Corrent fail w Total cultivated area	3° - 3 2° - 4 2° - 4	108.7 13.4 41.4	234.0 7.4 63.	
Porest area		3.1		
Not area available for cultivation		4 } •	₹.4	
other cultivable land fexcluding current fallow	1.7	4.1	26 J	
Area not rep ried	••	m. 4	76 . v	

Wall'r Cities:

	" pulation as per censis 1 # 1
Hant Pakistan:	
Dacca - Narayangang	· C . 700
Kh zna	125,000
Chittagong	364,200
West Pakistan:	
Islamabad	%.♥ . ₩
Peshaver	21° .7 0¢
Rawalpindi	34 , 200
Lvallpur	425,200
lahere	1,206,500
M:!tan	358 , 20 0
ର:etta	106.600
Karachi	1.312.600
Hyderabad	434,500

Other data:

Per dapita income (annual avere	₩• 1 \$º4.0	/10€	s market prines
Number of passenger cars Number of tracks and buses	19 4, 500 52,100	(as) (as	per 1966) per 1966)
Number of telephones	202,000	/ 24	per 1970)
Vumber of post offices	14,300	. 86	per 1970)

Exchange rates:

"nit	Rupee
<u>'hit</u>	equi valent
TS disliar	4.764
Poind sterling	11.435
Swime franc	1.103
French frenc	.457
Termen merk	291
Italian lips (196)	.761

". Population:

126. " million lied estimate of which set in East Publistan and 45% in West Pakistan.

intribution [as ser 1261)

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~ - ~ YOAFS	17.44
5 - 14 years	27.14
1 - 1 - years	¥. 7
20 - 3 - vears	27.11
40 - 50 years	14.ml
60 and over	6.~
Total	100,79

irles and Rural Population of Princip 1956-1970

'million \$ 1.5.

	Titel	100	Pure!	Lies
1.30,0	71.	7,5	71.0	9.96
1.716/	₩.,	12.6	P6.3	12.84
1 🐞:	115.0	16.0	39.0	13.94
177	132.3	21.5	119.8	16. 16

The population in the irban area has increased at 6.0% while the population in the rural area at only 2.3%.

The growth rate of the total population is approximately 2.8%.

Labour force. Employment and Unemployment by Sector of Economy (900)

Sector	1964-1965	1369-1970
Labour force (total) Agriculture, forcetry and fishing Other sectors	36.723 26,880 9,843	42,263 30,162 12,106
Exployed and undersupleyed (total) Agriculture, forcetry and fishing Hining and manufacturing Construction Electricity, gas and water services Commerce Transport and communication Bervices Whelly unexployed (total) Agriculture, forcetry and fishing	76,113 26,818 3,198 491 50 1,865 689 3,222	41.796 30,092 3,864 675 67 2,274 857 3,947
Other sectors	326	\$05
(000 mm/yeer	•)	
Labour force	¥,723	42,268
Employment .	29,223	34,768
Undeployment (whole and partial)	7,500	7,500
Unampleyment to \$ of labour force	20.4	17.7

of Persons duting man unit and looking for more unit.

Throws not doing my mak and looking for most.

Bducat 1 ont

Achievemente et the End of the Piret, Second end Third Plan (number)

	Porf	mance	Bench-merk
Sect r item	1 x6C	1.165	1470
Technical education:			
Vocational institutions	•	52	74
Admission capacity to vocational			- 4B
imetitutione	•	3,700	7, 6 80
Annual output of matric. techn.	-	3,050	** } r ~ .
Polytochnics (including Swedish-Pak			
inotit::tee'	6	25	41
Admission capacity of technician			
courses in polytechnics	1.249	3,704	7,400
Annual output of diploma level			
technicians	630	1,644	3,800
Inginooping:			
Engineering institutions including			
universities of engineering and			
technology)	4	6	•
Admission capacity of graduate			
engineers	592	1,603	2 • 2ff (*)
Annual suspent of graduate engineers	424	614	1,353
'n 1 vere 1 t 1 es :			F:
'navereaties (general:	6	6	¥

Litereer

20% of the total population are literate. Next of the literate people are in iron areas.

The programme of scholarships made good progress. The number of students increased from 42,000 in 1965 to about 70,000 in 1970. The annual especiature of scholarships increased from \$4.4. million t \$7.5 million. A very large proportion of additional scholarships was granted to students of schools and technical subjects.

3. **97**1

	1945	1979	Avorego ennuel Lagrage
Henufacturing (MP/capita (8)	3.0	16.3	2.7%
Total CEP/capita (8)	78.0	₩.^	1.74
Population (nnn)	115,000	123,300	2.₽€
Benifecturing OFF insition 8 1.3.5	1,039.0	1,167.0	6.4€
Total TMP (mallage 8 ".3"	1,210.0	11, VY . 5	€.74
Manufacturing f of total ONP	11.4	12.7	

e/ at fact + cools of 1979-1960.

Intlies ! ".s.)

	Tolio add of "	Spouth rate	
Server	1341-1350	140-1370	12 Talue added
Agriculture	604	444	2.6%
Read For turing	61	125	7.7%
Construct ion	14	44	13.0%
Mises	376	yed.	4.75
Total	160%	100%	4.15

Specioral and regional areast recon!

Mart Plan Bread

(at 1959-1960 prices)

Appa mai ture	4. 94
Name For torsing	6.04
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of Extrapolation of a 9-month output.

6. Industry - misted measures and sentent

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The existing forest area is inadequate to meet the growing requirements for timber and fire-wood. The smuch imports of wood and wood products have increased from about \$8.4 million in 1955 to about \$27.3 million in secont years.

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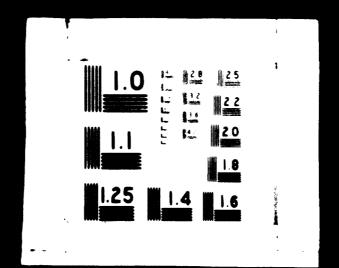
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The road traffic also increased in East Pakistan.

The air traffic in West Pakistan was estimated at 25,421 million ton-miles and 234,000 million passenger-miles for 1970; these figures are likely to be attained. In East Pakistan, 3,905 million ton-miles and 37,445 million passenger-miles are likely to be attained in 1970.

Main exports:

Major Exports Not Covered by The Bonus Scheme (million \$ U.S.)

	<u> 1965</u>	1970
Raw jute	181	164
Raw cotton	58	45
Hides and skins	65	1
Total	304	210
% of total merchandise exports	53.9	30.8

The annual increase in exports will be about 7% which is in line with the Second Plan performance but lower than the Third Plan target.

Merchandise Import Estimates for 1969-1970 (million \$ U.S.):

Food-grains	76
Other agricultural products	35
Processed food and beverages	55
Other consumer goods	70
Fortilisers	58
Chemicals	109
Puels and minerals	96
Stee1	156
Nachinery	370
Other engineering goods	89
Total	1.114

7. Overall economic development strategy and policy:

The basic objectives of the national economic policy were:

- to seek a maximum possible economic growth through encouragement of the private enterprise backed by the provision of the social, physical and inetitutional infrastructure of the Government;
- to realise the equitable distribution of incomes.

The characteristics of the economic development from 1960 to 1970 were:

- the commitment to planning for development;
- the end of etagnation in the agricultural output and in exporte;
- the increase in foreign assistance and investment expenditures;
- the diversification of the industrial output and exports;
- the growth rate in the production exceeded that in the population.

At the end of the Third Plan period from 1965 to 1970, the Government decided to reset priorities because of the emergence of soute problems especially during this period:

- Minimum wages, substantially above prevailing wage rates, were fixed for the organised private sector.
- The monopoly and cartel laws were framed.
- The expenditure on social sectors was raised sharply.

8. Regional co-operation:

The Regional Co-operation for Development (RCD) was created in July 1964; ite main object is not the economic integration but rather the preferential treatment and co-operation. Hember countries are Turkey, Iran and Pakistan.

The RCD comprises a total of 180 million people with a GDP of approximately \$27,000 million.

The member countries co-operate in the fields of:

Institutional arrangements:

A three-tier organisational set up was established composed of the Council of Ministers as the highest decision-making body of the RCD, the Regional Planning Council composed of the chisfs of the planning organization of each country and the permanent committies each consisting of representatives of sember governments.

A permanent secretariat was established in Tsheran to co-ordinate the RCD activities, to pursus the implementation of decisions and to provide secretarial services to the above.

Harmonization of plans:

The member countries agreed upon the co-ordination of development plans and a joint plan in the field of the RCD transport and communications system.

Joint purpose enterprises:

- 53 joint purpose enterprises have been approved; 13 of them are now in operation:
 - methanol industry between Iran and Pakistan located in Pakistan;
 - urea formaldehyde project between Iran and Pakistan located in Pakistan;
 - bank notes and security paper project amongst Iran, Pakistan and Turkey located in Pakistan;
 - machine tools between Pakistan and Turkey located in Pakistan;
 - year boxes and differential systems between Pakistan and Turkey located in Pakistan;
 - glycerine between Turkey and Iran located in Iran:
 - glycerine between Pakistan and Turkey located in Pakistan;
 - borax and boric acid amongst Iran, Pakistan and Turkey located in Turkey;
 - machinery for tea industry between Pakistan and Turkey located in Turkey;
 - polysterene project between Iran and Turkey located in Turkey;
 - locomotives diesel engines project amongst Iran,
 Pakistan and Turkey located in Turkey;
 - centrifugal and special filters between Pakistan and Turkey located in Turkey;
 - tungeten carbide between Pakistan and Turkey located in Turkey.

The following joint purpose enterprises are under construction and will start their operation at the end of 1970:

- ball-bearings project between Iran, Pakistan and Turkey located in Pakistan;
- RCD jute mill between Iran, Pakistan and Turkey located in Pakistan;
- shock-absorbers between Pakistan and Turkey located
 in Pakistan;
- nrganic pigment dyes project between Pakistan and Turkey located in Turkey;
- basic chrome dyes project between Pakistan and Turkey located in Turkey:
- diesel engines required for use in the marinecraft, tractore, earth-moving equipment and light and heavy trucks and buses project between Iran, Turkey and Pakistan and located in Iran, Pakistan and Turkey;
- ultramarine project between Pakistan and Turkey located in Turkey.

Projects in heavy engineering, electrical goods, automobile industry and shipbuilding are being undertaken.

A epecial committee has been set up in Pakistan to watch the progress of the approved joint purpose enterprises.

Trede:

During the last 6 years several measures have been adopted for facilitating the expansion of the intraregional trade such as

- the cetablishment of the RCD Chamber of Commerce and Industry:
- the establishment of the RCD Union for multilateral payment arrangements;
- the RCD Trade Agreement, etc.

Insurance:

The RCD insurance centre has been setablished at Karachi. In order to provide reinsurance facilities and limit the outflow of foreign exchange from the region, regional reinsurance poole have been formed.

Banking:

The establishment of a regional and commercial development has been proposed.

Transport and communications:

Some of the important developmente in the field of:

Poet and telecommunications:

The surface poetal rates for letters of all categories, telegraph rates and rates for telephone calle between member countries have been substantially reduced.

Nember countries have opened post and telecommunication offices in the border areas.

The eimple operator trunk dialling among the RCD countries has been introduced on an experimental basis.

Iran, Turkey and Pakistan are preparing plans for the utilisation of satellite communication facilities.

Road transportation:

Special importance was given to the completion of a RCD highway linking Karachi-Teheran-Ankara. The total length is about 5,270 km, the Pakistanian portion amounts to 1,310 km, that of Iran to 2,700 km and that of Turkey to 1,260 km.

The railway link between Iran and Pakistan will be extended.

Shipping:

A RCD chipping service has been in operation on the basis of pooling vessels of member countries. A joint shipping company is under consideration.

Air transportation:

The project of joint airlines is under consideration.

Technical co-corretion and mublic administration:

In the last five years 28 seminars on various economic, social and cultural subjects were held.

In addition to the exchange of experts and traineer, joint courses in public administration and management have been held regularly eince 1967 at the Pakistanian Administrative Staff College, Labore.



The RCD technical co-operation programme will be extended in the fields of agriculture, family planning, water resources development and scientific research.

Cultural co-operation:

In 1966, the RCD cultural instituts was set up in Teheran with branches in Istanbul, Dacca and Lahore. The institute has brought out several publications on history, culture and civilisation of the region, etc.

The new agencies, radio and television organizations of the member countries developed direct contacts.

The Indenseia - Pakistan Economic and Cultural Co-operation Organisation (IPECC) was established in August 1965.

A three-tier organizational set up composed of the Ministerial Council, the Economic Council and Technical Committees on Joint Ventures, Technical and Cultural Co-operation, Information Media, Communications and Trade was formed.

A small secretariat was also created at Djakarta to service the Ministerial Council and other subsidiary bodies and to co-ordinate the implementation of IPECC decisions.

A brisf review of the IPECC activities and future plans:

Joint ventures are possible in the fields of:

- jute industry;
- fishing, processing and export;
- rubber processing;
- metal processing;
- building of small ships and river-crafts;
- cotton industry;
- timber extraction and logging;
- exploration and exploitation of oil in Indonesia;
- manufacture of aircrafts for transport.

Trade arrangements were signed for the exchange of commodities with a value of \$20 million and for the grant of a credit of \$10 million by Pakistan to Indonesia.

Air transport and shipping services have been facilitated.

Technical and cultural exchange programmes are under consideration.

3. Systems for planning and plan implementation:

10. Problems encountered through the previous plan period:

The main problemsencountered during the Third Plan period were:

- a tremendous squeeze on capital resources;
- fireign aid flows were frozen at the 1965 level;
- that the debt servicing burden mounted;
- defence expenditures doubled;
- investment and saving rates declined;
- industrial imports were cut sharply;
- floods in East Pakistan and droughte in West Pakistan in 1966 and 1967 led to food-grain shortages;
- price increases caused a fall in the real wages;
- the disparity in the per capita income of East and West Pakistan increased, since the agricultural break through was limited to West Pakistan.
- West Pakistan;
 a high rate of unemployment.

These problems inevitably led to the evolution of a new development strategy which has been initiated during the final fifteen months of the Third Plan.

II. SUMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN 1970-1975

1. General goals and objectives:

(1) Planned growth:

	<u>1970</u>	<u> 1975</u>	Average annual increase
Manufacturing GNP/cap			
(\$)	16.3	14.7	7.4%
Total GMP/capita (\$)	125.0	152.0	4.1%
Population (000)	132,300	151,500	2.8%
Manufacturing GNP (million \$ U.S.) Total GNP	1,367.0	2,221.6	10.2%
(million \$ U.S.)	16,498.0	22,963.0	6.5%
Hamufacturing ≸ of the total GNP	12.0	9.7	
Total consumption (million \$ U.S.)			
Private	13,641.0	18,263.0	6.0%
Public	1,259.0	1,763.0	7.0%
Gross domestic saving (million \$ 11.5.)	1,597.0	2,853.0	12.3%
Total investment			-,
(million \$ U.S.)	2,225.0	3,547.0	9.7%
Exports (million # U.	s.) 892.0	1,341.0	8.4%
Imports (million \$ U.S	.)1,498.0	2,007.0	6.0%

e/ at ourrent market prices.

Average Assual Growth of GHP

Met	Pakistan	7.5%
West	Pakistan	5.5%
Best	and West Pakisten	6.96

^{**/} at factor costs 1959-1960.

(ii) Other objectives:

- to set up heavy industries;
- to produce and market the essential consumer goods and services at stable prices;
- to raise productivity;
- to provide maximum employment opportunities;
- to reduce the regional disparity in the per capita income;
- to make the economy increasingly self-reliant in most essential fields: capital goods, defence-oriented industries;
- to increase the per capita consumption of foodgrains through an increased production;
- to increase exports at 8.5% per annum;
- to obtain a more equitable income distribution through the prevention of a concentration in industrial wealth;
- to reduce dependence on foreign assistance;
- to increase the power generation capacity;
- to bring television programmes to 90% of the population;
- to undertake a major flood control programme;
- to make a decisive change in the education system;
- to extend family planning and to protect the population from malaria and smallpox;
- to build half a million houses for low income groups.

2. Strategy and policy:

(i) General:

The problems and prospects of industrialisation have been the object of several studies; the World Bank undertook a special mission to evaluate the industrial structure and policies.

As a result, a major effort will be made to fully utilise the existing capacity and to etress the production of engineering and chemical goods.

Rephasis will be placed on improving the quality of traditional exports and on producing finished items with a higher component of domestic value added. Studies indicate that Pakistan may have a comparative advantage in simple mechanical, electrical and electronic industries.

A major programme of import-substitution will be an integral part of the industrial strategy.

The civil sector must cater for the requirements for defense purposes; this will be a hallmark of the strategy for future industrialisation.

The petroleum and petrochemical industries will be given a considerable boost.

A co-ordinated engineering industry will be created during the plan period.

The Government will pay more attention to the co-ordination of different processes, product standardisation, quality control, etc.

The new strategy will require a coneiderable improvement in efficiency.

The Annual Development Programme for public sector investments and for the industrial investment schedules in the private sector will set out the details for each subsector. An annual review will be carried out.

(ii) Manpower and productivity:

Priority will be increasingly given to raising the employment level by laying emphasis on employment-oreating sectors and on a labour-intensive technology.

Employment
(millions of persons)

	1969-1970 (est.)	1974-1975 (ost.)
Labour force	42.3	48.8
Employed and underemployed of which Agriculture	41.8 30.1	48.2 33.6
Manufacturing Others	3.9 7.8	4.8 9.8

Technical Education

	1969-1970	1974-1975
Vocational institutions	75	280
Vocational admission capacity	7,680	47,000
Annual output of matriculated technicians	5,150	30,000
Polytechnic (including Swedish Pakinstitutes)	41	50
Admission capacity of technician courses in polytschnics	7,400	15,000
Annual output of diploma level technicians	3,800	8,000

Engineering

	1969-1970	1974-1975
Institutions (including universitie of engineering and technology)	6	11
Admission capacity of graduate engineers	2 ,2 80	3,300
Annual output of graduate engineers	1,353	1,650

In order to remove the existing inadequacies of manpower planning, it is necessary

- to formulate manpower policies concerned with the recruitment, training, use and conservation of manpower resources in co-operation with major agencies;
- to produce short and long-range operational programmes;
- to prepare manpower plans at national and provincial levels;
- to undertake a continuous review of the manpower situation;
- to develop basic data and statistics for manpower planning and to promote research work.

Manpower planning is an across the board responsibility of the Government.

Family planning envisaged through the plan period is relatively moderate in scale. However, expenditures on this will be considerably increased.

The education system will be made more functional, partly by specializing it according to manpower requirements. This will increase the employment apportunities and productivity of pupils leaving school.

A formal in-service training is only organized in a moderate scale; improvements will be made in the labour services, health and agricultural programmes.

A national accounts academy will be established at Karachi to train officers in various accounts services, to conduct accounts research and to select and sponsor candidates for overseas training.

A computer service bureau training centre will be established to identify areas suitable for computerisation in Government departments and semi-autonomous agencies and will prepare a plan for computerisation in the public sector.

For a higher general level of <u>productivity</u>, the following institutional framework is recommended:

- A high-level national productivity council should be set up under the Central Government to serve as a liaieon agency between the Government and businese and should advise the Government on various policy and administrative measures needed for raising the productivity at the national level.
- Regional productivity centres should be established in both parts of the country to deal with productivity problems in their respective regions.
- Productivity centree should also be established for branches of industry to deal with specific problems of productivity faced by these industries.

(iii) Investment and capacity utilisation:

Public Investments (million \$ U.S.)

	Total 1970-1975	Total
Agriculture	1,405	13.7%
Industry	927	9.0%
Puele and minerals	121	1.25
Water	2,125	20.7%
Power	1,226	11.9
Transport and communications	1,659	16.0%
Physical planning and housing	797	7.7%
Mucation	769	7.6%
Health	513	5.0%
Panily planning	145	1.5%
Social welfare	44	0.4%
Manpower	29	0.3%
Public administration	8	-
Work programme	514	5.0%
Total	10,205	100.0%

Private Investments

(million \$ U.S.)

	1970	<u> 1975</u>	Total 1970-1975	Average annual growth
Agriculture	115	168	714	7.8%
Henufacturing, mining and querrying	388	493	2,309	5.0%
Construction, gas and electricity	52	73	315	7.0%
Transport and communications	105	189	735	12.5%
Desilings	146	189	840	5.2%
Other services	94	126	546	6.0%
Total	903	1,238	5,457	6.5%

Sources of Pinence - Public Sector 1970-1975 (million \$ U.S.)

Novembe surplus	3,054
Not capital receipts	1,081
Deficit financing	735
Total demostic resources	4,870
Poroign resources	3,778
Total resources	8,648
Cap for the programme	1,637

A descetic marginal cavings rate of 20% is required through the plan period, as compared with approximately 10% during the 1965-1970 plan.

(iv) Interconnections between growth factors:

,	1974-1975	Pourth plan period (average)
Gross foreign assistance	\$881.6 million 38.4% of GNP	n.a.
Gress domestic savings	12.5% of CMP	11.4% of GNP
Average marginal savings	n.a.	19.8%
Gross domestic investment	15.5% of GMP	15.0% of CNP
Export-import ratio	0 .65 8	Tie Ne

3. Data bases and projections:

In the past, progress has been made in strengthening the statistical services. Deficiencies still exist at the Central and Provincial levels. The individual statistical series are not related to a well-organised system of national accounts.

Certain recommendations made on this behalf by the National Income Commission in 1965 and of the recent World Bank Statistical Mission should be implemented during the Fourth Plan.

The major fields to be given attention during the plan are:

- national accounts;
- censuses and surveys;
- research and development;
- training:
- administrative services and data processing.

Another reproduction unit is to be provided in the Central Statistical Office and two mational institutes of statistical research are to be astablished in both parts of the country. An even more pressing need is the strengthening of existing provincial statistical bureaus and the creation of statistical units in the new provinces of Nest Pakistan.

4. Planned growth of industrial sectors:

(1) Planned growth of manufacturing sectors:

Manufacturing in East and West Pekistan

Industries/ite	<u>Unit</u>	Hench-marks 1969-1970		Increase over 1969-1970
Food manufacturing:				
White sugar	00 0 tons	73C	1.000	374
Vegetable shee	000 tons	,	300	3 (0,0 mg
Cigarettes (000 million		9 0, 63	100-
Tea	Million lb		90	32%
Menufacture of				·
textiles:				
Cotton yern Juts goods	Million lb	. 700	1,100	8 ° 7
(Hessian/sacking) Broad-loom jute	OOC tons	54°	1,030	50 1
products	one tons	τ , τ ,	210	28. 24
Paper and board: Writing and printi	70			
paper	000 tons	61	200	2 2 84
Boards of all kind		64	150	134%
Wewsprints and		•	1 10	1.34°%
mechanical papers	000 tons	50	75	50*
Pilp	000 tons	-	30	•
Chemical industries: Portilisers (in te			ý	
of nutrient)	000 tons	195	1,425	6314
Soda ash	000 tons	70_	200	186%
Constic sods	one tone	35	180	24 30
Sulphuric acid	000 tons	100	1,000	300%
Potrochemicals	000 tome	10	170	1,6004
Non-metallic mineral				
Coment	000 tons	3,206	7,300	1224
Basic metals: Steel	Do	90	790	733%
Machinery and equipm Machinery other th the electrical machinery			4 0.	
Electrical machine apparetue,	- •		62. 1	183%
appliance Transport	William 8 U.	8. 402	64.4	148%
equipment	Million \$ U.	5. 466	97.8	1475

[!] Includes the captive captaily.

Investment in the Community-Finance Sector During the

(million \$ U.S.)

	Covernment Best	Investm Meet Thistes	
Industry of the	Deliates !		_
Pood menufacture	8.4	4.2	12.6
Reverages	•	•	•
Tobasco manufactures	•	•	•
Hamifacture of textiles	84.0	-	84.0
Postumer and appears?	•	•	•
Namu facture of wood and cork	-	10.5	10.5
Parmiture and fixtures		•	43.0
Paper and paper products	63.0		63.0 4.8
Printing and publishing	1.0	3.8	
leather and leather products	1.0	•	1.0
Rubber products	•	•	•
Chanton! industries	58.5	16.8	69.3
Products of potrolous, seel as	4 _	5.2	5.2
	166.9	•	100.9
Potrochemical industries Non-estallic simpsel products	n.0	10.5	M.5
	37.8	74.5	112.3
Inote motel industries	1.0	35.7	W.7
Motel products industries Reshinory compt electrical continuory	31.5	16.9	19.4
Montrial mentiony opposite	40.0	27.3	69.3
and applicants	N.5	6.3	37.0
Transport equipment	4.1	7,4	11.0
Steen Lancous Industries	W. 1	0.7	30.)
Industrial estates	9.1	Sen'	3.1
Smil industries' grantians	yp.0	19.7	93.1
Ententific and imbestated	19.7	16.1	84
research Treat	***	m.	990.

Sugar industry:

The target for East Pakistan (250,000 tons) will be achieved through the modernisation of existing mills and by increasing the sugar content of case. The road network will be improved.

In West Pakistan, production will be largely increased in the private sector.

The per capita consumption will be raised from 10 lbs. to 13 lbs. per year.

Invocaments for a new capacity, modernisation and a machine replacement are estimated at \$25 million.

Mable sale and wantable chee:

Efforts will be made to produce refined corn oil to further reduce imports.

An investment of \$1° million will be required, helf of which in foreign exchange to modernise the edible oil industry. It will also be used for expanding the deliniting equipment and solvent extraction plants.

The Small Industries Corporations will appears the investment for the improved stilligation of execute and the enderstantion of small oil orders.

Therese !

Tobases, flue and attrovered, eriginates largely in that Palistan.

The total investment over the period will to $\{7,1\}$ million of which $\{7,7\}$ million will be the foreign exchange component.

The processing and blanding expensive through auditorisation and expensive. The auditorary and the appearance production will be presented.

010 01111 to 0111 to 011-cottof to the ten industry which tenti-dec 80.7 011140 in furnity contains.

Jotton textiles:

The per capita consumption will be increased from i . If yards over the seried,

The fital vary recovered for the projectson of of the walls on the ${\bf x}$

Proton exchange earnings from vorm at. ' be marytime greater.

brathetic fibre meries:

The requirements of symthetic fibres are expected to so 24,000 tong. The installed comparity at the end of the Third Plan as inted to 7,15 then.

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MALLON DESIGNATION OF PERSONS ASSESSED.

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For an additional expensive \$16.5 million and provided with a framewood contains companied of \$1.7 millions.

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Pricelous accherge

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ical authorizeries.

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The belowing, endormination and expansion of estating factories will be an extent.

The production of drags, estimation, etc. from indigenous representation of the one origin.

THE PROPERTY AND ADDRESS.

Experts of enthery and breashold equipment experience industries about to more than dreshold. The amount about the dreshold about the dreshold about the first Plan and \$1.00 actions.

The quality of agree-litural tools and suplements about to approach.

The existing experience downlot to filly its load.

Description of the latest the latest terms of the latest terms of

The country's degradance or imported expected grade on 11 to reduced from about 17st at present to 16st to the end of the plan.

The albitismal report representation of extents for their

To restate the sale of the sal

Conduction commerciate util to increased.

Electronic southment, reduce and to levistee meetings:

The production of television picture tubes and other components will be exectioned.

The production will be co-ordinated for the optimum utilization of capacities.

Percent enument

The production terms for 1974-1974 mounts to \$147 mallion.

" Pleased at vit of electricity:

Book-cooks, and Phonesal Tanasta in the Poinc Butter

		Monre		M9-1-170	~	rgoto (1975	4-1 +**
Line	1911	لعد	Jana Tale	SALALAN		Distance	Distantes.
Instal led reperity		, 11	670	1,921	4, 131	1,161	1,15
fotal generation		·	1. **	6.70m	10,000	1, ***	13.4 ×
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Penesteen in end	V 1 100	44, 900	6, W	v, 100	*4,*00	14. *	'' , 'M '
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the net section villages to be emplied with electricity under the integrated runs development under.

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(million 0 .A.)

				Manchan
(1000)100	106.1	0.1	14.4	206
Numerous o	97,1	11.5	119.4	106
Natribition		M1.4		400
Total	100.4	100.0	180-4	HEE
			100.7	

111 Pleaned growth of mining!

Hench-marks and Physical Targets for the

	<u>inst</u>	Bast Pakistan	nch-marks Nost Pakistan	Total	East Pakistan	West Pokistan	Total
* 3 .	way 🐧 🔥	-	1,300	T. Ank	**	e Cana	₹ = €¥
in the	ን እነ ተ ክል	-	-	-	-	3/ H	30 0
rk∞ a t	"Mr tons	_	14.6	34€	-	$v \in \mathcal{M}_{\mathcal{C}}$	$r_{-}(\mathcal{H})$
'hp ma*e	OPO tons	•	6 C	6 0	-	44 T. F	× ()
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, *** ₹* **	aw tong	1.50	4, 500	r • OCk	1. H#S	-, 000	TOTAL
Mart e	DOT tone	-	} E.	10	-	* 0	30
Vica	000 time	-	4	4	-	6	€
hate o tterm ola	v 000 tons	4	10	35	15	136	150
· E , PO- F , A)	900 tons	Ĺ	20	24	10	40	5.19
` ph⊲r	YXX tone	•	4	4	-	20	20
Nat ra. res	ome mailson of.	1.	11c	130	210	20 0	410
	Wallion Imp. gallone	-	3 () (-	200	•	350	310

IV' Priority of section!

Priority will be assigned to agriculture-oriented industries, especially in Rest Publisher the essention of projects like the Chorses! fortilizer factory, the triple experimentate plant, the associate sulphase plant as part of the patrochemical complex, the Publisherian diesel plant for low lift purpo and the posticides project will be assisted.

The power generation especity will be eignificantly increased to provide irrigation water.

In the manifestiring senters, the increase in production of cotten year, of pite and of the ought mills and paper industry will be given primpity as for as the traditional sectors of industry are concerned. Purthermore, special explants will be

laid on the prediction of cement, steel, indistrial machinery and transport equipment.

In the mining sector, natural gas, limestone and chinaclay are of special importance.

v: Infrastructural problems connected with industry:

Banch-marks and Physical Targets for the Third and Fourth Plan of East and West Pakistan

escription	<u> </u>	Bench-marks for the fourth plan 1969-1970	Targets for the fourth plan 1974-1975	Increase in 1974-1975 over 1969-1970
Vailways:				
Locomotives (N.E. and electric; Locomotives (steam) Passenger carriages and other	N:mber Number	625.0 1,046.0	702.0 913.0	33.5° (-)12.6°
coaching wehicles	N.mber	5,492.0	5,692.0 (754.0)	3.6%
₩ Q gg ns	Number	61,616.0	64, 18 6. 0 (5,81 6. 0)	4.17
Road transport:				
Bises	Number	14,204.0	26,362. 0 (7,610.0)	² 5.65
Tr.:cks	Number	35,455.0	65,175.0 (14,656.0)	\$ 3. 8%
High type made	Miles	14,950.0	18,200.0	21.8%
Communications: Telephones Ru Post offices	nber (000) Minber	202. 5 1 4,300. 0	392.5 17.300.0	93.8% 21.0%
Shi pe	Mabor	66.0	123.0 (18.0)	86.0%
Civil eviation:				
Airporte	Ruster	27.0	53. 0	96.3%
Airlinge: Publisten International Airlines Corporation® - Passenger miles				
evailable Passenger miles performed Ten miles evailable Ten miles performed	Hillion Hillion Hillion Hillion	1,718.1 1,081.2 227.7 139.1	3,427.1 2,022.5 543.8 326.3	99.5% 87.0% 138.9% 134.5%

^{...} While the targets for the Third Plan indicate the total planned acquisition during the Third Plan, the targets for the Fourth Plan indicate the position in 1974-1975 after taking into assessment the replacements in parenthesis to be made during the Pourth Plan period.

The total for the Pakistan International Airlines Corporation includes all operations, interving and intra-provinces.

The problems of water resource development in East and West Pakistan are very different from each other. East Pakistan, which is a humid region, faces the problem of recurring floods. West Pakistan, which is predominantly an arid region, faces the shortage of rainfalls in a large part of the region. To solve part of these problems, the country will make efforts to:

- control or regulate the floods to a feasible extent in order to avert the incalculable material damage and human suffering;
- develop and tap all the possible water resources to provide dependable and timely irrigation for winter crops;
- organise and expand the data collection activity and the investigation of work by providing adequate funds;
- expedits negotiations with India regarding the Ganges water to avert the imminent danger of damaging agriculture in the areas dependent on the river;
- improve the capacity of the agencies working in the field by undertaking a water resource development programme of a larger magnitude than before.

The problems of power development are different for the two wings of the country. East Pakistan offers little scope for the generation of hydroelectric power. Natural gas reserves in the eastern sone, however, are used for cheap thermal power generation. The western sone is dependent on imported fuels. Interconnections between the two sones are difficult because of the seasonal variations of water discharge of the main river. The northern part of West Pakistan provides a large source of hydroelectric power which is subject to seasonal variations. Natural gas resources in the south are sufficient for completing the hydroelectric potential in the north; therefore, the interconnection of hydroelectric stations with thermal etations is necessary and very high voltage transmission lines are required.

The cevere transport bottlenecks of the recent years chall be eliminated during the Fourth Plan and the following years.

5. Planned industrial projects

Sugar:

In West Pakistan, the capacity will be increased through the establishment of a mill by WPIDC with Chinese assistance. Its capacity will be 10,000 to 15,000 tons per year. It will be the first of several to be established to permit the country to become salf-sufficient.

Tobacco:

A cleaning, classifying and redrying plant of a capacity of 2,000 lbs. of tobacco leaf/hour is proposed for East Pakistan.

Woollen textiles:

The first modern wool-mill with 3,200 worsted spindles and 40 worsted looms will operate in East Pakistan; its production will meet the requirements of woollen textiles in East Pakistan. The estimated requirements for woollen textiles in 1974-1975 are:

Total yarn	Cloth	Carpets and rugs	Blankets	Other products
(million lbe.)	(million yds.)	(million numbers)	(million numbers)	(million lbs.)
21.0	10.0	3.0	1.0	3.0

The total requirement of raw wool will be 25.0 million lbs. of which over 6 million lbs. will have to be imported.

A production increase of 5 to 6 million lbs. (clean content) shall be achieved.

\$0.6 million will be provided for facilities for the balancing and modernisation of the existing capacity.

A wool bureau responsible for trade promotion, education, scientific and technological research publicity and information is proposed to be established.

Pulp:

In East Pakistan, the pulp mill producing 30,000 tons based on bamboo, reeds and jute wasts and another one producing 50,000 tons based on jute cuttings are to be built.

The total investment costs of \$42 million are provided for the second project. The foreign exchange component amounts to \$23 million.

Chemicals - soda ash:

A moda ash ammonimum chloride plant which will produce 40,000 tons of moda ash in 1974-1975 is included in the Fourth Plan.

Insecticides and pesticides:

In East Pakistan, two projects have been planned with annual capacities of 3,000 tons of Malathian and 2,400 tons of Dimecron and allied posticides.

In addition, the following pesticides production projecte and formulation units are under coneideration of the Central Government:

Endrin	1,500	tons/year tons/year
Heptachlor	1,000	tons/year
Nothyl Parathion	2,300	tons/year
Metachlorophos and	•	
N.S.P.	2,900	tons/year tons/year
Petkolin	6,500	tons/year
Toxaphene	5	million lbs./year
Phosphats (basudin,		
diamenon, etc.)	800	tons/year tons/year
Metachlor M.S.P.	3,400	tons/year

In West Pakistan, a mono-ammonium phosphate plant with a capacity of 120,000 tone and a complex fertilizer plant with a capacity of 311,000 tone of nitro-phosphate and 322,000 tone of ammonium nitrate have been authorised by the Government; production will be etarted during the plan period.

In East Pakistan, an urea factory with a capacity of 340,000 tons has been senctioned in the private sector; another urea plant which will be part of the industrial chemical complex at Asbugauy has been recommended for approval; it shall produce 320,000 tons of urea. A triple superphosphate plant based on imported phosphoric acid will go into production in 1971-1972.

Petroleums

Two refineries are planned to be established within the plan period; one will be located in East Pakistan with a capacity of 1.5 million tons and one in Weet Pakistan with a capacity of 2 million tons. To achieve this capacity, an investment of about \$99.7 million will be needed.

Coel carbonisation:

In Neet Pakietan, a project has been sanctioned for the establishment of a coal carbonisation plant in Baluchistan.

In addition, a few low temperature coal carbonication plants may be built.

A cookery to meet the requirements of steel, sugar, foundries, etc. will be needed.

Petrochemical industries:

The capacity of an existing polyethylene plant will be expanded from 5,000 tons to 15,000 tons. The expansion is based on the utilisation of ethylene from the petrochemical complex at Karachi.

Another petrochemical complex based on naphtha from the refinery at Karachi has been sanctioned by the Government. This project involves an investment of \$63.4 million of which about

\$35.9 million will be in foreign exchange. The complex is designed to produce:

Naphtha crackers	47 tone of ethylene but initially producing 24,500 tone which may be expended to 60,000 tone.
Polyethylene plant	10,000 tons
PVC plant	15,000 tons
Vinychloride monomer to feed the PVC plant Chlorine plant to feed	16,500 tons
the YCM plant	11,000 tons
Polypropylene plant	5,000 tons
Dodecyl bensene plant	5,000 tous

In the Government-financed sector (MPIDC) an expert-oriented petrochemical complex based on natural gas has been approved by the Government. An investment of about \$219 million including \$118 million in foreign exchange is envisaged. The following will be produced:

Acetylene	36,000 tons
Bleaching powder	1,000 tone
Caustic sods	42,000 toms
PVC recin	50,000 tame
PACH (polymerylomitrile)	12,000 tons
PACH town	4,000 tons
Mills (polymothy-	
imptheorylate)	4,000 tons
Mothemo 1	37,000 tons
Ammonium sulphate	M,000 tons
Ures	320,000 tems

The complex is empected to be in production toughts the end of the Fourth Pive-Year Plan or early during the Fifth Plan.

Communication

The production target of 7.3 million tens has been fland for 1974-1975.

A project based on linestess with a resul regarity of 660,000 tons of cement will go into production during the Fourth Plan.

At Chillegeng, a factory based on imported climbers in espected to go into production in early 1971; it will pr dire 100,000 tone of ogment.

Processets of cotablishing a mamorth rement plant with a essently of 1.5 million tone of coment a year are bright.

Bernesuticale, established and fice changes !!

A street week factory to being set to in Bast Patietas in the Covernment-financed senter and to expected the antiproduction diring the plan period.

The basic production of outgles, enti-19 and enti-enter at drugs in the fortory (jointly set in to MITS with foreign Campitation of remite) at these will to in fill appropriate.

Infirmation in

The only existing refrection fact of in the insurance. financed sector is being beleased and understood; it will services 12,000 tons of fare-tracks.

A new plant to produce about 20,000 tone per games of esserations refractories is proposed to to established.

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The inversement has devided to build in that Pablistan a secretal plant of a mesonity of one cilling two based to imported are. The feveragest of the HERR has expend to Wildhorsto by providing financial and technical analytemes in the cotting up of a citi. The plant will produce:

- 100,000 tone of pageagent
- 140,000 tons of billion;
- 100,000 tons of coline spottens; and 100,000 tons of figh-tons.

