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EXPERTS BY MISSION TO INVESTIGATE
LONG TERM PLANS TO BE UNDERTAKEN WITH A VIEW
TO DETERMINING A MANAGEMENT INFORMATION AND
DECISION MAKING SYSTEM IN THE MINISTRY OF ECONOMY ✓

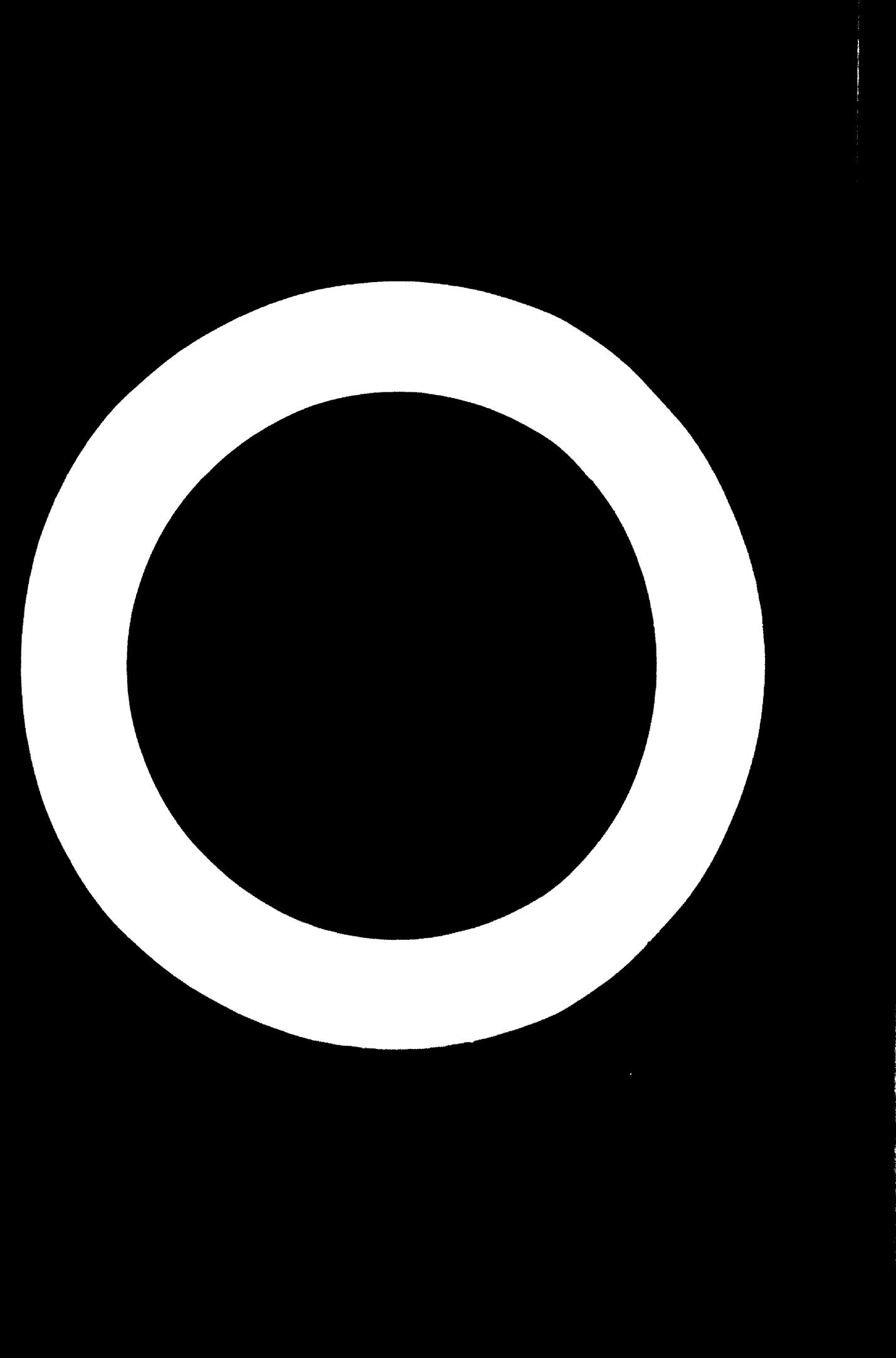
REPORT ON ASSIGNMENT

IRB-101-D (SIS)

Gorden O. Pehrson
Consultant

1) The views and opinions expressed in this paper are those of the consultant
and do not necessarily reflect the views of the Secretariat of UNIDO.





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I. INTRODUCTION

Background on UNIDO Assignment IRA-101-D (SIS)

A study mission to the Ministry of Economy, Government of Iran, was undertaken in response to a request from the Ministry for technical assistance to improve its present information system and to pave the way for the establishment of a more comprehensive, flexible and reliable management information system and decision-making process.

The request reflected concern on the part of the higher levels of the Government that the complex economic interrelations of an industrialized society do not lend themselves to simple analysis and ad hoc judgements.

The assignment resulting from the request has placed principal focus on information flows to and from various decision points in the Ministry and on the identification of areas wherein specific application of systems analysis techniques could be undertaken. Furthermore, the assignment has clearly recognized an essential element for the introduction of a new problem-solving approach - that is, the establishment of a so-called management information system which would present measured options for choice in the decision-making process and permit effective administration of the decisions made.

Since the assignment covered the entire range of responsibilities of the Ministry, it was necessary to examine each of the Departments and agencies that operate under the Ministerial authority. Also, the Consultant has taken note of the interrelated responsibilities between the Ministry of Economy and the Plan Organization. However, the assignment did not include an examination of the inter-Ministerial relationships nor of the responsibilities of the Minister of Economy not directly related to his position as chief executive officer of the Ministry.

The assignment was carried out in Iran between 30 January and 6 April 1970 by Mr. John G. Hartman, Senior Consultant to UNIDO.

General Observations

The economic situation in Iran during the past decade has been one of rapid expansion of the economy of a developing country. The planned annual increase of 8 per cent in gross national income through the current Fourth Development Plan, 1970-75, is considered to be realistic. The industrial sector is expanding rapidly and is making a growing contribution towards this growth.