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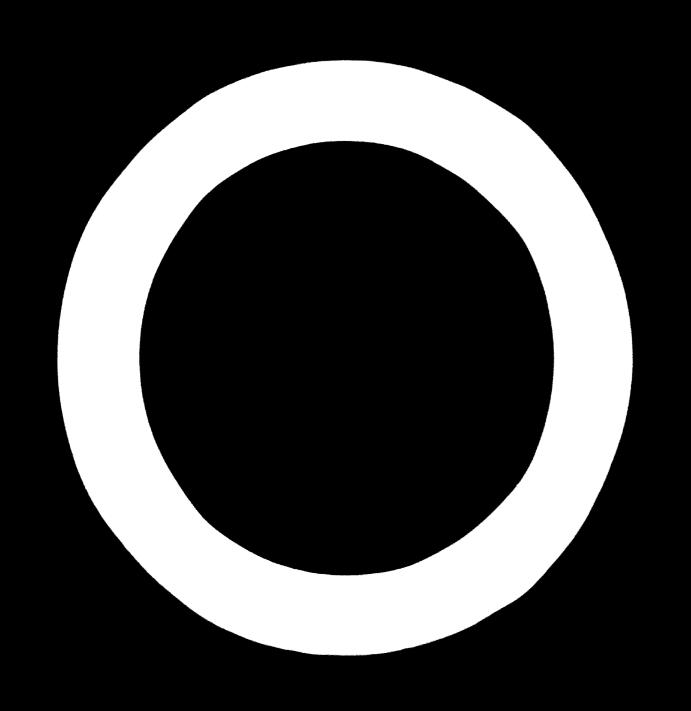
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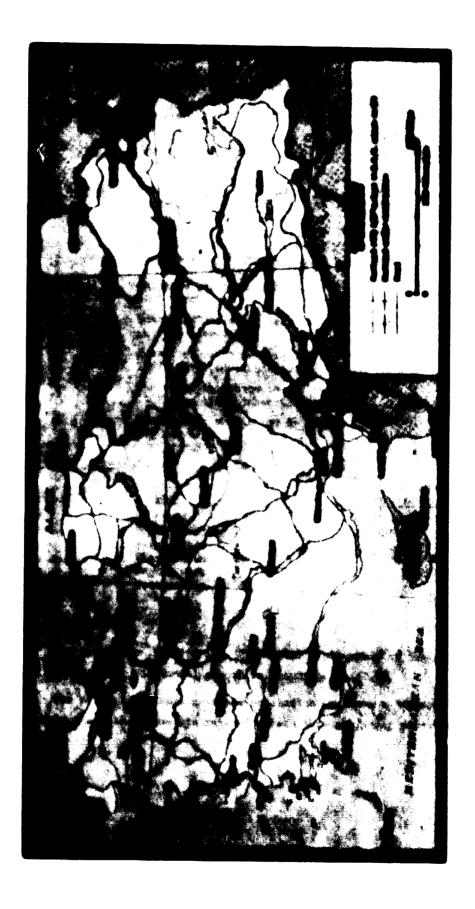
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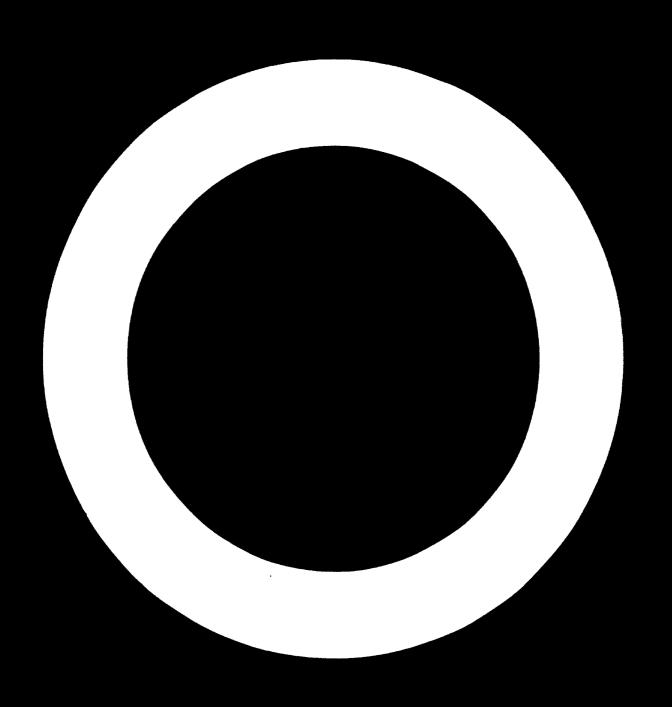
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Married Co. Co. St.

T. DWOAR WARREN IN THE PRACTOR

1. Basic statistics of T rkey:

<u>(reg</u> :	Arricultural area Eurests	731,000 km ² 944,000 km ² 10€,000 km
"ajor cities:	Istanbul: 1.65 Population of 1. Ankara: 1.65 Population of 1. Izmir: 1.65 Population of 1. Adana: 1.65 Population of 1.65 Population of 1.65 Population of Eskipphir: 1.65 Population of	902,000 410,000 220,000 210,000
ther data:	Number of passenger cars in ise in 1966 (per 1,000 inhabitants)	3,060 3
	Number of radio sets in use in 1067 (per 1,000 inhabitants) Number of telephones in use in 1967 (per 1,000 inhabitants)	£5 R
	Electricity production in 1967:	e;

Exchange rates:

Unit	Turkish Lira <u>equivalent</u>
US dollar	9.08
Pound sterling	21.795
Swiss franc	2.103
French franc	1.634
German mark	2.461
Italian lira (100)	1.451

2. Population:

The population in 1967 was 32,978,000. The number of inhabitants per km 2 was 42. The annual growth rate amounted to 2.5%.

The policy in relation to the population has been to improve its structure and to reduce its rate of growth through family planning.

The total labour force in 1967 was 13,737,000.

The population over the age of 6 is 25 million.

Urben and Rural Population

	1955	1960	1965
Urban population	22%	26%	30%
Rural population	78 %	74%	70%

Distribution of Baslorment

	1963	4,	1965	1	1967	1
Agriculture	9,853	77	9,768	75	9,940	72
Industry	1,125	9	1,197	9	1,424	10
Construction	339	3	379	3	472	3
Trade	435	3	471	4	498	4
Transportation	269	2	301	2	339	3
Serviore	808	6	936	7	1,066	8
Total	12,830	100	13,050	100	13,740	100

Distribution and Replayment Increase in the First Plan Period

	Pirst Plea Estinate		Beal	1004
	1962	1967	1465	1967
Agriculture	77.4%	71.1%	77.7%	72.35
Industry	9.8%	11.9%	10.9%	13.8%
Services	12.8%	17.0%	11.4%	13.9%
	100.0%	100.0%	100.0%	100.0%

Menapur Situation

	1960	1965	\$ increase
Ingineers	15,120	20,130	33
Tochnicians	23,500	33,620	43
Technical personnel in chamistry and physics Artisans	2,94 0 933,840	4,320 1,235,000	47 32
	1961	1965	
Destore	9,310	10,895	17
Pontiete	1,680	1,930	15
Resource (assistant health personnel and midwives)	13,700	14,900	9

Manation:

Charles and the Contract of th

48% of the total population are literate. Out of the literate population:

56.0% have completed primary training: 7.0% have completed secondary training: 25.0% have completed vocational training: 1.5% have completed university.

The remaining 31% consist of those who have not completed a figural educational institution.

The school attendance rate in 1967-1968 of the population at the age of 16-18 was 56%. The Central Covernment expenditure on education per head was \$11 in 1967.

). **P**

•	Yels) and	
Industrial CEP/cepite (0)	×	43	t.af
Total EF/capita (8)	237	275	3.46
Population (000)	29,000	30,000	2.95
Industrial GSP (million 8 U.S.)	1,000	1,400	1.06
Total CEP (million \$ 8.8.)	6,900	1,000	6.35
Industry & of total CEP	14.5	15.9	

The same of

Agriculture	41	35
Industry	17	16
Construction	6	6
Strade	•	*
Transportation	7	•
Plannial institutions and professions	•	•
Breatag	3	4
Coveragent corriers		14
Proposite income	100	=

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^{55/ 80 1965} market priores.

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Brustay	1,199	M	1,101	21
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The I the	130	,	•	•
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Springs	180	•	(24)	•
Treat	1,100	100	- Im	ia.

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Company to 1985-1987: 1.15

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Liverstocks, Prints and mail 6.65

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Property .	***	190	495
	***	1,195	1,501
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	7, 100	1,430	3,010
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Potenting	977	•	1,107
Materiapo-plate value	91	•	107
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hips-against	7, 200	6,100	6,90
top estray		•	770
Miles tentionally	16,100	17,600	
Tribus		177,000	100,40

Busine of Statement to Statements that is 1985

	Stilled Milled	<u>Danas</u>			<u>Total</u>
Ti geten the	11,410	7,265	9,455	2,061	12,214
hepper-epithe	7,900	4,031	4,700	1,247	17.671
Me-49 filters and tis-484460	A , 270	4,191	·,40f	370	16,850
Personal desilers and planning members filters	4,697	4,14	4,066	£ 80	14,681
Poundry w/90070	912	M 1	977	4:1	2,922
The bedy repolations	1,10	1,277	1,000	20%	3,972
Josep 1 1000	1,961	1,100	842	800	4,497
Cangantore	10, 161	7.740	1,670	:4,079	39, £10
Company registre	4,74	1,001	3,607	2,616	14,072
Corbin multipro	3-097	2,970	2,265	1,144	10,496
Pleators	100	130	70	4	579
thought areas	1,481	531	307	723	3,044
State 4:11000	2,401	1,733	1,590	11,296	17,160
th-englare	3,484	46 9	ann	3,732	4.1 M
Tegal iors	24, 46	11,417	11,011	13,489	60,420
legitor writers	2,104	7,614	696	216	11,030
Trad less sporters	1,872	1,771	691	1,394	9,689
Compiled the second	10,114	9,474	4,861	61,146	95,065
Topoconducto and tox lett	w, and	18, 327	21,748	13,793	86,546
taken	6,200	9,507	4,006	17,233	19,048
Comforts energ	2, 943	2,6 2 f	1,603	1,414	11,588
Pastron adors	40	241	247	632	1.722
Measurer redoom	231	150	167	110	667
Companies and who was explored	100	164	186	551	1,299
Printers	1,860	720	696	1,837	4,473
Starontypo-plate workers	181	*	75	8	531
Maghas Idoro	219	100	100		903
Rego-exhere	6,874	712	4,084	351	12,171
hoep mekers	400	764	439	2,061	3,725
Other hadiorafte	24, 100	5,610	6,766	3, 364	39, 361
Potal	104,400	112, M)	101,330	160,419	100, 10)

6. Industry - miletel macurate and sections

Activities Deduction

(non metric tone)

	101	1988
Total corrects Choose Total	3,800	15.840
Bartey Cara Ness Others	1,000 150	3,960 1,000 180
Mase	1,860 164	1,680 162
Regiler 1001 College	4,420 380	R. G. 435
Replants	190	130
Plotoshice	80 9	90 10
Gives Crosse	840	820
Rø	3, 100 215	3, 300 2 2 0
The (met leases) Citizen Strukto	105	125 525
Arangeo lettore Tangaringo	310 85 50	110 110 55

Hearly 75% of the population are engaged in agriculture and just under 50% of the total experts complet of agricultural products. Due to growing adverse conditions, grain has recently had to be imported.

Porestry:

Approximately 13% of the land area are forceted, but hardly exploited; about one third of this is considered productive, the root being only corub and brunk for fuel purposes.

The principal woods are: pine, oak, beech, fir and spruce.

Requirements of construction timber are nearly all produced locally.

Power:

The electric power is used by only one third of the population; production is undertaken by a few large and many small producers.

Thermal stations are normally used, although hydroelectricity is becoming increasingly important; studies are being carried out on the possibility of nuclear and geothermal power units.

The Hinistry of Energy and Matural Resources is responsible for planning a large-scale power development programme.

The Stibank (a state economic enterprise) is responsible for electricity generation and transmission.

The Illerbank is in charge of the distribution is urban areas.

The Deviet Su leteri (DSI) is in charge of the design and construction of hydroelectric projects.

The mining industry remains somewhat underdeveloped in spite of the country being rich in resources. 85% of the production are privately controlled by the Etibank, a state economic enterprise.

One third of crude petroleum requirements is desertically produced, the remainder is imported. The desertic production is undertaken by:

- Turkiye Petrolleri Amonim Ortakligi (TPAO)
- Bream Petrol Samyii, A.S.
- Nob41 011
- Royal Datch Shell.

The crude oil processing in 1768 by three refineries consisted of:

Gasolise	913,000 metric tons
Dissel fuel	1,504,000 metric tons
Peel oil	2,765,000 metric tons
LPG	131,000 metric tons
Kerosene	451,000 metric tons
Others	490,000 metric tons
Total	6,300,000 metric tons

The USSR is building a refinery at leair, due for completion in 1972.

Mineral resources:

Production of Minerals in Turber, 1966-1967-

Commodity	1966	1967
Metals	-	2,578
Antimony	3,222	2, 349
Chromite	511,645	371,138
Copper (blister)	26,617	25,390
Perrochromium	7,000	8,471
Iron ore (1,000 tons)	1,615	1,523
lead:		
024	-	4,652
Concentrate	1,559	2,195
Manganese ore	21,965	17,307
Meroury (76 lb. flasks)	3,420	4,147
Pyrite:	100 600	104 010
Cuprecus	120,622	125,010
Non-cupreous	52,908	55,000
Zinct		
Zinc ore (40%)	16,620	18,448
Zinc-lead ore	7,150	3,101
Zinc ore, calcined	1,768	1,343
Zinc concentrate	1,100	11,343
Non-metals	_	
Asbestos, crude	3,630	3,257
Asphaltite	10,843	11, 366
Barite	17,103	30,647
Beuxite (refractory)	32,280	21,490
Cement (1,000 tone)	3,865	4,249
Enery	29,470	24,475
Flourspar	1,753	432
Cypeum	250,000	275,000
Magnesite:	41 641	13 271
Crude ore	41,643	13,271
Sintered	24,146	23,548
Marble	15,000	15,000 67,550
Meerschaum (kgs)	57 ,200 358	637
Salt, all types (1,000 toms)	7,423	9,112
Sodium sulfate	22,650	25, 364
Sulphur, refined	22,0,0	47,304
Mineral fuels		
Coke, all types (1,000 tons)	1,449	1,368
Coal, bitumen, salable (1,000 tone)	4,903	5,013
Lignite, salable (1,000 tons)	4,774	4,466
Petroleum, orude	2,041	2,726

^{*/} Source: US Enbassy, Ankara

7. Overall economic development strategy and seller!

A. Marional co-operations

Commenties of Perisonal Inverte

(million \$ U.S.)

	Investment evols	Raw Selectate	Consumer	Total
1963	28	36	12	76
1964	72	33	5	60
1965	22	35	7	64
1966	29	41	9	79

Origin of Isserts by Regions in \$

	<u> 1963</u>		1966	
	Imorte	Specie	Imports	Morte
OECT countries	76	79	75	74
Misteral agreement cou	strice 12	13	14	19
Other countries	12	8	11	7
Total	100	100	100	100

Composition of Regional Imports

(million \$ U.S.)

	Agricultural 	Nining Problems	Industrial Products	Total
1963	32	1	8	41
1964	35	2	9	46
1965	39	2	10	51
1966	42	3	10	55

9. Systems for planning and plan implementation:

The annual programmes of the State Planning Organisation are used

- to readjust the initial assumptions of the Plan whosever necessary.
- to correct mistakes occurring in the estimates and to reach targets in accordance with the new data.
- to revise the sectoral distribution of investment whenever necessary.

The c -ordination between the State Planning Organisation, the Ministry of Pinance, the Ministry of Commerce and the Central Bank will be established. The State Planning Organisation will collaborate closely with the State Institut of Statistics in the compilation of data.

All investment proposals for public sector projects will be submitted to the State Planning Organisation, while local authorities will be required to inform the State Planning Organisation of their investments.

Public sector enterprises will be free to determine their protection levels and the prices of their products in accordance with the existing legislation and subject to the requirement that they submit quarterly progress reports to the State Planning Organisation.

The relations between the State Planning Organisation and the private sector will be reorganised to provide a two-way information flow.

Private investment projects related to manufacturing industries will be examined annually by the State Planning Organization so that the foreign exchange requirements of projects will be met. The chief criteria will be their productivity and their contribution towards secondario development.

All important financial incuse related to economic and social development will be examined by the State Planning Organization before being submitted to the High Planning Council.

The Central Covernment and local administrations will be reorganised to increase their contribution to the development effort.

Public spater investments often fall short of the set targets des to:

- internal financing difficulties.
- the failure to propers a sufficient mester of projects during the initial years of the plan ported.
- lagication equating difficulties and hindering invitates.
- external financing difficulties.

Problems erising in relation to the credit epotent

- The banking eyetem continued to be the only institution philiping and distribution private cortage.
- Only limited progress we make towards the appointmention of basher long and medium-torn credit requiements were not under the conditions for whertterm eredite.
- A differential interest rate system enabling the adoption of different asturities for both deposits and eredite was not implemented.

Problems of the manufacturing sectors

- The largest properties of equiforturing enterprises is indifferently emaged as a small souls septement throughout the country. mi the country.
- Only 6.5% of 5,985 enterprises in both public and potivate agetors employ more than 100 workers.
- large-scale industries are happered due to the last of a capital market, limited behite of co-sporation example entropronouse and the inadequaty of nanopulant
- The last of co-ordination between inetitutions has reculted in the failure of incentives to help the numberuring sector.
- Carrent licensing procedures for industrial enterprises
- are extended. Suports of assufactured goods here been happered by the generally high demontic cost of production in solution to world prices. This has been due to:
 - high teriffs on imported capital pools and on raw autorials.
 high casts of describe raw autorials and
 - of some acceptial corvious to manifesturors.
 - high interest rates due to a chertage of
 - espital.

 the establishment of enterprises without considering the minimum communic expanity

11. MINUTE OF THE TOWNSHIELD SERVICE PLAN 1988-1970

1. Second cools and children

(i) Bond out

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Treat CP/nepto (8)	#4	394	4.46
Pagestation (680)	10,700	77,000	2.46
(milion 9 7.1.)	2,190	3 _V den	10.04
Total EF (milles 9 U.S.)	1,400	13,200	7.0£
Industry 5 of total CD	23	27	
Private conscrition (at lise 8 11.9.)	6, 376	1,140	2.%
Impound (millen 8 %.S.)	1,876	3,219	11.4
Experts (million 9 11.5.)	310	786	7.1%
Importo (million 9 V.S.)	780	1,115	7.44

^{9/} The population figure of 1987 to from a IR publication and the 1978 figure to estimated, using the 1980-1987 energy annual growth rate of 2.7%.

(st) mine distribution

- to raise the exembers of living reptily within the

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to some aphyment approaches for a prestor maker of people, to distribute the templific gal business of development applicably gat in generalized with the principles of social furtion, gat to bring dead damper in the costal gal consists structure with stability.

7. Manter and miles

(1)

Policion to realize the Pigs targets will be persued in the framework of a missed commute events, the Pigs totag temperative as regards the public senter and marely indicative for the private cooler.

Noth, the private and public sectors, will be accorded equality of treatment in fields where they carry on productive activities.

To fore investments are made, projects will be evaluated by a single authority to determine to that extent inducement measures will be applied.

Sanctioning procedures for the establishment and operation of industrial enterprises will be improved.

A programme will be drawn up for firms which have benefited through protectionist policies:

- to ensure that they supply goods to the describe market at lower prices;
- to provent menopolistic tendencies;
- to strengthen their international

The assembly industry, using imported parts and compensate, will be reorganised through the adoption of the following manuscus:

- the participation of the assembling enterprises in the establishment of large joint enterprises to produce toport-extentioning and sent-finished as intermediate grade.

or intotractions grade;

- the priority in the descrip production of stai-finished or interestints grade supplied to industries producing transport equipment, agricultural machinery and implements:

transport equipment, agricultural machinery and implements;

- companies for the assembly industry which have to be imported will be standardized in artir to produce types and mobile emitted to the country's conditions.

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(11) Property and American

Induted Survey Button 1862-1884

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traditionte auf elvi engineere	4.4	1.4	6.0	6.7	*.4	∴.€
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Mostrial engineers	0.3	1.	1.0	1.2	, • e	1. 1
Tining engineers	/N•3	50,€	A.#	1, 7	• *	• 4
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cartegration.	• 1	0.3	0.1		. 1	- 4
Prications and technical and	6.8	10.3	14.0	20.0	× .	11.7
Completed to technicians	7.0	1.5	1.1	- 1	10.6	11.7
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Approviduse and forestry:	۱. ٤	5.1	E , E	5.5	-	6.6
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Preparators and applications to	^• 1	0.1	•	ି. ଅ	3.2	ે. ≥
Peterinarians	-	•	^.1	0.1	ੇ.4	0.5
Agricultural technicians and technical						
withore	2.5	2.4	2.3	2.3	2.4	2.4
Porcetty technicians and technical	A 8			1.4	١	1.4
weekspo	0.4	1.4	1.4	1.4	1.4	- •
Animal hydron officers	0.4	1.2	1.4	8.7		1.0
Professions related to chamberry and stareless	0.1	0.1	0.3	0.4	0.5	0.5
Physiciate, gasphysiciate and goolegic		0.1	0.2	0.3	0.4	0.4
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changed technicisms	_	_	0.1	0.1	0.1	0.1
APT 100001	101.0	174.0			421.2	
Blast furness, rolling-mill, forgo	*****		##7 F	33147	4	
and freeday vertices	2.7	1.0	5.0	6.6	A. 1	10.0
Rechinery agrefacture and repair shee	- • •	,,,	7.		• /	
weekers	76.1	11.6	39.8	49.8	60.5	73.5
Stootetool appliance manufacture and		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***		
repair uniters	4.3	5.3	7.0	8,9	11.3	14.0
Magnese and other related vecetions	13.4	25.2	37.7	50.0	62.9	77.2
Tailore, furriors and combiers	2.7	9.6	17.9	26.3	35.9	47.0
Heed, rush and came craftemen	10.0		M.6	45. 0	96.7	73.2
Sociate expend in feed, beverage and				•	·	
totage protesting	11.0	10.3	25.0	32.3	40.0	46.4
Comptguetion regimers	107.0	32.6		73.9		113.5
Stone, marble and olay oraftemen	4.9	13.2	19.0	25.6	32.8	40.8
Micro Latterio	6.6	10.3	14.1	10,1	21.4	M. 7

The Group of Bather Aeronalteral and Bethanks Shimban (176-1973)

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Distribution of Brand for Homosone by Occupation (1968-1972) (in 000)

Young Lam	1968	1969	1,170	1971	1972
Paragonnen, rollere, drawer and mouldere	PS 23	26	26	30	33
Occupations related to the namefacture and repair of nachinery	297	317	339	364	392
Occupations related to the namefacture and repair of electrical equipment	46	52	57	61	67
Weavers and other textile workers	20 9	555	234	248	264
Tailore, furriers and shoomakers	294	309	325	341	360
Compations related to for towards and tobases namifacturing	4, 129	137	145	153	162
Compations in the samefacture of wood, rush and case products	190	204	219	235	252
Compations related to construction	186	209	241	264	296
Cocupations related to the againfacture of stone, mark		5 6	63	71	7 9
Other excitation and mostors	• 68	73	79	84	90
Total	1,494	1,605	1,730	1,851	1,995

Distribution by Profession of Extension Courses and Net Capacity to be Created (1968-1972)

Vocations	1968	1960	1970	1971	1972
Purnacemen, rollers, drawers and moulders	1,000	1,500	2,000	2,500	3,000
Occupations related to the manufacture and repair of machinery		10,000	14,000	17,000	25,000
Occupations related to the manufacture and repair of electrical equipment	'	2,000	2,750	3,400	4,300
Weavers and other textils workers	12,500	14,500	15,000	16,500	18,700
Tailore, furriers and shounders	7,000	8,500	8,900	10,500	12,000
Cocupations related to food, beverage and tobacc manufacturing	7,000	۶,700	9,800	10,700	11,700
Occupations in the manufacture of wood, rush and case products	11,000	13,000	14,500	16,200	18,500
Occupations related to construction	16,000	22,600	30,500	31,000	31,000
Occupations related to the manufacture of stone, marble and coranic products	5,000	6,850	8,650	9 ,60 0	10,400
Other eraftemen and workers	3,500	4,750	5,000	5,550	5,900
Total	72,500	92,500	111,100	122,950	140,400

Public sector establishments will be reorganized in order to improve efficiency. Excess suspower will be transferred or retained to other areas.

On-the-job training programmes will be prepared in public sector establishments.

Graduate studies in the administrative services will be required in high-level management.

* Emigration of qualified mannower will be prevented by making local opportunities increasingly attractive.

Special facilities will be provided to encourage employment in underdeveloped areas.

(iii) Investment and capacity utilisation:

Total Planned Investment in Development (1967-1972) (million \$ U.S.)

	Public sector	Private sector	Total	Ŀ
To menufacturing industry	n.a.	n.a.	2,780	22.5
To all sectors	6,830	5,500	12,330	100.0

Investments in the manufacturing industry, which has been planned to be the economy's leading sector in the long run, have been given priority.

The public sector investment expenditures, their sectoral distribution and their rate of increase have been determined on the basis of the structural changes and interregional balances projected in the Plan.

(iv) Interconnections between growth factors:

1967-.972 (average)

Gross desertic savings 22.6% of CMP

Gross investment 24.3% of CMP

Export-import ratio 0.65 R.S.

1. Data bases and projections:

In order to suide the choice of the various Plan targets and to determine the policy investments to achieve the targets, a methodology consisting of three different but interrelated stages has been used:

- analyses of macro-economic aggregates of the economy within the framework of a multisectoral mathematical model:
- detailed sector studies in the second stage with the extensive use of input-output models based on versions of the 1963 input-output table (updated with respect to changes in technical coefficients due to forthcoming new investment projects);
- industrial project evaluation to complete the consistency check on various values obtained in the previous stages.

1681

In this way upward and downward consistencies were ascertained at every stage throughout the whols exercise.

4. Menned growth of industrial motors."

(1) Planed stouth of newfacturing sectors:

	Output <u>Daite</u>	1967	1972
Sugar industry	Toms (000)	620	860
Togotoble eile	,,,,		
10040177	Tone (000)	380	590
Animal food	Tome (000)	77	151
Cotton textiles	Willion metres	730	1,090
Modlien testiles	Willion metres	235	265
Timber industry of	ibie metree (000)	1,900	2,850
Ereft paper	Toma (000)	•	60
Paper	Tene (000)	122	308
Sods ask	Tome (000)	•	85
Cometie soda	Toma (000)	•	46
Salphurio soid	Tems (000)	50	1,000
Ditrogenous Fortilisers	Tone (000)	160	1,500
Phosphote fortilise	re Tons (000)	250	2,430
Artificial fibres	Tone	1,700	11,500
Synthetic fibres	Tone	2,700	18,500
Polyvinyl chloride	Tons (000)	•	27
Coment	Tens (000)	4,400	9,670
Steel (ingote)	Toms (000)	980	1,650
Mister copper	Toms (000)	29	%
Aluminium	Tome (000)	•	25
Steel structures	Tons (000)	12	26
Treaters	Restore	8,000	15,000
Marvootere	Harbers	50	600
Mostrie actore: 0.2 F 2.10 F	Rustore Rustore	160,400 6,800	246,800 13,300
Stracks and Images	Nunhorm	9,500	15,900
Antonobiles	Musborn	6,000	16,500

[&]quot;/ Values are given at constant prices of 1965 except where indicated otherwise.

Jamestones and Johns Albeit

(million \$ U.S.)

	Investments second Plan series	_	Tally a	lagi Lagragae
Tobasso namufastures	21.0	166.0	190.0	14%
Tovoregue	35.5	#8. 0	65.0	35%
Pool	205.0	350.0	475.0	37%
Testiles and clothing	266.0	435.0	655.0	51 \$
Wood products	49.0	65.0	95.0	40%
Paper	205.0	19.0	40.0	106%
Printing	22.0	36. 0	42.0	65%
Eides and leather	17.0	10.0	13.0	33\$
Rebber	78.0	58.0	90.0	56\$
Plastics	25. 0	17.0	37.0	120%
Chemicals	472.0	111.0	290.0	160%
Petroleus products	186.0	175.0	305.0	75\$
Coremies	4.4	8.0	13.0	13%
Clase	27.0	34.0	55.0	70%
Coment	105.0	42.0	95.0	23%
Coment and bahad alay products	6,6	39.0	55.0	70 %
Iron and steel	466.0	129.0	245.0	90 %
Nem-forrous motals	167.0	47.0	78.0	67%
Notal products	136.0	116.0	205.0	70%
Machinery	172.0	90.0	220.0	148%
Agricultural machinery and implements	17.0	20.0	41.0	111\$
Electrical machinery	50.0	32.0	75.0	130%
Electronics	17.0	13.0	31.0	133%
Read vehicles	39.0	72.0	140.0	9 6 \$
Railway Vehiclos	12.0	20.0	27.0	33\$
Shipbuilding	39.0	7.0	25.0	26.3K
Aircreft and maintenance	1.6	0.6	1.1	70%
Total	2,766.0	2,150.0	3,603.0	675

for the Seminaturies Jahuster (ed. 1955 seizes)

(million \$ U.S.)

	Inc	orte (c	(مگعد		orta (£	agaba)
	1967	1972	Index 1967-100	1967	1972	Index 1967-100
Tobasco and eigerettes	-	•	•	91.7	109.0	118.6
Interegre	0.7	2.0	333.0	0.5	2.0	320.0
Pool	17.2	7.0	36.6	139.1	154.0	110.5
Textiles and clothing	7.3	9.0	121.2	7.5	39.0	514.7
Wood products	0.6	1.0	200.0	1.1	6.0	500.0
Paper	15.5	16.0	100.0	•	•	-
Printing	2.2	2.0	95.0	0.2	0.6	275.0
Hides and leather	2.2	3.0	150.0	6.2	13.0	162.1
Rebber	14.4	18.0	123.0	•	-	•
Plastic	•	-	•	•	•	•
Chemicals	183.2	222.0	121.2	3.9	12.0	314.0
Petroleum	12.1	19.0	160.2	3.1	•	•
Corenies	0.03	-	•	0.2	1.5	642.0
Glass	2.6	1.0	42.9	2.5	4.0	174.6
Cament	2.2	-	-	•	-	•
Coment and behod elay products	-	•	-	•	-	•
Iron and steel	44.4	108.0	242.5	•	•	•
Non-forrous metals	25.5	30.0	117.3	22.2	3.0	240.0
Notal products	22.2	33.0	150.0	0.5	53.0	800. 0
Hestimony	205.8	366.0	177.9	1.6	4.0	600. 0
Agricultural machinery and tools	5.2	7.0	127.6	-	•	•
Electrical anchinery	35.2	55.0	157.7	2.9	9.0	364.6
Rortresses	16.1	34.0	213.7	0.5	11.0	222.0
Real vehicles	42.7	25.0	56.4	•	•	-
hathay vehicles	6.7	6.0	83.3	0.1	1.0	1,200.0
Shiphus liking	8.3	7.0	80.0	•	•	•
Aircond's Stands and	12.2	16.0	127.2	•	•	-
Total	694.6	967.0	144-1	206.0	494.0	146.3

المستشر

Outcome processing enterprises which are functioning under the state energely will be reorganised in the form of state convenie enterprises.

	1967	7833	Average comel income
Deposite domand settentee of			
amminstured tobasse in:	17 6	44.58	3.83%
William S U.S.		213.00	3.80%
_	-17.0		3.00%
Production estimates of			
mentfestured tobecco in:	17 E	44.68	3.83%
000 tone William & U.S.		213.00	3.80%
	1,7.0	2.3.00	3.00
Of manipulated leaf tobacco int	44.0	116 80	
000 tons		116.70	
Million 9 U.S.	92.0	107.00	3.10%
Immotment estimates (1968-1972)	int		
Million \$ U.S.	2	1.1	
Export estimates of manipulated leaf tobases in:			
600 tens	66.8	78.00	3.00%
Million & U.S.	92.0	107.00	3.10%

Intrances :

The state compaly will be lifted and existing enterprises exped by the public sector will be brought together under a state commis enterprise.

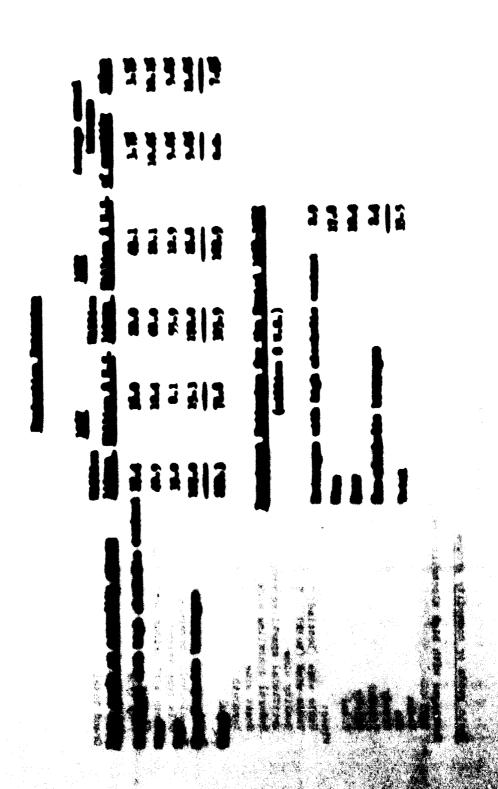
Persign cepted investments, other than these is experiextented projects, will not be allowed.

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15.00	2.90	90.00	9.5	3.5	23.6
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Poststuffe:

Processed food will to chiefly produced by protecte enterprises.

Heatures will be taken to make the continue was of specimens, unless to increase production.

The establishment of large firms to open rotail cales stores will be encouraged.

Emport production will be encouraged.

Descrite Descri Estimates (et 1965 spiese) (million 8 U.S.)

Connedity around	7047	7375	dennes Annas Matters
Hool	193.6	276.9	7.46
Pick	2.4	3.5	7.4
Milk products	183.5	275.2	7.36
Fruit and vagotable processing (caming)	47.5	75.9	9.96
Heselante (shelled)	6.6	7.7	3.15
Piotoshio suto	2.9	3.7	5.25
Relates	4-4	4.4	•
brief flap	3.0	3.1	•
Coroni producto	900.2	1,119.9	4.06
Pear	107.5	33.8	6.\$
Togotoble oil	264.0	200.6	20.36
700	64.3	96.1	7.16
Animal Fred A A A	7.2	14.1	19.45
Total	1,707.9	1,31.1	6.1

(million \$ W.S.)

Germalite groups	1967	1972	Averege amost
Root industry	193.6	278.9	7.66
Plat processing industry	2.7	5.0	13.66
Milk products	183.5	277.7	8.75
Preit and regotable processing (caming)	47.7	81.5	11.25
Encolaute (chelled)	64.5	76.0	3.9%
Piotoskio mrte	7.9	12.8	10.1\$
Pateine	26.5	29.6	2.25
Priod figs	11.1	12.2	1.9%
Coresi producto	920.2	1,119.9	4.0%
Degar	175.7	244.2	6.7%
Vegetable oil	186.1	293.0	9.5%
706	64.8	92.5	7.4%
Industrial food	7.2	14.1	14.5%
Total	1,891.6	2,537.5	6.0%

(million \$ U.S.)

1963-1967 110.4 1968-1972 205.3

Imagi Intimates (million \$ U.S.)

Commeditor arreste	1967	1972	annel income
Cannot fish	0.2	1.5	49.66
Hilk products	•	2.4	•
Preit and vegetable comming	0.3	5.6	77.05
Heselmuts (shelled)	57.9	68.0	3.3%
Pistackie mute	5.0	8.9	12.1%
Reisins	22.1	25.2	2.9%
Dried figs	7.3	8.9	4.9%
Sugar	8.2	9.8	3.6%
Vegetable oil	19.4	13.9	-4.85
Tes	2.2	1.4	-9.45
Others	12.3	3.7	-21.45
Total	134.9	149.3	2.1%

Impert Princips (million \$ U.S.)

Commodific attoute	1967	1972	Average emmal instance
Toe	-	-	•
Vegetable oil	34.4	•	•
Others	2.8	6.7	18.95
Total	17.2	6.7	-16.75

Testileness elothings

Emert-oriented activities will to much encouraged.

In principle, public center investments will be note only for naintenance, recount and emparates of emisting plants. Imaginisms may, however, to make in cases of experimental projects.

tio hound latinates (at 1965 grices)

1.	1	9.6 70.6	*	*	6.X	19.24	# 	8. W
1	2	¥:-	**		5.18	19.2%	• {	4
	Line 5 443	588.5	8.73	×.7	3.5	133.2	390.2	1,261.9
		1,030	38.32	262	35,300	9,000	i	
	THE	Militon metres	000 meteres	~	a 900	Tone	•	4.
	The Sus.	372.6	132.1	X.1	19.0	55.5	7.662	34.
T) ST	副	212	23,584	2,00	27,68	2,500		
		Million meters	000 meters	7.		į	•	4
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Cotton tentiles	Hillian meters	732	335.9	Hillian matres	1,095	541.8	8.X	10.0%
Paris tradition	OCO metane	23,594	132.2	000 metares	28.577	168.1	×. ×	1 X
	7 000	2,176		2 m 000	3,359	61.0	6.0	10.1\$
All Septiments	8 08	27.600		8 000	35,300	3.5	×.9	S.X
Patence	Į	2,550		10	6,700	1.6.7	21.X	21.2%
Others	•		395.6	•		393.5	٠	×.
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innerment Attacker (million 8 U.S.) 1963-1967 173-5

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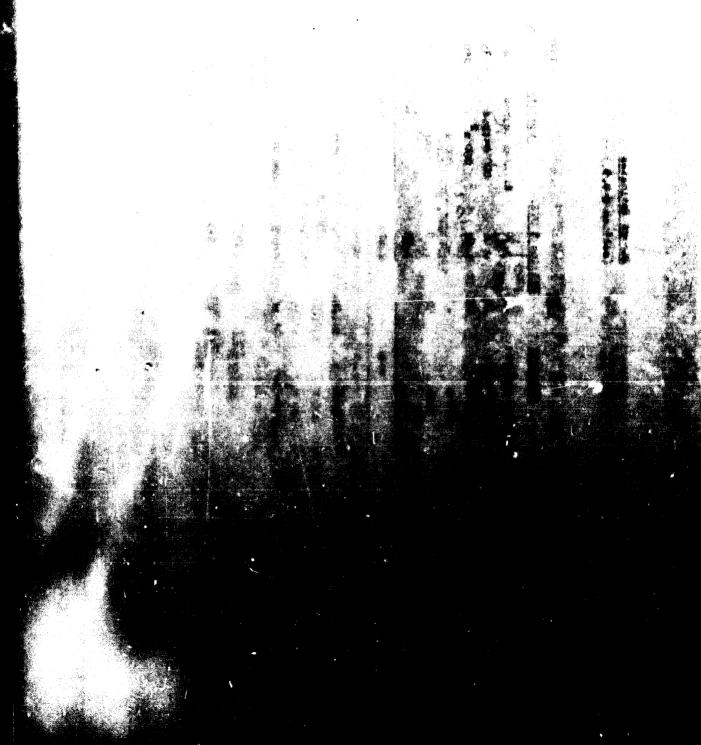
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Orthe testiles	Militen setten	8	3.30	Milles setres		13.3	27.0k	8.8
The San San San		2	9.8	ODD meteres		6.2	8.%	2.3
Bad-soms empels	~. 08	ĸ	3.6	~ • 000	8	6.3	22.6%	23.8¥
Ertificial of it testiles		•	•	8 000		•	•	•
		8	1.10	į	8	15.5	•	•
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Bank!

The long-run objective to the expert of finished and equi-finished paper products.

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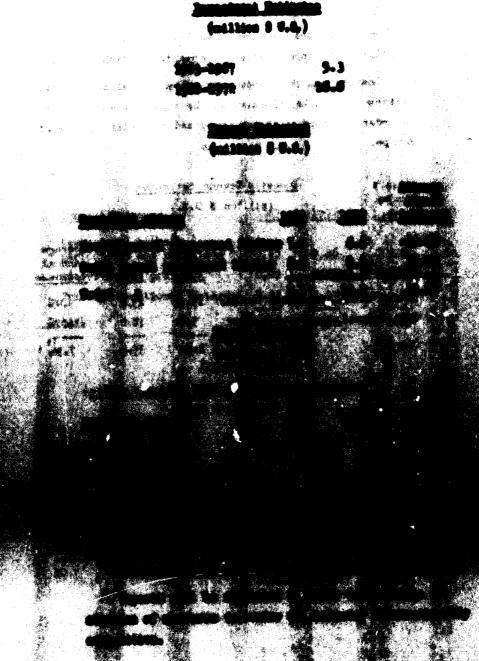
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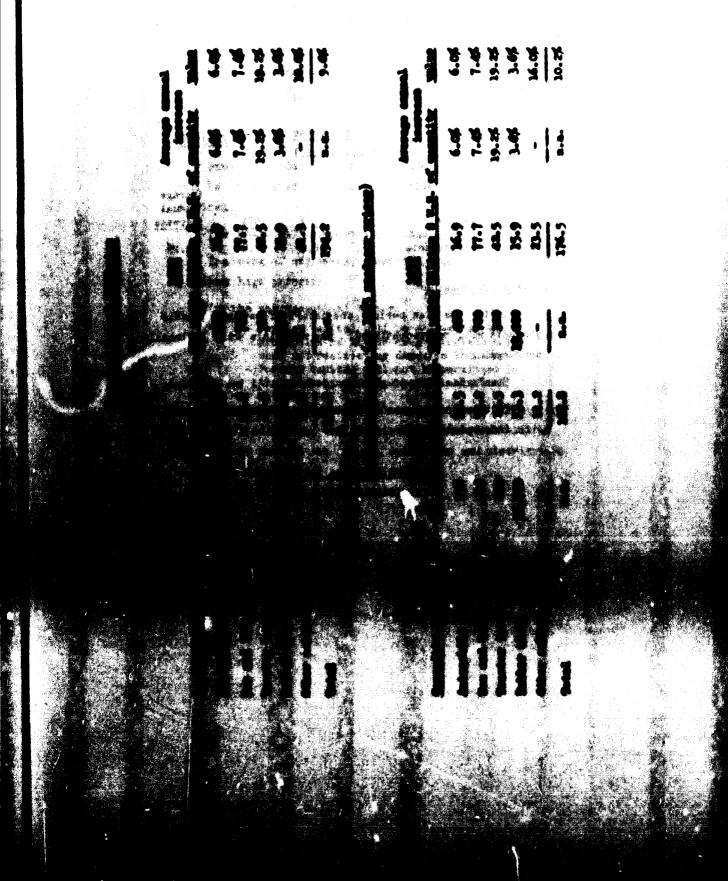
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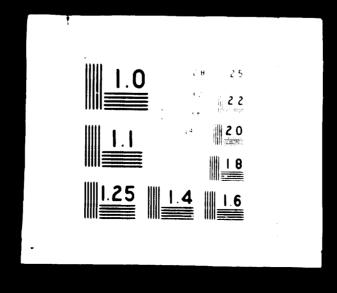






3 OF 5

03280



Investment Estimates

(million \$ U.S.)

1963–1967 **477.**7 1968–1972 777.0

Import Estimates (million \$ U.S.)

Commodity groups	1 967	1972	Average annual
	1701	1715	Increase
Other mibber products	14.4	17.8	4.26

Plastic Processing:

During the Plan period, the import of several plastic products will be discontinued; raw materials will be locally produced.

Standardization of plastic products will be realised.

Training programmes will be organised in co-operation with industrialists.

Domestic Demand Estimates

(million \$ U.S.)

A	_		Average annual
Commodity groups	1967	1972	increase
Plastic goods and products	40.0	88.8	17.3%

Investment Brimatee

(million \$ U.S.)

1963-1967

120.2

1968-1972

260.9

Chemicale:

Small unproductive establishments of the private sector will be integrated into larger establishments to ensure their survival.

The state will support the technological research.

Training of engineers, chemists, technicians, etc. will be given high priority.

In the pharmaceutical sector:

- Foreign capital will be allowed in the production of active drug materials only when not restricting domestic industry.
- Foreign capital will not be permitted in the production of new patent medicines.

The quality of agricultural insecticides and drugs will be controlled; legal and administrative measures will be enforced to prevent the import, production and distribution of impure drugs.

Domestic Demand

(tons)

Commodity groups	1967	1972	Average annual increase
Basic chemical materials:			
3e da	50, 000	85,000	11.27
Caustic soda	35,000	62,000	12.14
Sulphuric acid (100°)	130,000	1,000,000	50 .4 5
Salt	480,000	840,000	ാ. സൗ
Other chemical materials used in			
industry:			
Sodium bicarbonate	8,50€	13,000	6.8
Sodium perborate	1,300	2,800	1.
Sodium phoephatee	5,000	16,000	26.2%
Ammonius nitrate (technical)	5,000	7,300	7.
Carbide	10,000	16,400	10.4
Titanic dioxide	3,500	8,000	18.0%
Zinc oxide	2,800	4,000	7.4
Chlorine	10,600	41,300	31.2%
Phosphoric acid (other than			,,.
fertiliser production)	350	13,500	107.64
Acetic acid	900	2,300	20.61
Ethyl alcohol	25	31*	4.44
Bensene	8, 350	40,000	37.0%
Xylene	1,250	8,400	46.3%
Phytalic anhydride	3,000	7,000	18.44
Phenol	1,000	3,500	28.5%
Caprolactan	-	10,900	-
Acrylonitrile	_	3,900	-
Dimethyl terephthalate	_	5,850	_
Ethylene glycol	_	3,200	_
Dodecyl bensene	2,800	8,700	25.4%
	2,000	0,700	c).4,0
Chemical fertilizers:			00.04
Nitrogen (20% N)	1,064,000	1,500,000	20.2%
Phoephorus (18% P.O.)	600,000	2,430,000	18.0%
Potaseium (50% KO)	36,0 00	60,000	10.8%
Dyes:			_
Textile dyee	3,000	4,000	5.9%
Plastics, plasticisers, eynthetic ru and carbon-black:	bber		
Polyvinyl chloride	13,000	31,000	18.8%
Polyethylene	6,000	14,000	18.4%

^{•/} Willion litree

Domestic Demand (continued) (tons)

Commodity groups	1967	1972	Average annual increase
Polystrone	5,000	11,000	17.1%
Pormaldehyde plastics	3,000	5,500	10.3%
Polyvinyl acetats	3,200	6,500	15.2%
Plasticisers	4,300	10,500	19.5%
Synthetic rubber	9,50 0	18,500	14.2%
Carbon-black	8,500	14,600	11.4%
Artificial and synthetic yearn and fibres:			
Rayon	5,200	8,000	9.0%
Viscon	7.500	13,000	11.6%
Polyamids yarn and fibra	4,300	9,700	17.8%
Polyacrilonitril yarn and fibre	1,650	3,600	16.8%
Polyester yarm and fibre	2,500	5,200	15.8%
Industrial oils:	10.800	16,800	9.3%
Tallow	26,500	20,000	5.8%
Paints and varnishes: Paints Varnishes	13,600	21,900	10.0%
Adtu 7 #1986	2,500	3,500	7.0%
Soups and detergents:	96,000	95 ,000	-0.2%
Detergent preparations	18,000	55,000	25 .0%
Medical drugs	67 [*]	102	8.7%
Agricultural insecticides and drugs	24,600	31,700	5.2%
Other commodities: Vallex Natches	4,900 _{**}	5 ,200	1.2% 3.6%
Chemical mector, total value of domestic demand (at 1965 prices)	426°	854 [•]	15.0%

^{•/} William \$ U.S.

Production Terrets

(tons)

Commodity groups	<u> 1967</u>	1272	Average annual increase
Basic chemical materials:			
Soda	-	o.e. • 000	-
Caustic soda	12,000	46,000	31.0%
Sulphuric acid (100%)	50,000	1,000,000	82.1%
Salt	500,000	740,000	€.2%
Other chemical materials used in i	induetry:		
Sodium phoephates	· <u>-</u>	10,000	-
Sodium bicarbonate	-	13,000	-
Sodium perborate	•	2,800	-
Ammonium nitrate (technical)	5,000	7,300	7.8%
Carbide	10,000	16,400	10.4%
Chlorine	10,600	41,300	31.2%
Borax	3,000	20,000	46.2%
Boric acid	1,000	26,000	01.0%
Phoephoric acid (other than	·	·	
fertiliser production)	-	13,500	-
Acetic acid	900_	2,300_	20.6%
Ethyl alcohol	25	31"	4.4
Bensene	11,000	40,000	29.5%
Xylene	500	800	∞ . ⊙ ,∴
Phytalic anhydride	-	7,000	-
Phono1	150	3,500	87.7%
Caprolactam	-	10,900	-
Dodecyl beneene	-	8,700	-
Chemical fertilizers:			
Nitrogen (20% N)	160,000	1,500,000	56.4%
Phosphorus (18% P, O ₅)	250,000	2,430,000	57.6%
Dyes:			
Textile dyes	8 ⊕ر	2,600	26.5%
Plastice, plasticisere, synthetic			
rubber and carbon-black:			
Polyvinyl chloride	-	27,000	•
Polyethylene	-	12,500	-
Polystyrene	_	10,000	•
Formaldehyde plastics	-	5,500	_
Polyvinyl acetate	3 ,20 0	6,500	15.2%
Plasticieers	4,000	10,500	21.3%
Synthetic rubber		15,000	
Carbon-black	-	14,000	
		-41000	

^{*/} Willion litres

Production Targets (continued) (tons)

Commodity groups	<u>1967</u>	1972	Average annual increase
Artificial and synthetic yarn and			
fibres:	(
Rayon Viscon	650	3,500	40.1%
	1,050	8,000	50.1%
Polyamide yarn and fibre	2,700	9,700	29.1%
Polyacrilonitril yarn and fibre	-	3,600	-
Polyester yarn and fibre	-	5,200	-
Industrial oils:			
Oil cake	10,800	16,800	9.3%
Tallow	7,200	€,500	3.4%
Paints and varnishes:			
Paints	13.400	21.800	10.3%
Varnishes	2,250	3,300	8.0%
Ones and Ashania As	2,2,0	3,300	0.0%
Soaps and detergents:	2/ 200		
Soape	9 6,0 00	95,000	-0.2%
Petergent preparations	18,000	55,000	25.0%
Medical drugs	66	103	9.2%
Agricultural insecticides and drugs	2 2,6 80	30,725	6.2%
Other commodities:			
Vallex	9,200	9,000	-0.4%
Matches	735	875	3.6%
Chemical sector, total value of domestic demand (at 1965 prices)	246*	644*	21.2%

^{%/} William 8 U.S.

Investment Brinstee

(million \$ U.S.)

1963-1967 203 1968-1972 472

Proort Potinates

(million \$ U.S.)

Compdity groups	1967	1972	Average annual increase
Vallex	0.5	0.4	-2.5\$
Liquoric extract	0.7	8.0	1.84
Attar of roses	0.5	0.7	5.7%
Phermaceuticals	0.4	2.2	38.0%
Borez	0.3	2.2	46.2%
Beric acid	0.2	4.3	91.9%
Other materials	1.3	1.6	4.8%
Total	3.9	12.2	25.7%

Invest Driver

(million \$ U.S.)

			Averege
Commedity ground	1967	1972	THEOREM
Total chemical products	183.1	222.0	3.9%

Prizolana producte:

All public establishments concerned with petroleum emploration, transportation, distribution and selling will be assend into one organisation.

Production will be organized so as to require the minimum foreign exchange disbursement.

New installations will be established by the public sector.

The legislation on petroleum will be re-examined, taking into consideration Turkey's national interest.

Refining costs will be reduced through lower prices of imported crude petroleum. An increased tax revenue will explain the maintenance of the same selling price.

The state will provide the necessary quality control.

Petroleum will be imported only when the domestic production is not sufficient to satisfy the local demand.

Domestic Desemble Estimates for Petroleum Products (at 1965 main stock custom duty paid prices)

	<u>-</u>	1967	Ť	1972	Average annual	[en
County or a	000 tons	000 t U.S.	000 tons	000 8 U.S.	of quentity	48.100
Liquid petrolous gas	100	9,244.1	175	16,139.4	13.4%	
Gaso 1 tas	630	105,949.5	1,100	124,490.7	6.0%	
1	ı	1	300	4,995.0	ı	
Mercentino	94	38,039.7	الأداب	45,410.1	3.50	
Jet fiel	*	9,435.0	140	13,986.0	8.2%	
Diesel oil	1,360	114,425.5	2,400	196,470.0	11.7%	
Page 041 No. 4, 5 and 6	1,900	41,125.5	3,700	0.031.0	14.2%	
Solvente	~	288.6	ĸ	499.5	11.5%	
- Francis	97	6,993.0	300	14,985.0	16.2%	
Labricants	85	10,844.7	130	17,760.0	10.4%	
	11	1,343.1	8	2,553.0	12.75	
Total	5,00	337,668.7	8,820	535,319.7	9.75	

Output Retimates for Petroleum Products (at 1965 main stock custom duty paid prices)

	~1	1967	-11	2722	Average annual	141
County to Avenue	000 tone	000 B U.S.	Of tons	000 8 U.S.	of quantity	walue
Liquid potrolom gas	100	9,224.1	175	16,139.4	13.6	
Charalian	830	105,905.1	1,150	148,962.0	7.0%	
Paperite	8	832.5	300	4,995.0	44. 0%	
Estables	9	36,039.7	550	47,630.1	18. S.	
Jet fuel	86	9.435.0	140	13,986.0	% %	
Diemel oil	1,400	115,995.0	2,500	205,350.0	12.1%	
Nel oil B. 4, 5 and 6	2,100	45,399.0	3,800	82,251.0	12.6%	
So I wante	~	288.6	L C v	499.5	11.3%	
August 1:	2 7	6,993.0	8	14,985.0	16.2%	
Others	8	555.0	180	1,998.0	29.2%	
Total	2,22	332,667.0	9,100	534,576.0	8.6	

Investment Estimates (million \$ 5.5.)

6 .9 8	127.6
1963-1961	1968-1972

Exports (million # U.S.)

ammue.l inoresse	ı
2761	1
2	11.3

Petroleum Products' Imports (at 1965 import prices)

	X 1	1961	ä	1972	Average menua.	leu.
Compodity Crouse	000 tone	000 tone 000 \$ U.S.	000 tone	000 tone 000 8 U.S.	of quentity	wilu.
Airplame gasolime	3.0	116.6	5.0	194.2	9.3%	
Jet fuel	10.0	368.5	ı	1	•	
Automobile gasoline	1	ı	1	ı	ì	
Keroeine	ı	ı	•	ı	1	
Diesel oil	ı	1	1	1	1	
Pael oil No. 4, 5 and 6	•	1	•	1	1	
Solvente	1	ı	i	1	1	
Inbricants	85.0	10,844.7	130.0	17,760.0	10.4%	
Pereffin - Vessins	0.4	57.7	0.8	139.6	\$1.61	
Others	7.6	710.4	14.2	1,332.0	13.4%	
Total	106.0	12,117.9	147.0	19,425.0	8.6	

Corenics:

The surplue production will be exported.

Public and private sectors will co-operate to improve raw material sources and to determine the amount of reserves.

Measures will be taken to develop the Kutahya chinaware.

i.

The Part of the last

		1961		2161	Average ammuel	Ħ
Competity groups	000 tee	11110m 8 U.S.	000 toms	Million \$ U.S.	of questity w	9
Porcelata disting and ornesental houseware	3.500		6.10	3.4	12.0%	
Semiteer equipment	5.000		9.6 0	&	14.0%	
Ceremic tiles	10.500	0.30	16.10	0.4	3.0%	
Floor tiles	10,800		15.90	7.4	8.0%	
Immustrial and laboratory meterials	0.025		9.0	0.1	7.1%	
Total	29.800	3.11	47.80	19.8	11.36	

Production Targets

		1361		2261	Average amuel
Commodity groups	000 tone	Million \$ U.S.	000 tone	Million \$ U.S.	of questity
Porcelain dising and ornamental houseware	3.6	2.1	9.9	ò*£	12.9%
Semitery equipment	5.5	5.0	11.8	10.6	16.5%
Ceremic tiles	10.5	0.3	16.4	9.0	9.38
Ploor tiles	10.8	5.1	16.6	7.7	%0.6
Imdustrial and laboratory materials	•	•	0.05	0.2	,
Total	% %	12.4	51.4	23.0	11.04

Investment Estimates (million \$ U.S.)

32.2	4.4
1963-1967	1968-1972

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		1961		2161	ANDRON MENAL	lau.
Constitute and	8	Millon ! U.S.	000 tone	Million 8 U.S.	of guestity	MA
Persies diete al	1	•	0.3	0.2	•	
Sent terry equipment	0.35	0.3	1.9	1.7	#0.8£	
Please tilber	•	•	0.5	0.2	•	
		ı	1	I		
74.4	e.y	6. 3	2.1	2.1	0.0	

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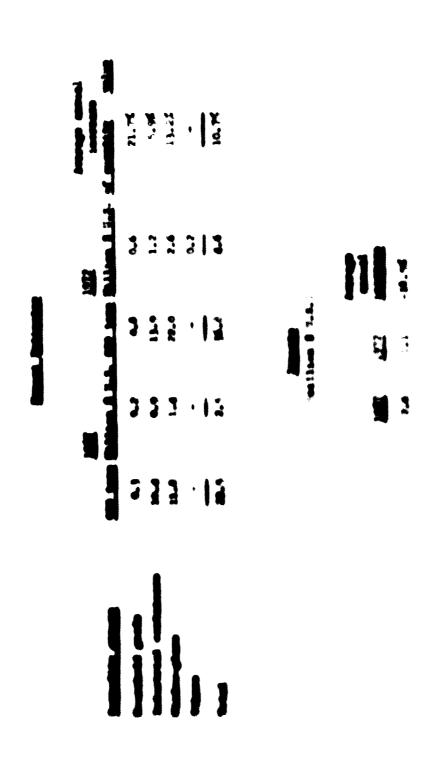
Siere and close arrelate:

Production targets will be realised through domestic private capital.

A market research will be undertaken to further export presention.

		į		6	-	
		Sure 1 de	77	Pulme 6 :s.	S. Special Sales	21
	14.4	7.	7.	23.0	2.2	
Industrial	j	•	3	11.2	K.3	
	~.	e : 11	. 2	٠ ١	¥.°	
	4.4		13.3	2•€	11.3	
San sentential estados	3	1.1	••	1.6	6.7	
State of the state	1.0	6		3	13.65	
I	2	÷ •	12.0	0.0	8.3	
	1.0	٥.	-	1. °	13.0%	
	7.	ć	୍ଦ	1.1	19.04	
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	•	•	2.1	1.1	•
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STATE INTO THE

The expert production will to increased.

A pre-project contains of information and co-ordination will be provided between investing institutions in order to improve productivity.



(etilien (U.S.)

1967 1972 eminal 1972

Markets Annual states

Without locations the quality, the use of commute construction naturals will be case-staged.

Delivering Principles

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187187	196-1972

ins and escal:

An Iron and Steel Board will be established with the co-operation of private and public sectors. The functions will be:

- to provide the necessary co-ordination amongst different establishments;
- to carry out technological research;
- to collect statistical information;
- to promote standardisation and publications.

The measures to reduce production costs of finished and cost-finished goods will be investigated.

Pennetic Demand Bringies

Samuel Liv. or course	1967	1972	Average annual increase
Plaished products' demand	252	476	13.67
Sumi-finished products' demand	61	131	16.6%
Total	313	607	14.2%

Domestic Demand Estimates of Finished Products

(000 tons)

Commodity groups	<u> 1967</u>	1972	Average annual increase
Rode	324.0	580.0	12.0%
Heavy beams	32.0	60.0	13.0%
Light beams	9.0	160.0	12.0%
Railroad equipment	33.0	70.0	16.0%
Wire	62.0	108.0	12.0%
Sheet metal	16.0	27.0	11.01
Hot plate	80.0	148.0	13.0%
Cold plate	52.0	169.0	26.0%
Galvanised plate	28.0	61.0	13.0%
Tin plate	17.0	26.0	10.0%
Strips and bars	17.0	26.0	9.0%
Seamed pipes and equipment	55.0	95.0	12.0%
Rolled steel pipes and equipment	25.0	25.0	-
Machinery and tool steel	59.0	108.0	13.0%
Pig-iron pipes and equipment	39.0	69.0	12.0%
Pig-iron casting parts	115.0	205.0	13.0%
Steel casting parts	14.5	40.0	22.0%
Tempered spherical and similar casting parts	2.0	12.0	44.0%
Others	2.5	4.0	9.0%
Total	1,090.0	2,035.0	13.4%

Domestic Penand Estimates of Semi-finished Products (000 tons)

Cosmodity repupe	1967	<u> 1972</u>	Average annual increase
Total blast furnace products	1,050	2,050	14.0%
All types of pig-iron	160	330	16.0%
Liquid metal for steel mills	890	1,720	14.0%
Billets and steel ingots	1,100	2,180	15.0%
Bloom	520	1,000	14.0%
Sheet bars	25	55	17.1%
Wire rode	66	115	12.0%
Steel strips	78	135	12.0%

Production Targets (million \$ U.S.)

Commodity groups	1967	1972	Average annual increase
Total value of iron and steel products	220	416	14.0%
Intersectoral semi-finished intermediary goods market value	49	83	11.0%
Total value of the sector output	269	499	13.0%

Production Tablets

(000 tons)

Cosmodity groups	<u>1967</u>	1972	Average ammual increase
Rode	324	580	12.0%
Spary beams	25	25	-
Light beams	75	100	6.0%
Railroad equipment	10	10	-
Wire	60	108	13.0%
Shoot metal	13	30	18.0%
Not plate	80	120	11.0%
Cold plate	50	120	19.0%
Calvanised plate	-	40	-
Tin plate	35	36	17.0°
Stripe and bars	-	15	-
Seamed pipes and equipment	60	111	13.0%
Relled steel pipes and equipment	t -	22	-
Machinery and tool steel	40	80	15.0%
Pig-iron pipes and equipment	26	35	5.0%
Pig-iron casting parts	115	205	12.0%
Steel casting parts	14	35	21.0%
Tempered spherical and similar easting parts	2	10	38.0%
Others	2	4	11.0%
Total	933	1,618	12.0%

Production Targets

(000 tons)

Commodity groups	<u>1967</u>	1972	Average annual increase
Total blast furnace products	950	1,450	13.0%
All types of pig-iron	160	170	2.07
Liquid metal for steel mills	790	1,280	10.0%
Billets and steel ingots	980	1,650	11.0%
Bloom	420	600	8.0%
Sheet bars	55	55	-
Wire rods	66	155	12.0%
Steel strips	7 5	150	15.0%

Investment Estimates

(million \$ U.S.)

1963–1967 305 1968–1972 466

Import Estimates

Commodity groups	<u> 1967</u>	<u> 1972</u>	Average annual increase
Total semi-finished products	11.9	47.7	33.0%
Total finished products	32.5	59•9	13.0%
Grand total	44.4	107.7	19.0%

(000 tene)

			Arteriore Control
Commedity_Struct	INI	1972	
Rode	•	•	•
Reary teams	74	15	7.
light been	•	€€	•
Railroad equipme t	21	60	16.00
Hipe	2	-	•
Shoot sotal	•	-	•
Hot plate	•	20	•
Cold plate	2	•	13.0
Calvanised place	2 €	2.2	-4.
Tin plate	7	-	•
Stripe and bare	17	11	-4.2
Sound pipes and equipment	-	•	•
Rolled stool pipes and equipment	25	10	0,14
Machinery and tool steel	19	*	34.1W
Pig-ipon pipes and equipment	11	M	25. 🗯
Pig-iron costing parts	-	-	•
Steel costing parts	-	3	•
Temperal opherical and similar caption parts	*	,	•
Others	•	•	•
Total	161	141	16.25

Total Internal

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Prita: blast furname products		*	
ALI types of sugmers	,	167	
Liquid apici for etast errise	•	•	
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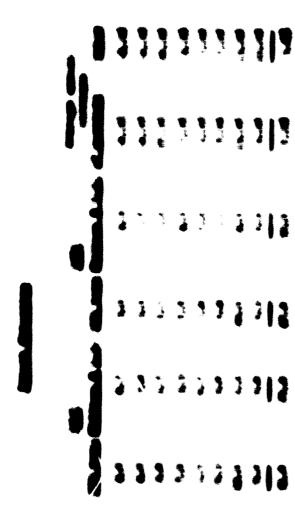
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Body industry mostlinery and equipment	4. °	22.2	37.42
Spatiane teels, band tools, accessorates and equipment	5.4	12.2	17.57
Compressore, ventilatore, puspe and turbance	2.7	24.4	55. 8%
Red and beverage processing authory	4.0	14.4	29.25
his readitioning and instinct	4.3	7.8	12.3%
Torti le manhimory	5.0	23.3	37.0%
Intermediaty goods for production	5.9	26.6	35.4*
Consumer goods	45.5	81.0	12.25
Othero	4. 5	83.2	11.3%
Polal	145.9	300.3	21.75

Investment Entirates

(million \$ U.S.)

1963-1967 33.5 1968-1972 172.0

Exports

(million \$ U.S.)

		yvozete
1967	1972	increase
1.6	9.3	43.2%

Import Estimates

Commedity strouge	1967	1972	Average annual increase
Steam and gasolene squipment	9.2	31.9	28.0%
Cometruction, road, excavation and mining machinery	29.3	66.2	17.7%
Internal combustion engines and other power generating machinery	25.6	30.1	3.2%
Heavy industry machinery and equipment	17.2	53.3	25.5%
Machine tools, hand tools, accessories and equipment	9.2	21.2	18.2%
Compressors, ventilators, pumps and turbines	18.1	39.7	17.0%
Food and beverage processing machinery	10.3	12.6	3.9%
Air conditioning and heating installations and machinery	5.2	7.5	7.6%
Textile machinery	17.0	11.4	-7.7%
Intermediary goods for production	14.8	26.2	12.4%
Consumer goods	3.8	7.9	16.0%
Others	46.1	66.6	7.5%
Total	205.8	374.6	12.2%

Electrical machinery, applicances and equipment:

Priority will be given to the manufacture of industrial engines and machinery for the generation and distribution of power.

Exports will be considerably increased.

An integrated plant covering all electrical measuring equipment will be established.

The production of semi-finished goods will be increased for import-substitution reasons.

Standardization and quality control will be implemented.

Domestic Demand Estimates

			Average annual
Commodity groups	1967	1972	increase
Electrical machinery	14.8	36.7	19.8%
Electrical cables	10.0	20.6	13.3%
Network distribution applicances	6.7	10.5	9.4%
Internal installation equipment	1.8	4.3	18.7%
Durable consumer goods	6.5	10.9	10.60
Batteries and cells	11.4	18.2	9.7%
Electrical meters	1.6	4.4	21.9%
Telecommunication appliances	2.0	6.7	27.5%
Other finished and semi-finished			
products	34.1	79.3	18.3%
Total	88.9	191.6	16.6%

Production Tennets

(million \$ U.S.)

Competitive manage	1069	1072	Average annual
Councilty around	1967	1972	THOLOGO
Electrical machinery	8.4	21.6	20.7%
Electrical cables	11.5	27.1	18.5%
Network distribution appliances	5.2	10.1	14.1%
Internal installation equipment	1.9	4.9	20.9%
Durable consumer goods	7.0	12.4	12.1%
Batteries and cells	11.5	18.9	10.3%
Electrical meters	0.7	4.0	43.0%
Telecommunication appliances	0.4	7.2	74.3%
Others	10.8	43.8	32.2%
Total	57.4	150.0	21.2%

Investment Estimates

(million \$ U.S.)

 1963-1967
 30.2

 1968-1972
 50.0

Export Estimates

(million \$ U.S.)

Commodity groups	<u>1967</u>	<u>1972</u>	Average annual increase
Electrical machinery	0.2	0.5	14.3%
Electrical oables	2.1	6.7	26.0%
Network distribution appliances	_	0.4	-
Internal installation equipment	0.1	0.6	38.0%
Durable consumer goods	0.4	1.6	28.5%
Batteries and cells	0.2	0.6	30.0%
Electrical meters	-	0.1	•
Telecommunication appliances	-	0.6	-
Others	0.2	C.7	35.5%
Semi-finished product exports	0.3	2.2	46.1%
Total	3.5	14.0	30.8%

Import Estimates

Commodity groups	1967	1972	Average annual increase
Electrical machinery	6.7	15.5	18.4%
Electrical cables	0.6	0.2	-16.3%
Network distribution appliance	1.4	0.8	-11.6%
Internal installation equipment Durable consumer goods	0.1	-	-
Batteries and cells	0.1	-	-
Electrical meters	1.0	0.6	-10.9%
Telecommunication appliances	1.5	-	-
Others	13.9	6.7	-13.6%
Total imports of manufactured			•
goods	25.3	23.8	-3.9%
Semi-finished product imports	10.0	31.7	25.9%
Total	35.3	55.5	9.7%

Electronic industry:

Printity will be given to the production of electronic appliances.

Research will be increased and supported by the Soverment.

Investment in the production of circuit slements for electronic applicable will be encoired.

Consetic Comend Intimates (million 8 U.S.)

Commedity or use	1967	1972	Average consult language
HP and VHP wireless appliances	4.6	7.€	15,51
Radio, telephone and telegraph receivers and transmitters	0.4	1.7	34.61
Current transmitters	-	2.3	
Radio transmitters (lose than 16 km)	0.1	0.3	4 0.0°
Broadcasting stations	-	(1.4	•
Various electronic appliances	3.1	6.2	14.54
Verious measuring devices	ે. }	0.8	23.8%
Amplifier:	0.2	0.2	6.5%
Anhers-Istanbul-Ismir R/L	1.1	•	•
Redice (current and bettery operated)	21.0	37.1	12.0%
Record-players	0.6	0.8	5.2%
Tage recorders	0.6	1.9	26.46
Others	1.0	5.0	36.0%
Semi-manufactured items	6.7	23.5	33 .6%
Total	39.7	89.8	17.9%

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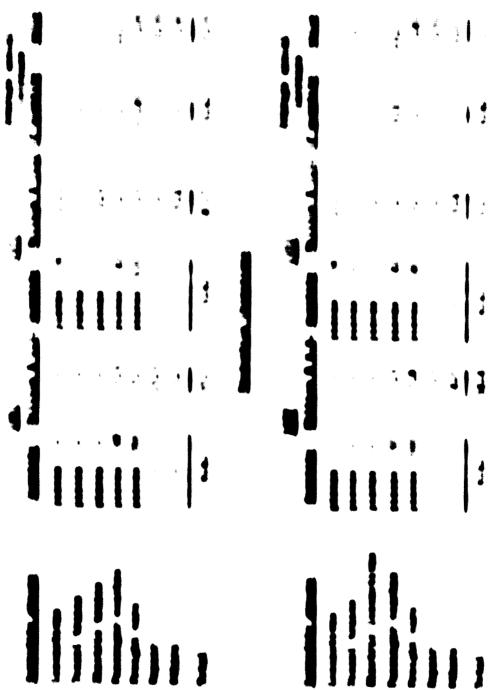
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Shipbailding industry:

Modernization will be carried out.

Dry cargo vessels, oil tankers may be imported to improve the merchant fleet.

Shipbuilding credit funds will be increased; relevant legislation will be reviewed.

Tax incentives will encourage the use of domestically built ships.

Public sector shipyards and installations will become independent of the Turkish Maritime Bank during the first year of the Plan period.

Additional Ship Demand Estimates

Vessels (DWT)	19 6 8–1972 (number)
Tankers with 30,000 DWT and more	3
Tenkers with 10,000-15,000 DWT	9
Tankers with 10,000 DWT	3
Tankers with 6,000-7,500 DWT	5
Tankers with 4,000-6,000 DMT	8
Tankers with 2,000-4,000 DWT	14
Passenger ships (3,000 gross tons)	2
Car ferries (1,000 gross tons)	3
Under 2,000 gross tons	80
Others (tug boats, tin barges, pontoons,	tc.) 126

Shipbuilding Production Estimates

Vessels (DWT)	1968-1972 (number)
Tankers with 10,000-15,000 DWT	9
Tankers with 10,000 DWT	3
Tankers with 6,000-7,500 DWT	5
Tankers with 4,000-6,000 DWT	8
Tankers with 2,000-4,000 DWT	14
Passenger ships (3,000 gross tons)	2
Car ferries (1,000 gross tons)	3
Under 2,000 gross tons	80
Others (tug boats, tin barges, etc.)	1 26

Production Values in the Shipbuilding Sector (million \$ U.S.)

Commodity groups	<u>1967</u>	1972	Average annual increase
Shipbuilding value	13.5	41.6	25.0%
Ship repair value	2.0	5.0	20.1%
Total	15.5	46.6	24.5%

Investment Estimates

1963-1967	9.4
1968-1972	38.8

Ship Imports

			1 <u>967</u>			1972
Ships imported	Quantity		Million \$ J.S.	Quantity		Million \$ U.S.
Oil tankers over 25,000 DWT	pieces	2	8.3	pieces	-	-
Special sea vessels	pieces	_	-	pieces	3	6.7
Total	pieces	2	£.3	piecee	3	6.7

Aircraft construction and repair:

The maintenance and repair of all commercial aircraft will be undertaken at home except in special cases.

The creation of new repair and maintenance establishments will not be encouraged.

Priority will be given to the training of flying and technical personnel.

Systems for repair and maintenance will count on the assistance of foreign experts when necessary.

An excess repair and maintenance capacity may be placed at the disposal of foreign demand.

Domestic Demand Estimates for Aircraft Manufacture and Repair

	1967	<u> 1972</u>	Average annual increase
Maintenance and repair	1.8	3.3	14.4%
Complete aircraft	12.2	15.5	4.9%
Total	14.0	18.8	6.2%

Production Estimates for Aircraft Building and Repair (million \$ U.S.)

	<u> 1967</u>	1972	Average annual increase
Aircraft repair	1.8	3.3	14.4%

Investment Estimates

(million \$ U.S.)

1963-1967 1.9 1968-1972 1.7

Import Estimates for Aircraft Building and Repair

(million \$ U.S.)

	1967	1972	Average annual increase
Complete aircraft	12.2	15.5	4.9%

Small-scale industry and handicraft:

Efforts will be made to adapt existing enterprises to new standards.

Industries with no potential will not be encouraged.

Development Centres will initiate their activities at the beginning of the Plan period.

The "controlled credit" system will be used.

An extensive training and educational methods will accelerate the progress made by the sector.

An organization will be established to ensure that the right technologies are used.

Cortain areas of production will be transferred to the large-scale industries.

Studies will be indertaken on marketing co-operation between large-scale and small-scale industry groups and on quality control.

The co-ordination with large-scale indistrice will be implemented through integrated development or grammes set up by the Ministry of Industry.

Small-scale indistries inder the Ministry of Village Affairs and Indistry will be integrated.

Handloreft:

A control institute will be organised to benefit from technical aid projects of intermational organisations.

Studios will be initiated to categorise hand/craft industries.

Control and other organisation will assist craftomen to obtain raw materials, credits and technical aid.

A system will be set up to provide professional and technical training.

The Ministry of Mucation will conduct research in the old forms, designs and colours of local small-scale industry groducts to improve local patterns.

The Ministry of Commerce will conduct research on democtic and foreign markets.

The Arricultural Bank will provide credits to enterprises having a marketing potential.

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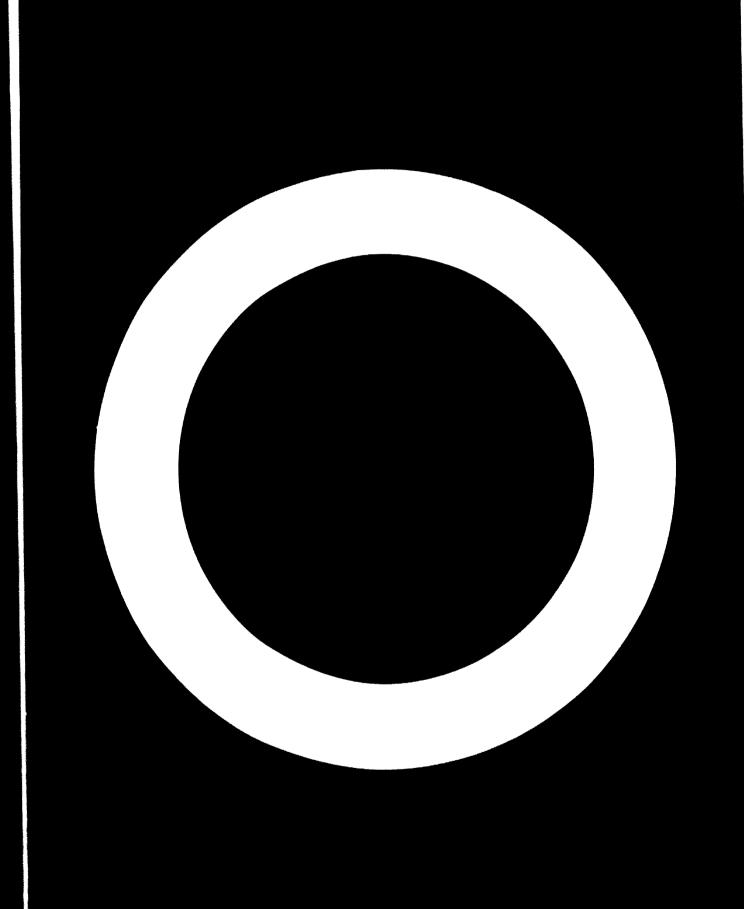
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Current procedures for the licensing of industrial enterprises are outsided and time-consuming.

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SHEMARY OF THE INDUSTRIAL PROPERTY PLAN OF THE REPUBLIC OF KENYAL 1970 - 1974 -

(Monter of the Best African Joseph Market)

- 1. Queral background information
- II. Summery of the industrial development plan

y Marote, 1969, sp. 171.

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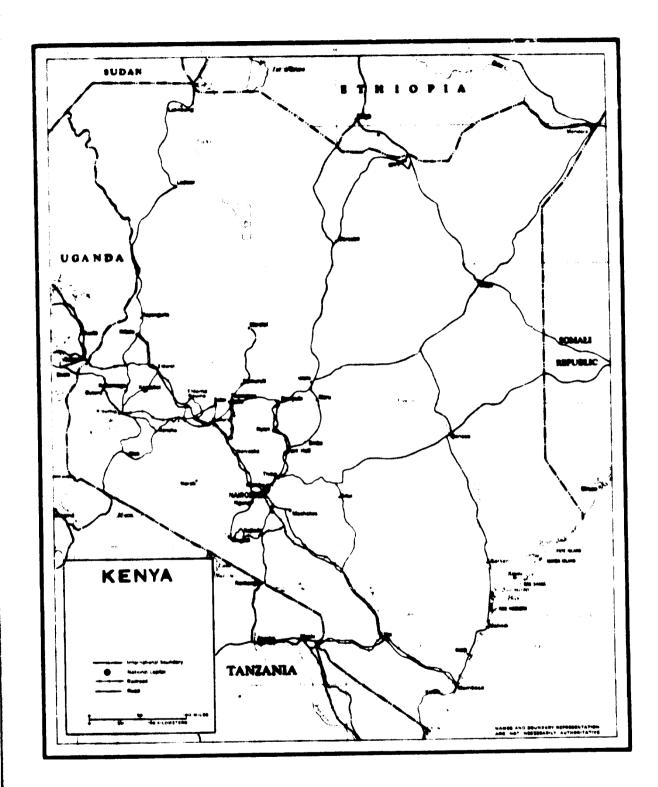
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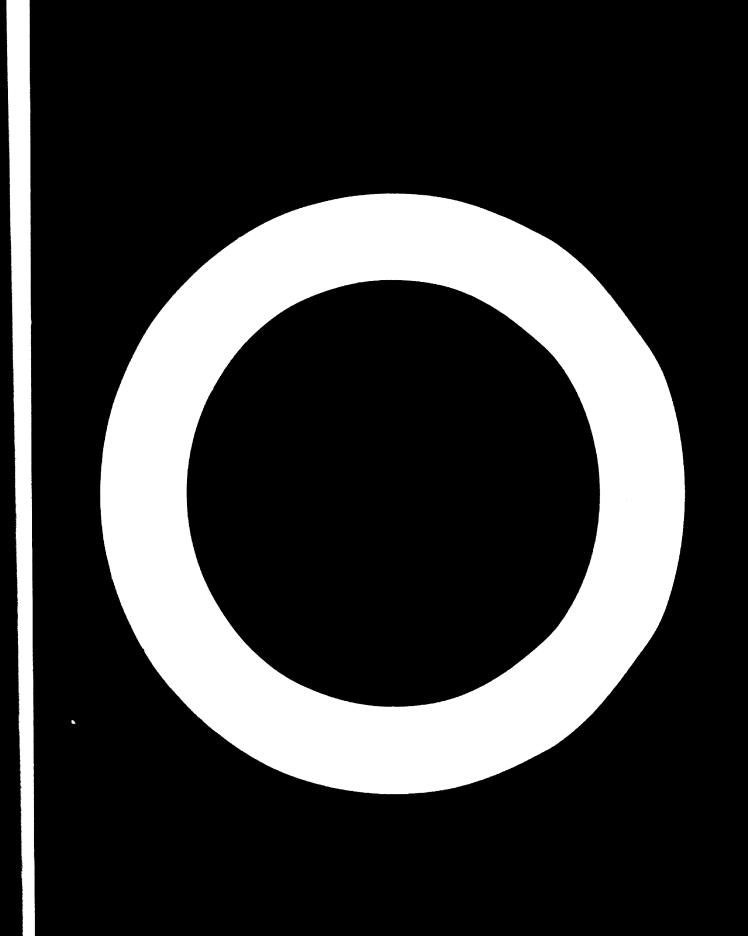
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Industries et Travaux d'Outremer
Le Mois en Afrique
Jeune Afrique
Chronologie Politique Africaine





1. CHEWWAL MACK CHOUND INFORMATION

1. Doic statistics of Keers:

	^,
ime:	Agricultural area FF,000 km Foreste 17,500 km Reago area (including national
	parks of 26,500 km. 11f, 40 km. Theoret and non-grable land 34,60 km.
Rajor cities:	Nairobi: 1962 Population of 266,744 Nombasa: 1962 Population of 174,577 Naturu: 1962 Population of 37,181
other date:	Number of automobiles 58,000 Number of trucks and buses 47,000
	Electricity consumption: (I kwh head r a total of 62% willion kwh of which 224 willion kwh were imported.

Echenen rates:

<u>''nıt</u>	Konyan û eguivalent
US dollar	0.357
Pound sterling	ი∙85€
Swimm franc	ે.063
French franc	0.064
Gorman mark	0.097
Italian lira (100)	0.05 7

2. Posulation:

	1962		<u> 1968</u>
Total population (000)	8,595		10,200
Annual growth rate		3.0%	

- In 1962 the urban population amounted to 670,945 or 7.85 of the total population; 66% of which lived in Nairobi and Nombasa.
- The age distribution is characterised by the fact that more than 50% of the total population is less than 15 years old.
- At the end of the first plan the literacy rate was estimated at 20-25% of those aged 14 years or more.

Other and Burni Bulesment in Langue-scale Industria 1967 (K)

		Uz bee				
	PATER	Jennes	Of part	Total	MEN	<u>Tetal</u>
Posd processing	25	9	40	N	26	100
Bovereges	78	16	6	100	-	100
Tobacco	67	•	11	98	2	100
Textiles	20	19	25	64	36	100
Pootumer and clothing	37	18	14	69	31	100
liood	15	3	32	50	50	100
Furniture	66	16	14	96	4	100
Paper and products	42	51	7	100	-	100
Printing and publishing	81	7	11	99	1	100
Leather and fure	65	•	35	100	-	100
Rubber	91	31	6	100	-	100
Chemicals	46	12	32	92	9	100
Petroleum	-	100	-	100	-	100
Non-metallic sinerals	29	51	8	88	11	100
Netal products	29	47	24	100	-	100
Basic metals	74	26	•	100	•	100
Non-electrical equipmen	nt 72	7	19	98	2	100
Electrical equipment	7 7	3	19	99	1	100
Transport material	54	21	23	98	2	100
Others	73	12	5	90	10	100
Total	44	16	24	84	16	100

The Covernment has selected main urban growth centres, which include: Eldoret, Enbu, Kakamaga, Kisumu, Makuru, Myeri, Thika.