However,

the political system, with principal responsibilities in the industrial and economic sectors, is not fully up to par in policy decisions and administrative structures. The economic development, with its many important social, cultural and political implications, is regarded to be so complex that no single person or group of persons for the economy of the country is likely to be sufficiently qualified. The main obstacles to economic development exist in the programme of economic planning.

In the present political system of the Iranian Government, there is a highly developed culture of individual entrepreneurs. The personal views of selected advisors, who are often close to the political leadership, are often sought on major policy decisions. These individuals, though not under the direct responsibility of the Minister of Planning, in the initiation of major economic projects, there is a great reliance on the judgements of selected persons within the administrative hierarchy. It is relevant to be great individual responsibility for such judgments. Furthermore, it is a cultural fact that in Iran there are much stronger personal and competitive drives for individual recognition than for co-operative group activity. In this connexion, it should be noted that UNIDO is currently undertaking a programme on "achievement motivation" which could give valuable insight and assessment into this problem.

Recognition of the cultural fact is relevant in that it is unlikely that some of the economic development programmes that have worked well in other cultural environments with different value systems - e.g. Japan - would work well in Iran. In so far as the purposes of this assignment are concerned, the existence of the cultural fact in Iran may prove to be a practical constraint on several important recommendations that the Consultant has made for assessing the effects of past decisions and for initiating follow-up procedures on such decisions.

That cultural fact may also be a constraint on the initiation of information gathering and analysis procedures which depersonalize data. The depersonalisation of data constitutes an important element in the design of computer-based information systems used in the most modern and efficient industrial organisations. That element would have special significance in Iran. In other words, a system approach to improving management decisions must first take into account the personalized management system that prevails in the country.

On the other hand, the tendency in Iran to take individual and personalized decisions makes for great potential in the development of small-scale industry. The willingness to "go it alone" and to take risks in business adventures has contributed importantly to the successful development of the Iranian economy. In this connection, it should be stressed that the application of the new UNIDO programmes for achieving the development of existing entrepreneurship and the identification of potential entrepreneurial talent would be relevant. They would increase the number of trained individuals involved in the mobilization of capital and in the establishment of enterprises.

The Ministry of Economy is a good place within the Government of Iran through which to explore new approaches and to re-examine the usefulness of old practices related to economic development. The Ministry possesses excellent means and there are many opportunities for improving the existing, and for establishing new, areas of information circuitry among Government agencies.

Within the Ministry there are motivated and talented skills, and the number, quality and grouping of well-trained young personnel is most impressive.

There is rich and creative variety in the pattern of agency organization and in the types of relationships to Ministerial authority established to administer specific programmes. There is willingness to experiment with new ideas and to commit to change.

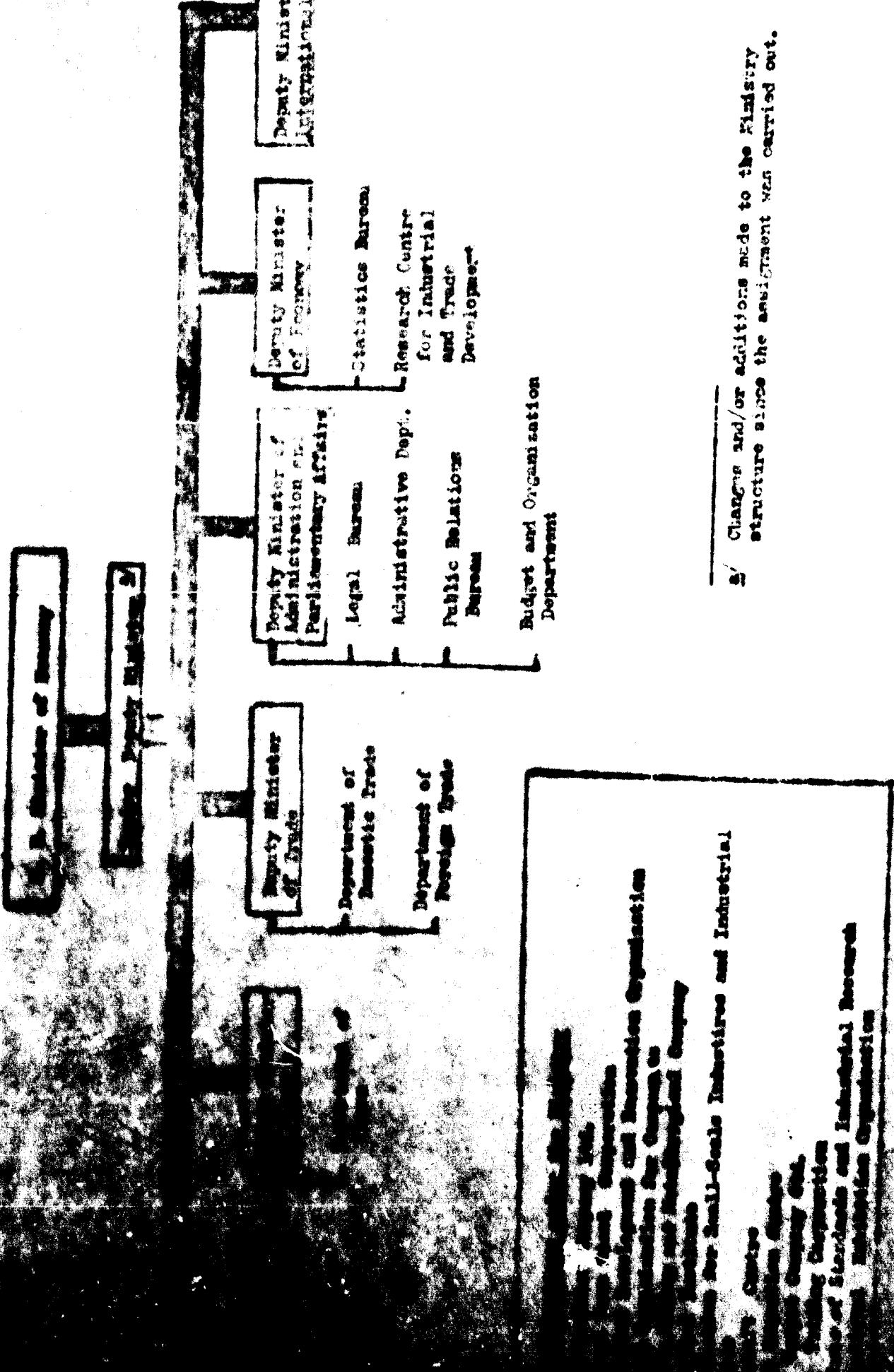
However, the Ministry has an impressive record of utilising consultants and of giving serious attention to their recommendations.