Persons Actively (000)

	21	Total	3	e lare	218	and Jores		20.00
	3	3		3	NA.			3
Agest Ctu 1 Ctu 200	3.263.8	3,679.4		9.955	828.0	0.056	1,923.3	2,172.6
	19.7	7.77		20.3	5.0	2.4	1.4	7-
Pi abine	11.3	14.3		4. 9	4.4	5.5	2.0	7-7
Winine.	1-7	6.1		4.6	6. 0	1.2	0.8	~· 6
Keen facturing	6.88	109.6		82.7	15.6	19.5	4.	7.7
Building	22.4	37.1		7: %	1.7	2.0	o •0	D.7
Electricity and water	5.2	6.1		5.8	0.2	0.3	•	•
Transmort, etc.	33.7	7.95		55.0	1.1	1.4	6.3	0• 3
Trade	107.6	113.3		6.9	33.7	: ★	13.0	10.4
Backing, etc.	6.5	9.2		6.9	•	6.3	•	•
Services	66.2	77.1		58.6	10.6	13.3	4. 1	5.2
Households	31.9	37.6		37.6	ı	ı	ı	•
General Covernment	124.6	129.1		129.1	1	•	•	•
Total	3,786.5	4,300.0	8	1,056.9	898.4	1,035.6	1.999.6	2,207.5
Average annual growth	3	ķ	~	%				

tended greats of experience to proceed understand that (MA-) and

MARIE AL LINE DE LA COMPANSION DE LA COM

	نگ ا	l			
Design of the second			Brid Spin		
e Pricery I eas n't es not es dod snes dod 'slei	 2714	***	s, sa Fat₩	1000 pt 10	
t Sprondagy: as dod angs dod Total	10° 1∰	A	M	10,11	
c. Pringry teacher training orlingue: eided unaided Secondary teacher training	1 ^A .	4,015	;• ì	5,643 16	
cellague: caded Total	Ť	इतांच	#	c,ffi	
d) Technical and vocational secondary schools: aided unaided Total	•	1,198	ii n	4,212	
e) Mehorore University College University College, Mairebi University College, Dar es S Total		215 246 276		1,074	

of including an estimate of unrecorded schools not included in the enrelment table.

^{**/} Konya students only.

The enterests of their africa, industrated in 1964, has three recent them williams, the enterest of their antiques, the rest of the enterest o

The Court of the Court of Court of Manager

(\$ 000)

	127-124	1966-1969 S ettoning	<u> Lannace</u>
Administrative and general	6 36	1,050	63
Pricery education	4,619	4.075	96
Specifically education	1,140	10,591	237
Specially technical and reaction	832	1,709	106
Toucher treating	1,667	3,146	86
Backer education	1,714	3,949	131
Other espenditures	4,101	1,370	•
Total	16,709	30,876	85

1. <u>G</u>

	1964	1968	Average annual incresse
Hanufacturing ODF capita (8 1 10	13	6.0%
Total GDP/capita (\$)	102	118	3.5%
Population (000)	9 ,104	10,200	3.34
Nesufacturing GDP (\$ sillions) •	94	136	5.7%
Total GDP (S millions)	927	1,205	6.35
Namufacturing % of total GEP	10	11	

^{*/} including GDP of repairing enterprises **/ at fixed prices (fastor costs)

GDP Structure (\$ millions)

	1964	1	1968	1
Nonetary sector:				
Agriculture	146	16	161	15
Porestry and fishing	12	1	18	1
Hining and quarrying				
Manufacturing	94	10	1 36	11
Building and construction	19	2	37	3
Electricity and water	14	1	19	2
Transport, etc.	70	7	100	8
Trade	92	10	124	10
Banking, stc.	103	12	135	11
Dwelling and other services		-		_
Boonomic enterprises:	5 50	59	731	61
Domestic services	8	1	10	1
General government	120	13	160	13
-				_
Total monetary sector:	678	73	901	75
Non-monetary sector:				
Agriculture Others	249	27	305	25
Total GDP at current prices	927	100	1,205	100

ever the period 1964 to 1765, the public sector share of the total economy increased from 24% to 2%%; the public sector product grow at a relatively faster rate, %, than the private sector which grow at only 5.4.

The rate of growth of the manifacturing industry was slower than that of the economy as a whole. This was partly die to:

- reetrictions by lanzania and ganda on kenyan apports.
- the failure of several projects to become operational (s.g. pulp and paper at Broderick Pails and fertilisers at Mombasa).

Textiles, rubber products, non-electrical machinery, paper and printing, wood products experienced the highest growth rates.

Quantity Index of the Manufacturing Production 1964-1960

	1964	<u>196</u> 6
Pood	100.0	113.0
Beverages and tobacco	100.0	108.7
Textiles	100.0	205.1
Pootwear and clothing	100.0	146.5
Wood	100.0	142.6
Furniture and fixtures	100.0	125.0
Paper and printing	100.0	138.3
Leather	100.0	116.7
Rubber	100.0	172.0
Chemicals	100.0	118.4
Petroleum products	100.0	126.3
Non-metallic minerals	100.0	134.8
Metal products	100.0	111.8
Electrical machinery	100.0	117.4
Non-electrical machinery	100.0	170.0
Transport equipment	100.0	128.6
Miscellaneous	100.0	86.7
All industries	100.0	124.8

^{*/}Provisional

The agricultural production can be considered as asseptable, although it full short of the projected target. The production of coronic and ten increased eignificantly.

4. Mary-economic Andioniors:

Moster supply:	1968 - 84.	740 milion 560 milion
	Avorego annual im	10.4%
	1966	1948
Demontac oredat:	2.800	3,740
Claim of Government	-230	90
Claims of official entities	80	180
Claims on private sector	2,940	3,460
Prises (consumer index):	1964 - 98;	1968 - 110.
QDP:	1964 - 8	927 million
38. '	1968 - \$1,	205 million
	Average ennuel in	creese 6. 35

Total Value of Emorts and Imports

(\$ millions)

	1964	1964
Total value of exports	217	235
Total value of imports	243	336

of on an adjusted balance of payments basis including re-experts.

Balance of Parments

(\$ millions)

	1264	724
Goods and services	44	-146
Capital: private Central Covernment	-120 -4	110 60

Symmetry Branchiture and Pineses

(8 millions)

him	1962	1968
Not revenue	146	199
Not expenditure	145	161
Development revenue	27	4ċ
Bevelopment expenditure	40	71

*/ Retimetes

The total Central Government budget over the five years 1964/1965 - 1968/1969 amounted to \$1,204 million; the development budget was at \$244 million.

Central Covernment Finance

(# millions)

	1965	1968
Revenue (total) Domestic revenue Prom foreign grants	180 166 14	218 215 3
Rependitures (total) Current Capital	210 175 35	264 194 70
Deficit before foreign grants	-44	-4 9
Deficit after foreign grants	-30	-4 6
Pinancing the deficit Domestic resources (net) Poreign borrowing (net)	30 4	46 17
(US Government and others)	26	29

. Industrial products and technology - main manufacturing industries:

It is intended to consolidate and extend the country's position as a producer of manufactured goods; this can be realized through a more sophisticated pattern of production which will displace imports from industrialized countries.

t. Industry - related resources and sectors:

In 196", the nation's forests contributed \$17 million to the gross domestic product; the harvesting potential was estimated at $500,000~\text{m}^3$ of timber per annum.

Monetary agriculture accounted for 15.7% in 1964 and 14.7% of the total gross domestic product in 1968.

Changes in the Output of Principal Agricultural Producte
Between 1964 and 1968

Products	<u>Unit</u>	1964	1968
Coffee	Netric tons (000)	41.4	39.6
Sisal	Metric tons (000)	67.4	50.3
Tea	Metric tons (000)	20.2	29.8
Wheat	Metric tons (000)	134.7	216.3
Maise	Metric tons (000)	136.2	352.6
Rice (paddy)	Metric tons (000)	13.2	18.7
Seed cotton	Metric tons (000)	11.0	14.3
Sugar cane	Metric tons (000)	600.8	947.2
Pyrethrum (dried flowers)	Metric tons (000)	4.4	9.8
Cattle and calves for slaughter	Heade (000)	157.6	194.9
Sheep, lambs and goats	Heads (000)	114.8	55.1
Pigs	Heads (000)	45.0	53.1
Wool	Metric tons (000)	3.3	4.2
Wholemilk equivalent	Million litres	244.6	227.8

In 1967/1968, the total value of livestock production amounted to approximately \$100 million, comprising about \$45 million of the livestock production for subsistence and about \$56 million of the marketed livestock output. This marketed livestock production represented about 29% of the total gross farm revenue. The output of mining amounted to \$98 million in 1968.

Exports from 1964 to 1968 (\$ millions)

	1964	<u>1968</u>
Agricultural exports:		
Coffee	43.1	35•9
Tea	17.9	29.1
Pyrethrum extract	6.2	7.0
Sisal and sisal tow	16.8	5.0
Cotton (raw)	1.7	1.1
Butter and ghae	3•4	2.2
Pineapple	2.5	1.4
Hides and skine	3.6	4.8
Meat products	7.0	9•5
Wheat and flour	5•9	4.8
Maise	-	13.7
Othere	-	19.0
Total agricultural exports	130.2	133.6
Non-agricultural exports:		
Petroleum products	13.2	30.5
Cement	4.8	6.2
Soda ash	2.0	3.4
Soap and soap preparation	4.2	4.5
Paper, paper goods and manufactures	2.8	5•3
Clothing	5.6	2.8
Footwear	4.2	3.1
Notal manufactures	5•3	5.0
Others	<u> 32.8</u>	41.2
Total non-agricultural exports	74.8	102.0
Total	205.0	235.6

Imports from 1964 to 1968 (\$ millions)

	<u>1964</u>	1968
Total	243.0	336.0

Percentage of Total Imports by Broad Categories 1964 and 1968

	<u> 1964</u>	<u> 1968</u>
Food, drinke and tobacco	13.7	8.1
Basic materials	4.3	4.6
Puels	11.1	10.9
Chemicals	8.1	9.3
Textiles	10.7	9.7
Semi-manufactures	6.2	7.2
Notals	8.6	9.5
Transport equipment	12.9	14.5
Other capital goods	15.3	16.9
Consumer goode	5.0	5.2
Niscellaneous	4.1	4.1
Total	100.0	100.0

7. Overall economic development strategy and policy:

The major objectives of the Kenyan Government are:

- the transformation of a basically agricultural economy into an industrialized economy.
- to increase production.
- to realise higher per capita incomes equitably distributed among the population.
- to bring the overwhelming African majority of the people fully into cash-crop agriculture, industry, trade and government services.
- to achieve a growth in the overall employment.

8. Regional co-operation:

As a member of the East African Economic Common Market, inaugurated in December 1967, Kenya forms together with Tansamia and Uganda a single trade unit.

	Value of exports to Tansania and Uganda (\$ millions)	Total exports (\$ millions)
1964	73.9	205.0
1965	83•7	218.5
1966	81.8	243.0
1967	74.2	221.3
1 96 8	73.7	235.6
	Value of imports from Tansania and Uganda (\$ millions)	Total imports (\$ millions)
1964	32.2	242.8
1965	33.1	272.8
1966	31.4	317.9
1967	37.8	326.3
1968	34•5	336.4

Within the Community, there are four corporations providing co-ordinated services for the three countries:

- East African Railway Corporation responsible for rail, road and inland waterway services;
- East African Harbours Corporation administers harbour services and facilities other than inland waterway ports with Mombasa as the principal port for Kenya and Uganda;
- East African Posts and Tslscommunications Corporation provides scheduled services within Kenya, Tansania and Uganda and between East Africa and several foreign nations;
- Furthermore, there is an East African National Shipping Line Limited (EANSL) with equal participation from the Governments of Kenya, Tanzania, Uganda and Zambia.

The construction of a common pipeline between Kanya and Uganda is under consideration.

9. Evatome for planning and plan implementation:

An Industrial Development Division has been set up within the Ministry of Commerce and Industry:

- to pay greater attention to industrial and commercial planning.
- to improve schaduling of project implementation.
- to improve limison with other sconomic ministries.

This Division includes the new Industrial Survey and Promotion Centre.

10. Problems encountered through the previous plan period:

The main problems encountsred through the First Development Plan were:

- inadequate project preparation.
- scarcity of key personnel.
- insufficient oo-ordination.
- lack of commitment to the Plan.
- the exclusion of Local Authority programmes.
- inadequate organisation of rural development.

The shortage of manpower will continus to be a major problem.

II. SUMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN 1970-1974

1. General goale and objectives:

(i) Planned growth:

<u>1968</u>	<u> 1974</u>	Average annual increase
Manufacturing GDP/oapita (\$) 13.3	18.5	5 .8%
Total GDP/capita (\$) 118.0	156.0	4.5%
Population (000) 10,200	12,400	3.3%
Manufacturing GDP 136.0	230.0	9 . 2%
Total GDP (\$ millions) ** 1,205.0	1,800.0	6.8%
Manufacturing % of the total GDP 11	13	
Concumption (\$ millions) 1,079.0	1,552.0	6.5%
Investment (fixed capital) (\$ millione) 254.0	4 30.0	9.1%
Domestic savings (\$ millions) 235.0	406.0	8.1%
Exports of goods and services (\$ millions) 377.0	574.0	7.5%
Imports of goods and services (\$ millions) 419.0	68 9.0	9 .2%
Employment (000) 4,300	5,150	3.1%

including GDP of repairing enterprisee
at fixed prices (factor costs)

(ii) Other objectives:

- to secure improved income dietribution between sectors and between individuals;
- to raise the number of wage-paid jobe by 35% in 1974;
- to further the Kenyanization of the Perconnel Programme;
- to increase agricultural production by one-third in five years;
- to raise industrial proudction by 70% in 1974 over the 1967 figure;
 - obtain a substantial improvement in the secondary sder road system; the railways will also be considerably improved;
- to raise foreign exchange revenues from tourism from \$55.8 million in 1968 to \$103.6 million in 1974;
- to etrengthen economic time with East African Community partners.

2. Strategy and policy:

(i) General:

Kenyan citizens will gradually play a major role in management and ownership of industry.

Kenya will move more deeply into the industrialisation process rather than continue to concentrate on simple manufactures.

Import-substitution will be furthered, although most capital goods will continue to be imported.

The State will increase its role in industry, through the promotion and financing of new projects.

The State will promote a wider geographical dispersal of industry.

The East African Community as a single market area will be strengthened.

The State will pay greater attention to project evaluation from the whole economy's point of view.

The State will carry out its own feasibility studies for a whole industry or for an inter-industry relationship.

The Government will protect both new and existing industries according to obligations with GATT, the Treaty for East African Co-operation and the Agreement for Association with the EEC.

The Ministry of Commerce and Industry will deal with cases of protection at the national level. At the East African level, consultations will ensure the harmonization of tariff policies and procedures.

Protection will be granted according to:

- the profitability of the enterprise;
- oosts and benefits to the economy.

In certain cases the Government will grant undertakings "Approved Status" under the Foreign Investments Protection Act, 1964.

(ii) Manpower and productivity:

Unskilled labour:

Based on population projections, the working labour force will grow by approximately 850,000 persons or 3.1% per annum over the period 1968-1974. The aim of the plan is to expand the economy at a sufficient rate to provide employment for these additional people and to create job opportunities for those who are now unemployed.

The projected rates of growth of production provide a basis for the projected growth rates of employment.

Job opportunities will be created in the rural areas, not only in agriculture but in every other major economic activity as well. Not all of these job opportunities will be opportunities for wage jobs. The Government proposes to create opportunities for self-employment.

The education programme must be seen in terms of its effect on employment. More than 500,000 pupils leaving primary school must be absorbed by agricultural and other types of rural employment, since urban wage jobs will be insufficient.

138,000 of those leaving secondary school will enter the labour force during the plan period. It is estimated that by 1974 less than one half of them will be able to do so.

The only group of young people who will have little difficulty in finding wage employment will be those possessing technical and vocational skills and those possessing higher education. For this reason, the Government proposes to expand the vocational training at all levels.

Based on a trade testing system, artisans are classified and standards for the training of persons entering into industrial employment in the craft trades are provided. The programmes for apprenticeship and national industrial vocational training will be expanded.

Estimated Amployment 1968-1974

(Manpower Survey, 1967)

	•	Average growth	(Total	no) ownerst		ployment
	•	Total	Faces	5	(00	0)	(000)
		employment	employmen	88 84	1974		77.67
		6.7	6.7	24.4	36.0	80.3	30.0
	7.9	5.0	8.4	14.3	19.0	6.4	8.5
Suring I	6.9	4. 0	4.5	6.1	8.0	4.6	0.9
	9.5	4. 0	3	109.6	139.0	82.7	207.5
beilding and construction	9.7	10.0	10.0	37.1	0.99	7.7	61.0
Whether the and maker	8.2	1.8	1.9	6.1	7.0	5.8	6.5
	9.8	8.2	8.2	56.7	91.0	55.0	o. 98
Transport	9.9	3.2	4.0	113.3	137.0	6.95	72.0
Desidence incorporate atto-	0.6	7.0	7.2	9.5	14.0	8.9	13.5
in the second se	8.8	6.0	6.2	77.1	110.0	98. 9.8.	8 4. 0
Beigent Possepholde	9.9	5.0	2.0	37.6	50.0	37.6	0.05
Careral coversions	8.0	2.0	2.0	129.1	173.0	129.1	173.0
	7.7	;	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	620.6	850.0	500.3	700.0
Total non-agricultural economy	5.2	2.7	4.5	3,679.4	4,300.0	556.6	725.0
Total economy	6.7	;	5:1	4,300.0 5,150.0	5,150.0	1,056.9	1,425.0

The main objectives of the income policy are:

- to promote an overall economic growth;
- to promote increased employment;
- to obtain a fair distribution of the national income; and
- to hold down costs and prices.

The Government will take the responsibility for determining wages and salaries paid throughout the whole public sector.

As far as private sector wages contracts are concerned, they will be subject to review by the Industrial Court and will not become effective until approved by it. Minimum wages are necessary to avoid the exploitation of labour and will be fixed directly by the Government.

Middle and high-level manpower:

.The main characteristics of the high and middle-level manpower are:

- More than 40% of all high and middle-level manpower posts are occupied by non-citizens.
- Kenyanization has proceeded much more rapidly in the public sector than in the private sector; in the public sector, approximately 27% of all posts are occupied by non-citizens; in the private sector; more than 47% are occupied by non-citizens.

The projections of manpower requirements for the plan period 1970-1974 therefore assume that:

- all non-citizens will be replaced by citizens within a period of 15 years from 1967.
- the planned target rates of growth for each industry will be achieved.
- the productivity increases assumed for the plan will be realized.
- the rate of growth of the total high and middlelevel manpower requirements will be equal to the rate of growth in the total employment.
- all employees who retire or die must be replaced.

In order to achieve the above requirements, the following policies will be implemented:

- Overseas scholarships in certain fields of etudy will be required to meet high and middle-level manpower needs.
- Provision for an industrial training levy system whereby the employer's training costs will be more equitably shared by employers.
- Expanded training programmee for technical, vocational and commercial training.
- Greater efficiency in and capacity for administrative and managerial training will be secured.

Separate training schemes are required for industrial techniciane and ekilled workers and for industrial managers and enterprises:

The Kenya Polytechnic, the Kenya Industrial Training Institute (KITI), the Management Training and Advisory Centre, the National Industrial Vocational Training Centre, and the Industrial and Commercial Development Corporation.

The ICDC will also assist in industrial training.

Small industrialiets will benefit from on-the-epot advice from Provincial and Dietrict Trade Officers.

The Government will continue to support industrial research.

(iii) Investment and capacity utilisation:

	Gross	fixed capita (\$ million	l formation
	<u> 1970</u>	<u> 1974</u>	Total 1970-1974
Total (whole economy)	310.0	430.0	1,912.0
Nanufacturing Public sector Private sector	1.4 42.8	4.2 63.0	12.6 267.4
Total Manufacturing	44.2	67.2	280.0

Government Expenditure in Industry (\$ 000)

	10/01-0901	1970-1971	1971-1972	1972-1973	1972-1974	Total
Industrial survey and planning	5 8	8	\$	ድ	50	228
Kenya Industrial Training Institute	*	88	82	83	82	168
Rival industrialisation programmo	ı	184	196	200	210	794
Other industrial loans	482	420	490	99,	630	2,582
I.c.D.c.	1,272	2,072	2,932	2,842	2,912	12,030
Investment in major projects	ZZ	8	18	8	902	3,324
Kenya Industrial Estate a) K.F.W. loans b) Grants to K.I.E.	2,58	87. 47.07	1,610	1,442	1,554	5,754
Small-scale and cottage industries	ı	92,	*	45	7	146
ICDC Investment Co. (loans)	140	140	18	224	140	240
Grants for small industrial loans revolving funds	252	88	90g	336	¾	1,540
D.F.C.K.	82	380	9 80	98	5 80	1,400
Mew and additional investment (including income notes)	%	3	3	9	%	82
Bank consortium loam payments	140	140	140	140	140	700
Total	2,118	3.034	3.976	18.	110	17,202

The Ministry of Commerce and Industry, together with its Industrial Survey and Promotion Centre, will provide information on investment opportunities.

The Government has proposed the introduction of a new legislation for industrial registration.

The rols of the Industrial and Commercial Development Corporation (ICDC) will be:

- to invest in large industrial projects;
- to develop industrial satates;
- to develop rural and other small-scale industries.

This will be mainly achieved by providing financial assistance and management service.

An Industrial Research Centrs will be established during the plan period.

The ICDC Investment Company has been formed to snable Africans to buy shares in industrial concerns requiring local participation. \$840,000 will be allocated during the plan period.

The Development Finance Company of Kenya (DFCK) sither has invested or will invest in 24 projects a sum of \$8.1 million of which 60% is for the sugar production, textile manufacture and hotels and 40% for flour mills, manufacture of metal products, food processing, timber and wood processing, vehicle assembly, engineering and insurance.

The DFCK minimum investment par project is \$56,000 and the maximum \$840,000.

Funds will also be made available through the East African Development Bank which is obliged to allocate $22\frac{1}{2}\%$ of its resources to Kenya.

Other sources of finance include:

- the African Development Bank;
- the International Finance Corporation;
- the World Bank;
- the Commonwealth Development Corporation;
- the German Development Corporation.

KITI will be expanded by providing more training in forging and casting, and motor vehicle repair.

KITI, in collaboration with the Management Training and Advisory Centre, will assist ex-students and small industrialiets in technical and managerial matters. The Government will contribute \$168,000.

The East African Industrial Research Organization will continue its activities supplemented by the Material Testing and Control Laboratory.

The Government will set up a National Scientific and Research
Council which will include also members from important private industries.
The Council will include an industrial research committee which will:

- co-ordinate industrial research projects;
- identify, eelect and recommend projects for implementation.

The ICDC and KITI will give priority to the stimulation of commercial and entrepreneurial activities at the village level.

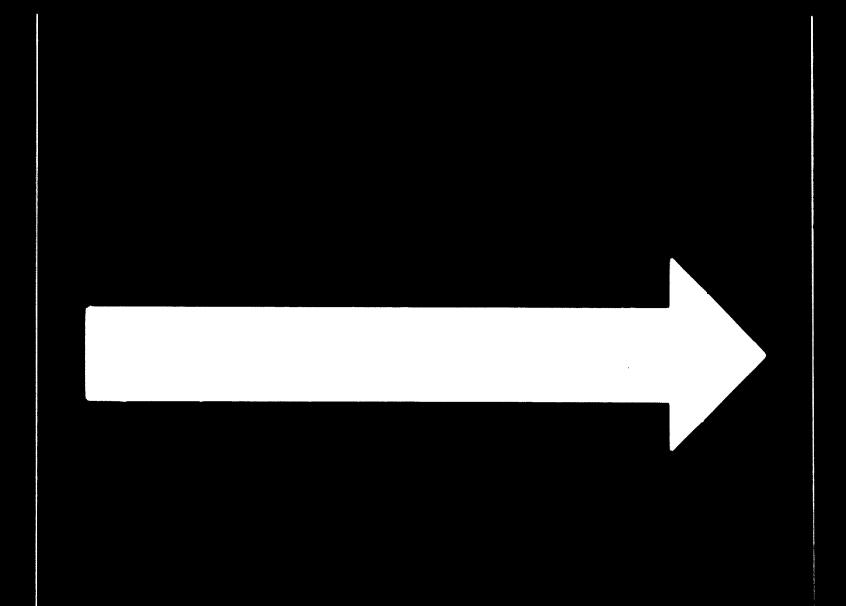
Provincial and District Trade Officers in rural areas will be required to take part in the integrated programme.

A National Research and Scientific Council will be set up to:

- encourage the application of science to local objectives;
- co-ordinate research;
- diffuse information on the results of research.

(iv) Interconnections between growth factors:

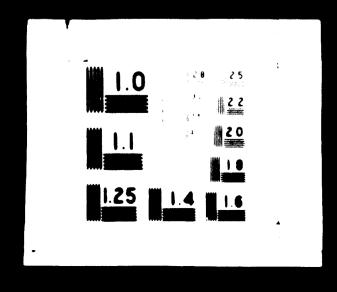
The following table represente estimates of new investment required to achieve the expansion targets in each industry separately using independently determined incremental capital output ratios.



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Industry	Projected increase in the gross product 1967-1974 (8 000)	Incremental capital output ratio	How investment 1967-1973 (\$ 000)
Heat processing	1,320	2.53	3, 360
Dairy products	1,490	2.81	4,200
Canning of fruit and vegetables	1,040	2.96	3,080
Orain-milling	2,330	1.68	3,920
Bekery products	1,560	0.99	1,540
Sugar	2,700	8.79	23,800
Confectionary	130	1.01	140
Miscellansous food	2,110	1.99	4,200
Total food processing	12,680	3.48	44,240
Beverage and tobacco	7,360	1.90	14,000
Cotton ginning	180	1.53	3 80
Knitting-mills	450	1.83	840
Cordage, rope and twine	•	•	•
Spinning and weaving	7,490	3.55	26,600
Total textiles	8,120	3.41	27,720
Footwear	870	0.96	840
Clothing and made up textiles	2,690	0.62	1,670
Total footwear and clothing	3,560	0.71	2,510
Wood products	2,440	1.95	4,760
Furniture and fixtures	2,100	1.33	2,800
Pulp and paper	9,300	3.76	35,000
Publishing and printing	4,870	1.03	5,040
Leather and furs	450	1.23	56 0
Rubber	7,030	2.39	16,800
Chemicals and petroleum	10,850	2.86	31,080
Non-metallic minerals	3,420	3.15	10,780
Netal products	4,420	1.58	7,000
Machinery	5,820	1.35	7,820
Transport squipment	12,790	0.87	11,200
Miscellaneous	1,110	0.63	700
Total manufacturing	96,320	2.30	222,010

3. Data bases and projections:

The 1967 Census of Industrial Production was used as the basis for 95% of the projections made.

Small rural enterprises with less than five workers were considered separately.

The overall manufacturing growth rate of 6.9% was used for planning purposes.

In industries where specific projects were not known, projections were based on past growth rates, growth of domestic and foreign demand and import-substitution.

Projections have taken both technical and sconomic feasibility into account.

The Industrial Survey and Promotion Centre will collect and support data on industry. \$229,600 have been allocated for industrial surveys and planning.

The Statistics Division of the Ministry of Economic Development will sliminate gaps in the amount of data it compiles.

Physical planning at national and regional levels has been divided into three phases:

- compilation of data on population, the location of existing infrastructure, roads, railways, agriculture, natural resources, tourist areas, topography, stc.;
- analysis and projection of dynamic factors such as population growth, immigration, technical and cultural change, urbanisation rate, etc.;
- preparation of plane, including operational maps and supporting data on:
 - urban areas eelected for intensive growth:
 - a network of smaller towns as administrative and eocial centree to serve local needs;
 - the development of communication systems and sxtsneion of power grids.

Research will be undertaken to ettain two main objectives:

- to enable development programmes to be drawn up using improved technologies;
- to investigate specific problems impoding rapid economic development.

Due to shortages of various types, Kenya cannot undertake research on an extensive scale.

The Mational Research and Scientific Council will:

- encourage the application of science and technology to national economic and social objectives;
- advice and assist the Government in the setablishment of research priorities in relation to industry, medicine and agriculture;
- co-ordinate research in all its aspects;

- diffuse the results of research undertaken.

4. Planned growth of industrial sectors:

(1) Planned growth of manufacturing sectors:

Value-added

(\$ 000)

	1967	1974	Growth rate
Pood processing (total)	17.460	30.240	8.0%
Meat processing	2,020	3,340	7.5%
Dairy products	2,980	4,480	6.0%
Canning fruit and vegetable	• 7oc	1,740	14.0%
Orain-milling	5 ,6 80	€ ,00 0	5.0%
Bakery products	2,200	3,760	8.0%
Sugar	1,630	4,340	15.0%
Confectionery	20 0	340	8.0%
Others	2,056	4,160	10.5%
Beverages and tobacco	14,730	22,100	6.0%
Textiles (total)	5.040	13,160	14.5%
Cotton ginning	380	56 0	6.0%
Knitting mills	700	1,140	7.5%
Cordage, rope and twine	1,840	1,840	-
Spinning and weaving	2,120	9,640	24.0%
Pootwear and clothing (total)	5.230	8 . 8 0 0	7.5%
Pootwear	1,430	2,300	7.0%
Clothing and made up textil	** 3,8 0 0	6,500	8 .0%
Wood products	3,300	5,740	8.0%
Purniture	2,540	4,640	9.0%
Pulp and paper	2,240	11,540	26.0%
Publishing and printing	7,380	12,260	7.5%
Leather and furs	5 4 0	1,000	9.0%
Rubber	940	7,980	36.0%
Chemicals and petroleum	15,300	26,160	8 .0 %
Non-metallic minerals	6,850	10,280	6.0%
Metal products	6,700	11,140	7.5%
Machinery	7,770	13,600	8 .5%
Transport equipment	20,980	33,760	7.0%
Others	1,680	2,800	7.5%
Total manufacturing	118,680	215,200	8.9%
Mining and quarrying (total)	5,710	8,930	6.6%
Electricity and water (total)		30,330	8 .0%
Orand total	142,090	254,460	7.8%

^{*/} Excludes small rural industries whose value added in 1974 is projected as \$14.8 million.

Investment 1967-1973

(\$ 000)

	Private	Puelse	Total
Pood processing (total)	29.400	14.84C	44.40
Neat processing	4,200	2,300	3,360 4,200
Deiry products Canning of fruit and vegetables	2,800	260	3,080
Grain-miling	3,640	260	3,920
Bekery products	1,400	140	1,540
Sugar	12,600	11,200	23,800 140
Confectionery Others	140 4,060	140	4,200
Beverages and tobacco	12,600		14,000
	22,120	5,600	27.720
Textiles (total) Cotton ginning	280	21-0-	280
Knitting mills	840	-	840
Cordage, rope and twine Spinning and weaving	21,000	5,600	26,600
Footweap	840	-	840
Clothing and made up textiles	1,600	70	1,670
Wood products	3,360	3,4C)	4,760
Purniture	2, 10	280	2,800
Palip and paper	25,200	9,800	35,000
Publishing and printing	4,060	980	5,040
Leather and furs	300	260	560
Rubber	15,400	1,400	16,800
Chemicals and petroleum	28,280	2,800	31,080
Metal producte	5,600	1,400	7,000
Non-metallic minerals	10,360	420	10,780
Machinery	7,480	340	7,820
Transport equipment	9,800	1,400	11,200
Others	700	-	700
Mining	11,550	930	12,480
Total	191,170	43,320	234,490
Electricity	n.s.	n.a.	49,017
Grand total	n.a.	n.a.	283,507

^{*/} over the period 1970-1974

Industrial Employment Projections

Industry	Numbers employed 1967	Numbers employed 1974	Increase in employment 1967-1974	Employment growth 1967-1974 per cent per year
Pood processing (total) Heat processing	11,980 2,021	15,420 2,150	3.440	3.7 0.8
Dairy products	1,440	1.725	129 288	2.6
Canning of fruit and vegetables	1,715	2,653	944	6.5
Grain-milling	2,273	2 ,7 50	477	2.7
Bakery products Sugar	1,425 1,744	1,795 2,100	370 356	3.4 2.6
Confectionery	131	189	56	5.4
Miscellaneous food	1,231	2,049	818	7.5
Beverages and tobacco	3,534	4,555	1,021	3.7
Textiles (total) Cotton ginning	5.787 126	8 <u>.886</u> 212	3.099 86	6.3
Knitting mills	793	1,587	79 4	10.4
Cordage, rope and twine	2,032	1,699	-333	negative
Spinning and weaving	2,836	5 , 3 88	2 ,5 52	9.6
Footwear and clothing (total)	4.902	6,100	1,198	$\frac{3.1}{7.9}$
Pootwear Clothing and made up textiles	1,175 3,727	2,000 4,100	8 2 5 373	7•9 1•4
Wood products	4,678	6,3 73	1,695	4.5
Furniture and fixtures	1,929	1,982	5 3	0.4
Pulp and paper	1,004	2,210	1,206	11.9
Publishing and printing	3,147	4,000	853	3.5
Leather and furs	474	900	426	9.6
Rubber	382	750	368	10.1
Chemicale and petroleum	3,217	4,058	841	3.4
Non-metallic minerals	2,056	2,600	544	3.4
Metal products	3,140	4,458	1,318	5.1
Machinery	3,946	4,703	757	2.5
Transport equipment	14,487	16,251	1,764	1.6
Miscellaneous	1,039	1,754	715	7.8
Total manufacturing	65,702	85,000	19,298	3.7
Mining	4,800	6,000	1,200	3.1
Electricity	2,500	3,250	750	3.7
Grand total	73,002	94,250	21,248	3.5

Baorte et 1967 Prices

(\$ 000)

	1967	1974
Total processed agricultural products	M.911	414135
Neet products	9,568	11,204
Dairy products	6,070	2,801
Conned fruit and vegetables	3, 269	8,823
Pyrethrum products	8,173	10,224
Wattle products	2,147	1,961
Animal and vegetable oils and fats	1,095	1,961
Others	4,589	6,162
Total other manufactured products	85.331	132,067
Beverages and tobacco	2,681	2,577
Textiles	6,563	8,459
Clothing and footwear	5,947	11,764
Word products	1,826	5,462
Paper and printing	6,249	8,711
Leather products	902	2,941
Rubber products	944	6,162
Chemical products	10,173	24,649
Petroleum products	32,814	40,614
Other mineral products	5,549	8,963
Metal products and machinery	8,294	9,103
Miscellansous products	1,369	2,661
Minerals	4,837	4,902
Grand total	125,079	180,104

[8 000]

	1967	1974	Annual Increase
Crude petroleum	26,600	52,700	10.3%
Processed food products	16,000	17,400	1.4%
Textiles and clothing	35,300	37,500	0.3%
Chemicals	29,400	59,400	10.6%
Name metals	19,300	37,800	10.0%
Metal products	14,600	29,400	10.5%
Transport equipment	58,300	110,600	9.6%
Other manufacturing squipment	50,700	98,300	9.3%
Other manufactured products	76,200	97,500	3.6%
Total	326,400	540,600	7.5%

Pood processing:

Meat: The Kenya Meat Commission has been reorganised; the Government will control the sale of elaughter cattle to butchers other than the KMC. New investment in the industry is estimated at \$3.4 million, mostly in the form of Government loan guarantees.

<u>Dairy products</u>: Increased emphasis will be placed on higher quality. New investment will total \$210,000.

Canning of fruit and vegetables: California Packers
(Del Monte) have acquired Kenya Canners Ltd. and will invest
\$70 million for expansion and modernisation.

Kenya Canners Ltd. will process 4,500 tons of passion fruit by 1974. Production areas will be diversified and the affect of disease minimized. The vegetable dehydrating industry is dependent on quality, sfficiency, and the trend of world market prices. Public investment will total \$250,000.

Grain-milling:

Maise milling will grow factor than wheat milling.

It is hoped to satablish new industries for maiss starch, glycose, maise oil and maise-based breakfast careals.

The baking industry will be rationalised.

Pasta production will be expanded on the basis of demostically grown duran wheat.

Biscuit production will be expanded.

The capacity of the Mwea rics will be trebled by 1970.

Public investment from ICDC loans of \$280,000 will be necessary to encourage small-scals maise millers.

Sugar production:

Technical and transport difficulties facing new factories will be overcome.

There will be an improvement in came yields.

Investment for factory operations: \$23.8 million, of which \$11.2 million are public investment and which has largely already taken place.

Margarine, cashew nuts, fish processing:

Cashew nuts are largely (90%) exported raw to India.

Domestic processing may involve public investment of \$140,000.

heverage and to become

Exports will decline, partly since Uganda and Tansania have built their own such industries.

Textales:

A problem of over-production now exists in the East African Community, since nearly all producers are concentrating on the manufacture of lower qualities.

Kenya exports of certain textiles are hampered by transfer taxes in Uganda and Tansania; the Kenyan mills will thus diversify production.

Some import-substitution will take place, but imports from Uganda and Tansania will increase in direct relation with improved quality production.

Cordage, rope, and twine will not grow due to competition of synthetic materials.

Footwear and clothings

The industry will overcome difficulties due to increased production in Uganda and Tansania.

In clothing, the Government will play a role in training people in cutting and tailoring, as well as in business methods.

Wood products:

With increased co-ordination, output is expected to grow at over 8%.

Plantation units of the Forestry Department have not yet reached full productivity.

Saw-milling offers great scope for Africanization; the Government will provide loans through ICDC.

Improved methods of wood and timber utilisation will be affixed to raise productivity.

The Government has established a Forest Industrial Training Centre with lodging operations at Maji, Masuri and Bahati, and a saw-mill and prefabricated housing at Makuru.

Purniture and fixtures:

A fast growth rate is expected particularly due to low-cost furniture.

There is a good potential market in East Africa.

The Government will carry out training programmes and give financial assistance to Africans.

Investment will total approximately \$2.8 million.

Pulp and paper products:

The success of the factory at Broderick Falls will be dependent on that of the packaging industry.

Printing and publishing:

Expansion of the industry will accompany the increasing rate of literacy.

Leather and leather products:

A number of factore favour future exports of leather rather than of wet salted cow hides.

The ICDC will assist local enterprises with technical assistance and funds in the production of furs and leather.

Chemicals and petroleum products:

Production of scap, paints and detergent will grow at the same rate as domestic demand.

Caustic soda may be made at Broderick Falls paper mill, but there will be a surplus of 3,000 tens of chlorine.

Studies will analyse the possibility of manufacturing glies, fortilisers, industrial alcohol from molasses, sulphuric and hydrochloric acid.

Exports from the oil refinery at Mombasa will have to find new markets once the Zambian refinery becomes operational.

Although capital-intensive, this industry is a major foreign exchange earner.

Non-metallic minerals:

It is expected that domestic demand for cement will continue to grow due to construction and that experts to Zambia, Tansania and Uganda will become negligible due to an increase in the local production.

The glass industry is likely to expend due to demand from Kenya, as well as from the surrounding countries.

Machinery!

Peasibility studies will examine the possibility of producings

- diesel engines
- contrifugal pumps
- oprayors
- bush cutters
- spare parte for cars.

New production of electrical equipment will include:

- motors
- slectric lamp bulbe
- bekelite switches
- electric cockers
- besters
- redictors
- refrigerators
- washing machines.

Only in a few cases is demostic demand sufficiently large. Amport markets will have to be obtained in most cases.

Transport equipment:

The motor repair industry will continue to expend as fast as in the past.

The assembly of larries and buses will continue to expend.

But African demand for tractors has sufficiently rises to render demostic assembly feasible.

The local assembly of cars will be realised only if prices are not increased, quality is not lowered and if Coveragest revenues are not decreased.

(ii) Planned growth of electricity:

(iii) Pleaned growth of mining:

(iv) Priority of sectors:

(w) Infrastructural problems connected with industry:

New hospitals and hospital extensions are planned, as well as training of manpower required for these facilities.

The souts shortage of urban housing, particularly of low income housing, will be reduced.

Vigorous expansion of water installations in the rural areas.

The secondary feeder road system will be substantially improved so that people in the rural areas get their erop to the market in all wheather conditions; the szisting roads will be improved, sepecially the tourist roads and tea and sugar roads.

Airports, railways and ports will be expanded and improved.

5. Planned industrial projects:

Inventory of projects:

Dairy products:

A new plant has recently been opened to preserve milk. \$4.2 million will be required for increased quality and especity.

Gentler Industry!

California Packers plan 870 million investment for factory espansion and modernisation, as well as for planting pineapples. This will provide 70,000 tons of pineapple for canning in 1974.

Kenya Canners Ltd. have a project to process 4,500 tons of rew passion fruit by 1974. Small extraction plants will be established in various parts of the country to diversify production areas and minimise effects of disease.

The pilot plant for vegeta'le dehydrating at Naivasha will be responed. The Government will invest \$14,000.

Production:

Now investment may be made to realise a project at Mumias of the order of \$8.4 million.

Pish processing:

The Government plane to expend the fishing industry on Lakes Victoria, Raringo and Rudolf, as well as to build a harbour and cold storage facilities at Hombasa. An investment of \$4.2 million is required.

PARTICIPE!

The Government, through ICDC loans, plans a joint venture with broweries to produce a "Chibuku" type beer. Public investment will amount to \$1.4 million.

Testiles:

The rayon mill at Thika, among others, will construct a weaving section to substitute for imports of loss-state cloth.

How mills will be built at Eldoret and Hakuru to produce high quality and cotton-polyector popline. They will be fully integrated

from spinning to finishing. Investment will take a large share of the \$26.6 million expected in the spinning and weaving industries.

Wood products:

A third plywood factory will be built at South Mount Elgon. The license area will provide podo as tea chest material and hardwoods for vensurs for export.

It is planned to set up a pencil factory using slates which are at present exported.

Pulp and paper products:

The establishment of the pulp and paper factory at Broderick Falls has been slower than expected; the factory is designed to produce 50,000 tons of kraft and "cultural" paper, mostly for the packaging industry in relation to Kenya's exports. It will contributs a gross product of about \$6.4 million per annum. Its success will be dependent on the development of the packaging industry.

Printing and publishing:

The Government Press is being enlarged at a total cost of \$551,600 during the plan period.

leather and leather products:

The establishment of a kid-leather plant will absorb local output.

Rubber:

The Firestone Rubber Co. will build a tyre plant to supply 80% of domestic demand and with export capacity. \$14 million will be invested. Capacity: from 150,000 to 200,000 tyres per year. Investment for expansion of other plants will total \$2.8 million.

Chemicals and petroleum products:

A nitrogeneous fertiliser project at Mombasa, because domestic demand grew slower than expected. Market limitation has had similar effects on a number of basic industrial chemicals.

Further expansion of the Mombasa refinery will eliminate bottlenecks with relatively little new investment.

A grease plant will be operational in 1970 with a capacity of 2,000 tons per annum.

A lubricating oil plant will start operating in 1972 with a capacity of 60,000 tons per annum. Approximately \$11.2 million will be invested. Employment will hardly increase as the industry is very capital-intensive.

Non-metallic minerals:

A feasibility study has been carried out in connection with the ceramics industry; a project will be implemented through the plan's duration period.

Metal products:

A project is currently being implemented to expand the Mombara factory of nails, rivets and melded mesh. New products will include: re-rolling of imported steel billets to produce reinforcement rods, bars, angles and flats. Investment will total \$21.4 million.

Transport equipment:

At Mombasa, there are possibilities of a new project for ship-building and repairs, due to the new harbour facilities.

Industrial estates:

Factory buildings will be built and rented to African entrepreneurs.

Machinery and equipment will be provided on a 100% loan

basis for 8 to 10 years at 8% interest.

Working capital is to be provided by entrepreneurs themselves.

Technical and management assistance will be given on dayto-day running of business.

The construction of the Nakuru Industrial Estates will be started in 1970 and will end in 1973, comprising 15 units.

The Mombasa Industrial Estates will consist of 25 units, at a cost of \$1.7 sillion. Construction will start in 1971 and end in 1974.

The Kisumu and Eldoret Industrial Estates will start in 1972 and end in 1974.

The Mairobi Industrial Betates will establish a technical service centre which will design tools and dies. It will usek closely with the Industrial Research Cantre.

ICEC Outlant on Industrial Arteses Devalorment

	36-1970		1971-1972	1972-1973	1974-1975	1
Mark (court flas)	8		3	•	•	1,500
1	•		9	9	•	1,420
1	•		62	9	92	1,700
	•		ı	0	9	96
Parent .	•		•	•	8	8
busts to Says Industrial Spiness Lid.	3		8	100	28	4 20
1	%	 &	1,700	1.0	1.088	8.9

Possible ICDC Projects in the Pirst Two Years of the Plan

	Investment (\$ 000)
Eldoret Textile Mill	9,600
Flamingo Textile Industries	10,240
Venus Easterbrook (EA) Ltd.	160
Firestone EA (1969) Ltd.	14,400
Ready-mixed Concrete	260
Kentrew Ltd.	1,400
	36,060

The Central Government will allocate \$2.8-5.6 million to ICDC during the plan period for major industrial projects.

In its capacity as a promotor of small-scale industries, the ICBC will obtain funds from abroad. It will aid mainly:

- sew-milling;
- wood-working:
- shoe-making and leather processing;
- clothing:
- whicle repairs:
- manufacture of elementary construction materials.

The ICDC will be responsible for industrial estates at:

- Mairobi (second phase)
- Hombasa
- Neburu
- Kigumu
- Eldoret.

MALACI

Measures will be taken to create incentives for overcome investors to come and assist in emploiting sineral recourage; these measures will include the guarantee for the continuation of mining titles over a period of several years, assurances at the levels of location, rayalty and expert duties.

Sodium carbonate will further be the leading mineral since world demand and prices for this mineral continue to rise.

A rapid growth is envisaged for limestone, gypsum and probably salt.

For the development of lead and sinc deposits near Ribe tenders were foreseen in 1970.

The mining of niobium, europium and of other rare earth minerals at Murima Hill will be developed.

Exploration activities will continue in west Kenya within the framework of the inited Nations Mineral Resources Survey.

Electricity:

Construction of power stations and of major transmission lines in 1970 to 1974:

- Transmission line between Nairobi and Mombasa;
- Aircraft gas turbine of 12 NW at Kipevu (Nombasa);
- Kipowa atom unit 6 with 30 MM;
- Nairobi gas turbine (industrial);
- Kamburu hydroelectric units 1 and 2 and the transmission line Tane-Hairobi.

The development of the power distribution network will take place in a large number of small projects which cannot be individually predicted in advance.

The major part of the investment programs will be financed by overseas leans; thus, the Kipevu thermal units, the Hembans - Mairebi interconnector and the two gas turbines are largely financed by leng-term credite from the Commonwealth Development Corporation and the Export Credit Guarantee Department. Hormal development and secondary transmission are the financial responsibility of Ma.P. and L.

Critoria for present evaluation and leastion:

Rajor importance will be given to the geographical dispersal of the benefits of industrialisation away from Nairobi and Nantaca.

6. Organizational and institutional changes required for the industrial plan implementation:

Planning units will be set up within the operating ministries, such as those existing within the Ministry of Agriculture and the Ministry of Commerce and Industry.

Economists in the civil service will be transferred to any ministry as deemed necessary.

Provincial Planning Officers will be appointed to all provinces.

In order to strengthen the Central Planning Organisation, three proposals have been put forward:

- National Rural Development Committee;
- National Development Advisory Committee
 to overcome the inadequate communication
 between the Central Government and the
 private sector, particularly in matters
 relating to plan formulation and implementation.
- Project Preparation and Evaluation Unit.
 This will be set up to prepare projects and programmes. It will also develop criteria and techniques for project preparation and evaluation. These procedures will be consistent amongst all operating ministries.

New procedures will be devised to evaluate the rate of plan implementation.

Ministries will be required to indicate problems arising due to manpower chortages.

The preparation of annual financial estimates will be more closely integrated with the financial estimates contained in the plan.

In order to obtain the people's full support of the plan, a publicity campaign will be channelled through radio, television, papphlete, popular versions of the plan and so on.

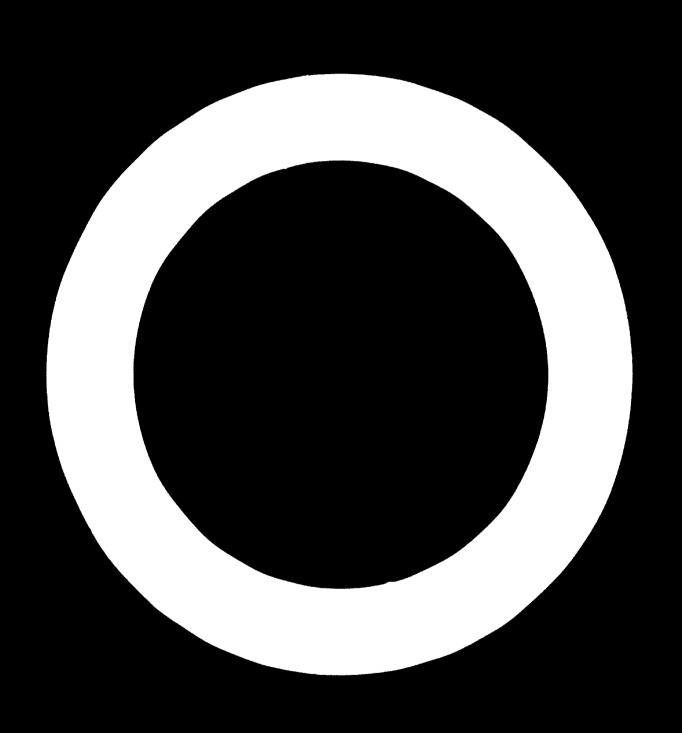
7. Problem areas particular to the industrial sector:

It is the aim of the Second Development Plan to overcome all the problems encountered through the Pirst Plan period. $\frac{a}{a}$ Whether this will be possible or not is difficult to estimate in detail by now.

Certainly, there will be a shortage of manpower in general and of planning economists working for the Kenyan Government.

In mining, it will be difficult to attract overseas skills and capital for the exploitation of mineral resources and to create new demand for some of the mineral resources, since only a small number of local manufacturing industries use mine products as raw materials.

^{9/} See also Part I, Chapter 11



SUMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN OF THE UNITED REPUBLIC OF TANZANIA: 1969 - 1974

- I. General background information
- II. Summary of the industrial development plan

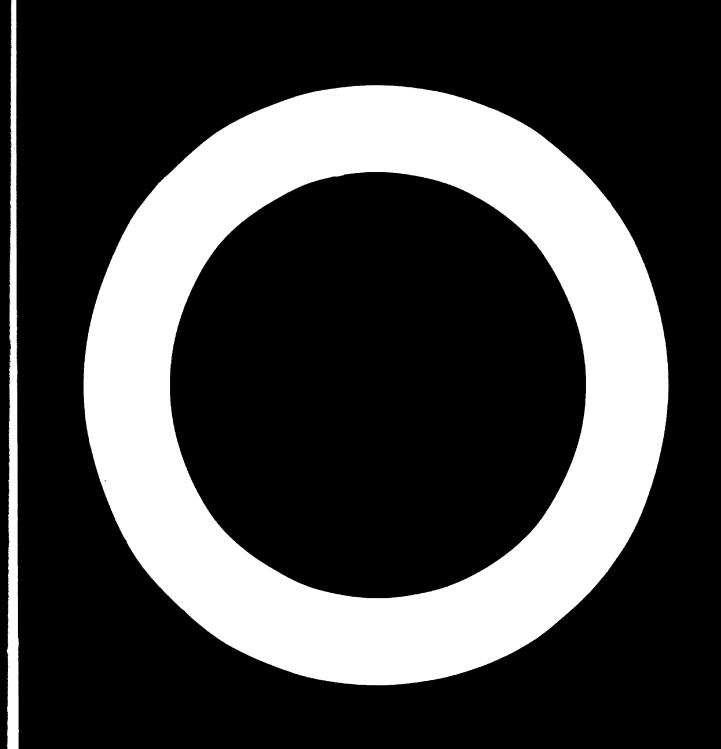
Second Pive-Year Plan for Economic and Social Development, 1 July 1969 - 30 June 1974; Volume I: General Analysis, Volume II: The Programmes, Dar es Salaam, 1969, pp. 342.

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I. GENERAL BACKGROUND INFORMATION

1. Hante statistics of Tensenia

Areas	Agricultural area of which fortile Ferente (tropical high forests mangroves, woodland and grad of which: true forests Undultivable land	
Major estion:	(as per 1 January 1969)	
		Population
	Dar os Salagn	272,500
	Tango	60,900
	Humas	34,900
	Arusha	32,300
Other data:		
		Number
	Noter vehicles in use (1968)	66,501
	Tolophones (1968)	30,952
tornal electric	lity production: (1968)	25 kuh/espita

Behange rates:

Tensenien eh equivalent
7.14
17.14
1.65
1.26
1.93
1.14

2. Population:

Employment by Branch of Activity in 1969

	Number (OCO)	f of total
Agricultural estate	115.4	31.3
Mining and quarrying	5.9	1.6
Manufacturing	40.3	10.9
Construction	52. 8	14.4
Utilities	9.8	2.5
Commerce	18.7	5.2
Transport and communications	32.4	8.8
Services	92.6	25.3
Total	367.9	100.0

Over the last five years, the decline in agricultural estate employment, reflecting a rapid increase in labour productivity and a fall in output of rural industry, has normally tended to off-set the rise in non-agricultural employment. In 1969, however, employment increased in all sectors except in commerce and mining.

Employment in Major Urban Areas 1964-1967

Type of employment		es Salas		anga	Xx	ansa
	1964	1967	1964	1967	1964	1967
Agriculture	1,349	1,529	394	26 8	35 5	612
Manufacturing	9,469	15,231	1,437	1,941	952	897
Construction	5,151	6,577	1,486	1,282	1,767	1,880
Electricity and water	1,051	2,266	412	539	72	264
Commerce	5,825	7,517	1,468	1,473	1,261	1,157
Transport and						
communications	10,243	13,188	2,407	1,578	990	1,080
Services	12, 329	18,868	2,670	2,777	1,564	2,140
Total	45,417	65,171	10,274	9,858	6,981	8,030

Biucation:

Education is a joint undertaking by the Covernment, local authorities and voluntary agencies under the overall direction of the Ministry of Education. Most schools are sither completely or partly financed from public funds.

Literacy rate is estimated at 15-20%; an intensive adult literacy campaign has been launched.

Number of schools:	Primary	3,721
	Secondary	65
	Vocational and technical	20
	Teacher training	21

The University of East Africa has one of its three colleges in Dar on Salasm.

Number of teachers (public schools only): primary 15,271 and secondary 1,306.

3. 112:

	1964	1968	Averege annual increase
Namufacturing GDP/capita (\$)	2.5	4.2	13.85
Total GDP/capita (8)	61.0	66.0	1.9%
Population (000)	11,000	12,500	3.0%
Manufacturing GDP (million \$ U.S.)	27.0	53.0	18.3
Total GEP (million \$ U.S.)	677.0	122.0	4-95
Manufacturing \$ of total COP	4.0	6.4	

In 1969, the gross densetic product rose in real terms by 3.0% (5.7% at current prices), compared with an average annual growth at constant prices of just over 5% for the period 1964-1969. The poor results for 1969 were due to setbacks in agriculture with a decline in some cash crops and also in the subsistence sector. The subsistence sector is estimated to contribute about 30% of the GDP.

Industrial Origin of Green Demostic Product at Paster Cont

	1964		1946	1
	(aillie & U.S.)	of	(million & U.S.)	of letal
Agriculture	393	58.0	411	50.0
Mains and quarrying	17	2.5	15	2.0
Manufacturing	27	4.0	53	6.4
. Construction	21	3.2	31	3.8
Mostricity and water	5	0.7	8	1.0
Compres	84	12.4	162	19.6
Transport	31	4.6	42	5.1
Services	"	14.6	100	12.1
	677	100.0	822	100.0

4. hete-seemenie indicaters:

Many manks	(million \$ U.S.)			
	1967	7050		
Total	161	244		
of which demand desposite		160		
	Average samual increase	(1967-1969): 23.36		
	1964 - 8677 1968 - 8622	million million		
	Average manal increase	n: 4.0K		

Piere

Intell Print	Indiana for	Dr. n.	

M		40.00		
	server rugge	(1969 - 100)	95.0	117.0

halance of Paymente

(million \$ U.S.)

	1966	1968
Belance on ourrent account	-2.7	-15.7
Epiance of trade (c.i.f.) Travel Investment income Other services Private transfers Government transfers	7.4 5.8 -19.3 4.7	-26.2 -3.0 -8.8 19.8 3.3
Polence on capital account	-2.3 25.3	-0.8 34.6
Private investments Government loans Banks and other menetary institutions Not errors and omissions	17.3 6.7 -4.4 5.7	10.7
Net change in recerves (- indicates increase)	-22.6	-18.9

Central Government Revenue and Resenditure (million 8 U.S.)

	1966-1967	1968-1969
Current budget		
Revenue	142.4	176.0
Repend i turo	137.2	166.0
Novelepment budget		
Novembe	41.2	64.5
Arpand i ture	41.2	64.4
Overali balance	5.3	10.0

". Industrial medicine and tentralism - may provide the productions

Industry	mil	199)	1986
"ement	tene	-	151,461
heer browing	(AA. Collane	1.462	5,441
Postulas	Oth eq. rds.	4,285	W, 110
'I perottes	- iliana	1,144	2,117
Fainte	gallens	94, 147	117,14
Flywood	one m. ft.	2,004	10,6%
Sieal tuine	1 me	•	16,414
Sep-eliling	ITT MI. Pt.	1,674	1,021
Wheat flour	tene	M, 179	42,714
verthrum entrest	tene	**	147

The prouble of the manufacturing industry has been rapid in recent years, but it still assemble for a very small properties of the green demonstration product. Freduction of concuser goods for the base market, substituting for imports, accounts for the largest part of the center's output.

". Industry - releted recovered and sections

At present, 24, 500 ha of remifor is pignistians and 2,000 ha of fine hardwood pignistians have been established. Of the indegeness forests, 9,300 ha have been outliveted.

Over the last five years, γ million subjective team extracted from the forests example,

Afformation programmes exerted in 1998. At the end of the bound Piens ported, the constituted from these plantations util here rices from 1 million than foot to 3 million of his foot.

The emounties of industrial uses (escluding fus; used end poles) annually increased by 10° over the past four years and assumes, at present, to A million outse feet.

The present consumption of fuel med to 850 million cubic foot per manus.

The Street

		7			
			8 ",5,	Securi	L.Code
Francipal	1394	190.	19/0	1960-1967-1967	1960-1963-19 G
Sical	65.1	21.6	64.1	-A.4	6.1
Cotton	24.7	24.4	44.7	6.2	.2.C
Coffee	21.0	52.6	14.2	11.4	4. 9
Cashap-auts	6.5	11.6	A. *	17.6	9.6
Sugar	7.8	14.4	12.4	44.4	13."
700	4.1	6.	12.0	6.5	12.1
Pobagoo	1.7	4.7	5.4	16.1	11.4
Pyrotheus	1.	2.6	3.9	13.2	45.1
Wheel	1.8	2	•	13.5	•
Ground-nute	2.2	1.4	.0	-1.4	13.5

Crop tempote for the Piret Flan care set in terms of 1976. Targets for embershule, to tempot and protherm had already been not by 1967. The coffee tempot and virtually emblaved in the 1966 season. The cotten tempot an electric reached as early as 1966, but in two bad seasons, subsequently the output growth and checked. However, there is every lithelihood that the Plan tempot will be not by 1970. The same applies to about. In the case of tem, it is likely that the tempot will be slightly falling short in being not by 1970, but the growth has been considerably head.

The test substantial short-camings could be noticed in the sissi and grand-cute production.

YININE:

Kineral Production and Exports

Year	nineral production	"nta: mineral exports	Stoopte as incontage of production
£164	24.4	24.9	97
A M.	M. 1	44. C	ąμ
IPP Provisiona.	24.0	21."	Øs'

Note: The above figures to not include building minerals as the correction of statistics for these minerals was discontinued five years are. Moreover, as no royalty is paid on the outset of these minerals and rents are collected instead, it is not nossible to estimate current production levels.

If building minerals, for which no estimates are available, are excluded, more than 45° of the aggregate mineral production is exported. There is an almost complete lack of mineral-based industries within Tensania.

The fluctuations in the annual mineral production follow the changes in the annual output of diamonds which account for over 80° of the total mineral production by value. The estimated life of the existing deposits is about 10° years and the annual output during the Second Plan period will be considerably lower than in the First Plan. Gold accounted for more than 10° of the total mineral production until 1965, but with the elecure of two main goldmines, Gerta and Tangold in 1966, the relative share of gold has dropped to about 2°. The only remaining major gold producer is the Buhamba Mine, which is also scheduled to be closed by the middle of 1970. Thereafter, until such time as new deposite can be emploited, the gold production will be negligible.

Other production consists of salt, tin concentrates, game, mice and small quantities of magnesite, tungeten, lime, gypeum, sand-glass, kaolin, coal and mecrochaum, etc. Of these, coal, sand-glass, kaolin, gypeum and lime are largely for internal consumption. Decides meeting the democtic demand, salt is experted in considerable quantities. The remaining minerals are for expert.

Electric powers

Eleting and Potential Hydroelectric Power Schemes

River	Mape of Site	Installed capacity	Hemarks
Pengen 1	Pengeni Palls	17.50	Built 1938
	Hale	21.00	Completed 1964
	Nyumbe ya Mungu	8,00	Under construction. Multi-
	Moshi l	1.16	Tristing
	Mochi ?	13.50	Proposed siternative to Moshi 2A
	Hochi 2A	5.00	Proposed alternative to Mosni 2
	Pulko	2.00	Power, irrigation project
	#simi	9.00	And the Manton 140 Hot
	Garaya	2.00	
Yeni	Pongue	120,00	Multipurpose project. Figures
			are quoted for ultimate maximum
Hangilili, etc.	Con :s	15.00	development of hydropower.
Beere	Russian and Kakono	100,00	Potential
Great Rusha	Kidety and Mters	200.00	Iltimate development
Ruvu	"Lesser Ruya"	7,50	
	K i dunda	5.00	Mass concrete dam proposed
Ruft it	Stregler's Gorre	500.00	95f firm power
	Irings	54.00	
	Toponerones	1.40	Development of R. H.S. proposal Existing
	Hbers	0.35	Barating
Kiwire	Sites in the Mera	0.51	BRIBLING
	Pogica	233.00	Potential
	Total	1,315.00	

Note: The power potential of the Ruvuma and Malagaras: Rivers is not yet known and is, therefore, not included in the above figures.

Growth in Thermy Sales

	t per ennum			
	1958-1962	1963-1967		
Coastal System				
Per ee Seleen	14.1	22.7		
Tange	4.4	C.A		
Horegoro	7.8	61.6		
Total	8.7	15.3		
Hoghi/Arusha Rystem:				
Nechi	10.1	5.9		
Arusha	10.2	10.6		
Total	10,1	8.1		

Total local sales (excluding export to Hembers) in the mainland Tuncania theo the percentage growth over the six-year period 1968-1967 on follows:

Percette	275
Commercial	596
Light industrial and maximum	114
Lighting of the streets	535
Total	785

Of this overall growth of 78% (1968-1967), Dar on Salasm alone accounted for 36%.

employees handstern on bests being the Paret New Your Plan

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mill:

\$ asset feet		3.3	7.6
4	写集へ	ا م ا ع. ا	Ħ
Riser feeler reste	 	77 2	~
4	~22~	## A	8
factor read	. o. o.	24 57 24 57	15.2
4	423	\$3 2	4
Truck res		3 5°	17.0
Treal rest		45 5	9,
		1967-1968 1966-1969 1968-1969	Original plan ortinates Francisco Plan and Mona- tons Plan ensignment

Maia Reserve (million 8 U.S.)

		1962-196			1967-1966	
	Volume	Yelve	Total	Yelvee	Value	Total
Cotton (000 tone)	40.3	25.3	15.1	60.4	37.4	16.5
Coffee (OCO teme)	25.9	18.9	11.3	46,1	35.1	15.5
Simul (000 tems)	216.8	53.8	32.2	117.7	25.2	11.1
Diamondo (000 serat)	618,2	14.6	8.7	835.2	25.1	11.1
Petroloum (million gallons)) -	•	-	117.7	20.7	9.2
Cashow-auto (000 tens)	50.7	6.2	3.6	74.1	13.6	6.0
Cleves (000 tens)	9.5	7.1	4.2	14.3	10.5	4.6
Heat (000 tens)	5.9	5.9	3.5	5.7	6.4	2.8
Oilecede (OOO teme)	63.6	8.8	5.2	38.3	6.2	2.7
Tes (000 tens)	3.9	4.5	2.6	6.3	6,2	2.7
Tobasco (CCC pounds)	891.0	0.3	- 1	0,046.0	5.2	2.3
Others	R. 8.	21.4	12,6	n.s.	34.7	15.4
Total		166.8			226.3	

Although Tensenia suffers from an escensive dependence upon princry commodition as a course of expert carnings, some success has been achieved in diversifying the range of princry commodity experts, i.e. declining trends on the world sized market were partly counterbalanced by a fact expension in the experts of other cannelities.

Main Inverte*
(million 8 U.S.)

•	1968-1963		1967-1968	
	Yalus Yalus	,	Yelne	s of Trans
Consumer	67.2	47.0	76.7	33.0
Interestiate	a. 3	15.0	39.9	17.0
Transport equipment	14.0	10.0	31.8	14.0
Capital goods	30.5	36.0	83.6	35.0
Missellancous	3.6	2.0	4.2	1.0
	144.6	100.0	23.2	100,0

F MARIE OF

The basic cituation has not yet been fundamentally changed. Imports of feedstuffe have been growing very high. With the urbanisation, the demostic market for feed products is expanding very fast.

7. Overall economic development strategy and policy:

Industrial strategy in the First Plan period emphasised the development of these categories of industry:

- the additional processing of primary products (this was implemented to a limited degree in relation to cical, coffee, and cashew-nute);
- the import-eubstitution of certain mass-produced concumer goods whose technical characteristics allow their manufacture at an acceptable level of efficiency and on the basis of the East African market (for example: textilee);
- the manufacture of building materials such as coment which would be in heavy demand as a result of the implementation of the large investment progregrammes.

A. Regional co-operation:

Tansania, together with Kenya and Uganda, is a member of the East African Community (EAC). The three countries have a common development bank, a common external tariff and a single management organisation for the East African airline, the railroade and the ports. Besides the creation of a unified market of 30 million people, the EAC offers great potential expertunities for co-ordinating the economic development and provides industrial possibilities for all three countries which would not exist on a matienal basic.

Another important step in the direction of the improved economic ec-speration with neighbouring countries is the construction work on the Tuncania - Zembia read which is now under way as well as the planned construction of the Tuncanian railway.

Trade with Scare and Bands

1964-1966

(eillien \$ U.S.)

	Imp			Spends			
	Inport 	Esport	Palmer	fre	bport _le_		
1964	266	82	-184	46	20	-19	
1965	101	91	-191	58	27	-85	
1966	266	76	-190	62	17	-45	
1967	226	46	-162	49	15	-M	
1968	261	74	-187	41	17	-84	

9. Bretone for planting and plan implementation:

The key institutions involved in industrial planning are the Hinistry of Commons and Industry, the Ministry of Monamic Affairs and Development Planning (Dovplen) and the Meticaal Development Corporation.

The project planning process consists of four stages:

- the identification of the unjer areas of pescible development and setting-up of preliminary uncorrespond to projections based on the evaluability of carbote, capital requirements, etc. The responsibility for this work is vepted in Bovplan in emoultation with the Hinistry of Industries and the Transvery who report periodically to the Bosomic Committee of the Cobinets
- professibility stage: the primary responsibility for this task lies with the Ministry of Industry which uses the Industrial Studies Centre for this purpose;
- feesibility study: the collection of detailed information about the technological processes to be used, the required equipment and operating costs with the help, if accessary, of extends consultants. The project to also checked for the empirically with plan objectives at this stage:
- final planting decision: undertaken by the Hintetry of Commerce and Industries which is also responsible for follow-up policy measures required to essure implementation.

The central inetitution for implementing industrial projects is the Setional Development Corporation.

10. Problem associatored through the provious also seried:

A shortege of shilled suspense delayed the programme implementation in the first years of the plan.

The target rate of growth of GDP has not been achieved. Instead of an annual rate of 6.7%, only approximately 9% have been achieved. The causes are as follows:

- a short-caming in the erop of husbandry, largely the result of the poor growth of the sized output following the sharp change in market prospects in 1965;
- industrial activity was too low to generate the industrial growth suggested in the plan;
- in the early years of the plan, part of the growth in the emotraction sector was absorbed by riving construction prices:
- the rate of growth of the services sectors was over-estimated.

The rotail co-sporative system did not prove successful and had to be standared to 1966.

II. SIMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN 1969-1974

1. General goals and objectives:

(i) Pleased growth:

	1968-1969	1973-1974	Average enough intrages
Menufacturing GDP/espita(8)	4	7	11,96
Total GDP/capita (8)	49	65	5.95
Population (QQO)	12,900	14,200	2.76
Manufacturing GDP (million \$ U.S.)	54	99	13.0%
Total GDP (million \$ U.S.)	635*	920*	7.76
Henufacturing ₹ of the total GDP	8.5	10.8	
Censumption (democtic)		noe by \$112 here of the	million over plan
Reports (million \$ U.S.) (1969-1970)	27 7	345	4.5%
Invoctment (million \$ U.S.) (1969-1970)	182	267	10. 0 \$
Employment in industry (000)	250	348	6.84

^{*} Betimates at 1968-1969 prices. The figures refer to outpute of the memotary sector only. Betimates for non-memotary GSP (agricultural) are \$228 million (1968-1969) and \$265 million (1973-1974).

(ii) Other objectives:

The general objectives are:

- to opened the benefits of development widely through the seciety:
- to encourage collective and co-sporative efforts and avoid the erection of disparities in wealth and income;
- to ensure the mentions sobilisation of demostic PODOUPOGO!
- to expend productive capacity so as to create the basis of future communic growth and social transformation;
 to extend contents co-operation with other African
- States.

The objectives for the manufacturing sector are:

- to expand the range of manufactured products and to reduce the dependence on foreign sources of supply both for essential consumer goods and for capital goods;
- to increase the manufactured element in exporte;
- to shift trade dependence away from oversees to demostic and African markets;
- to develop managerial and technical expertise in the operation of industry and to introduce modern technology.

2. Strategy and policy:

(i) General:

At the outset of the plan period the programme for industry will proceed along the lines already established during the First Plan. This involves the implementation of an essentially ad hose of projects in the following areas:

- the production of concumer goods using simple technology and aiming at the domestic and East African markets;
- the further processing of primary producte;
- the menufacture of building materials;
- petrolous refining;
- the development of industries supplying inputs to agriculture.

Hore systematic industrial programming and the identification and preparation of projects to meet the more complex requirements of the next stage of industrialization (when the possibilities of import-substitution of concumer goods are exhausted) will be undertaken during the period.

The main responsibility for industrialisation will be vested in the public sector following the principles enunciated in the Arusha Declaration; an Organisational structure of sufficient capacity to carry out this tack will be created.

Industries will be divided into four categories as regards exmership:

- wholly Government controlled: industries considered strategis such so potrolous refining, armament assufacture;
- Government controlled: basic industries in which the Government will assuire the asjerity voting and participating shares in order to apprecise a decisive policy control;
- joint ventures: industries on which a large section of the population depends for its living; Government or its appointed agencies will play on active role;
- open industries: these industries will be freely open to both demostic and fereign investors. The Hinistry of Commerce and Industries will provide guidance to co-operatives, workers' organisations and private investors regarding investment opportunities in this category.

Piscal and/or administrative protection to new industries will be asserted, not as a personent subsidy to inefficient producers, but as a temperary measure to help overcome initial obstacles.

Industrial location policy will be formulated and applied with the aim of achieving balanced regional development.

Small industries employing 10 - 70 workers will be premoted; in the industrial programme, plants of this size account for 60% of the projecte, for 1% of the projected investment, for 10% of the resulting output, and for 19% of the expected employment.

The pessibilities for premoting the development of handierafts and cottage industries will be explored.

(ii) Emegwer and productivity:

Managian:

- to achieve self-sufficiency at all skill levels in the commany by 1980;
- to give every child a basis education (princy) as seen as the financial circumstances of the Government permit it (i.e. by 1989);
- to provide additional or further education (coordary, technical and university) only to the extent justified by the compound requirements of the councily for developments
- to support students by scholarships in post-coordary courses which will produce the specific skills needed for development.

Panie advention (actors):

Overall enrolment in primary schools will increase from 850,000 in 1969/1970 to 1,140,000 in 1973/74.

Purther education (passadoer):

Steamer Passed	Persond (estimated requirement 1969-1974)	Supply Perm 4 Output planned to
Catagory A - secupations	3,849	
Category 3 - secupations	12, 333	
Category C - eccupations	13,109	
Safety margin (including provision for unstage from Porm 5 through to university graduation and from entagery B training schools), 23%	6, 030	
Ports 4 output Government financed schools Private scomdary schools		33,844 _3a97
Total	37,341	37, 341

Jobs are elassified as fellows:

Category A jobs:	require university degree; about
	3,850 jobs will be required during
	the Five Year Plans
Category B jobs:	these are posts which require a one
	to three-year general training after
	completion of the secondary school;
Category C jobs:	
American A least	require a secondary school education;
	about 13,100 jobs will be required
	during the Pive Year Plan.

AND DESCRIPTION AND ASSESSMENT

	Disting	ton increase in statement	terrage and	Potes SERVIL
Proughtenen, genoral	**	44	**	1 16
Diginostring technicisms, general	1.4	415	₽ ® :	766
Regiocories testa i escape,	•	^	*	•
Regimeering technicisms, potrol	_i		_1	
"otal angineering testa in an	271	511	205	*
Toda 101cpo, resporta laboratorias	•	67	•	*
Testmiotems, industrial laboratories	J	Œ	2	•
Petal laboratory testiniones	ic	**	19	ŭ

All engineering technicisms and droughtenes are at present trained at the flar as falces technical College.
Courses in assembler, assegnent, business administration, ato, will be transferred from the flar in falces factorism.
College to a see control mostitution. It is also asserted to artistical the college of function flagging.

Carther should a suppose to tempt

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	Region of God ified					ty restant tental
		tete				
1989-1970	207	140	201	100	165	146
1970-1971	696		416	100	190	730
1971-1977	540	489	140	100	30)	101
1970-1971	641	40%	194	100	140	-
197 1-1974	_			_		هـ .
Total	0,50		1,400			1,100

The following programme will be implemented:

- The Betterni Industrial Training and
- Apprenticeship Scheme; The Setional Designment Service Development;
- The Matismai institute for Productivity;
- Expansion of the Pasteries Inspectorate;
- Rediend Provident Pand.

The Botsenel institute for Productivity will concentrate on A tonic courses during the Second Pient

- Industrial Engineering	Biddle especiment,
	400 participante
- Paperal Resembles	Sugarysony etaff.
	100 participante
- Managament Accounting	Accountants and staff
	employed in accountance work,
	250 participante
- Marketing and Sales	
<u>-</u>	Sales personnel, '50 partipante
- Personnel Management	Personnel Officers and Staff
	emplayed in personnel work,
	ACO porticiponte
- Papervisory Totaling	Supervisors and staff in charge
	of others, 1,200 participents
- Bushara' Miuratian	
- 400000	This assisting will involve all
	combare of workers' committees,
	2,500 participants
- Productive or information	

Plat set see

Research work involving about 40 industries a year. 7010 costion will be involved with the most of the Permanent Labour fribunal.

Programmes for training workers for small-scale and cettage todustries will be expended, and improved facilities at the Cottago Industries Centre in Par es Saless will be expended at an anticated seet of \$160,700.

Specialised centres will be created to cotor for technical and other requirements of small industries.

A testile institute will be set up to sid plants with testinical and anshoting advice.

An Institute of Development Management is proposed to be not up to train assesses for industry.

Home solitors

The Perminent Labour Tribunal has been set up to implement the Metional Mages and Income policy.

Concerning the minimum vague, the Government has agreed that the basis of the minimum vague should be determined by a realistic comparison of the actual living standard and offerts of a former and his family to the offerts and living standard of a rural vague corner. For these employed in urban areas, an allowance will be made for the extra scate of living in term.

In general, the income and price policy should ensure that demay income expands in a sunner that conform to national exempts and sectal objectives.

icheur productivity:

It is assumed that the labour productivity will increase by 36 per annua.

Internal:

Industrial employment is expected to increase by approximately 20,000 during the Plan paried and util exceed 60,000 in 1975.

Special Fig. Special in the State of the Second Fig. Special on the State of the Second Secon

	1968-1969 base year	1973-	1974	
Inductor	Eptimied explayment 1968-1969 (000)	Annual rate of GDP increase is f	Intimated employment 1973–1974 (000)	bloghetinith THOLOGO TH THOLOGO TH THOLOGO TH
Rining querrying	6	-2.5	6	-2.5
Hemufacturing	36	13.0	5	3. 0
Cemetruetian	49	10.0	71	2.0
U\$1111100	10	12.0	18	-
Trade	25	A.O	37	-
Transport communication	32	9.0	42	1. r
Services	92	5.0	117	-
Total	250		348	-

Increase in & in men-agricultural employment: " per annum.

Note: The industrial activities of the Government e.g. construction, etc. are included in the appropriate sectors above.

The 1973 1974 employment projections for the various industrial sectors (except Gevernment and services: have been estimated by the application of estimated annual increases in productivity. These were derived from Tansania's experience in the first four years of the First Five Year Plan.

In 1968'1969, employment is estimated from the Central Statistical Bureau's annual enumeration of employment trends over the past several years including the preliminary estimates for 1968.

In the case of mining, one large project may involve substantial employment towards the end of the plan period although it will not generate the output until the Third Plan. The net employment effects of changes in mining are not yet evident; for the mement is is assumed that employment in mining remains unchanged.

(iii) leverteent and especity utilisation:

The investment target is estimated at \$1,132 million between 1969 and 1974.

It is planned to raise the ratio of capital fernation to a total COP of 276 by the end of the plan period.

Phonine of Planned Jamestons to Barolessons

(exilian \$ U.S.)

Ime	-	Parestatale**/ and so-operative articlisisms to	Private	Bot African Commity	<u>Tetal</u>
1969-1970	74	42	52	14	195
1970-1971	80	53	96	17	206
1971-1972	88	64	60	17	230
1972-1973	91	76	64	17	200
1973-1974	94	6 7	69	17	267
Total	427	355	301	95	1,132
1968/1989- 1973/1974	uth: 104		76	coo eee tolou	reg

^{9/} Not including the contribution to parastatale; including an estimated \$42.7 atilian contribution to local casts of the Taplan rationy.

[.] Including the contribution from the Control Covernment.

The phasing of the Bost African Community estimates represents a rough judgment regarding a likely implementation of plane. However, errors in this total do not greatly effect the other elements in the table as Bost African projects are entity external or calf-finances. 1979-1973 and 1973-1974 may well to higher as a result of enterpoint plane.

Coming January (All Septem) by Popula Clemification (1969-1974) (million 8 0.5.)

es e e e e e e e e e e e e e e e e e e		Personal	Corporation	1 2	70	4
homely productive activities	7.9	196.3	1	178.5		37.5
beared, surupe and issuedigedions	23.9	0.3	•	•		2.2
war, wher and smithery services	XE.3	64.0	•	•		0.6
Ober comenic infrustructure	227.8	9.0	61.2	36.5		32.8
batal tafrastructure	44.2	1.0	•	4 .0		16.3
detailetration and security	K .3	1	•	1		2.2
1	3.6	, es	2.2	30.0	1,087.5	100.0

of including transport.

or maluding \$42.7 million local conte for the Tenden realism.

Control Correspont Persispant Promitings (atlies V.S.)

Eiltee	99,00
Land oursey	43.30
Remdeles	85.30
Cessuscitie	139.10
Muset 1 ch	41.60
Realth	13.00
Rinom	4.50
Macleso	3. 30
Dovples	1.90
Pereign	1.60
Control establishments	4.30
Procident's Office	0.03
Second Vice-President's Office	0.05
Judiosary	0.10
Setional service	3.90
Defence	14.70
Tene	9.90
Total	39,00

Parameter language (1969-1974)

	व्यक्त-स्वर	126-121	197-1972	700al 185-1976	Oceanies of the State of the St
8	6,135	13,175	3.3	63,973	K, K
Bational Development Corporation				109.300	
Bediesel Agriculture and Perl Corporation	8.59	21.560	111,242	15,722	
Tenental Touriet Corporation				28,421	33,600
Betienel Beall-coale Industries	3	ŧ	3	7"	
	9	*	3	2,803	3
The Part Constitution	**	2,3	3.0	12,36	2,800
Lint and Sent Marketing Deart	•	164	1,183	1.600	•
Realmal Agricultural Products Board	Ž	1.8	Q(0	36.4	•
Twomiter Princes Durch	111	111	201	•	•
Ten Anthers to	1,743	1.25	104.6	12,393	1,400
Between Dater Beard	7.00	2	*	1,26	•
Betteral Militae Corporation	¥	•	1,066	1,414	•
Battomal Bonaine Corporation	3,95	3,920	31.150	36.920	15.400
Bettenal Parts	25,	016	2,517	4,150	2,940
Bettenal Computer Corporation	•	2	2	3	3

Purestatale: Investment Pregrums (1969-1974) (centiamed) (coo 8 u.S.)

			1971-1972-	1962	Consessed
	267-65	1276-1971	121-121	161-481	es in brits
A of Persons	13	337	\$	3	•
Battemal Incorporation	ĕ	Ę	Q,	2,100	•
Bational Back of Commerce	3	3	2,520	3.6	•
0	9	11	777	21	•
Battemal Development Conditi Aguary	*	*	Sm	II	22
_	1.00	1.160	11,060	14.080	•
	3	3	2	3	3
3	20.17	21.08	277,433	X80, 85;	61.0
B.P.C.A. (askiws and lamp-term workite)	3,876	3,652	12,660	30,05	9. ie
8.8.1.6 not landing	2	\$	335	¥	•
7948	5.80	74.81C	240,223	340,635	86.00

Mis table includes not makes and lamp-term landing by N.D.C.A. and N.S.I.C. about to not a direct immediate antivity by the paracterial entire. For the everall tangent, the total immediate the table immediate for the paracterial entire has been remaind to \$122,000.

Parastotel lerestment by Resemble Classification 1969-1974 (000 \$ U.S.)