Thus exists a strong base for making major advances in three areas of management development: a) in the creation of a system of information management (including production projects); b) in the planned development of management training (including research); and c) in the design of economic simulation

It is also a matter of different thinking in terms of information systems. In the past, the emphasis was on the design and administration of Government systems to support its financial economic objectives, in order to establish a sound financial base. To build the comprehensive information system, it is necessary to have a broad view in the decision making in all other areas of government, including the design and administration.

Structure of the Ministry of Economy

At the moment, the structure is decentralized, the Ministry of Economy is concerned with the supervision of state budgetary agencies and organizations. According to the latest available available report, the Ministry has been reorganized recently, creating a Senior Deputy Ministry and two new Deputy Ministers, as shown in chapter 1.



1. INFORMATION REQUIREMENTS FOR THE INFORMATION SYSTEM

a) Information Sources

The consultant has identified three main areas for making recommendations, which are the following: (a) to convert the present sources of the Ministry into an information system; (b) to propose a classification of responsibilities and common activities; and (c) to propose a classification of data. It is felt that any such classification should be done on a broad basis, so as to be useful.

(a) The first area concerns the need to coordinate and harmonize with government ministries and other central administrative units within the context of responsibilities and common activities. It is felt that the important potential exists for more than the economic units to explain the influence of new Ministry regulations on other areas of the economy. This is true to all the major economic sectors.

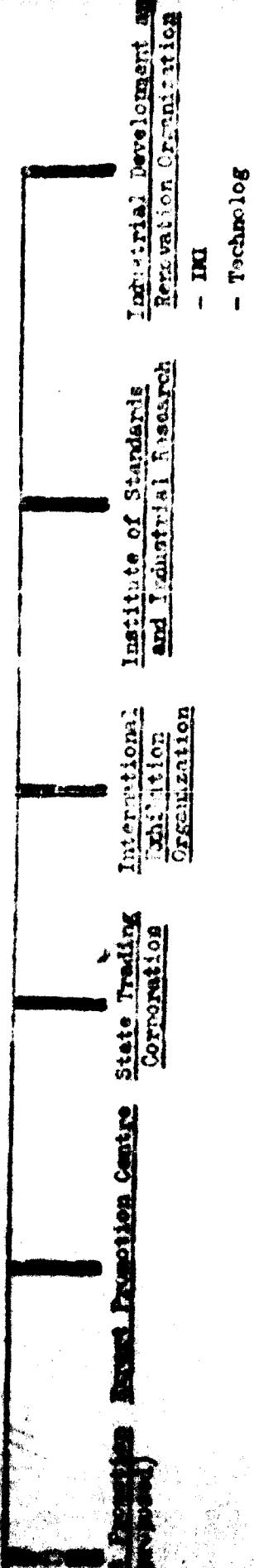
It is proposed that the following areas be noted that the Consultant recommends for expansion and further development in the broad areas:

- a) Information on economic planning and planning available in the ministries of the Ministry of Economy must be properly brought to bear on the planning of the economy. (See Chart III)
- b) Collection and dissemination of information about the domestic economy of Iran with emphasis on economic indicators and on follow-up reporting by the economic units. (See Chart IV)
- c) Development of new and/or better sources of information that relate the economy of Iran to foreign economies. (See Chart V)

The author of these discussions share in an emphasis on capturing the value of information that is considered in all major decisions as they may relate to the design of a large data bank for future use in economic policy and administrative decisions. The economic decisions in Iran are still being written on a fairly blank economic blackboard, and the implementation of these decisions should be scrutinized periodically. It is essential that new data sources be created on the domestic economy with emphasis on the creation of economic indicators and on follow-up reporting. Licensing decisions should be made with the requirement that licensees report back on their operational experiences in order to build an orderly flow of information for the Ministry. The fact that the Government is creating and will operate

CHART II

Departments and Agencies with Government-Wide
Centres of Authority and Responsibilities