	1949-1974	s of the share
Photos	420	0.1
Bining Benefacturing and processing	107,448	33.5
Agriculture - food	3,500	1.1
Agriculture - compress erepe	38,276	11.9
Agriculture - livesteek and fisheries	1,260	0.4
•	32,568	10.2
Agricultural and allied research	268	0.1
_	47	-
Surveyo and investigations	63,973	20.0
Bestracity	8,960	2.8
Horage	46,720	15.2
Housing	14.840	4.6
Others		
Total	3 20, 300	100.0

Private Serier Investment

(million \$ U.S.)

Reseing	84.0
Other building	30.5
Transport	105.0
Comptruction equipment	35.0
Other machinery	38.5
Potel	301.0

The realisation of the investment targets will require:

- the vigorous mobilisation of investment requirements - we regrees mealisation or investment requirements
 through the Government budget and a tax policy that
 ensures that revenues grew factor than memotary incomes;
 - restraints on the growth of non-development expenditures;
 - an increase in channelling savings to the public and
 paraeletal sector through various public financial
 institutions.
- testitutions.

4. Pleased growth of industrial meeters:

(i) Planned growth of menufacturing meetors:

It is expected that the value added of all industrial activities will grow by 13% annually during the Second Plan. In particular:

- the textile industry is assumed to be doubled;

- wood manufacture and non-metallic mineral production will grow, primarily due to construction activities;

- rubber production will expand due to the establishment

of a tyre factory;

- chemicals will be doubled as a result of the implementation of the proposed fertiliser production programs;

- the food and beverage branch will grow at a considerably

high rate.

In detail, the sectoral programmes for manufacturing industries are:

Pool, beverages and tobages: This branch is already the most developed part of the Tansanian manufacturing sector. The basis for its growth lies both in the ambitious programme of agricultural expansion iscorporated in the plan and in the rapidly growing urban market. Project possibilities in this branch are thus generated by three factors:

- fast growing demand for certain beverages and foodstuffs;

- import substitution possibilities, due to existing dependence on imports for some foodstuffs, notably dairy products;

- export possibilities for certain processed foodstuffs, such as cannot meet.

Over one quarter of the industrial projects falls in this branch. Heavy of the projects in this branch are of a small scale in a number of cases involving the development of existing activities.

Projects aimed at meeting local demands are proposed in grain milling, sugar refining, bakery products, comfectionary, brewing, tobacco processing, animal and poultry slaughter and packing, fish processing, animal food concentrates and dairying.

Projects emphasising the export market are proposed in meat canning and cashew processing.

Oil milling and fruit and vegetable preserves will be developed both for the domestic and export market.

The development of fish processing, fruit and vegetable preservee, poultry packing and dairying are heavily dependent on a new break-through being achieved in agriculture and fishing. Likewise, expansion in meat canning is contingent on the success of policies for generating a faster growth in the availability of animals for slaughter.

In the case of beer brewing and grain milling, the basic limitation on the expansion will be the rate of growth of the domestic market.

Sugar manufacture will grow due to two expensions and one new project. It is a straightforward effort to satisfy the growing domestic market.

Over the longer term, the growth of the cashew processing branch will probably be of the order of 7-10% per assum depending on the agricultural performance.

of the plan, when work on the expansion of the oil refinery because necessary, the capacity for the production of asphalt will also be created.

Apart from the oil refinery, the existing chemical industry produces on a small and medium—scale, concentrating on simple products. Basic chemicals production is characterised in many lines by the heavy use of capital and the existence of economies of scale. Over the longer term, systematic long-term planning will be required to co-ordinate the growth of interrelated subsectors and to phase growth appropriately to avoid highly expensive over—capacity at some stage.

The output of chemical products, other than oil refining, will more than double. The growth of oil refinery products will be insignificant during the plan as the growth in domestic demand will be compensated for by a decline in exports.

Non-metallic mineral products:

The coment industry will be expanded to meet the demand resulting from the growth planned in the construction activity. There are also a number of projects to increase the range of building materials produced demestically; there is still room for import-substitution in this sector. During the Second Plan output is expected to double.

Basic metal industries:

An important project in the plan, therefore, consists of investigating the possibilities of creating an iron and steel industry. There are also some possibilities for medium-scale metal-working projects using imported materials, including the possibility of a small steel relling mill.

Pabricated metal products, machinery and equipment:

During the plan, the farm implements factory built in the First Plan will come into full production. There are also a large number of small and medium-scale possibilities in fabricating simple metal products for the building trade, assembly and parts manufacture of simple standard

machinery, of mechanical and electrical household appliances and of transport equipment. Essentially during the coming plan this range of industries will be at the pilot stage during which know-how can be acquired.

The assembly of electric appliances, materials for electricity distribution, production of electric motors, etc., is envisaged. As this branch contains a number of possibilities which are quite new and many which can operate on a small and medium scale, there is a large number of project possibilities, but relatively few are in an advanced stage of preparation.

The poseibility of small and medium-scale projects depends on the availability of technical and design advice and quality control from the centre. The creation of centres of technical advice in both mechanical and electrical engineering will, therefore, be an important element in the Second Plan industrial programme.

Exporte (million \$ U.S.)

		(#11110	n a U.S.)			Annual
	<u>1969-1970</u>	1970-1971	1971-1972	1972-1973	1973-1974	growth rate
Domestic exports	253.7	265.6	278.2	291.6	305.9	5
Re-exports	7.7	8.5	9.4	10.4	11.3	10
Community	16.1	18.5	21.3	24.5	28.1	15
Total	277.5	292.6	308.9	326.5	345.3	6
		In	ports			
		/millio	n \$.U.S.)			Annual growth rate
	196 9-19 70	1970-1971	1971-1972	1972-1973	1973-1974	4
Consumer goods	105.0	105.0	105.0	105.0	105.0	-
Intermediate goods	63.3	71.5	80.8	91.3	103.2	13
Transport equipment	30.5	33.3	36.3	39.5	43.1	9
Capital goods	90.8	91.3	102.2	110.6	118.3	10
Total	279.6	301.1	324.3	346.4	369.6	7

mand interior

(0) ilio 1 ".1.

	ì	**	ì	**
!teath	Separate .	Sancty		
Cool	29, 1	4	* .0	•
Sold	4.1.4	4*1.5	117.0	112.6
Stiver	1.7	5.2	1.0	1.0
"te	105. /*	966.0	1,473.7	4,4,4.4
Nagrita	11.0	1.0	160A.C	103.0
Lane	144.1	•	160.0	•
Renism and sand-place	34.4	•	40.0	•
Solt	1, 166. 1	67.8	1,190.0	170.0
Oppose	47.5	0,6	77.0	•
Moss	100.1	100.1	500.0	704.0
Reporto	69. 1	60. 1	90.5	89.5
1000 10000	w1.3	101.0	176.6	176,0
Name	14,940.0	18,040.0	11,100.0	11,140.0
Othero	9, 7	١, ٥	13.	4.9
Total	20,900.0	M, 800.4	11,976.0	16,180,4
Less appeared sepute	5,176,1		1,976.0	
Not needer centribution	17,707.0		15,480.0	
of which repulsion	3,001.5		2,264.0	
Pleased log	968. 5		098.0	

Poter Pigures for 1989 are provinciant estimates.

Lessi cales of 1880 term undate fluctuated to the past.

(se) Pleased study of electric source

Concreting expenition:	in the same of the
Comptal system: Total existing and planned capacity in .969	87.O
Hosh: Arigha: Total existing and planned expanity in 1969	15.5

Maximum decend from the countal system will increase from 52.5 megawatts to 1969 to 94 megawatts in 1974. From the Hochi Arusha system, this will increase from 6.5 megawatts in 1969 to 14.5 megawatts in 1976.

The demand from other branches is expected to increase from an estimated maximum demand of \$16 magrauntts in 1969 to 12.54 magrauntts in 1974.

TESTECO estimated construction expenditure will total \$63,970 ever the 1969-1974 period.

Investigation Studios 1969-1974

(000 \$ U.S.)

Sticylor's George,	Rufiji River	1,400
Kagers River Resin	devel opment	700
Total		2,100

Other Branches!

\$0.7 million will be allocated for the provision of electricity to small tems.

The electricity supply for some rural areas such as Kilimenjaro, thereus and Tukuyu is under investigation.

(111) Pleased worth of states!

(1v) Priority of sectors!

(v) Infrastructural problems commented with industry:

Commissations:

1

In general, the Government's road construction policy is based on the need to provide a country-wide "low cost read" system. The road development will be phased to meet growing needs but basic planning will take account of the projected leng-term development.

Piret Priority Programs of Projects to be Implemented During the Second Pive Year Plan

(million \$ U.S.)

Ten Zen Roed	55.2
Construction of trunk and major feeder roads	33.4
"margara-Shinyanga 88 miles (bitumen)	5.7
Makuyuni-Oldeani 45 miles (bitumen) Bukoba-Kyaka 30 miles (bitumen)	2.8
Geita Peninsula Cotton Roade	1.5
Dar es Salasm-Ragamoyo 20 miles (bitumen)	1.5
Mtwara-Hingoyo-Masas: 126 miles (bitumen)	3.8
Msolus-Ifakara 47 miles (engineered gravel)	2.2
Oldeani-Nassa (Arusha-Hwensa) 200 miles	
(engineered gravel)	8.0
Liganga Nine Access Road	0.9
Structural and pavement improvements to trunk	2.3
and major feeder reads Nassai-Tunduru-Songea (282 miles)	2.3 0.8
Lusahunga-Ngara-Rwanda (100 miles)	0.7
Bukobe-Mulemba-Biharemulo (100 siles)	0.3
Uvinsa-Mpanda (125 miles)	0.1
Tundume-Sumbauanga (145 miles)	0.4
Betterment units	1.4
Additional plant or normal maintenance	1.4
Extra equipment for phased takeover of district	
roads	2.8
Minor feeder roade	3.5
Main roade in townships	0.7
Beorgoncy bridging	0.4
Surveys and investigatione	0.4
Staffing end training	0.4
Carry-over from the present plan	8.0
Total roads	109.9
Airports	11.4
Kilimenjaro international airport	9.8
Dar es Salasm interim improvements	0.9
Other small aerodromes	0.7
APS equipment, orash tenders and buildings	0.8
Total serodromes	12.2
Improved coastal shipping service Dar es Salasm -	
Htware (include an element for a survey of the	
coastal road Kibiti-Lindi)	1.4
Grand total roads and serodromes	123.5

Tensenia - Zembia railway:

The rail link from Kapiri Mposhi in Zambia to Dar ee Salaam will be 1,166 miles long. The first stage is almost completed.

In the overall financial estimates of the plan, an allowance of \$42.' million has been made in the provision for development epending to cover the local costs of the project which are expected to accrue during the Second Plan period. Of this total, \$28 million are intended to be generated by drawing down commodity credits, the remainder to be contributed from the overall supply of local funds.

East African Corporation and Community Communications Services:

An important part of Tanzania's communications infrastructure is the responsibility of various East African institutions. Four self-financing corporations and two community institutions 'inanced mainly through the general fund are involved.

The East African Corporations:

- Rast African Railways Corporation;
- East African Harbours Corporation;
- East African Airways Corporation;
- East African Posts and Telecommunications Corporation.

Community Institutions:

- Directorate of Civil Aviation;
- East African Meteorological Department.

5. Pleased industrial projects:

Inventory of projecte, investment and capacity:

The five-year industrial programme is based on a list of industrial investment possibilities consisting of some 385 projects (including 78 expansion schemes for existing plants).

The list represents a pool of investment opportunities which have been identified either at the pre-feasibility or feasibility study stage: some may be rejected or postponed and fresh projects may be added.

It is estimated that the overall plan goals will be met if only 70% of the investment opportunities identified at this stage are realised through project implementation. The minimum total investment that this rate of fulfilment represents is \$182 million resulting in a gross output of \$196 million (of which exports will account for \$49 million) and in the employment of 30,000-31,000 persons.

Projects to be implemented by the Notional Development Corporation

Project	Betameted investment (000 \$ U.S.)
Tensenia Tenneries	7 M
Coastal Dairy Industries	709
Tansania Pertilisero Company	15,722
Tembe Chipboards Ltd.	710
Tabora Heitu	243
Simal Pulp	50, 396
Stool Rolling Will	36 3
Tansania Gemetenee	139
General Tyre E.A.	8,679
Kaolin Survey	25
Distillery	398
Cashew Processing	83
Dicycles	594
Detergents	279
Saw-mills development	1,007
Kenaf Processing	3,499
Pruit and vagotable processing	134
Steel diversification	97
Salt expension	419
Togry Plactics	69
Shoe expension	349
Asbestes pipes and sheets	3,135
Pibroboard manufacture	2,519
Paraiture	699
Bioyels tyres and tubes	860
Pichery	699
Parquet flooring	139
Sinal bags	1,115
Starck menufacture	237
Toucle	343
Sical carpets	1,619

Project (continued)	Estimated investment (000 \$ 11,5,1)
Togtiles divorsification	1,675
Warp knitting atratch fabrics	27 9
Steel pipes	1,399
Cement expansion	3,3 59
Helting	1,539
Car batteries	379
IPS building	1,679
Total investment	106,544

Projects to be implemented by the Wational Small Industries

poretion (MSIC) are:	Setimated investment
Preject	(000 \$ U.S.)
750 industrial workshops and facilities centres (to be rented to artisens)	621
Pruit and vagetable processing projects	92
Ancillary industrial projects	122
Hire purchase leans for machinery	326
Participation in the shoe capital of colocted industries	89
leans to small industries	92
Headquarters	78
Secol .	1.422

	1	Ž-		•	Organia (maj)		~ £			
							•			
Resultesturing of feed, benorages and tobases	5		*	3	61.0	5.	æ	X	11,650	5,38
Tertilo merios aperol med louther industries	*	X	21	13	~ %	37.8	۶	19.4	6,170	6,160
Menufacturing of meed, used preducts including functions	5	\$	3	•	Ř	*	8	Ŗ	97.	3. 80
Pass and pass products	2	•	~	•	\$.1	7.6	3	17.0	2, 300	21,700
Chemicals, including scal, potrolous and plantice	1	×	7	3	4		2	11.7	3,4	3,660
Products, energy products of potentions and seel	2	2	~	•	15.7	E.S	R	2.3	9. 1.	11,3
Rate metal industries	~	~	•	-	2.9	\$.5	2	9.9	3	14,14
Phiritated sotal products machinery and opsignment	£		•	3	ä	7.	25	•	5.9°	•
Other manifestiving Edwardings	3 £	-18	118	~18	3 2	2 3	218	7 1	# # #	# A

of or of 365 projects 78 ors expensions.

Sectoral Distribution of the Projects

	No. of projects	Investment	Output	lang Lagrange 1
Parastatal sector	45%	846	794	77%
Verbers and se-sporalises	214	45	5%	74
Private sector	364	124	164	164
	1004	100%	100%	100%

Geographical Distribution of the Projects

	No. of Projects	Investment	Output	Paplerment
Der oo Salaan aroa	344	194	26 1	24%
Methon development areas	57%	76%	70%	716
Other tems	%	5%	4%	5\$
	100%	1001	100%	1001

Origin of financial recources:

Next recommend will be raised locally in order to maintain the pattern of self-reliance established during the First Plan.

Pineseing of the Central Government Investments in Development

(million \$ U.S.)

Demostic resources	294
Transfers from recurring budget	294 (86)
Security sales (including provident funds,	
insuremee, etc.)	(187)
Other less! resources	(21)
External resources (including commodity credits)	224
Total Central Government resources	518

Parastatals:

In gross terms, it is expected that between 35 and 40% of the parastatal programme will be financed externally, 30° by the Central Government and 30° will be self-financed.

Criteria on project evaluation:

In order to develop decision-making in relation to the selection of industrial projects, systematic criteria will be laid down during the clan for application to all parastatal projects and for guiding the public policy outside the parastatal sector. For this purpose, the impact of the project on overall development will be evaluated under four headings:

- effect on the balance of payments;
- real net contribution to domestic products;
- budgetary effect;
- social impact.

6. Organizational and institutional changes required for the industrial plan implementation:

The overall supply of managerial staff has to be increased through the training programmes of the proposed institute of Development Management and those of the University. To provide sufficient staff, people will have to be recruited from a far wider range than those with general management training. On-the-iob training will be encouraged.

"Project initiators" will be appointed who will be responsible for the progress of the project and who will then participate in the management of the plant.

The implementation procedure for small projects will be handled through special industrial centres.

One of the most important tasks will be to check the efficiency of investment decisions and of the practical impact of development programmes.

The central implementation objective is to ensure a very high rate of growth in investments by parastatals over the plan.

To achieve a regular review and a reassessment of the Five-Year Plan, an annual implementation plan will be set up.

Planning units in all economic and social ministries will be established; some of them exist already.

Devplan will remain responsible for the co-ordination of an overall economic policy, the preparation of the annual review of parastatal investment programmes, the preparation of the annual implementation plan and the identification and elimination of implementation bottlenecks: it will co-operate with ministerial planning units where they exist and aid ministries in the creation of planning unite where they do not exist.

Devplan will also be responsible for the development of a regional planning capacity and for providing assistance to the regions in the formulation of plans and annual development programmes.

A new organisational structure of the parastatal sector will be created in order to facilitate the implementation of the Second Plan. Each paraetatal will specialize in one industry or a closely related group of industries and will be allocated to a parent ministry.

Each year the parastatale will present through their parent ministries a summary of the investment projects they have on hand, the cash flow they expect from their operations and their expected source of finance. Devplan, in consultation with the Treasury, will then review the programmes concerning the overall resource availability.

The regions will have to play a more important part in implementation. The following policy will ensure a better regional involvement in implementation:

- Contrally financed projects will be spread more evenly throughout the country than in the First Plan.
- Urban development will be decentralised away from Dar-es-Salass.
- During the plan, increasing resources will be available for allocation to regional economic development projects through regional development funds.
- The agricultural targets of the plan have been broken down into district crop priorities which will be made available for guidance at the district level.
- Through a reallocation of functions, the financial situation of district councils has been put on a much sounder footing which will enable them to play a more positive development rols.

7. Problem areas particular to the industrial sector:

The principal problem relates to the formulation and implementation of a long-term etrategy of industrial growth, once the process of import-substitution of simple consumer goods is completed. The underlying problems are:

- The domestic growth in demand for these products is limited by the overall rate of growth of the economy.
- Hany of the consumer good industries produce only a small proportion of the final product with domestic materials; they use a high proportion of imported materials and have created a domestic market for new types of imports.
- Export possibilities of these industries are limited, as other developing countries have established similar ones and industrialised countries have imposed high tariffs.
- Intermediate and capital goods used as imports by the new import-substituting consumer and construction good industries will be limited in supply as they must be imported and will therefore depend on export and or aid possibilities.

Increasing priority should thue be given to the long-term development of basic intermediate and capital goods industrien. The identification and preparation of projects to meet the more complem requirements of the next stage of industrialization will be undertaken during the plan period.

SUMMARY OF THE INDUSTRIAL DEVELOPMENT PLAN OF COSTA RICA: 1969 - 1972

- I. Comeral background information
- II. Summary of the industrial development plan

^{9/} Provintence del Becarrelle Bondatos y Social de Costa Rica y Planes del Sector Piblico para 1969-1972; Finistorio de la Procidencia, Oficina de Planificación, Rayo 1969, pp. 1084.

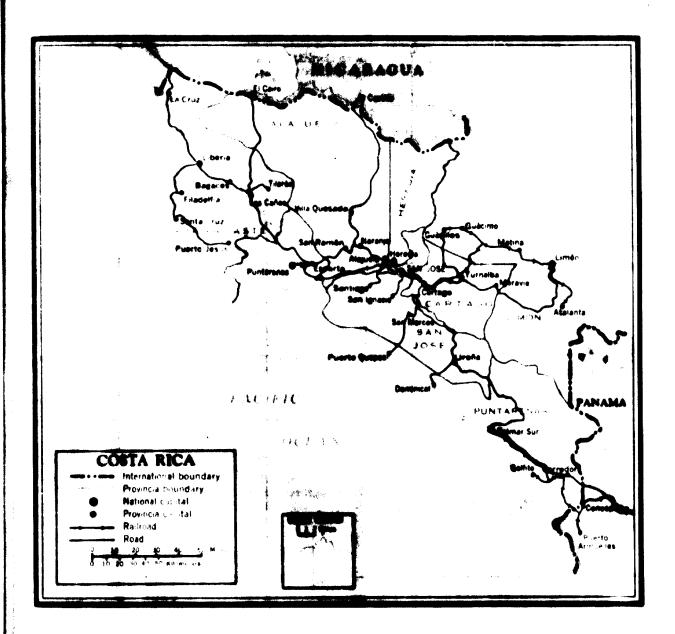
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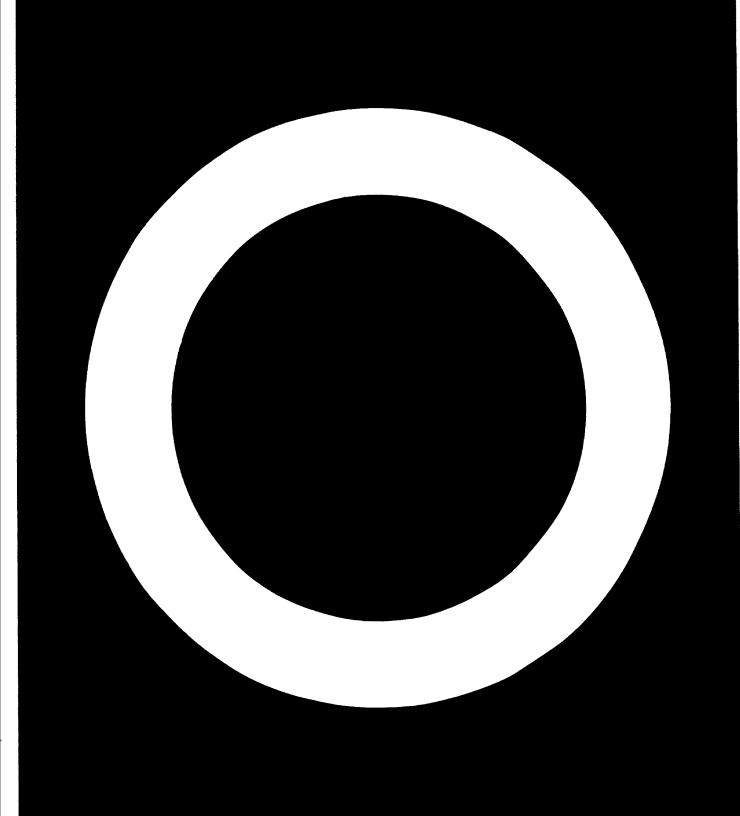
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UN: Monthly Bulletin of Statistics, New York, Tecember 1970.





I. TENERAL BACKTROUND INFORMATION

1. Basic statistics of Costa Rica:

Area:		11,760 km
	Apricultural area	16,760 km2 16,230 km2 29,360 km2
	Forests and woodlands	29,350 km°

Major cities: /as per 1 January 1969

	Population
San J sé (capital,	200, QCC
Alajaela	76 nan
Puntarenas	€1,000
Cartage	£7,000
Limón	47,000
Heredia	36,000
Liberia	2 4, 100

Other data:

	Number
Motor vehicles in use 'in 1968')	50.FE4
Wireless telegraph stations	10
Telegraph offices	505
Telephone stations (covering	
50,093 subscribers in 1969)	\$ \$
Broadcasting stations	35
Television stations	4

Annual electricity production: (in 1967) 480 kwh/capita

Exchange rates:

	Colones
<u>Unit</u>	equivalent
US dollar	6.62
Pound sterling	15.82
Swiss franc	1.53
Prench frenc	1.20
German mark	1.82
Italian lira (100)	1.06

2. Population:

Between 1950 and 1968, the total population grew at an average ensual rate of 3.5%.

	1964	1968
Total population (000 persons)	1,439.1	1,634.9
Active population (000 persons)	419.2	468.4

Industrial Employment Distribution

(number of persons)

	1963	1065	196P
Consumer goods industries	24,304	27,697	34,763
Intermediate goods industries	8,435	12,142	14,423
Capital goods industries	2,170	2,556	2,966
Total	34,909	42, 30°	52,158

Structure (1) of Industrial Employment

	1963	1965	1968
Consumer goods industries	69.6	65.4	66.6
Intermediate goods industries	24.2	28.6	27.7
Capital goods industries	6.2	6.0	5.7
Total	100.0	100.0	100.0

Mucation and training:

Costa Rica has a very low rate of illiteracy. The elementary instruction is compilsory and free; secondary education (eince 1949) is also free. Elementary schools are provided and maintained by local schools councils while the national Government pays the teachers besides making subventions in favour of local funds. In 1968, there existed 2,363 public primary schools with 11,610 teachers and administrative staff and 330,810 enrolled pupils; there were 97 public and private secondary schools with 55,732 pupils. The university of Costa Rica, founded in San José in 1843, has 584 professore in 13 faculties and 9,265 etudents. A medical school was opened in 1961. The budget for 1967 provided \$26 million for the public education.

The responsible departments for education are:

The Ministry of Public Education:

The University of Costa Rica;

The Mational Institute for Apprenticeehip (INA)

The INA was founded in left to train unskilled workers to eemi-skilled and workers with incomplete knowledge to skilled ones by means of courses and colleges which offer the possibility of attending university afterwards. The purpose is to form specialized operatives for preparation and control functions.

The University of Costa Pica trains professionals on different basic industrial levels. In 1963, the National Productivity Centre (CENPRO) was founded to provide courses for managers, foremen and operatives. To date, 96 programmes for 1,300 managere, foremen and operatives of 21° public and private enterprises have been realized.

The productivity per person employed grew at an annual rate of $4.3^{\prime\prime}$ between 1965 and 1966.

3. GDP:

	1964	1268	Average annual increase
Manufacturing GDP/capita (\$)	70	86	6.0%
Total GDP/capita (\$)	378	468	5.5%
Population (000)	1,440	1,634	3.1%
Manufacturing GDP			
(million # U.S.)	101	144	9.2%
Total GDP (million \$ U.S.)	544	765	8.9%
Namufacturing GDP as % of total GDP	18.6	18.8	

[&]quot;INA assiste managers concerning training, organisation, etc., gives permanent assistance to managers in the form of "Instructores Permaners" and organises courses for supervisors and instructors.

(million 8 U.S.)

	1264	1	1346	1
Agricultural sector	136	25.4	186	24.3
Industrial sector	101	18.5	159	20.8
Public sector	46	10.3	86	11.2
Others	249	45.8	334	43.7
CTP at market prices	*44	100.0	76"	100.0

within the industrial sector, a slight structural change from the traditional (food, footwear, clothing, etc.) to the intermediate industries (paper and paper products, chanicals, rubber products, etc.) could be noticed. In 1963, the traditional industries contributed 79.5% to the total industrial GPP and 71.2% in 1967.

Stimulative factors for industrial development:

- Tax exemptions granted by the law for industrial protection and development;
- CACH membership;
- Provision of higher domestic and foreign eredite:
- Increase of foreign investment.

4. Mero-economic indicators:

Money Supply Index (1963-100)

1958	1963 100	116	1967 156	1948	1363	1970	(Rereb)
Average	annual	increase	1963-1968	- 10.7%			
Priese!	l	Avera	to summer	18070050	1950-1968	- 1.7%	
9071					i4 - 8544 i i8 - 8765 i		

Average annual increase 8.9%

Interest of Property

(million \$ U.S.)

	1987	724
Current assount		
Poroign trade Total exports Goods	172.5 143.3	205.9 174.4
Services Total imports Greds Services	29.2 213.7 191.2 22.5	31.5 232.2 209.0 23.2
Disease of trade	-41.2	-26.3
Reni 1 tenese		-500
Receipte Paymente Intercet (foreign debt) Public Private	4.6 22.4 13.7 8.8 4.9	4.8 22.9 13.8 7.0 6.8
Return on invoctments Others	7. 6 1.1	2.0 1.1
halance of remittances	-17.8	-18.1
Transfere Receipte Paymente	9.6 0.8	10.0
Talence of transfers	8.8	9.1
Balance of ourrent account		
Credite Public Private Direct investments Decrease of receives	82.1 37.3 44.8 25.6	68.2 24.8 43.4 27.2
Gross revenue	107.7	95.4
Amortisation of credits Public Private Supreciption of investments Increase of recorves	62.9 44.7 18.2 7.5 2.1	54.5 26.0 26.5 8.8 3.1
Green espenditures	72.5	66.4
Others	15.0	6.3
Inlance of espital account	50.2	35.3

The Community Correct Designer and Descriptions

(million \$ U.S.)

	1965	1969	1970	1371	1972
1 Ourrest revenue	165.4	231.8	252.5	272.8	294.5
1.1 Contributions	83.8	121.8	133.6	144.2	154.8
1.1.1 Direct tames	20.9	48.7	54.5	57.9	63.2
1.1.2 Indirect tames	54.9	73.1	79.1	86.3	92.6
1.2 Others then			·		
contributions	10.4	16.1	17.5	19.3	20.5
1.3 Operational revenue	64.5	89.0	%.0	103.7	112.3
1.4 Transfere	6.7	4.9	5.4	5.6	5.9
2 Ourrent empenditures	147.3	207.5	220.7	235.2	249.2
2.1 Communition	£3.1	119.0	125.6	133.1	140.4
2.1.1 Repumerations	59.7	91.7	96.5	101.4	107.0
\$.1.2 Purchases	23.4	27.3	29.1	31.7	33.4
2.2 Operational					
essendituree	45.0	52.9	56.4	60.3	64.4
2.2.1 Resuperetions	10.4	%. 3	26.0	29.7	31.6
2.2.2 Purchases	×.4	×.6	26.4	30.6	32.8
2.) Intereste	6.8	20.6	22.2	23.8	25.4
2.4 Profit transfer	0.1	0.2	0.4	0.6	0.7
2.5 Transfere	12.3	14.8	16.1	17.4	18.3

5. Industrial products and technology - main menufacturing industries:

	1961	1267	1968
Poel	26.3%	24.6%	2 4. 8 ⁴
Boverages	14.0%	12.0%	11.47
Tribacco	4.6%	3.4%	3.25
Testiles	5.1%	6.47	6.7%
Poetwear and clothing	9.6%	7.9%	7.4%
Hood	7.9%	6.9%	6.7%
Parniture	3.9%	2.99	2.87
Paper	1.1%	1.1%	1.17
Printing	3.3%	3.0%	2.9%
Leather and leather products	1.5%	1.1%	1.0%
Rubber products	0.8%	1.3%	1.67
Chemicals	7.5%	9.2%	9.2%
Potroloum products	•	2.17	3.97
Non-metallic minorale	3.5%	4.3/	4.1
Dacio metalo	0.3%	0.8%	0.7%
Metal products	2.3%	3.6%	3.37
Non-electrical machinery	1.4%	1.4%	1.5%
Bloctrical articles	0.8%	2.3%	2.3:
Transport equipment	2.8%	2.8%	2.6
Others	1.7%	2.9%	2.83
	100.0/	100.01	100.07

The everage annual growth of manufacturing ODP over the period 1963 to 1967 was 11.9% and from 1967 to 1968 - 12.1%.

Pool, beverages, chemicale, textiles, feetwar and clothing and west contributed altogether 66.2% in 1968, followed by non-metallic minerals and petroleum products with 4.1% and 3.9% respectively; the remaining 25.8% include furniture, printing, mineral products, trumsport equipment, electrical articles, non-electrical machinery. Patter products, leather and leather products, paper products and basic metals.

Structural changes in the manufacturing GDP: only a slight decrease in the production of consumer goods and an increase in the production of semi-finished goods. Due to limitations from the technological and financial point of view, no higher increase was possible on a short-term basis.

6. Industry - related resources and sectors:

Between 1963 and 1967, there was no significant increase in the demand for electric energy. In 1967, the industrial sector consumed 131.7 million kwh. This accounted for 22.1% of the total demand, while in 1963 only 15.3% was consumed by the industrial branches. The agricultural sector had to increase its production, both of traditional produce and of new ones in order to supply industry. In particular, the production of sugar-case, cotton, African palm-trees and sorghum increased between 1963 and 1967.

Gold output is about 93.3 kg/vear.

Salt production from sea water is about 10,000 tens/year. Hasmatite ore was discovered on the Nicoya Peninsula in 1960 and sulphur near San Carlos in 1966.

In order to promote the mining activities in the country, a mining code was prepared which meets the most modern etandards.

The following works were carried out between 1958 and 1968:

- Reconstruction and amelioration of 675 km of the principal roads;
- Construction of 616 km of other roade;
- Construction of the road San José El Coso San Ramón;
- Pinishing and asphalting of the Interamerican Highway;
- Construction of the road leading to Limba;
- Canalization of the Lagunas del Atlantico;
- Initiating the construction of a new port on the Atlantic coast and expanding the port of Puntarenas;
- Expension and improvement of the international airport, El Coco.

F.O.A. Value of Busch of Such (000 8 U.S.)

	2	21,370	23,059	M6'2K	# T
		3,262	ì	195.8	12,14
हा		4.63	8,693	1.30	8.0
	7	29,317	44.03E	116.64	62,40
	2	×. ×.	6.78	4.472	6,633
	3	2,215	3,103	X	3.43
ericalitees		×.×	39.18	30,38	43,907
⋖ 7	8	129.4	2,540	4,841	57,683
	1	82,377	91,655	13,37	111,922
146		111.64	135,673	23.28	174,402 111,922
Ä					1966

*/ Between figures

Hair imorte:

C.I.P. Value of Imports of Goods

(000 8 U.S.)

	1965	1966	1967
Total	178,141	178,453	190,699
Industry and mining Rew meterials Capital goods	68.012	64.882	74.967
	52,246	50,539	57,698
	15,764	14,343	17,269
Agriculture Rew materials Capital goods	11.000	10.252	10.301
	9,170	6,473	6,545
	3,910	3,773	3,746
Duilding and construction	15,849	15.154	13.940
Materials	11,551	9,667	10,011
Capital goods	4,298	5,487	3,929
Transports Ruels and lubricants Capital goods	18,588	19,907	20,850
	8,147	7,683	6,200
	10,441	12,224	14,650
Consumption Portshable goods Durable goods	51.947	60,418	61,550
	34,194	40,918	41,416
	17,753	19,500	20,134
Other capital goods	10.66	7.840	9,091

7. Overall economic development etrategy and policy:

- to stimulate the economy's growth rate, as well as that of employment;
- to increase foreign exchange earnings;
- to decentralise industries from the geographical point of view;
- to increase Costa Rica's participation in the economic integration programme (CACN);
- to improve the internal organisation of industries.

E. Merional ec-speration:

The Cámara de Compensación Centromericana (Central American Compensation Chamber) transferred to Costa Rica in 1967 chaques, orders, etc. at the amount of \$26 million. (1965 - \$24 million; 1964 - \$12 million).

The industrial exports to Central American countries increased from \$1.5 million in 1962 to \$25.8 million in 1967.

These two facts give an idea of the increasing importance of Costa Rice's participation in the economic integration programme:

- In 1958, the Tratado Multilateral de Libre Comercio e Integración Recoderica (Miltilateral Treaty on Free Trade and Economic Integration) was eigned by El Salvador, Micaragia, Quatemala, Honduras and Costa Rica.
- In 1960, the Tratado General de Integración Bondánica Centroamericana (General Treaty on Beenomic Interration) was signed by El Salvador, Honduras, Juatemala and Micaragua. Costa Rica jouned this treaty in 1962. It became effective in 1963.

Positive assects of the economic interrstion for Cesta Ricar

- Botter utilisation of installed capacity;
- The level of industrial employment increased considerably; reaching a total of 40,000 workers in 1968;
- The manufacturing sector's contribution to total GDP increased from 17 in 1963 to 19 in 1968;
- Dottor export possibilities;
- Creation of an entrepreneurial epirit;
- Poreign investment is stimulated.

Magative assects of the economic integration for Costa Ricor

- Problems concerning the fiscal structure of the country!
- Derese in oustome revenues;
- Pressure on the balance of payments;
- Agricultural problems.

Company of the control of the contro

(eco 8 u.e.)

_		2	1.493	3, 100	TE-2	3,492	4
Towns of the	Lating James 2	E	1.33	3,167	1. X	1,357	4
		1.255	3	6. M.	5. ₩3	10,469	4
	1	121	Ź	1,336	2°,X	1.16	4
	1	3	235	1,415	2,031	3,1%	4
_	1	¥	1,68	2,965 1,415	4,373	ĭ	4
•		4	4,373	-117	1,561	6,242	1
14114		2,32	2. y	4,673 4,788	7,653	12,343	4
		1.97	7.867	4.673	6,092	101.9	1
		L7 -	1	5, 221 ± 5	7.85	-5.78	4
	1	573	2,717	5, 321	9,103	11,32	1
	1	#	3	1,323	1,74	ž	4
(C		3	7,103	3,542	2,002	-7.312	-10,614
TOTAL CHEMICAL AND CO.	Territor,	3,617		1965 16,232 14,691 3,541	23,155	34,221	- 86'17
TATAL Y	7	3.25	15,38	16,232	25,157	36,30	37,290
		186	ĭ	1965	196	1961	136

of Betanded figures

9. Systems for planning and plan implementation:

With the foundation of the Oficina de Planificación de la Presidencia de la Sepública (Planning Office of the Presidency of the Republic) in January 1963, the analysis of the Public Administration which was exarted already some years ago was extended and put on a solid basis.

At the same time, the Pepartamento de Productividad y Eficiencia Administrativa (Department of Productivity and Administrative Efficiency) which constitutes a part of the Pianning Office was founded. This department has the following functions:

- to study eystematically the working methods and the administrative organisation of the entire public sector with the aim of eliminating unnecessary employees and to make the best use of the human and material sources in order to increase the productivity of the Public Administration;
- to render technical assistance to private enterprises in order to increase their productivity.

In July 1966, the Comisión de Eficiencia Administrativa (Commission en Administrative Efficiency) was founded. Its main task is to cut down public expenditures by means of a special work programme as fellows:

Programmes in saccution: studies in process of implementation

- General poet office: partial renewal of transport equipment, installation of new letter boxes, etc.;
- Register of pledges: microfilming of documents;
- General read transport office: enacting a law for transit, modernising the equipment, etc.;
- Other studies were made as regards the Ministry of Foreign Affairs, the Ministry of Public Security, the customs, the National Press, the storage rooms of the Ministry of Transport and the storage rooms for spare parts of the Ministry of Public Security;
- Ministry of Public Education: analysis of the organisational structure, functions attributions, procedures, personnel, teaching centres and legislation.

THE RESERVE OF THE PROPERTY OF

Programme to be esseuted from 1969 to 19721

- Improvement of the financial administration erotem;
- Controlisation of the auxiliary services of the esseutive:
- Greater efficiency of the services which are rendered by the Government to the public;
- Introduction of modern techniques in the State's supply services;
- Improvement in the integral organization of the Ministries:
- Retionalisation of the public expenditures;
- Standardination of the administrative procedures;
- Administrative and financial reorganisation of the municipal system;
- Co-ordination of those services concerning order and security;
- Implementation of recommendations.

10. Problems encountered through the previous plan period:

Person trade: Notwoon 1963 and 1967, the deficit of the balance of payments increased annually by 10.6%. Costs Rice had to import nearly all capital goods as well as a high proportion of raw materials and consumer goods needed for industrialisation. Various projects had to be financed with foreign capital by means of credits. All those facts deteriorated both the balance of trade and the balance of payments to a great extent.

In the same period the imports of intermediate products which are used as raw materials in industry increased annually by 21%. Costs Rica's industry became dependent on foreign countries. The freight costs - one of the most important items among the imports of invisibles - increased considerably.

<u>Pipeal problems</u>: Between 1963 and 1967, the member countries of the CACH promoted the industrial development by means of national lame. This policy created a disparity of incentives among the member sountries.

Energy so solventive eritoria for the consecution of incentive can be applied. Consecutly speaking, it can be east that unequal conditions were erected for each country.

In 1962, the member countries of the CACH eigned the Central American Centrart on Piscal Incentives for Industrial Development. It came into force in March 1969. The economies of member countries, especially the balance of payments and the fiscal situation, suffered from this delay.

There is a lask of experts in project evaluation and eletistics.

II. SUBMARY OF THE INDUSTRIAL DEVELOPMENT PLAN 1969-1972

1. Canceral spale and objectives:

(i) Planned growth:

	1968	7263	1970	121	1972	trorage emmal instant
Hemifacturing GDP/capit	88				111	6.0%
(0)		•	•	•		· _
Total GDP/capita (8)	*1	•	•	•	553	4. 25
Population (000)	1,6 M	•	•	•	1,875	3. 66
(million \$ U.S.)	144	•	•	•	214	10.55
Total GTP (million \$ U.S.)	765	8 26	899	964	1,037	7.9%
Namefacturing % of total GDP	16.8				20.6	
Consumption (million \$ U.S.)	624	46)	708	765	125	7.35
Pixed denoctic capital investment						
(million \$ U.S.)	155	•	•	•	221	9.35
Exports of goods and services (million \$U.S.) 211	229	250	270	300	9.15
Imports of goods and services (million 8 U.S.) 242	250	200	307	386	7.05

(11) Other chiestires:

Objectives pertaining specifically to the numberturing sectors

- to increase the supply of namefactured goods
- demanded locally and in the CACH;
 to increase experts to countries other than
 those of the CACH;
- to intensify the emploitation of demostic rew materials;
- to etrocalize the internal organization of enterprises;

- to promote openialization in order that resources to efficiently used to raise the competitiveness of demotic commedities in international nurbots;
- to promote the geographical dispersion of industry by adopting improved location oritoria;
- to improve integration agreements in order that incentives help industrial development further.

2. Mester est relier:

(1) <u>Sameral</u>:

Production of caportable goods to the CACH and other regions will be furthered, particularly in the case of the name facturing sector.

Expert of industries which use descetic resources and offer issociate capert possibilities, i.e. consumer and intermediate goods like cassed most and other food-stuffs, dried fruits, vagetables, coffee, papain, radio and television sets, cardboard besse, sulphus, etc., will be presented. By 1972, the expert of beneaus will be greater than the expert of coffee. Expert diversification will be furthered.

The CACH industrial policy must eliminate obstacles of a fiscal and monetary nature, in order to increase the competitiveness of Central American products in foreign markets.

Monetary policy will be implemented in a situation of increasing stability, promoting private investment and the growth of agricultural and industrial enterprises.

The money supply will increase according to the volume of equits to the private sector.

It is of great importance to bear in mind the limitations is policy-making due to the participation in the CACM.

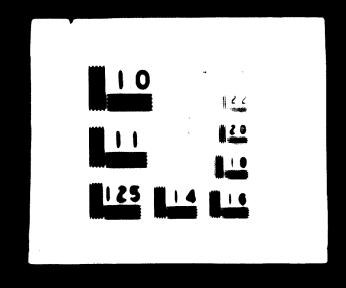
A Control American policy encouraging greater efficiency of firms will be presented.



76.04.27

5 OF 5

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Todas end approximate well to required by both public and provides anothers in project evaluation and presentation.

Import outstatution, especially in the field of fondstuffs, testales, missionle and patroleus derivatives production, will change the composition of imports so that the relative importance of imports of common and intermediate goods will decrease while that of imports of capital goods will increase.

Infrastructure has to be supreved.

(11) Supposer and productivities

Bheetier:

The education programs will be expended at allbools and now programs will be introduced. Approximately \$197 million will be required for the expension of estating and for the introduction of new education projects. The expension of a technological institute as well as of technical schools for agriculture and eatile-breeding is being studied.

Forestional and menomerial trainings

Greater attention will be paid to the technical and professional training, as well as to the improvement of the firm's internal organization.

Productivity are non provision!

Labour productivity in industry will increase by 4.4% during the Plan period.

The productivity and separity utilization of the magnifesturing sector is largely dependent on:

- the improved efficiency of existing plants;
- the expansion of the expanity of some of the existing plants;
- the establishment of new factories.

(116) Immediated, and accountly whilleshing!

Pland demontto expital personant			
	Tage	1972	(100-1012)
Provento	124	176	9.16
Poblis)1	45	10.1\$
Potal	155	221	9. ¥

Consider williagates selies!

The utilization of the installed especity of all plants has to be increased in order to raise the productivity of the industrial investments. The increased productivity will be partly responsible for the maintenance of a stable price level together with the increased real income for wage earners.

(10) Intersementions between growth factors:

(mare of person)

Here then 3,300 direct parts util to created connelly.

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1. Into June and severtions.

Protected Insertic Impact for Stanfortural Products (0611100 8 U.S.)

	, a.c				Amongo
	1363	1370	1971	1313	The same
Red	103.4	108.6	118.2	128.3	7.5%
Tricks	23.3	24.5	%. 1	27.3	6.0%
Pobasoo	8.2	8.5	8.8	9.1	4.0£
Toot i lee	33.8	34.2	39.2	43.0	8.5%
Shoos and slothing	21.3	72.2	25.4	29.7	11.5%
Wood	17.4	18.6	20.6	22.8	9.5%
Pormi turo	7.2	7.8	8.3	8.8	6.5%
Pager and paper products	21.6	24.2	27.1	29.4	11.0%
Printing and publishing	7.9	8.5	9.1	9.8	7.9%
leather products	3.5	3.5	3.7	3.8	4.0%
Rubber products	7-4	8.2	9.5	10.4	12.0%
Chamical products	4.9	78.0	88.5	93.0	10.5%
Potroloun derivative	13.9	14.8	16.2	17.2	7.9%
Non-metallic minoral	le 15.6	16.7	17.9	19.2	7.0%
Rests motals	14.9	16.2	18.1	19.3	9.0%
Retal products	18.4	19.9	22.5	24.8	10.5%
Hon-electric machinery	32.0	36.6	39.7	41.7	9.0%
Electrical equipment	18.7	20.5	22.8	25.1	11.9%
Transport material	30.0	34.8	37.0	36.5	9.0%
Others	12.1	12.8	14.0	15.3	8.0%
	479.5	520.1	572.7	617.7	9.0%

4. Planest grant of industrial states

(1) Florest greath of manufacturing matters!

(million 8 U.S.)

			Average
	1363	7415	PETRON
Park .	37.9	47.6	8.06
	16.0	21.9	7.0%
Tylinda Subsection	4.7	5.3	4.0%
See and elething	11.2	15.1	16.0%
	10.7	15.9	14.0%
Need .	11.6	18.3	16.05
Thetiles	4.2	5.1	6.9\$
Paral ture	2.6	4.4	20.05
Pager and pager products	4.5	5.6	7.0%
Printing and publishing	1.3	1.7	4.06
leather and leather products	2.9	3.6	10.05
Notice products		23.9	17.0%
Chamical products	14.9		7.0%
Potrolous derivatives	6.0	7.4	7.0%
Non-motallic minerals	6.3	7.7	
Dete metale	1.2	1.5	7.6%
Notal products	5.1	7.5	14.05
Hon-electric machinery	2.3	3.2	12.65
Electrical equipment	4.1	5.6	11.6%
francort natorial	4.4	6.6	15.0\$
Others	4.4	5.7	9.0%
			10.4
	198.5	213.8	10.9%

Tales of Immerie (mailton \$ U.S.)

	1343	1970	1971	1313	Average annual increase
Prod	9.2	8.4	8.5	8.8	-
Prinke	1.2	1.0	1.0	1.1	•
Tobasco	0.4	0.5	0.5	0.5	7.7%
Tosti lee	17.2	15.6	16.5	17.5	0.7%
Shoos and clothing	3.6	3.9	4.2	5.1	12.4%
Voed	0.4	0.4	0.4	0.4	-
Parniture	0.8	0.8	0.9	0.9	4.1%
Pager and paper products	14.2	14.6	15.3	17.1	6.3%
Printing and publishing	1.5	1.7	1.8	2.0	10.0%
Leather and leather products	0.8	0.8	0.9	0.9	4.1%
Rubber products	3.6	3.7	4.7	5.4	14.5%
Chemical products	44.1	49.1	53.5	53.9	6.8%
Petroleum derivativee	2.7	3.0	3.5	3.6	10.0%
Non-metallic minerals	5.0	5.3	5.7	6.2	7.4%
Basic metals	13.7	14.9	16.7	17.8	9.1%
Metal products	11.3	12.3	12.8	14.0	7.4%
Non-electric machinery	29.0	33.2	35.9	37.6	9.1%
Electrical equipment	14.5	16.0	17.7	20.4	12.1%
Transport material	23.4	27.1	28.2	28.4	6.6%
Others	6.5	6.9	7.4	8.2	8.0%
	203.1	219.2	236.1	249.9	7.2%

Intimated Talue of Smooth hand on Postice Smooth Projections (million \$ 11.5.)

		1000	1071	1972	annel jackter
	1262	1270	1971		
Pool	26.5	31.7	33.5	34.6	6,98
Drinke	0.05	0.1	0.1	0.1	33.06
Tobacco	0.2	0.2	0.2	0.2	
Textiles	5.4	6.5	8.4	8.9	18.05
Shoos and clothing	4.7	4.9	5.3	5.7	8.01
Wood	3.5	5.3	7.2	8.2	33.0%
Paraiture	1.1	1.1	1.2	1.2	6.3%
Paper and paper product	te 2.0	3.0	3.9	4.1	27.0%
Printing and publishing		1.4	1.5	1.7	8.0≸
Leather and leather products	0.5	0.5	0.6	0.6	4.0%
Rubber products	2.0	2.5	2.5	2.6	10.06
Chemical products	9.4	10.8	13.1	15.1	17.0%
Petroleum derivatives	-	•	•	•	•
Non-metallic minerals	0.8	0.8	0.9	0.9	7.0%
Basic metals	1.8	1.9	2.1	2.3	7.5%
	1.8	2.0	2.2	2.4	10.0%
Metal products		0.4	0.5	0.6	29.0%
Non-electric machiner	2.7	3.2	3.9	4.4	17.0%
Electrical equipment	0.06	0.1	0.1	0.1	20.05
Transport material	2.1	2.3	2.6	2.9	11.3%
Others	60.3	78.7	89.8	96.6	12.3%

(44) Closed worth of secon succle to ICB:

Inc	Control		وفهدا		Page serie	
	29	Ľ.	24	KW	24	
1269	° 24.7	180	17.0	1,400	9.7*	2,030
1970	305.0	196	19.1	3,820	۰، ۱۵	2,270
1971	8.08	211	21.4	4,270	13.4**	2,750
1972	1,061.6	226	23.8	4,750	14.5	3,190

^{+/} Only Liberia and Senta Srus.

(iti) Pleased growth of mining:

(iv) Priority of sectors:

Priority will be given to those industrial branches which offer immediate export possibilities and use demostic resources; priority will also be given to those establishments which can easily increase their installed capacity.

The following projects have been selected to be realised in the near future:

- Production of "salsa china" and extracts;
- Beers
- Yarns and ropes;
- Pabrica:
- Clothing;
- Shoes;

Interconnection with the Central System: includes energy supply for generating plants in the following places: Regards, Canas, Tilarán, Liberia, Cooperativa Santa Grus, Nicoya and Mandayure.

Institute Costarricense de Electricidad; this is an autonomous governmental company which is in charge of the development of the national electricity plans by co-ordinating the own activities with the activities of the other electricity supplying companies.

- '-slot paper:
- !ansacted papers
- Alkyd, poyoster and iron;
- Phermoneriticals:
- Steel tubes and electric copper and steel conductors.

Approximately \$4.4 million will be required for those projects.

(v) Infrastructural problems connected with industry:

E. Pleased industrial projects:

Investory of Projectes

Projects to be realised include:

Pood I

- cannod fish and see food;
- pasterrised and homogenised milk and its derivatives;
- condensed and symporated milk;
- fish-meal:
- seuces and other cooking items;
- juices, concentrates, dehydration and proceeding of fruits and veretables;
- glucose and maiss oil;
- pastes;
- self-raising flour;
- salt refining.

byereres and tobecco:

- boor and liqueure:
- cigarettee mainly for export.

Testiles:

- plain cotton cloth;
- synthetic fibres;
- ootton fibres:
- other clothe.

Shows and clothing!

- for men, wemen and children, and particularly for expert.

The and furniture

- formiture:
- uned shoote:
- other products.

Press and some producte!

- pages for duplicator;
- air mail and similar paper;
- elgaratte paper:
- transparent and abovetont papers
- eartheard besset
- enion paper.

Belding neoducte!

Charles Probete:

- sulphus and sulphusic asid;
- ureal
- formaldehyde;
- incecticides and posticides;
- fortilisers;
- pharmocouticals, etc.

Pricelous deciratives:

- gesoline;
- propens;
- asphalt;
- diesel.

Rea-metallic mineral products:

- expension of coment derivatives such as: antestes fibrosement prestressed products;
- now plants will be established to produce: refractory tiles paving tiles unglased pipes.

Dete setale:

The aluminium production is dependent on the Legislative Assembly's approval of a project to emploit aluminium bankite deposits. They will only become operational in 1974.

The Linksteine

Ponjects will be realised for the production of:

- 1000 14400
- norphysical and palvented tron shorts electric antors and transformers electrodes.

Please Principle and Palement of Principal Princip

	Number of Statestic	Police of production (Stiller Links)	
med	•	6.0	157
Paracelan	,	5.1	274
Interes	1	0.8	46
Tootilee	•	1,4	4 1
Shoot and elething	2	1.1	Last .
Head and weed products	4	3-0	ens
Paper and paper product	10 5	11.)	240
Loother and loother sendiate	1	6.3	6 0
Mentocle	7	21.4	501
Mea-motellie minorale	4	5-0	24
Danie metale	2	5.0	646
Rotal penduate	4	4.0	# 3
Electrical equipment	•	7.5	97
Others	7	1.3	136
	-	61.5	4, 791

Instantant!

The group fixed capital investment for the industrial context from 1969-1972 will assest to approximately \$177 million. The assest group investment will be approximately \$69 million.

Planne Instituted to Principal Property 1362-1372

	Nator of Majoria	Total invocations \$450-1972 (million \$ 0.3.)
Red	9	3.0
Brange.	2	2. ^
Pobasso	1	0.3
10011300	•	4. F
Shope and electrical	2	0, 3
Head god wood products	4	€.₹
Paper and paper products	4	7.6
loother and loother products	1	○.3
Chambeol e	7	20.7
Non-motellic minorels	er,	4.8
Repts metale	2	27.7
Noted products	6	2.4
Mostrical exignant	4	2.4
Magaza	7	0.8
	•	80.5

The total important in these industrial projects grounts to the cilitan for the fixed expital and to approximately \$25 million for the creatal. If, $\frac{1}{2}$ will be imported in motal working industries, $\frac{1}{2}$. If in approximately of intermediate products (paper, distinction, non-motalite minorale) and $\frac{2}{2}$. In traditional industries (food, termeque, totasse, testiles, used, leather, where and stotales, etc.).

Criteria for project evaluation and leasting!

General aspects to be observed for senject evaluations

- the effects on national and other encample sectors:
- possibility of import-substitution and diversification of experts similar at the stabilization of the belance of payments and of foreign exchange revenues;
- influence of the industrial project on the economy as a whole;
- financial, economic and technica. points of view of an industrial project;
- miantitative project aspects supplied by stabilisation;
- based on investigations of national resources, like mater, minerals, etc., usually essented by the Poverment, economic and technical viability studies are propared.

One of the main objectives of urban as well as regional planning to the adequate location of industries. The idea to to effect or better the geographic decentralisation of industry. There exist two special regional plans, one for the northern and one for the Atlantic region.

Efforte were also made for the creation of industrial estates showing various advantages:

- cheap land and buildings to be installed by the
- vicinity of complementary industries seres time and costs of supplying each other;
- provision of long-term credits and a low rete of interest for the purchase of land and buildings.

The Government elaborated a plan for an industrial estate which should be situated in Alajuela, but this project was not yet realised. On private initiative, a project of an industrial estate has been executed in Heredia.

There of Communications

- Interpretion Total amont Jank;
 Interpretional Designment Agency;
- Control Amorange Bank for Meneroka Integration,

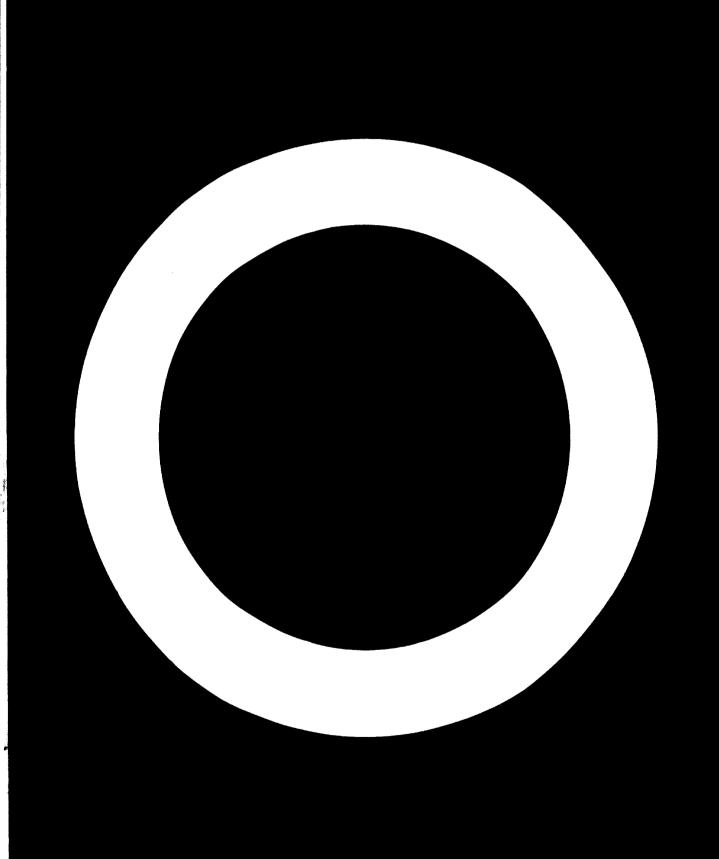
These andtitits me usil supply approximately 30 of the finds (86) million : remised for new sepjects through the 1969-172 person.

"No semestating 100 well be financed by demonstra second-secons

- The Retional Numbing System and Report Controportions to Integrartife Bookstee (MTS) in a Postonal basta;
- Copposarión lostarricanes de Pinameiastacto, S.A. (COPESA).

The parameter to parameter will requires

- Commette empttel: :ll militon;
- foreign equital: ** million.
- The state of the s
- 7. Stables armes sectioniles to the industrial section!



FURNARY OF THE INIXISTRIAL DEVELOPMENT PLAN OF THE HUMGARIAN PEOPLE'S REPUBLIC: 1971 - 1975

- I. Coneral background information
- II. Summary of the industrial development plan

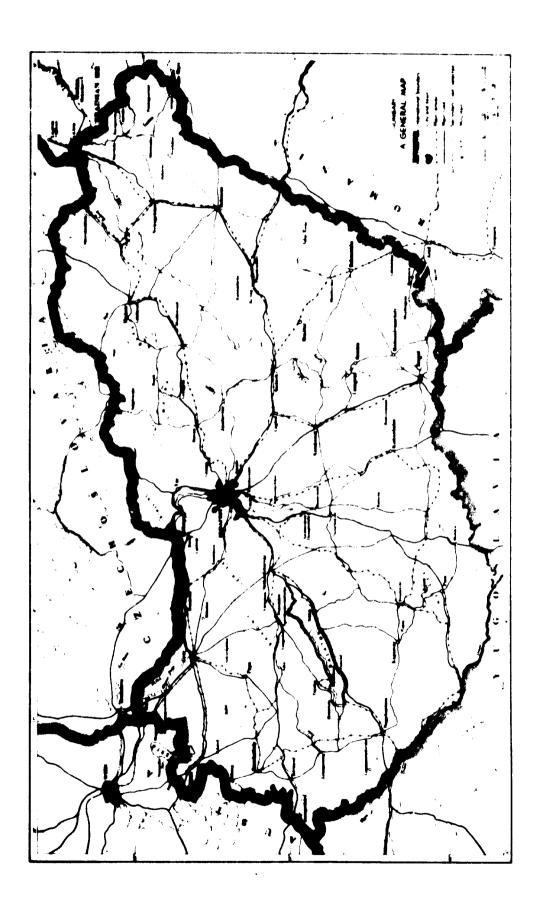
Annex: Planning techniques

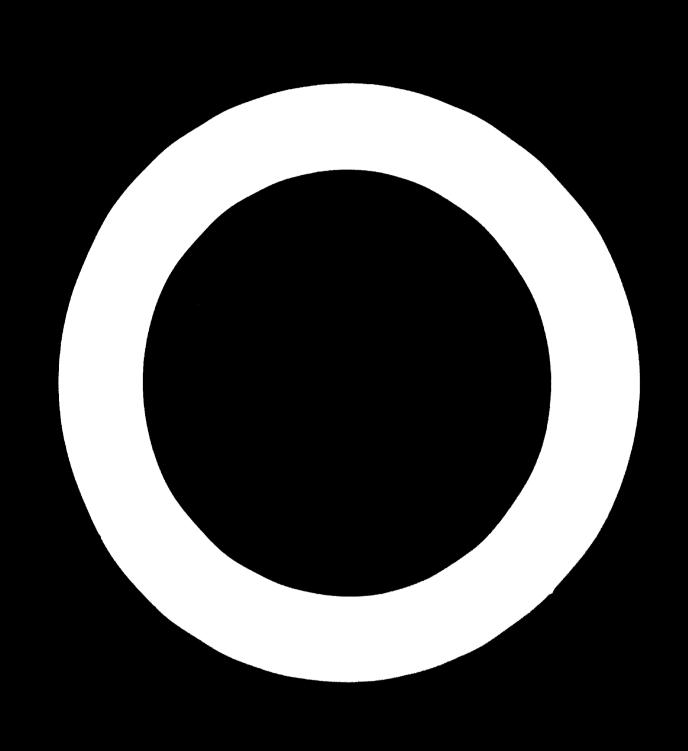
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^{*/} See also page 433.





1. GENERAL BACKGROUND INFORMATION

1. Basic statistics of the Hungarian People's Republic:

Area:

93.000 km²

Other data: Calorie consumption in 1968: 3,190-3,200

per capita/per day

Meat consumption in 1968: 54 kr

per capita per year

Per capita income in

1970:

\$500 (at factor cost)

Tourist exchange rate:

One "S dollar = 30 Forints

2. Population:

The total pipulation in 1970 was 10,314,000.

Employment:

There is full employment in the country, i.e. approximately 51% or 5,280,000 of the total population are active workers; 41% of the active population are female. After 1970, the activity rate will grow only to a small extent due to the slow growth of the number of women who can be drawn from their household into a socially organized framework; thus, the expansion of employment cannot exceed, with respect to male manpower, the rate determined by the natural increase.

96.2% of active earners work in the state and co-operative sectore where the means of production are in state and co-operative ownership. In the private sector, only about 3,8% of the earners are active. The state sector contributes 76% of the national income, while the private sector only 2%.

Sectoral Distribution of Worker	in 1969
Industry	33.0%
Construction	6.5%
Agriculture	28.0%
Forestry and water management	32.5%

Education and training:

The capacity of education and vocational training is rather developed and has good traditions. The extent of primary education and skilled worker training may be characterised by stating that in the school year 1969-1970 1,178,000 children attended the primary school (with 8 forms), meaning 98.7% of those in the corresponding age for whom schooling is compulsory. In the same year, the number of apprentices was 224,000, i.e. 4.4% of the labour force employed. The extent of the secondary and higher education may be characterised by stating that 31% of those in secondary school age - (or 337,000 students) attended day schools and in higher education 4.2% of the population aged 18-25 participated (79,000 undergraduates).

Educational capacities have been expanded substantially in the last 20 years. In the next decade, development continues according to the strategic aims of the plan in the direction of raising standards and improving the quality.

3. and 4. GDP and macro-economic indicators:

The economic development of the country, particularly the growth of industry, may be said to be fast. From 1950 to 1969, the index number of the global industrial production was 484, while that of industrial employment in the same period was 210. In the 20 years

[&]quot;/ Secondary school age in Hungary covers the age groups 14-18.

On completion of the secondary school, the students have to pass a so-called "maturity examination". Then they may claim admission to universities and other institutions of higher education.

from 1950 to 1970, the volume of the country's national income = rose threefold in a way that the contribution found stry increased more than fourfold (the index number being 44%) and that of construction more than threefold (index number 370), while agriculture could raise its contribution only by 16%.

From the domestic itilization of national income in 1970, 76% served the consumption and 24% the accumulation (gross investment); this ratio will continue, with slight modifications amounting to but a few points, also in the next decade. In recent years, about 18-20% of the national income has been used to increase fixed assets. According to the calculations of the plan for 1971-1975, this rati will grow at most to 22%, assuming that the part of accumulation to be used for increasing stocks can be somewhat reduced. In the last two decades, the main aim of the investment policy was to develop the branches of material production. In the last 10 years, these branches used about 70-73% of total investment allocations. The reason for this trend of economic policy was that the conditions for the economic expansion of the country had to be most argently created in the branches of heavy industry. In the next decade the plans follow partly a new strategy, supporting a stronger development of infrastructure and of the tertiary sector.

In the last ten years, the personally disposable real income increased in the group of manual and white-c llar workers by 5.5% on annual average and with the peasantry by 7.2%. The real wages of manual and white-collar workers increased more slowly: the average annual increase per earner was not quite 3% in ten years. The gap between the real income and real wages can be explained with the very backward social relations at the start. In the next decade,

In the methodology of socialist countries, the calculation of the national income sets out from the value of producte derived from the material production and deducts from this the current material consumption and the depreciation of fixed assets. The data are calculated both at the current prices of individual years and at unchanged prices as well. (in UN terminology: Material Product System).

the strategy of the plan aims at reducing the gap by increasing the growth rate of real wages by 0.5-1.0 points.

In 20 years, from 1980 to 1970, the consumer price index calculated for manual and white-collar workers rose to 205 in respect to foodstuffs, to 142 for clothing, to 132 for other industrial articles, to 127 for heat and lighting expenses, to 132 for services, indicating a total of 171. By European standards, the inflationary process was extremely moderate. It shows, however, some similiarities in the structure.

At present, about 7°-20% of the population's income originate from gainful employment and 27% from social benefits. In the case of manual and white-collar workers, the social benefits are higher than in the case of the peasantry where they amount to only 18 to 19% of the total income. The social insurance covers 27% of the total population.

According to household budget surveys in 1968, in manual and white-collar worker families 43.8% of the total expenditure was spent on food, beverages and tobacco, 14.4% on clothing, 11.9% on rent, maintenance of flats, fiel, light and housing construction, 9% on household equipment, 2.4% on hygiene, 6.2% on transport and communications, 6.3% on education and entertainment and 6% for other purposes.

Hingary has an open economy. The value of exports attains 40% of the national income. 61% of the total imports consist of sources of energy, materials, intermediary products and components. The open character of the economy increases and this trend is deliberately supported by the economic policy. About 65 to 70% of the foreign trade is transacted on the markets of the socialist (mainly CNEA) countries where the balances of both trade and international payments are in equilibrium. About 30 to 35% of the trade is carried out with non-socialist countries. In 1969,

Mingary exported commodities to the developed western countries at a value of \$024 million and imported from there go do totalling.

\$496 million. The balance of trade with these countries fluctuates; in the average of the last three years it has been positive. The trade with the developing countries is of a substantially smaller volume, e.g. in 1966, the combined sum of exports and imports was \$220 million. Of the exports to socialist countries in 1969, about 60% were machinery, transport equipment, other investment goods and industrial consumer goods. In exports to non-socialist countries these goods amounted to 23%, the major part consisting of materials, intermediary products, as well as agricultural and food products.

5. Industrial products and technology - main manufacturing industries:

At present, industry contributes 41% of the national income (MMP) and 38% of GDP. 33% of the total labour force are working in industry. About 80% of all exports are of industrial origin.

The growth in the global industrial production was accompanied by considerable changes in the pattern of production.

- ₽# --

	<u> </u>	will a		erene i	Products 10
irous of industry	1250	1269	1350	1989	
Mining	26.54	13.65	11.14	A . 46	12.86
Electric energy	5.14	K.R.	2.84	2.05	14.14
Wetallingy	11.7	A.RE	7.84	5.85	12.16
Total of metalworking industries Machine building Production of webicles Production of electrical machine	17.14 4.64 6.64 ey 1. 4	7.15 7.15 2.76	11.74 2.74	7.78	19.05 5.06 6.06 2.06
Telecomminication and was im- technical indicates Procision enganeering Production of metal mass product	0.64	4.64 2.95 3.84	2. 3% 1.4% 4. 4%	4.75 2.96 4.06	2.04 1.04 2.78
Building material and etry	r. 14	4.55	6.74	4.7%	5.48
Chamical industry	4.24	9.1%	4.64	6.25	12.14
fotal boory industry	69.74	70.1%	62. 75	4.4	75.74
Heavy industry emplishing mining	(43.24)	(56.7%)	(51.75)	(50. 15)	(62.94)
Motal of light industry Wood processing Paper industry	20. TH	7. M	2.2 1.0%	0.%	1.78
Printing	1.1\$	1.15	2. 3%	1.25	0.85
Testile industry Leather, fir and shoe industry	12.5% 2.6%	6.2% 2.7%	14.2%	P.65	6.6% 1.1%
Tortile remant industry	1.5	2.7	2.4%	4.1%	0.46
Other industries Handicreft and Rossereft	0.2	3.0%	0. 1%	3.7% 5. 78	0.15
Newy and light industries combine	M 20.4"	91.25	87.5 %	90.0%	AR. 85
Food industry	7.6%	P.24	12.5%	10.0%	14.25
Grand total	170.0%	100.05	100.0	100,0	100.05

^{*/} hate coloritated with the sid of product corice and other methods.

es/ Colemand by stock on Parenter 31, 1967, inclusive of the machine repair shape in agreeulture.

The grain steel production now should be 3.2 million tons.

There are 9 black and 2° open-hearth f makes. Ore and cokenown onto are mostly imported. The per capita crids steel consumption is, at present, approximately 300 kg, expected to rise to 360 kg in the next five to six years. The difference between supply and demand is bridged over by f reign trade. The major part of such imports still consist of "quality" steel. For some years, the trend of development points towards aspending the choice of more valuable qualities (alloyed steel, fine plates, sections, etc.).

The extensive expension of black furnace capacities has been pushed to the background, the main purpose of intensification is to reduce appecific cohe consumption and raise the productivity of the firmaces.

This trend will prevail also in the period of the fourth five-year plan from 1971-1075.

The performance level of the chemical industry, in spite of its being the fastest growing industry, is not yet satisfactory and due to a lack of saperity cannot satisfy the needs for products which could be efficiently produced in Hungary from the tachnological point of view. A traditional and highly developed export branch that of pharmaceuticals. The large-scale development for ide oil processing has been only an achievement of the last decade, as is the case of the greater part of fertilizers (the annual production is, at present, about 500,000 tons). The domestic production dies not yet cover all needs and presumably for the next six to seven years, the country will still import fortilizers. The utilisation per hostore of the cultivated area is 112 kg. A considerable part of the public processing and the plantic i dustries are almost completely new breaches (the plastic production amounts to 41,000 tons, imports to \$1,000 tons). The per capita plastic utilization is now 13.6 kg. A new trend in the chemical inductry is the importance given to products based on petrochemicals (sthylene capacities based on

petrol, then the creation with international competition of production capacities for eynthetic fibres and other ethylene-based products). An important objective of the development of the chemical industry is to secure up to date synthetic fibres for the traditionally highly developed and exporting garment industry. At present, still 70% of all fibres used are natural once and synthetic ones make up only 8 to 7%.

The domestic production (5,100 tons) is smaller than the imports (about 5,000 tons). The programme of developing the synthetic fibre production aims at substantially reducing the imports.

Hingary is poor in some kind of wood e.g. pine). Two third of the sawn wood requirements are imported. As regards decidious trees, the stock of the country is satisfactory (1.5 million hectares), because the plantations in the last two decades made up f r the war losses and even increased the stock. In consideration of the properties of the kinds available, the trend is t wards establishing the production of modern chipboard and fibrehoard producte, as well as building capacities for the production of cellulose to be derived from deciduous trees.

The domestic paper production is also smaller than the amount required. The production (250,000 tons) yields 25 kg per capita, the consumption is 40 kg. In view of the raw material problems a considerable part of the supply must be met through imports even in the future.

The large-scale construction activity suddenly raised the demand for coment and now the dementic production of 2.7 million tone is complemented by 1 to 1.5 million tone imported. Productive especities are relatively small also in respect to common glass short and thus the 9.1 million square metres produced must be complemented by about 5 million equare metres of imported shorts. The fourth five-poer plan provides for considerable development in both industries and sine of almost completely meeting the demostic demand by 1976-1977.

The private sected of developing the industrial structure based on the long-term strategy. I the economic private and continues to settly in such a strategy of present, calculate no are being present to to 1981.

It must be observed that, annualing to the general spinion of the stricture of the industry can be observed extensed with the end of the properties as any major branches only from a definite appeal. The branch appeal does not estimate all noneidered; he of the industrial policy relating to the attricture, since it is not sufficiently ecroses in its noneiliations. The stricture of the flaggreen industry ecrosepoids in the whole to that of countries on a state level of development, if this is measured by the groups of industry industrial in the table in page \$46. Its development follows the pattern of the none developed countries.

6. (manianate)

As pagents industrants, the najurity of the populationals are not by demostic specialism. The growth puts of investments in solutionly high, growing quicker than the national income.

Betribution of Immetants by Denotes of Bononomy as 1366-1469

Industry	37. 6\$
Seastewet ica	2.14
Applications, freestey and water represents	15.5%
Tograport and examinisations	12,95
Truto	3.0%
Public utilities	29. 1
Total	160,0%

Pattern of lawer - ante

	1950	1965	1969
Construction	64.6%	51.1%	56.8\$
Machinery and technological	27.4%	38.44	33.9%
equipment Other items	8.0%	10.5%	7.3%
Total	100.0%	100.0%	100.0%

The overwhelming part of materials, intermediary products and fixtures, are supplied for the construction by the domestic industry (about one third by the building materials industry, about 35% by other industries and the rest by the auxiliary plants of the construction trade, co-operatives, small-scale artisans and the population.

Of the machinery and technological equipment invested, about 60% is of a domestic and 40% of an imported origin. The metalworking industries are among the most important branches of the country employing 30% of the industrial labour force. About one fifth of the country's imports are destined, either directly or indirectly, for the metalworking branches. In some categories of the slectrical machinery, telecommunication and vacuumtechnical products, vehicles and machinery for food processing, the domestic production satisfies the demand raised by investments. As regards other products (machinery for construction, building materials industry, agriculture and the light and chemical industries), imports must be resorted to. The pattern of production of the metalworking industries is in a process of transformation, because both domestic and foreign demand are growing for sutemation slements, control equipment and electronic instruments in a dynamic way.

7. Industry - related resources and sectors:

Sources of energy:

In the development of the major industrial branches industrial policies had to rely up to now on the particular materials available in the country. The energy branches present a special picture.

The share of the domestic utilization in the basic sources of energy declines and imports are growing. In 1960, 81% of the total use was covered by the domestic production, in 1970 only 76%. Accordingly, the share of imports increased with the exception of natural gas where the production grow from 300 million cubic metres in 1960 to 3,200 million in nine years. The coal mining was characterized in the same period by a stagnation at a level of 26.5 million tons annually. Since the crude oil sitraction hardly increased (from 1.2 million tons to 1.8 million tons), imports more than doubled in these nine years from 1.5 million tons to 3.4 million tons. The supply of oil is secured from the Soviet Union.

As regards the pattern of consumption of the basic energy sources, coal represents 4% of the total, crude oil 30% and natural gas 13%.

The per capita electric energy consumption is now 1,700 kwh, the volume of production 14.5 billion kwh (20 years ago it was only 3 billion kwh). Electric energy is produced in thermal power plants with a specific input of 3,000 calories per kwh. The reduction of the heat requirements is a planned condition of technological progress. In the electric energy imports amount to 18% through the CNEA-grid. Further development continues with the construction of hydrocarbon-based and atomic power plants.

Minerals and mining:

The country is poor as regards minerals for industrial use, as well as in raw materials. Only its baskite deposits are worth mentioning, with an annual 1.9 million tons, Hungary occupies the 6th-8th place on the world list.

Annual Production (000 tons)

Bauxite	1,900	
Alumina	440	
Aluminium blocks	65	
Semi-finished goods	67	

Purther capacities are being developed with the exception of aluminium furnaces. To reduce electric energy requirements, a Hungarian-Soviet co-operation agreement was concluded for the processing of alumina; this enables the country to save annually about 1 billion kwh of high-cost electric energy and the savings in the investment costs of power plant and aluminium furnaces reduce also the general capital intensity of the economic development.

The main direction of development in this industry is to process the aluminium blocks to the greatest possible extent into semi-finished and finished goods. At present, the per capita aluminium used in Hungary is almost 10 kg and is expected to grow by about 50% by 1975.

Mein imports:

The role of imports is considerable in supply. Imports of (non-edible) raw materials amount $t \cdot 17\%$ of the total imports (exclusive of fuels), as is illustrated in the following table:

Materials from which Imports amount t

100° more than two thirds half to two thirds
of the total domestic stillization

Zinc

Iron re

Cake--ven oake

Tin

lead

PVC powder

Pyrite

Silphir

Paper p.lp

Ammonia sada

Soft sawn we to

Raw o w-hides

Natural rubber

Pit-pr ps

Cleaned wool

Crude phosphate

Caustic soda

Tinned plates

Newsprint

Coke for fundries

etc.

Cotton

Polyethy lene

etc.

Polystyrene

Crude oil

Pig-iron for foundries

etc.

Main exports:

(see Regional co-operation, including policies

regarding foreign trade)

Agriculture and livestock:

The domestic raw material resources of the Hungarian industry can be said to be good only in respect to some industries based on agricultural raw materials. The relations between materials of agricultural origin and the processing industries are not equally strong. The textile, leather and we deprocessing industries can rely on domestic materials only to the extent of about 50%. Only 3% of the total agricultural output is processed by the light industry. The traditional food industry, however, has established such close relations with agriculture that an integrated "food economy" bloc is emerging, in its total output, the agriculture and food industries are participating to about equal extent. The role of this bloc in the national economy can be illustrated with a table compiled with the aid of input-output analyses (based on 1967 and 1968 data at current prices):

Percentual chare	erioulture	Pood industry	Industry excluding food	Other
Global social products	16	14	50	20
National income (MPS)	19	9	49	23
Material consumption	13	16	51	20
Productive fixed assets	1 8	5	42	35
Operating assets	20	7	30	43
Non-productive consumption by the population and public bodies	17	27	30	26
Total experts	6	18	70	6
Total productive impor	to 8	8	74	10
Total of gainfully employed	29	4	30	37

It should be observed that 92% of the consumption of food and beverages are covered by domestic production (citrus fruite and coffee are fully imported, partly also tobacco).

In the food industry the major branches are related to animal husbandry. The branches processing meat, poultry, eggs and milk contribute to about 40% of the output value of food industry. The animal husbandry is of great importance for the Bingarian economy not only from the point of view of processing but also because there are substantial direct emports of live animals.

The Share of Major Articles in Food Exports

	1918	1960	196€	1968
Animals and animal products	43%	47%	47%	47%
Pruit and vegetables (fresh and canned)	r.¶	174	29¢	2F4
Coreals	29%	11	-	1%
Other plant products (sugar, etc.)	23\$	354	244	24%
Total	100%	1001	100%	1004

Thus, the development of livestock has always belonged to the most important questions of the Hungarian economy:

	In the average of the years 1911-19 1050-195 1961-1965 of 196				
Cattle of which come	1,788 914	2,000 83	1,934 804	1,976 744	
Pige	3,516	5,100	6,592	5,700	
Shoop	1,400	1,354	2,397	2,251	
Poultry (grown-up stock)	17,617	18,971	28,690	34,253	
Norses	819	692	342	236	

From the size of livestock and ite role in the economy derives another great tank for the agriculture: to produce fodder. Yields are still lagging behind the West Buropean averages but, apart from cattle raising and the production of rough fodder, they are increasing as a result of development in the agricultural technology. The yields in the rough fodder production have essentially remained on the pre-war level and this is the reason for the stagnation of the eattle livestock too.

- ". Overall economic development strategy and policy:
- 2. Regional c -operation (incliding policies regarding foreign trade):

In 1969, the per capita foreign trade turnover was \$390. The narrow basis of the domestic raw material supply, the small domestic market and partly the technological development pr blems characteristic for the moderately developed countries justify the widespread and dynamically expanding international economic relations. This requirement also affects, of course, industrial policies, since decisions must be taken on the products which should be developed domestically and also in the development policies best suited to meet export requirements in respect to quality, efficiency, etc. These decisions, however, are affected not only by industrial economics but also by other considerations: expected attainment of economic results in other branches, international political problems, etc. Hungary also has considerable foreign exchange receipts from agriculture, but the tourism is negligible and several revenues in the balance of payments, apart from commodity trade, are almost completely lacking (transport, profits on capital, etc.). Thus, the resources available for imports depend fundamentally on the export performance of industry and agriculture. Since imports are important, the national economic plane consider orientations which promote the continous expansion of the export markets. The discrimination applied for long years by the United States and the Biropean non-socialist countries could be counterbalanced only by a close socialist co-operation. This is the reason for the essential change in the last decades in the pattern of foreign trade.

Distribution of Imports and Exports by Countries

		Imports	•	Exports "		
Country	<u> 1938</u>	1750	1969	193°	1950	<u>1969</u>
Total	100.09	100.0%	100.0%	100.04	100.0%	100.0%
of which:						
Austria	11.54	5.7 4	3. ?₹	15.34	7.1⊀	2.74
Belgium and						
lu zemb ou rg	1.1	3.6%	0.5 C	C. 15	1.4%	0.74
Bulgaria	0.84	2.0%	1.67	1.00	1.9%	1.04
Csechoslovakia	6.7*	10.3≰	7.37	4.17	10.6%	3.57
German Democratic						
Republic	20.12	2.63	10.05	27.47	7.4%	10.5%
Republic Federal Republic :	of John			<i>€′•</i> 4.7		
Germany		9.94	4.4%		7.4%	5.6
Romania	7.54	7.09	2.M	4.01	7.74	2.0%
Soviet "nion	0.14	24.5%	37.04	0.1	25.74	34,89
United Kingdom	6.37	3.5%	3.44	6.17	೧.1∜	2.00
France	1.5%	1.5%	2.4%	1.4	1.17	1.49
Greece	1.24	_ `	0.44	0.3/	_ ′	0.4
Netherlands	3.74	2.71	1.4	1.6	2.14	1.27
Y:poslavia	4.5%	-	2.4%	3.0%	-	2.1
P≘land	1.4	7.74	6.14	1.7"	.24	5.61
Italy	6.3%	2.94	3.94	8.5%	3.4%	4.7
Switzerland	2.5	3.99	1.27	3.20	3.7%	2.07
Sweden	0.7%	0.5	1.54	1.0%	V 34	0.77
India	0.7%	-	1.05	0.75	0.1%	1.1"
'nited States	5.3%	1.₽₫	٠١, ١, ٠	2.4	0.77	0.47

Only the countries more important from the viewpoint of trade figure in the table. In 1960, Hungary imported from 77 and exported to 138 countries.