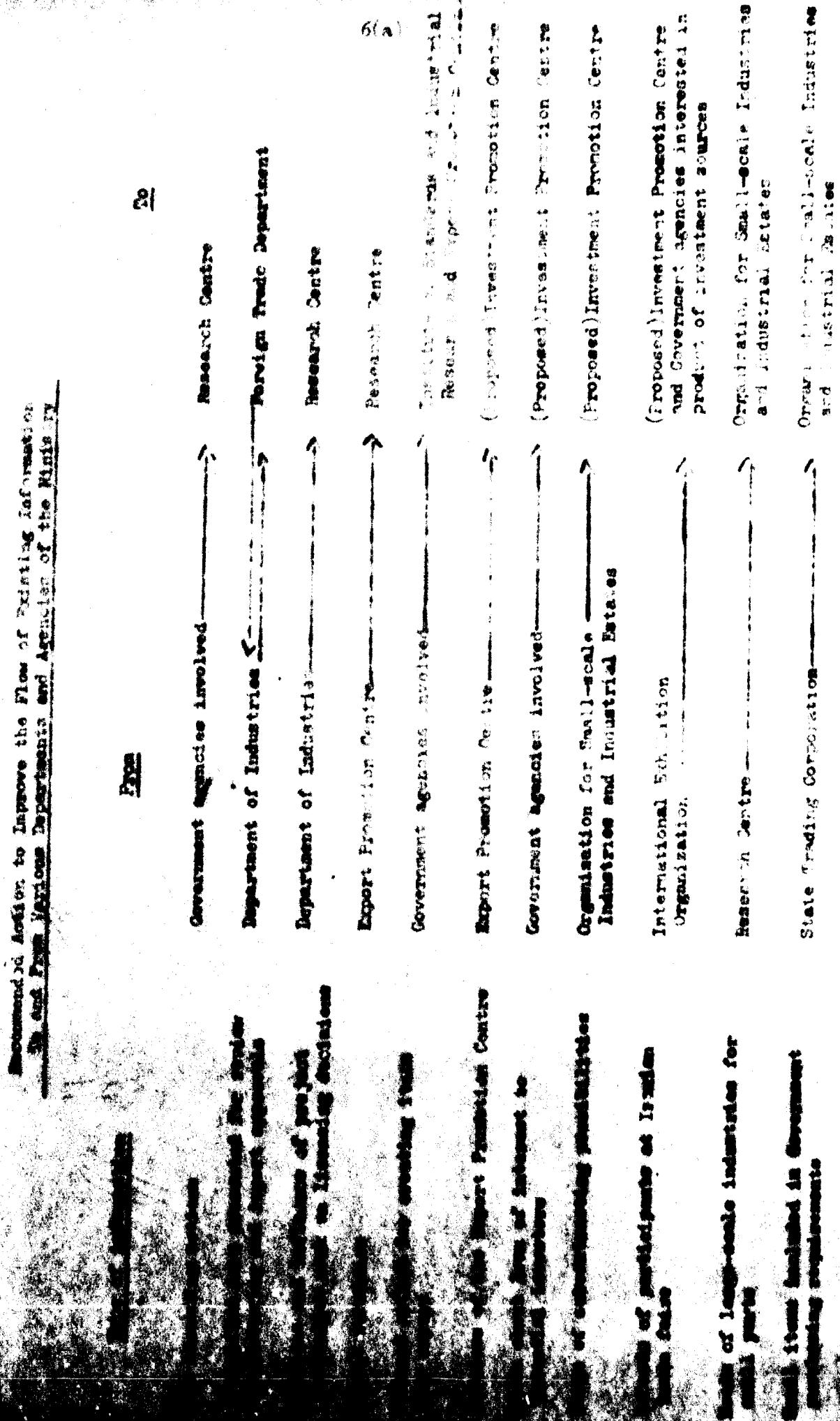
and the industrial sector gives it a complete opportunity to evaluate all these projects. The economic information feedback systems will also help to improve predictions in the country's economic health.

2. The second point concerns the anticipated improvements in the flow of existing information and its collection from the departments and agencies of the Ministry.

3. The third point concerns the needed new information sources on foreign publications as they relate to Iran.

4. Finally, it is recommended that the application of modern computer techniques be undertaken.

Chart III



Proposed New Information
on Nationalized Concerns

Types of Businesses

Business institution units with
the managers and the licensee
report periodically on his
[redacted] expenses
(See page 29.)

Governmental Units

Proprietary funds shall flow from the accounts of
departments of the following:

1. National Iron Steel Corporation - all existing and
future steel mills. (See page 26.)
2. Central Organization for Companies. (See page 24.)
3. Iron Factorized Company Ltd. (See page 24.)
4. Industrial Development and Renovation Organization -
the heavy processing industries and ultimately the
light processing industries. (See page 21.)

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Export Processing Centres and
the Progressive Conservative Party

Foreign market research data compiled by the combined overseas offices.
(See Part IV, 10.)

an instant promotion
of our services.

Chart VI

Recommended Areas for Application of "Statistical Management and System Analysis Techniques"

State Trading Corporation

Introduction of supply management techniques to Government purchases. (See page 13.)

Iranian Iron Steel Corporation

Introduction of modern scheduling and control techniques to the operations of Government-owned steel mills. (See page 20.)

Introduction of a modern cost accounting system to the operations of Government-owned steel mills. The system should be designed to allow a flow of statistical core data to Government agencies performing audit, research, project appraisals and corporate research functions. (See page 20.)

Statistical Bureau and Planning Organization

Introduction of a uniform cost accounting system for all enterprises section, designed as follows:

Ministry of Finance

Introduction of a uniform cost accounting system for all enterprises section.

Ministry of Planning and Development

Introduction of programming and planning techniques. (See page 25.)

Introduction of targeted area studies. (See page 25.)

Ministry of Transport

Utilization of computer-based decision-making techniques in government transportation services. (See page 25.)

Establishment of a Governmental planning consulting service to introduce modern techniques to all mining operations in Iran. (See page 25.)

Utilization of operations research methods in the integration of utility and transportation system decisions with mine-operation decisions. (See page 25.)

Introduction of modern marketing methods for creating packaged sales of domestic mineral resources to overseas markets. (See page 25.)

Statistics Bureau

Utilization of computer-based advanced prediction methods to problems of economic prediction. (See page 25.)

Utilization of statistical sampling methods to implement industrial surveys. (See page 25.)

Ministry of Education

Introduction of programming and planning techniques. (See page 25.)

GROUP ONE

Departments and Agencies with Principal Involvement
with Matters of Investment and Foreign Trade

Group One includes seven units, several of which are currently under reorganisation.

Foreign trade in Iran is a Government monopoly established by law some forty years ago. This monopoly has been relaxed in all fields except in armaments, sugar, tobacco, and in gold and silver.

Within the context of this Group, the Government has given high priority in its economic planning to four main objectives: a) promoting foreign interest in Iranian products; b) encouraging domestic production for import substitution c) promoting foreign investments; and d) relating the development of Iranian economy to the economies of the neighbouring countries. It should be noted that the Ministry of Economy does not have an exclusive responsibility with respect to these objectives. Important exceptions exist relating to the authority of the National Iranian Oil Company and to the development of tourist trade. Nevertheless, the following Departments and agencies within the Ministry of Economy represent strong instruments of influence.

1. The Department of Foreign Trade

The Department works essentially on three tasks: a) establishment and administration of import and export regulations; b) participation in international trade and credit agreements; and c) provision of information and consultancy services to the business community in Iran. The latter task, referred to as "commercial intelligence" marketing, is carried out through the Export Promotion Centre.

2. The Department of Planning, the Department of Economic Development, the Department of Creditors and the Department of Statistics

2. The Department of Industries decides either to grant or withhold the licence.
3. If the licence is obtained, the licensee applies to the Department of Foreign Trade for relief from custom duties and/or import prohibitions, whose schedules the Department establishes annually.
4. The Foreign Trade Department takes a pragmatic approach in granting exceptions to import prohibitions. It may, for example, work out a set of agreements with the prospective importers whereby if they agree to first buy the output of the domestic plant, they will then be permitted to import the balance under favourable tariff rates.

These procedures represent a continuing "tariff control" type of activity requiring personal integrity. Official confidence in the procedures followed in granting exceptions is supported by readily available relevant data.

Thus the information flow to and from these decisions would seem to be a most important area for detailed procedural analysis. The Department of Foreign Trade, in order to make valid judgements on granting import privileges to an approved licensee, must have ready access to relevant data on the objectives and operational experiences of the licensee's firm that have influenced the Department of Industries' decision to grant the license. Additionally, the information brought forward by the licensee to support his request for relief from import controls could also become an integral part of the feedback information used to check the progress of the licensee in meeting his original performance commitments.

The design of a suitable summary tabulation for classifying and recording this kind of economic traffic flow could well engage the attention of a trained economic analyst. The information collected on these licensing and import decisions will serve to create an important input to the Minister's economic research and simulation capabilities.

Trade agreements

The Department is also importantly involved in other more advanced trade and transit agreements, a complex and expanding area of endeavour that often personally involves the Minister himself. The difficult negotiation of a private sector trade agreement was instrumental in the demonstration of how a smaller and relatively strong group of Government corporations could be successful in obtaining a negotiated, non-bilateral agreement, which in turn could open up new opportunities even for strengthening the position of the Minister.

negotiations. That information must concern the strengths and weaknesses of not only the Iranian economy, but also of the economy of the prospective other party to the agreement. The assignment of a UNIDO expert with a strong business staff experience in venture development would provide needed assistance in this area to the Department.

Information on world commodity prices

The Department's plans to establish an information service on world commodity prices deserve careful attention. It would be worthwhile to study the possibilities for incorporating this information service function into the recently merged Chambers of Commerce and Industry.

2. Export Promotion Centre

The Export Promotion Centre carries out promotional activities with domestic industries to assist them in development of export items; similarly, with potential foreign consumers to create interest in Iranian products. Mainly funded by export revenue, the Centre plays a key role in the encouragement of the and the administration of export subsidies. The promotional activities extend beyond the sphere of the Ministry of Finance to include the interests of all Government agencies involved in export promotion.

The main functions of the Export Promotion Centre are broad. If these are to truly serve as a communication link between potential buyers and Iranian producers, it must receive accurate and timely information on (1) domestic sales currently available for export; (2) foreign market trends; and (3) conditions in foreign markets.

It is recommended that the central service be established in Tehran, with regional offices in Isfahan, Shiraz, and Tabriz.

require all Government agencies involved in making export decisions to advise the Centre of the action taken and to supply background information to those decisions. For this purpose, a suitable form could be drafted by the Organization and Methods staff in the Ministry of Economy. Information thus collected should also be made available to the recently proposed Investment Promotion Centre.

The development of potential export markets is a matter already under vigorous attention. The UNIDO consultant, however, has recommended that consideration be given to adding export promotion activities to the planned responsibilities of a number of foreign offices proposed in the organization of the new Investment Promotion Centre. Aside from the obvious housekeeping advantages of sharing staff and common facilities, this single location would result in multiple use of a common source of information on foreign economies as they related to Iran. Data could thus be obtained on supply/demand situations as they exist in foreign markets with regard to specific items - information that could be feedback to Iran and considered in decisions on present and potential export item production programmes.

Information about the full range of the Export Promotion Centres' services would be a valuable part of the over-all investment information being planned for the use of the Investment Promotion Centre. Closer possible relations should be established between the Export Promotion Centre and the International Exhibition Organization.

3. The Proposed Investment Promotion Centre

The Consultant has discussed only the activity of this proposed agency and has not commented on specific investment attracting laws currently under development and review.

This agency, which is to be included within the Ministry of Economy, will undertake functions broadly classified as follows: a) provision of information to prospective investors, either upon request or as a promotional activity; b) participation with prospective investors in the development of commercially viable investment projects; and c) advice to the Government on matters related to the creation of an attractive investment environment in India.

Information for prospective investors

In a single place within the Government is it possible for potential investors to obtain all of the information that is of direct interest to potential investors. The Consultant has enumerated that several types of information should be brought together and made a part of an 'investment information "pack" kit' for the proposed agency.

Consideration should be given in the new Centre to the establishment of two distinct types of service that would underscore the Government's desire to attract investments. First, the new Centre should gather information from the various Government agencies in response to all the investor's questions and requirements, thereby eliminating the need for the potential investors to obtain answers individually from those agencies.

Secondly, the Centre should provide guidance and assistance to potential investors in obtaining both the necessary licensing approvals and the commitments of follow-up support for the investment from all Government agencies involved. Through the latter service, this agency could, in partnership with the investor, establish a "project" for each approved investment, using simplified PERT charts or similar scheduling devices for identifying support needed and for creating a base for follow-up reporting on the approved investment.

Advice to the Government

The Centre has a serious role to play in research on investment promotion experiences of foreign countries. Much information exists on this subject in the United Nations as well as in many interregional and international organization. The subject is clearly qualifying for graduate work at the doctoral level, and the Consultant has recommended that the Centre discuss the possibilities for collaboration with the University of Teheran.

The Consultant has noted that the mission of the Centre is one of the most important in the Ministry for the formulation of meaningful investment projects that carry out plans to actionable dentations. There is a job to be done, in gathering and organizing information, for strengthening Government policies and programmes. He envisages further UNIDO assistance to the Centre.

4. The International Exhibition Organization

The Organization's current literature search and classification efforts on potential participants in Iranian trade fairs somewhat could have larger utility if expanded to serve the interests of other Government agencies involved in foreign commerce and invest. In this connection the Consultant has recommended that the Director of the Department contact the University of Wisconsin in the United States for information about a subscription service called "Project Trade". This is an interesting approach to solving the problem of disseminating large amounts of useful data and for relating these data to the needs and interests of individual users. The consultant could also benefit to the International Exhibition Organization in the development of a similar system and could make available their own experience and knowledge in this area.