The changes in the orientation of Hungary's trade regarding partner countries had the advantage of solving a dilemma of developing the manifacturing industries, namely how can the substantial imports of raw materials, energy and intermediary products be counterbalanced by experting processed goods according to the endowments of the country? Conforming to this trend, such commodity pattern of exports has come about where 60% of the exports to CMEA markets consist of investment goods and industrial consumer goods. (In the exports to non-socialist countries, these goods amount to only 23 to 25% of the total).

In the last ten years also, trade in industrial consumer goods has substantially grown.

Production and Exports of Some Consumer Goods

	1969 in comparison to 1960			
	Production volume	Exports at current foreign sarhange prices		
Phereaceutical products	5.0-fold	5.0-fold		
Consumer articles of the metalworking industries	2.0-fold	2.0-fold		
Purniture	2.0-fold	5.0-fold		
Carments	1.5-fold	2.5-fold		
Household chemicals and commetics	1.4-fold	13.0-fold		

Pattern of Trade in Industrial Consumer Goods in 1969

(million \$ U.S.)

	Socialiet countries	Developed capitalist countries	Developing countries	<u>Total</u>	Distribution in \$
Total of industrial consumer goods	118.5	26.6	1.8	146.9	100.0
of which: Clothing articles Vehicles	16.0 33.8	7.2 5.3	0.6	23.8 39.1	16.2 26.6
Radio, televicion and household equipment Furniture	13.9 11.8	1.0	. •	14.9 11.8	

Pattern of Trade in Industrial Consumer Goods in 1)f.

(million \$ ".S.,

		•	Developing co.ntries		Distribution
Total of industrial consumer					
goods	351.0	82.9	29.3	470.2	140.1
of which:					
Clothing articles	160.3	49.2	19.7	223.8	4" • 1
Vehiclee	15.7	1.€	0.4	17.7	* • "
Radio, television and household					
equipment	20.0	2.3	1.2	23.5	* • C
Parniture	11.9	4.1	0.1	16.1	1.4
Pinished medicaments	75.4	0.1	೦.೨	76.4	16.3

It is the medium-term national economic plan that serves as a basis for regulating foreign trade, but the long-term orientation of foreign trade policies is influenced by social planning and international political prognosis.

It is an important principle of the reform of economic control and management that the administrative restrictions must be gradually eliminated. The right of licensing exports and imports, however, is retained by the Ministry of Foreign Trade. (Its main forms are: limit permits and individual permits, the latter mainly for commodities which are not "materials"). About 20% of the tirmover is transacted by specialised foreign trading companies.

having an international effect. These duties may be refunded or exemptions from them granted for reasons of either price or foreign trade policy. In the case of such exemptions or refunding the domestic price of the imported product cannot rise above the foreign price in forint terms with the aid of the "uniform foreign exhange"

official espienets in were implemented by a 2 version tenter.

The tentff is read in the Mr see's Toman letter new lead by about 10 countries. The tentff items are, without escaption, ad values rates, i.e. the duty to be part is established as a cotablished in consideration of production, taking into annual and representation, protection of production, taking into annual analysis prince and the preventing prince form.

Three rates tolong to each item in the terriff, i.e. the terriff has three notions. The third contains the mesimum, the extensions rates; these are applied to goods from no intrion think have not yet prented terriff reductions to Bingary e.e. SA, Portugal, the Republic of South Africa, etc.).

The second column c states the setes to be applied to countries which prest Rivery the enet few and maken sequent fitter assisted solices. This seems that solices, to be the test of periods to any solices, and severy so estended to every country which, either by agreement or by its sem determinents in, does the sems in second to Bingary; such countries are the Birogram countries with the exception of Portugal, Parties Canada, Australia and several developin countries.

The first enturn is the se-nelled profesential one. Asserting to the profesent of TWCTER, one-sided profesences (profesential) rates) may be granted to the developing countries. This depart that rates own lower than the one contained in the granted column may be applied and, by an intermetional agreement, this does not violate the processes of the most femoused nation element.

[&]quot;This course that in the ease of the dollar a coefficient of 60 and, in the ease of the souble, one of th is applied.

1". Serious for planning and plan implementation:

In Tingary, comprehensive annual plans, comprehensive fivever plans and recently a long-term (1 -year) plan are worked out.

In this framework, for vertain fields of branches also longer
promotes are drawn up (energy, residential construction, some
problems of transportation policy, etc.). The body directing
national economic planning is the National Planning Office. The
constrolling agencies of state administration participate in the
planning with a detailed elaboration of special problems
corresponding to their field of competence. The National Planning
Office is responsible for the comprehensive control of the work
going on and for its co-ordination on the macro-economic level.

After a fine isome by the parliament, the medium-term plans (and
the Government programmes belonging to it) are enacted as an
orientation for the economic policy. The annual plans are approved
by the Government. The long-term plans are just being drawn up.

As regards their substance, the economic plans are guidelines for artion, for the competent ministers. But the plan also has an obligatory ("addressed") part, meaning the programmes which the plan intende to be realized by using central resources (major investment programmes), as well as the international contracts, proposed in en-operation with the economic units interested but concluded finally on the Tovernment level. Of course, the provisions polating to the implementation of the state budget are also compulsory. The compulsory prescriptions instruct ministers or individual enterprises directly to behave in a definite way up to carry out certain development.

The objectives defined in the national economic plan do not appear, however, to the enterprises in general in a form of implementation, but their implementation is based by the state on indirect means of economic control: interest relations, economic temperature, state subsidies, financial and labour regulations.

These inflience the enterprises to observe planned behaviour not in a direct manner but by affecting their environment.

However, inder certain directmentances, the enterprises determine the contents of their plane autonomously 'apart from the exceptional instructions mentioned.

The practical tools of indirect nontrol in Mingary are the following:

- using the state resources for investment to implement economic policy. These investment decisions, taken centrally, amount to about 50-52% of the total investments. (This includes the financing of major industrial programms, residential construction, transportation policy projects, public itilities, social, health and aducational investments.) The other investment resources belong to the scope of decisions of enterprisess.
- influencing by control price policies. There are prescriptions for the forms of prices and for checking the prices. A few findamental products have officially fixed prices which also influence enterprises;
- regulation of an enterprise's income. This includes the system of tasation, the Poles relating to the formation of enterprise finds, subsidies, preferences, sto.;
- regulation of foreign trade, including the foreign exchange coefficients to be applied in enterprise accounting, the refinds is foreign trade, customs policies, export-import licensing, etc.;
- eredit policies, regulating the volume of credits extetanding, the terms of credit great and the preferred and not preferred fields:
- the state budget which, by regulating revenues and expenditures, provides a framework for the financial resources of the state and their use;
- wages and income policies, measures affecting labour management; establishing the framework for secondary and higher education; the direction and extent of central measures of the wage policy are formulated in common with the trade unions;

- 100 terimic Piec and legal grountstine affecting the trade in products. The building ip of leveragest reserves, the determinant in if temporary restrictions on trade.

The background of the enterprise's autonomy is constituted by the out financial finds of the enterprises, enterting of the effective and the part of profits remaining in the enterprise effection alterance and the part of profits remaining in the enterprise effection. These are revelly complemented by back effect and parkage also by state alterations. Enterprises have to fragment their face imposes consequent the retaining of ungestions there can finds.

11. Engliste annualisted through the appropriate size money

y in the extend terms, there my to also registerately bearance through the expense of their facts.

II. THERET OF THE INTUSTRIAL PEVELOPMENT PLAN 1971-1975

1. Inneral male and chierlyme!

(1) Pleased growth!

197 1770 Mettonel income per capita 1,000-1,100 800 (8 8.8.) Industry share per eaglic (8 T.S.) 500 (and indiang food industry)

The findemental source of growth in the national income (or GIP) will enatime to be indictor. Concepted to STP. the love) of the industrial production may often \$160-600 per

The index number of the industrial growth in terms of 029 will be about 140 to 1975 as against 1970.

of the indistrial products emilable - in 1975, AME will be of democtic origin and 20% will be imported. Of the total 14111000 5001

- grd will corve the productive consumptions 198 the communication by the populations
- . A public consumptions
- 75 teresteentes
- . If to increase states and

of the CEP extensio fee 1970 and journity with the executively essert, A. fearest.

on/ In tests of the photos production value, at everant prices.

Saior Indicators of the Pourth Rive-year Plan

	Index number 1 /7' been year 1 /7'	Annual compound rate f
Origin of national income (MMP) at 136" prices of which:	132	* .6
Industry Construction Agriculture	136 142 116	6. ⁶ 7.2 3.1
"talagetson of netannel ancome	130	5.4
Congumption of which: Congumption by population Other non-productive consumption	130 130 134	5.4 5.4 6.0
Accumulation of which Increase of fixed accets Thanges in stocks	131 133 121	6.€ 5.9 3.6
Tinbal sectal product of industry at 1968 prices of which: Tining Electric energy Total longs	132 107 145 12 4	5.7 1.3 7.6 4.4
Total unpling indicates on the state of the	111 105 153 114 122	*.9 ?.2 *.9 &.C 4.1
Construction at 1068 prices	142	7.4
Approviding production at 1969 prices of which Plant outsides in Animal Dichardry	11° 11 6 122	3.4 3.0 4.1
Agricultural production (five-year averages of 1966-1970, 1971-1975) of which: Plant multiwation Amonal husbandry	145 114 117	2.3 2.7 3.2
Real per sepite income	127	4.9
final magne per narmer	118	3.4
Potential consumption by the population at 1967 of absolut Productiffs (Totaling Industrial apticles Productive appricas	129 116 136 147 113	5.3 3.0 6.3 7.9 5.8

Major Indicators of the Pourth Pive-mer Plan (continued)

	Index muster 1975 here year 1970	Annual compound rate of
Retail trade at 1968 prices of which Productuffs Catoring Clothing Industrial articles	140 135 130 137 151	7.0 6.2 5.4 6.5 8.6
Investment of the excisist sector of 1968 prices Employment of which Industry Construction Agriculture	132 106 108 115 90	5.7 0.7 1.5 2.8 -2.2
Production per man/year of which Industry Construction Agriculture	126 189 185 134	4.7 4.1 4.6 6.0
Noticeal income per person employed of which Industry Comptruction Agriculture	126 126 134 130	5.1 4.9 4.4 5.4
Poreion irade Rouble accounts: esports Rouble accounts: imports Dallar accounts: carcets	143 150 135	7.4 8.5 6.2
Dollar execuates importe	129	5.2

'ii) Other objectives:

2. Strategy and policy:

(1) General:

The strictural objectives of industrial policy intend essentially to continue the direction followed in the last 2 to 10 years and reckon with deviations only of smaller importance. The reason is that according to evaluations made, the development trends of recent years have proved to be correct.

The following structural changes are relatively clear in the plane:

- the transformation of the balance of snergy of the country in favour of hydrocarbons;
- the development on an efficient scale of chemical processing capacities based on the domestic refining of crids oil and on the extraction of natural gas;
- quick development of bauxite and alumina production and of aliminium block processing capacities:
- a growing participation of industry on the consumer goods market since the level of the per capita national income and the accompanying purchasing power indicate that in 5 to 6 years the outlines of a "consumer" society are to emerge in Hungary. Accordingly, the structure of the market will somewhat change and the weight of some industries in the consumption by the population will grow (construction, metalworking industries, furniture industry, some branches of the textile industry, as well as the chemical industry).

Owing to the "open" character of the economy, the plan reckons with an expansion of industrial exports. Since the participation of industrial articles in Hungarian exports is already high, a considerable increase in their share is not justified. The index number for the growth of industrial exports is 44%.

The plan does not recken with any serious change in the pattern of exports by aggregate branches, nor does it provide for considerable changes in relation between exports to countries with accounts kept in roubles and in dollars; it aims at a stabilisation of the ratio of 65-70: 28-30.

Since the planning of reign trade is the least exact, owing to several factors of incertainty, it must not be excluded that some countries will play a part different from the one envisaged in the plan. Depending on possibilities, it would be favourable for Hungary to increase her participation in the markets of developing contries with deliveries of machinery against imports of raw materials, semi-finished goods and partly consumer goods. The telecommunication, precision engineering, vehicle production and machine to 1 production capacities of the country are particularly suited for such a role, but the country is also well prepared to design and deliver certain kinds of complete plant equipment.

Owing to the small size of the country's economy, an ever growing part of the industrial production must take place through an increase of foreign trade; firther, demostic production cannot be carried on in the whole range of industrial products required; in fact, so long so the country does not develop into an advanced industrial stage, its imports of industrial products will remain greater than its exports. Owing to this situation, the foreign trade aspect of the Mungarian industrial development policy is equally characterised by import-substitution and by export promotion. The conception must not be based on the principle of either-or. Alternatives relate to the size and to marking out concrete development objectives in either importsubstitution or emport promotion. Besides, the orientation of foreign trade by countries is also important. If we wanted to stress the trends of development, then, in comperison to the present elituation, the import-substitution character is

extragge in the development of the chemical, the building material and to a smaller extent, in the paper and pilp industries, while the expert prientation is stronger in the development of the metalworking, textile, leather and gardent industries. Since, however, it is a common feature of every Mungarian industry that they are incapable to develop their spectrum of products in a self-sufficient manner, almost every branch is characterised by conversion through foreign trade, i.e. export-import turnover. If the characteristic features of foreign trade in respect to industrial products and those of the major branches are approached with the aid of an imput-nutput analysis, the proportions of the individual groups of products in trade will be indicated by the following figures:

Moording to the Hungarian classification of industries, cooleding the food industry, e.g. pulp and paper figure in the light industry, aluminium industry and oil processing in the chemical industry. For lack of data the analysis could not be performed according to the SITC classification.

Share in Foreign Brade, Salculated on the Hass of the Inpit-outset Inalysis

	Trade accounted in			
	1970		1975	
	roubles	dollars	roubles	dellars
Total imports of which: Industrial	100.01	100.0%	100.0	100.1
	93.0%	74.44	ા4, ત્ય્ર્	76.0
Total industrial imports of which: Mining products	100.0%	100.05	100.0	100.04
	12.74 2.8%	1.2%	12.5 % 2.8 \$	1.₩
Electric energy Netallurgical products	12.6%	15.6% 26.8%	13.7%	11.4%
Engineering products Building materials	2.6%	4.00	2.4%	1.54 33.54
Chemical products	13.5% 12.9%	20 .4% 20 .2 %	14.2%	21.25

Share in Foreign Trade, Calculated on the Basis of the Insut-outsut Inclusion

	Trede eccounted in			
	1970		1975	
	solpje.	dollare	roubles	dollers
Total exports	100.0	100.0%	100.0	100.05
of which: Industrial	80.3%	62.0%	82 .5 ≸	63.0%
Total industrial exports	100.0	100.0%	100.0%	100.0%
of which: Mining products	2.2%	0.6%	1.7%	0.3%
Electric energy Notallurgical products	5.6%	30.3%	6. 3%	22.4%
Ingineering products	61.0%	25.45	60.0%	30.0%
Building materials	1.0%	1.9%	0.8%	1.7%
Chemical products	11.7%	14.4%	12.1%	19.5%
Light industrial produc		27.4	19.1\$	26.1%

Incentives used by economic policy and other tools:

The regulating tools of the state affect the enterprises in Hungary favourably. Though autonomous, the enterprises are in contact with the central planning agencies: they use the national economic plan for their information, know of the Government's development ideas, they have participated in the conclusion of international agreements, etc. Should some enterprises still behave in a way contrary to the objectives of the industrial plicy, e.g. n t respect their contracts, reise prices in an injustified manner, carry on irresponsible financial policies, etc., 'he Tovernment may interfere with enterprise management and, if necessary, relieve the executives of their duties.

Apart from the grave cases mentioned, the enterprise's behaviour can be influenced, of curse, also in an indirect menner by taxation policy, various forms of subsidies and other promoting or restrictive measures.

According to Mungarian experience, the discussions between the state and the enterprises are not important or rather, from the point of view of economic policy, these are not of major concern.

Major difficulties are not caused by caring for the protection of legal and other interests of the population.

This is solved in part organisationally, e.g. various quality control institutes, Bureau of Standards, etc. and special control agencies, e.g. the People's Central Control Committee and in part through proper legal measures. The latter constitutes a rather strict and traditional system.

The planning and use of resources concentrated in the hands of the state, related to preferences serving partly direct Government decisions, constitute such elements of economic policy that are more difficult to survey and can be used with great efficiency.

As regards the system of preferences, decisions are taken, relying on the preparatory work of the planning agencies, by the Government or its Economic Committee. These decisions appear in the form of directives with several years' validity. The Government deals with individual cases only if they are of major importance, e.g. if they seriously affect the development of certain big enterprises or influence the population with their bearing on prices or wages. In other matters, decisions are taken by financial bodies (Ministry of Finance, the banke) or by operative expert committees consisting of representatives of the ministries; the latter exercise their activity within the framework of the directives issued.

The types of decisions requiring Government action when applying preferences to the development activity:

- investment subsidies; they may relate to concrete individual cases and to guidelines, e.g. regional development;
- credit preferences; these are designed to attain a definite system of objectives in the framewor: of which the decisions are taken already by an operative process and are not referred to the Government;
- wage preferences:
- tax reductions and exemptione.

Another set of saterprise preferences is aimed at counterbalancing the benefits affecting the population (mainly of the price type) and the consequences of which are borne by the Government (the budget which is drawn up accordingly). The retail price of meat is lower than total productive inputs so that the meat industry needs to be subsidised. The situation is similar in the production of bricks and tiles. Certain services are also subsidised, e.g. urban transport, in order that prices need not be raised.

Preferences and other immediate individual decisione stimulating the economy or the raising of living standards require an expansive monetary policy. In this respect, however, policy and other or nomic policy control not only the inflation due to internal causes but also restrict external effects (the inflation policy in through exports and imports. It should be obvious, however, that the extent of the latter will in fiture be influenced by the inflation rate in the developed European countries and in the world as a whole. In the fourth five-year plan period, the sc nomic policy is predominantly arti-inflationary.

(11) Mann. wer and productivity:

The planned growth of industry 'excliding find; will be accompanied by an impleyment growth rate of about 7.5 to 2.0° between 1971 and 1975 so that the industrial employment will rise to about 1,700,000 by 1975 in comparison to 1,500,000 in 177. This rather small rise is a novel feature in the history of the five-year plans. It has a double reason: first, the immeraphical situation and the over-employment in industry slow down the migration of the population into industry; secondly, the level of technological standards attained and the qualifications acquired have created the conditions for a quicker growth in the productivity.

(iii) Investment and capacity italization:

Between 1971 and 1975, about 500 billion forints will be invested in the national economy (at current prices, excluding private investments by the population). In dollar terms, this amounts to about \$17 billion - . About 42%, i.e. \$7 billion, will be invested in industry. Of the 500 billion forints, 52% will be structures and 36% machinery. About 44-46% of investments in machinery will originate from imports (53% from the rouble area and 47% from the dollar area).

[%] at an exchange rate of 30 forinte - \$1.--

Toleral dead at emphasis to price, the betal terminate over the five power will be abled to the tell between them in the presenting five power. Until the figure, industrial investment so to grow to about 1A-Ard. The relative observe down may to employed by the fact that the plan deliberately increases the growth rate of some infrastructural investments (particularly executable) emphasis, and the same time, the end important executable observe in the planning of investments as energied with provious plans.

In indicate of investment and investigation of a since rate than total investments and since than indicate a product in (in SEP) assume that the incremental agental integer rate will be one forestable than in the preceding 5-10 pages. The planners will be following too forestable.

- the pattern of respetant will shift towards the less expital-intensive brandson
- there will be procted precibilities for applying more intensive authors of descionment.

Incommence in the Servation Dates

	Third Commence and	Anuella Culturalista	
?n&setey	en. Mil	ye. of	
Sugatoust i on	2.75	2. 👊	
Appeniation and Property	15.05	13. W	
lighter equipment	4.16	5.16	
Transport and enterestables	13.45	12.46	
Truite	1.4	1.4	
Perductive bequetes	7%. 18	76.15	
Brangenductive begantee	26, 75	19.46	
Reserve	•	4.4	
Potoi	100.4	100.0	

En role of the state is the allocation of investment

This is one of the most important disstins of the economic and industrial oclicy. The possibility of a dissect decision by the state extends to about 50-2% of all investments by the population.

Promatly, the state assects this possibility in three ways:

- by tering a -called "individual investment"

 because; these are may r investment

 prients prepared by careful centrally
 initiated investigations; they are submitted
 for decision by the competent ministers,
 in agreement with the National Planning
 Office; their agreement wo' me agrounds to
 ghout 20-21% of the total investments;
 The decisi n is taken in the first instance
 by the Bronomic "committee and then, after
 agreement by the Tovernment, they are fitted
 into the national economic plan with their
 major parameters (within the resources used
 in this way the industry represents about

 16-17%);
- by taking decisions on the so-called
 "involuents grouped according to targets";
 those are limp sums amounting in their aggregate
 to about 21-22% if the total invoctments;
 the decision procedure is as with the first
 groups they relate, however, not to individual
 projects but to certain complex tasks as the
 housing programme, the railway block and the
 reliway network, certain mater management
 tasks, advication, health service, etc.; the
 decision determines budgetary allocations to
 be used for those purposes;
- A smaller part of the total investment funds (chant 8 %) is given to the ministries for those discound by denoting the direction of their utilisation. These financial limits gro fixed in the plan under the title of "other state investment". These sime are ised, as a pule, for subsidising investments which and amportant from some point of view but in a field where him resources are negroe. this group belongs also the special investment pagest granted by the Netional Board for Postnological Development in the interest of testmological progress; in real value, it counts to about \$20 million over five years. The investment funds serving the regional represent may be classified in this groups as funds are handled by the country councils in a decentralised menner to support the

enterprises participating in the industrialisation of the country side according to a plan resum op for this purpose,

In an indirect manner, the state also influence investment decisions taken by the enterprises, i.e. through the credits to be granted by the state banks (the Sational Bank, the Investment Bank, the Private Trade Rank). The behaviour of these banks is regulated by "directives of credit policy" worked out and approved as a supplement to the annual plans. (In addition, there exist, of course, also many other kinds of effects involved to the investment activity.)

The problems of allocating resources are, of course, wider in scope than the sphere of investments. This is due to the fact that the state takes upon itself much under takes than in non-socialist countries in the fields of social policy, education, subsidising the population's consumption, etc.

Therefore, the role of the budget is also greater in the allocation of resources so that large revenues must be controlled. This is secured by the state mainly by taking away income from the enterprises 'as regards the conomically active population, as income tak is applied only in the high income brackets but even the sim of those is negligible). There are taken (levies, charges) on the factors of production (fixed access, the wave bill) and also interest has to be paid on the state resources lest out we gradit.

The present system of taking production factors gud profits is frequently criticised from the practical side but also some questions of principle are still under discussion to reduce their inherent contradictions to a minimum. One of the contradictions is that the social sout of labour (glove rages) is greater than what is collected by the bright. In other words, as reflected by the takes on rages, labour for enterprises still seems to be "changer" than its real cost. In principle, the method of testing spects engaged by the

concerned may be characomped annoyaling to which the hamile for modeling set the "releases on greens engaged" is the second as the second of fixed assets. The release resolventing the second of remaining profits by the enterprise after taxes seem to be two regard. By all probability, these two questions to be solved at a during the period of the fourth five year plant.

IV) Jahoneussestung between grunts feetung:

" The bear and it is the table

4. Classed or its findustrial section:

(1) Pleased growth . Complete turing sectors.

An obtaining program of industries days, paint a planned for the champed industries. The per replacement of the walls constrained in Ringery handly extend two thirds of the walls in the EP constrains and the self-extending fibres is largery behand in respect to the subject y composition. Along the formulation of members of constraint for and subject of the subject

According to the outliness of the expert somether tealing with the members of the shomens industry, between \$170 = 175 the damped for element; products may be expected to rise at legal by \$4-55\$ (inclinate experts; and the per expits demontic communities of element products should also grow by at least \$7\$. The development plan of the charactel industry has been drawn up an a way that in those five years about \$5-70\$ of the total investment in the observed industry will be concentrated on Four Expense:

- procedure only whose elefter expectation will be expected, then the products will be proceeded to prigness and comparis basic expectaging the expectation of contain groups to description will also be incompassed.

Ports seen production, tomethor with the so good production of suph random sees the sees of the production of suph random sees to a see the sees of the sees of sees of sees of sees of sees of the production of synthetic falses are seen to the sees of falses and suph terms of the sees of falses and suph terms of each sees of the
From the programmes listed, the first and the fourth car so impromented may within the framework of a homeour integral, inc.

Which is associated as most an integral of the integral of the inspection against an expectation options and of the inspection opens of integral time cannot be a small or any they way.

This was and the min working and alress to my already t the traditions indicateles of the assets. Total jump in still characterised today by nachward tentanings and some hotticumbs. The everess size of hight figuress is the minis process is not yet the syed in the steel production. the sem-morth firmenes are fig necessity of only so-1866 time. ate. At the same time, it is a realistic emeteodiction that the demand of the home market is shell or than a sid to experied with light amount or each respectition. To solve the spinishe, a inseterm 'l'-year plan has noon sorted o t. Its mass none juston was the papertion of extentile notations and the necessity of of see co-secrets which the 'Will a interce, As regards the estant and mothers of integration, soveral residents are westige to be discussed at meetings at the intermediane! level. Approveding to the experts, the decisions to be taken will determine the development programmes for about 20-30 years. Hongary saturds to never out services town together to political mails Page 62 ng the equation to a ted to specious specializes and terminary products. In addition, quality requirements are put into the foreign and in the processing stages and to this end, anderstage into Pil: offent in the for the five-year pien period. The top the table for the state of the period will organize from imports.

The demand for state any to estimated to piec to the interest by 1977 and for polici state to the piec to the fact that the state of the state product in the limit of the fact that the state of the state product in the limit of pieces. The demand grown papers of the state product in the limit of the next five years also for the track of the product of the state of the state of the product of the state. In the next five years the state of the state of the state, and the next five years the state of the state of the state.

The down among programs of the matter Philosophia attrice mode that from a retimer different all ation. These are tradity to complete and oterior to the mesery and or confirment the prior, at well a to advantage a 1" this character of 14 to reinf poet, At present, when the of the vilims or the distance in experience this is emperted to pine to about WE. At the same time, the present 324 share f up reed machinery in the title timestic it yet in to also bound to grow and reach to east to in five reach. south f emisting, poletively by all reportions, in environments beanches to a t fally see those preside states, productivity \$-00 and ottors even he f filed in the devel ped lest Burdpeer sount rice, technological program of allower than idearable main nuting to energy-rated efforts to rely in dismosts, research, and the perturbation in the merbots of non-nonlater ntries is commissionally emailer them would be werrented by the scape of senduction. The share of engineering products is als one on the consumer market: hardly and of ato attend in a od t the population.

The follows from the above that the development policy of the Suggestion extellecting industries does not intend to apply extensive methods but wants to improve the performance mainly of existing expensives. The tools to be used are tenin logical progress and endominants in of the structure. As a part to f plantage investments, the per agents at int. If the centerical

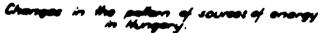
equipment will prove by about 10% and the acrapping rate of the machinery and the equipment will reach about an annual of, approximately 30-35% of investments in this branch will serve the development of a more favourable pattern of products. The production of webscles, precision engineering and the telecommunication industry will grow quicker than the industry group in general. In the plan period the Tovernment sine at supporting the development conditions of the technological progress and the development of the product pattern with proper licence policies, international contracts and a wider ecopo of sithness greated to enterprises.

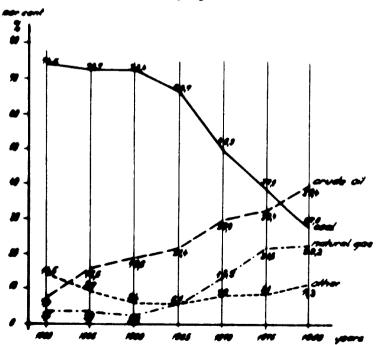
De textule, textule germent, the leather germent and the firsting industries satisfy the overviolating part of the total demand by the population and are also a one the significant emport branches the role of imports from these goods is negligible and serves mainly the expension of the range of choice). Reports are significant to both socialist and non-socialist eventries. Their role will not district in the next five years; in fact, experts will grow dynamically for some groups of products. e.g. reedy-made garments. The performance of these industries will improve between 1971-1975 by about 35-39%, about at the same rate as the global industrial production. In most of these branches, skills and tastes are traditionally developed but the technological progress has only occurred in recent years. In addition, the various basic materials (fibres, plastice, wood products, testile febrics) are not sufficiently up to date. Therefore, in the majority of branches, the development requires reconstruction, the erection of new especition and, in respect to knitweer, also the building of major new sepecities. As regards the equipment in the majority of branches, this must be imported from western countries; the development policy, therefore, aims at increasing compt setuses.

The food processing industry is a traditional export branch in Hinrary and, in addition, it almost fully satisfies the demand for food of the population. (Exceptions are the products that cannot be produced in the country: citrus fruits, coffee, cocoa, soybeans, etc.) The conditions are particularly favourable for the development of meat processing, wine production, milling, vegetable and fruit canning. With the exception of the milling industry, these branches are also being developed to increase exports. Retween 1971-197°, the total food processing industry will increase its production by about 25%. In consideration of the elasticity of export possibilities, the growth may be even greater if an increased demand is felt for processed food.

(ii) Planned growth of energy:

The transformation of the balance of energy is an important condition to increase the economic efficiency. The programme worked out for this purpose covers the period up to 1980 and the etructural changes intended may be illustrated in the following graph:





(111) Pleased worth of Blaues!

Sayond the sources of energy, sining of sintrals will be developed in Hungary only to increase the baseite entraction.

In respect to other minerals the natural deposite are so searce that the country has no major development possibilities.

(iv) Priority of sectors:

(v) Infractructural archiera accepted min infracture

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ANNEX: PLANNING TECHNIQUES

Application of mathematical modelling methods in the Europeine

applied in Hingary for about 15 years. In harmony with the development level of the country, considerable structural changes have been put on the order of the day so that attention has turned mainly to the application of input-output models and programming belonging to the family of linear economic models.

In the first half of the sixties the impit-mitput model (analysis) stood in the forefr at: the drawing ip of impitoutput tables containing planned figures has become an organic part of planning and now occupies a central place in the plan co-ordination. In the second half of the nest decade emphasis shifted to the application of programming models, mainly as a result of the work of Mr. Janos Kornai. In this process, a particularly important step was the practical realisation of the so-called two-level planning (two-level national economic programming) coupled with the third five-year plan of the country for 1966-1970. (See Bibliography in page 423 J. Kirnai: "The programming model of the national economy....." and S. Mger: "The experience of two-level planning in Mingary..... In the course of research a model was worked out to progresse the economy on two levels, meaning the sector level and that of the national economy. The purpose of research was expressly a methodological experiment. However, it greatly contributed to the fact that a wide circle of experts (planners, economiste, engineers, etc.) have become acquainted in the course of this emercise with the methods of programming.

At present, the application of programing in actual planning work has come to the fore. The practical application is characterized by the following general features:

- a combined application of aggregate and disaggregated programming models in planning;

- mathematical programming is used in a way that it becomes a part | f planning: it is built into the planning pricedure;
- the mathematical models saited for mediam-term planning are gradually complemented with meth docalso saited for long-term planning.

1. The accreate and the detailed disaccregated, programming model!

The aggregate '23 sector! linear programming model f the Bungarian national economic plan is based on an imputout table of eighlar size. The <u>wariables</u> of the midel are the following:

- production with existing capacities;
- production with reconstructed capacities;
- producti n with newly established capacities;
- imports accounted in reables;
- imports accounted in dollars;
- exporte accounted in roubles;
- exports accounted in dollars.

The types of constraints applied in the model are:

- product balances;
- (financial) inventment limits;
- limits on machinery to be imported, separately for noible and iollar:
- limits on medium-term dollar oredite;
- mespower limits;
- natural limits;
- capacity constraints;
- emport constraints;
- import constraints:
- balances of foreign exchange in roubles and dollars.

The alternative objective functions of the model such empress an important aim of the sconomic policy. Owing to the degree of aggregation mentioned and to the structure of the model, it serves mainly for an analysis of major expectural changes in the first stage of drawing up the modium-term national economic plan when the main task is to formulate the main directions and concepts of the plan.

The possibilities inherent in this type of model were already proved in the experimental pr gramme calculations coupled with the drawing up of the third five-year plan for 1966-1970. The first major success of model calculations is related to the first etage of drawing up the fourth five-year plan for 1971 to 1975 when several alternative plan variants were worked out which, from some point of view of the economic policy, deviated from the guidelines followed in the course of planning (see Bibliography on page 423 Zs. "jlaki: "A programme-variance servere a IV......"); these clarified for policy makers the possible consequences of their decisions.

Aggregate programming, however, conceals esweral equilibrium problems which are to be found in the details of economic processes. Therefore, in addition to aggregate programming calculations analyses carried out with a larger model are also necessary. These calculations fit into the second stage of drawing up the medium-term plan when the plan is finally worked out and co-ordinated.

Methodologically, this requirement is met by a disaggregated programming model built upon the experiences with the 1966-1970 two-level programming model tested which calculates the production, investment, foreign trade and financial interrelations of 200 products, 63 industrial branches and 13 co-ordination branches. (See Bibliography on page 423 Morva and Bager: "Principal Peatures of the Mathematical Model....").

This is a full-scope model both as regards ite dimensions and finctionally, covering every branch of the economy and every essential part in the economic process; production, distribution and consumption.

The model also solves the methodological problem of coupling the value calculations with those performed in physical units of measurement. The physical interrelations expressed in the product balances are linked to the value accounts. The value relations among the branches are expressed in the model by fitting in an input-output blue comprising 13 co-ordination sectors.

It is a firther important feature of the mode, that it adopts itself to the requirements of the prevailing system of economic control and management ithe Ningarian reform of the mechanismy. The model does not expressly serve for analyses of the elemente of the system of control and management. Termited to its accounting for the major financial and regulating interrelations, it does not simply determine the ptimum allocation of resources representing the structural conditions of the economy investment resources, management, natural constraints); rather, it comprises also certain elements it the "economic behaviour"—type models, since the large—sole mode examines the optimum allocation of resources and the conditions of implementation in a combined manner.

As remarks the concrete structure of the model, it contains, in conformity with the general feat readisted, several new types of variables and conditions in comparis note the appreciate model. Such are the financing variables which represent e.g. the means necessary for investment and current production, further the variables for income regulation, representing the incomes of the pollation, the variable some necessary for investment and surpresenting the incomes of the pollation, the variable some finds in the model. The model comprises 1, 400 variables and 1,7 to natraints.

Practical calculations with the disagreerated mode; were carried out in the second phase of working out the fourth fivepear plan for 1971-1975, in order to co-ordinate the plan in detail and to refine concepts after these had been formulated. In the course of the calculations, the following objective functions were used:

- maximisation of additional consumption by the population;
- meminisation of the balance of trade surplus;
- maximisation of the profits in a branch;
- meximisation of the budgetery surplus.

the expression onto the descriptorated one, the problem was actual by using both a data with different price assigned.

The each. A molistical and actual control of the opinistical results use alread at. This present is transment of the subject proved to be sefer.

The remitte arrived at unity the end of the server of neighborne performed with the ten endeds may be example up in most general terms as follows:

- The received for an analy growth to be disclosed by observed in the pattern of grad office and foreign trade are still conclusional in the en a dy.
- The emplication of passerse, as abil as the principles and sequipments of the new entended perioding system do not employed each time.
- to separate the methodological experience with the exercise, the most important to that the enders consist the tenders of conditions for the nelection and evaluation of plan terrante and that they stimulate planners to exact ness in the engenties analysis.

2. Seed of a tool of setuped separate sleening

initing in an iterative process the traditional planning and the authorationi programming procedures reviewed has been exceed at improving planning with in a may that programming about the organisability fitted into the planning process. This is exhibited if:

- the major methodelograph (quantification) principles of trustional planning and methodelographical programming agrees with each others.
- the information serves of traditional planning and mathematical programming are the ease.
- the planter participate in the interpretation and utilization of ecloulation resulted
- the ten processes take place executesmosty if the enjoy deall large extention.

For the present stare it is characteristic that the first and third servers can be followed; while those index the second and fourth inly partly. This causes cortain difficulties in regulation of work, e.g.:

- An regards the second condition, the data collected by the external experts, as well as by those of the Planning Office should reflect the planners' ideas formulated in the given phase of the plan co-ordination.

 The bringing about of necessary harmony reases problems in connection with data originating from external experts (those working in the functional and branch regard and in the enterprises) with respect to exactness and interpretation.
- As regards the fourth condition, simultaneous traditional planning and methomatical programming reason difficulties since the expoundance of applying the models (arranging the date into a model, the expuring of computer facilities) are always such that a small lag emerges between the phases of the two kinds of work. This lag against difficult to evaluate together the smalles of the traditionally compiled plan and of the methomatical programme; this seduces the possible affect of the apthematical programme on decisions to be taken to the next phase of planning.

Appropriate to proceed apportune, the simultaneous application of programming is also made difficult by the fact that the data compiled in an intermediary phase of planning to the traditional manner are mostly not consistent: owing to the appropriate out immediately. Making the data collected consistent takes time and this mist necessarily procede the collected term and this mist necessarily procede the collected term and that the stage where the consistency of the data to that the stage where the consistency of the data to consistency of the data to consistency in the consistency of the data that the stage where the consistency of the data the collection performed with the disaggraphed programming model with its bloom for branches: 5-25 period of epholophisms and corrections were applied to obtain appropriately assorbed programmingly appoints proud to that could be evaluated.

The time reeded for programming in the indicate degree dependent in the computation of technical conditions; thus, to improve the efficiency of modelling, it is indispensable to improve these conditions. The correspondence that in [27] a high-performance electronic computer will be installed in the National Planning of fine with hopefully result in reducing the time requirements of modelling to such as estent that the latter can be prought into harmony with the or recently stages of planning.

is Directions for improving the methods assitted:

ine group of these models (mathode helps planners by discl sing the interrelations and factors of economic geneth fore and two-sect a growth models, production functions, factor analyses, etc.). Another group are the models—sector linear economic models asked at working not concrete long-term plan variants, at analysing and at selection them. Among them we may find a dynamic, multi-stage variant of the appropriate programing model which is worth of having attention not only from the methodological viewpoint but also from that of the practical application. (See Bibliography in page 423)

25. Ujlakii "Piwe-Year Optimisation Planning Nodels for Bungary").

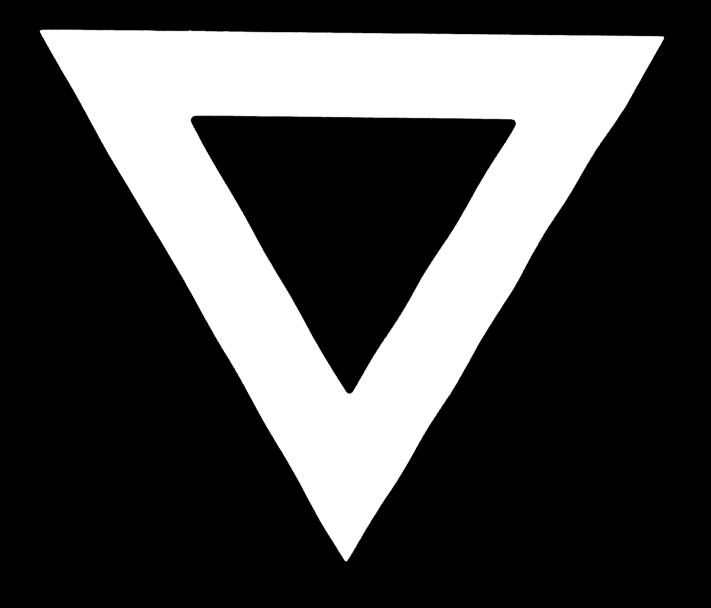
Since by disclosing now intersolutions those module (mothods) direct attention to the dynamic approach in the evaluation and planning of the long-term process of according growth, they induce statler trends in modius-term moduliting the whose up to now the dominating practice was to draw up a programm for the last year of the plan period.

Another now emersing trend of improver the planning methods beginned the another beginned by a common plan methods beginned definitions of the next may economic plan and planning. It then provides a preside lity for a pertor metal in of the intrincetory intervalated planning problems. These interdiscripisment approach, in the other hand, plan the methods and definition of the intrincetory intervalated planning problems. These interdiscripisment approach, in the other hand, plan the methods and definition of next neighbor or interval a the section.

A supply of the Sudain and in Principles Planning

	The model	Name for of online of onli	Missource of Charles	empletion in comparison t the approval
1161-1164	teb le		enelyets	prior, ilterior
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