The Organization's special records on exhibitors at Iranian trade fairs should be made available for use to all Government agencies. There are well-organized and useful data that could serve the interests of other Government agencies in their search for information on product or investment sources. These files reflect the expressed assumptions of many overseas companies that they can serve markets in Iran.

9. The State Trading Corporation

This Corporation, initially established to represent the Government in trade negotiations with countries of centrally-planned economies, is now concerned with Government purchasing in eight categories of goods. The agency has interesting potential in its capacity as a customer in the economy.

Modern methods of supply management should be introduced to the thinking of the Corporation and, through this Corporation, to all Government agencies using excess supply items. Furthermore, the use of excess items should be increased to more than the present level. Attention should also be given to employing the use of modern skills in the operations of stock control and purchase

e. The Institute of Standards and Industrial Research of Iran (ISIRI)

Discussion of ISIRI in Group One will focus attention on activities of the Institute related to international trade. ISIRI performs the functions of maintaining the quality of over fifty items of exports.

Licensing

At this time of licensing presents an important opportunity to serve as objectives of improved standards: the requirements for quality and design and for compliance with standards should become an important factor in every licensing decision. The Institute should therefore play a proactive role in all licensing decisions.

Quality control

At this stage of industrialization in Iran, it is important that there be more influence brought to bear on industry for improving the quality of items produced. Individual product testing is no longer sufficient; the emphasis must now be on installing adequate processes of quality control. The Institute's efforts in this area would be strengthened through the assignment of an expert in the field of quality control procedures, with specific knowledge adaptable to Iran. Also, assistance from UNIDO in improving information flow to and from this agency deserves priority attention.

Intra-Ministerial relations

The Institute has a lead time of one and one-half years in the development of a new standard. In order to effectively plan its work load and priorities, the Institute must be given as much advance information as possible on items planned for export. It has been suggested, in consultation with the Export Promotion Centre, that a procedural form be established whereby all Government agencies planning items for export would notify the

Centre of its actions and supply relevant background information. (See page 9.) The suggestion is extended here to include the establishment of a similar procedural form that would permit the Institute to be alerted on all actions taken with regard to exports. Closer co-operation between the Institute and the State Trading Corporation would prove beneficial to quality control.

7. The Research Centre for Industrial and Trade Development

Discussion on the Research Centre in Group One will focus attention on its staff activities, particularly those of the Director, in international trade agreements.

The final organisation of staff position papers and direct participation in international trade negotiations seem to represent a direct responsibility of the Director.

As has been observed in connexion with the Department of Foreign Trade, UNIDO assistance in the form of a venture development analyst is needed to help the Centre in the development and the organization of reliable information on national economy as well as on the economies of potential third parties to trade agreements. (See page 8.)

GROUP TWO

Departments and Agencies With Common Objectives
Related to the Promotion of Small-Scale Business

The following five agencies have been included within Group Two are:

1. The Organization for Small-Scale Industries and Industrial Estates;
2. The Department of Domestic Trade;
3. The Handicraft Centre;
4. The Iran Carpet Company; and
5. The Research Centre for Industrial and Trade Development.

The Government has established the first four of these agencies and has encouraged the national regional development work of the Research Centre, as part of its over-all policy of promoting industrial development.

1. The Organization for Small-Scale Industries and Industrial Estates

Licensing

For administrative efficiency, it might be feasible to grant this newly chartered Organization authority to issue licences to the small businesses it seeks to establish. At present, the issuance of licence for a small-scale business applicant requires the approval of the Department of Industries.

The purchasing operations of the Iran Trade Corporation could be a valuable contribution to the objectives of the Organization. With the Government as a customer and the encouragement of small-businesses identified with socio-economic objectives, the Government might be expected to carry its "principles to purchase" in support of many small-scale business opportunities. The Organization might well seek to probe the experiences of larger enterprises' programmes for bringing problems to small-scale business units.

Discussions between the new Investment Promotion Centre and potential large-scale industrial investors might be aided greatly if the potential investor was aware of the possibilities for subcontracting supplies from local small-scale businesses.

2. The Department of Domestic Trade

The present organization of the Department of Domestic Trade

Department that the Government's interest in the consumer seems to find most direct reflection. The Consultant was impressed with the resourceful and talented leadership within the Department. However, he observed that as a whole the Department seemed to be operating under rather vaguely defined administrative structure, both with respect to the goals as well as to authority within the Department. The present and the potential functions of a Department are deserving of special study in-depth.

3. The Handicraft Centre

The purpose of the Centre is to promote the development of handicraft skills in the country as a source of economic support to many individuals and, as an outlet for creative skills. For the purpose of the Centre's programme, handicraft includes ten categories of items that have not been developed previously in Iran.

The Centre possesses many talented young people who evidence high motivation and skill in their work. The Centre is well-conceived and well-managed.

The Handicraft Centre maintains close co-operation with the International Fair Organisation as well as with ISIRI. However, the programmes of the Export Promotion Centre and the Handicraft Centre have not been properly co-ordinated and efforts should be made to narrow this gap.

There are good opportunities for establishing foreign outlets for the products of the Handicraft Centre, as has been previously discussed in connection with the Export Promotion Centre and with the new Investment Promotion Centre. (See Group One, page 10.) Feedback information on items that could be produced by the Centre for foreign markets would be of great value.

4. The Consumer Bureau

The Bureau could be involved in assisting the joint management of the consumer market. It could also benefit from the joint management of consumer associations of different types and from the joint promotion of consumer education.

The establishment of a marketing programme for Persian carpets is a subject that should be reviewed again in the light of a rapidly changing market interest in the value of handmade objects of unique quality.

5. The Research Centre for Industrial and Trade Development

The Research Centre is discussed within Group Two for two reasons: a) it could be an information source to the Organisation for Small-Scale Industries and Industrial Estates; and b) it is actively involved in national regional industrial development work.

The Centre could serve as a source of information to the Organisation for Small-Scale Industries and Industrial Estates in connexion with the potential needs of industry as whole for small parts. Under systematic encouragement, small businesses could make a start in meeting such requirements. Moreover, it would be possible to introduce standard items into the economy.

National regional industrial development work

The work that is beginning in national regional development, under the sponsorship of the Centre, is exciting in its record of early accomplishments and certainly most promising in its potential. This work provides excellent opportunities for putting the pressure of the Central Government into the provinces as authorities to act on matters that have a direct economic base and purpose. This involves, however, the broad management question of decentralisation which apparently has not been resolved.

The plans to develop guidelines on national regional development plans and programmes have been strongly endorsed by the Consultant. The solid work that is on record will give strong substance to these guidelines.

The Consultant has also undertaken other to create a permanent co-ordinating group of the regional development units, under the leadership of the Research Centre, which should include the Central Government agencies concerned with regional development, the World Bank, UNDP, and other international agencies, and to seek recognition from the United Nations of the importance of regional development.

GROUP THREE Department and Agencies with Serious and Growing Responsibilities in the Establishment and the Operations of Major Development Projects.

The following agencies are included in Group Three: a) The Department of Industries; b) The National Iran Steel Company; c) and the Industrial Development and Renovation Organisation (IDRO). These agencies have been and will continue to be the most important bases within the Ministry on which to build industrialisation programmes.

1. The Department of Industries

The Department has authority in both the public and the private sectors to grant or withhold licences for the establishment of new or for the expansion of an existing industrial activity. Additionally it influences the granting of import permissions and the setting of tariff schedules, and is directly involved in import duty robotics - three functions that are carried out by the Foreign Trade Department. (See Group One) The Department of Industries is also party to the Ministry of Internal Revenue's custom duty decisions on the ~~new~~ classification of imported items.

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The question of a Ministry to establish or to expand industrial activity is probably the most important question that the Ministry of Economy must answer. The industrialization plan is therefore the skeleton for action. The following points are the present procedures involved in licensing - that is, the steps leading to the assignment of Industries for production. The procedure for industrial production - should be carefully studied and the work of the potential industrialists should be considered. In this connection, he has specifically recommended that the Ministry of Economy should make application to the Ministry of Industries to have the industrial plan in force as soon as possible.

Intra-Ministerial Relations

The direct and indirect involvement of the Department of Industries in important decisions made by the Foreign Trade Department underscores the need for a continuous information flow on common matters between the two Departments. The work assignment for an economic analyst suggested in connexion with the functions of the Foreign Trade Department should be defined to include similar attention to the "economic indicators" found in the data presented for review in applications to the Department of Industries for those series of licensing approvals.

Furthermore, the Consultant makes the following two suggestions on the interrelated functions of the Department of Industries and of the Research Centre for Industrial and Trade Department:

- 1) The Department of Industries utilises the services of the Centre's staff for project evaluation work in connection with licensing approvals. It would be mutually beneficial if the Department reported back to the Centre its assessment of the evaluation made by the Centre's staff on each project.
 - 2) The Master Plan work of the Centre is beginning to reflect some elements of a systems approach to defining economic context within which specific industrial projects can be fitted. As the Centre's work improves in this area, the Department of Industries' attention can then be turned more to carrying out its responsibilities for making industrial projects operate as effectively as they are planned and approved for operation.

2. The National Iron & Steel Corporation

While the Corporation's plans are still in the contemplation stage, there is an opportunity to introduce directly to the programs the most modern scheduling and management control techniques - PERT, Mile/Count and Critical Path. The talent to install these techniques, under suitable instruction, exists in the Corporation's World Capital Organization. The demonstration of an effective application of these techniques would enable the Corporation to provide a clear and ready example to local clients of their applications in Iraq. The introduction of an efficient Job Control System

Similarly, the system of accounting of a business organization is based on the accounting system adopted by the organization.

The full potential for creating an information flow on economic indicators from these Government-owned steel plants should be explored by experts and exploited by the Ministry.

A further comment on the mining operations of the Corporation has been included in the observations on Group Four. (See pages 22 and 23.)

3. Industrial Development and Renovation Organisation (IDRO)

The Industrial Development and Renovation Organisation (IDRO) consists at present of a number of subsidiary companies in the heavy and light processing industries and in mining. The opportunities for introducing to the operations of IDRO the modern management techniques, mentioned in connection with the National Iron Steel Corporation, are equally applicable. Within IDRO, there are two separate companies that offer consulting services to industry: Technology and the Industrial Management Institute (IMI).

Technology has an impressive performance record and appears to be operating with the knowledge of advanced concepts of a systems approach to the technical and economic considerations in its work. The existence of this consulting group in IHC is a reassuring strength on which to build forecasts of progress in system planning of economic growth. The skills and potentials of this group should be most carefully gauged by the Minister and, in this connection, it is recommended that a few complex project evaluations be contracted to this group to test their competence and learn directly of the extent of their facilities.

It would be equally appropriate in the technical and management consulting dimension. It is recommended that the IMI group be broken into several of the more specialized units and that assistance be planned for the application of modern management techniques. There is considerable potential here for the application of systems analysis and for the design of better production processes. The heavy industry companies should be encouraged to make use of the facilities of the Industrial Management Institute.

It is recommended that a committee be appointed to study the logical place for the IMI in the overall structure of the Ministry of Industry.

GROUP FOUR

Department and Agencies with Important Responsibilities
Related to the Development of Mineral Resources

The Department and Agencies included in Group Four are the following:
the Department of Mines; the Geological Institute; the Iron Mining and
Metallurgical Company; the National Iran Steel Corporation; and the
Industrial Development and Renovation Organization, in its mining operations.

Organisational changes are under way to establish, through a new Deputy Minister, co-ordinating direction for the government and agencies involved in the development of mineral resources.

There are four major stages to be considered in successful operation of any mining enterprise: a) location and evaluation of mineral resources; b) construction of a mining operation; c) transportation of products to market and d) marketing. The application of new management techniques should be considered in total country-wide terms for the exploitation of the potentially great mineral resources of Iran.

Location and evaluation of mineral resources

The satellite-based detection and monitoring devices, used in connection with space programmes of both the Union of Soviet Socialist Republics (USSR) and the United States (US) could provide Iran with excellent mapping services that may lead to important advances in the country's geological situation. The possibilities for obtaining these services should be fully explored.

Construction

Application of advanced computer-based operations research which employed in the most modern mining operations in a mineral country should be carefully studied, not only for the development of domestic mining but also for Government-owned companies might be able to do so. This would provide the Government with more the control of its most valuable reserves.

Transportation to market

The opportunity for business decisions with microcomputer assistance of utilizing standard micro software packages.

Our potential should increase that may be developed in time will have
to move our products, which will add a large shipping dimension to the
international shipping world alone. With expert assistance, marketing
experts should be constantly switched over to develop, in global terms, packages
of their products.

GROUP FIVE

Agencies with Responsibilities for the Operations
of Several Government-owned Small-Scale Enterprises

1. The Iron Protection Company Ltd.

Fifty-four company units, established by the Government as part of an industrial development programme, were merged into the structure of a holding company, the Iron Protection Company. Only one of the original 54 units remains to be incorporated and action has already been taken to complete this process. Thus the Consultant has noted that the creation of this agency has essentially been accomplished.

2. The General Organization for Standardization

The Organisation is an association of small company units, organized to improve the efficiency of operations and to establish standards of quality in products. The Consultant did not seek to evaluate the effectiveness of the Organisation in reaching its economic and social objectives, since confirmation has been and is being received from the Industrial Management Institute (IMI) of the Ministry and from a private consulting firm.

The availability of Government-owned plants, with counterparts in the private sector, often enables enterprises for undertaking a) research studies, experimental work and the compilation of technical and data sources and economic information.

State Utilities

Details of the operations of these Government-owned utility firms were not available to highlight related problems. The possibility exists for the handling function of government to reduce costs and to increase working value and could perhaps do so through the application of policy and operational techniques. It is also possible that the development work carried out by these agencies may have contributed to the promotion of the economy.

Experimental work

Through experimental work carried out at these plants, the Government has excellent opportunities to bring about improvements in counterpart plants in the private industrial sector. Some of the work that is planned for improving quality control processes, for testing practical improvements in accounting and production systems and for introducing training programmes are examples of how Government influence could be effectively brought to bear. However, such actions require the initiative of a higher authority than that of the Organization since they are not normally part of the operational responsibilities of the company management.

Provision of statistical data

These Government operations could also be reliable sources of statistical data needed to develop economic indicators and to supply information to Government agencies involved in assisting research and project evaluation activities.

It should also be noted that each of these company units could be independently assessed as subjects for internal audit attention, if the recommendations made on this subject in Group Seven to endorsed. (See page 29.)

GROUP SIX Staff Groups with Principal Responsibilities for Providing Economic Data and Analysis Services to the Ministry of Economy

The two agencies included in Group Six are: a) The Statistics Bureau; and b) The Research Centre for Industrial and Trade Development. These agencies are involved directly in supplying economic data to the various Departments and agencies within the Ministry as well as to the Minister himself in his personal role within the high councils of the Government on matters related to major economic policies and programmes. Both groups have received extensive UNIDO assistance.

1. The Statistics Bureau

This Bureau in a relatively short period has made impressive progress in serving the statistical needs of the Ministry, and it is well recognized at the higher levels of authority.

Industrial Survey

The Bureau prepares annually a statistical survey which is an definitive a report on the industrial sector as exists in the country. There is an opportunity here to apply statistical sampling methods for the purposes of the new survey in which more complete reporting through better professionally trained interviewers would produce information of greater use for the Master Plan work of the Centre.

Although there is every evidence of professionalism in the statistical work of the Bureau, skilled resources are admittedly quite thin. There is a particular need for a top flight economic statistician who can help in the resolution of the current conflicts in definitions, classifications and methodology in the economic reports of the Ministry of Economy, the Plan Organisation and the Central Bank.

Within this Bureau, the potential for ultimate use of computers to estimate economic effects from known or planned actions should be developed. There are good and pragmatic reasons for the introduction of computerized programs to the Bureau even in the absence of reliable economic data. There is an intriguing potential for the application of some of the advanced procedures as well as an opportunity for creating timely data of maximum value concerning the operations of government-owned plants and the modicum of control of such

The Committee has enhanced the present plans of the Ministry to make computer capacity available to the Bureau.

The Bureau should also be considered for undertaking the task of codifying the elements of industry for which the various Ministries of the Government are responsible. The establishment of such a code system would have Government wide benefits.

8. The Research Centre for Industrial and Trade Development

The three functions of the Centre discussed in Group Six are the following: a) project evaluations; b) master planning for industrial sectors; and c) economic policy staff recommendations.

Information needed in support of each of these three functions is not yet available in the following areas: GNP data per capital, per family or per group; personal income by sector and per capital and per family; employment and unemployment figures by provinces; tax revenues from economic sectors.

Project evaluation work

The research staff undertakes project evaluations only on the request of the Department of Industries. The specific project evaluations examined by the Committee indicated creative approaches to making market forecasts for a variety of products. Assignment of additional staff with relevant analytical experience could improve judgement in the evaluation work now being carried out. There is a need for more sharing of information and thought between the Departments involved in licensing decisions and the Research Centre, as well as for the formulation of a common set of guidelines.

Master planning and industrial sectors

It is the desire to add continuity to the work of the master plans now being prepared and to be completed. The assignments of the four UNIDO experts will be to assist in the preparation of policy options related to three selected industrial sectors. This will complement the Centre's work in this area. However, the major part of the master planning work relate directly to the industrial sectors and will be assigned to the Statistical Bureau.

The Bureau will be responsible for the collection of economic data, accumulated through the various statistical agencies, to support the Committee's performance in this area. It will also be responsible for continuing the data search for

An immediate improvement in this work is simply a requirement that all present assumptions made in this master planning work be completely identified and made a matter of record and continuing validation as additional data becomes available.

Economic policy work

The Centre is becoming increasingly involved in economy policy matters in connexion with the Minister's participation in the High Economic Council. There is concern that each of the Ministries and Government agencies participating in the Council has its own private source of economic information which often provides conflicts among different reports presented. This kind of competition for influences in matters of economic policy should be resolved as much as possible by preliminary joint staff work. The potential impact of a well-designed Input Output simulation capability would seem quite evident.

The assignment of a highly qualified macro-economist to the Research Centre would not only strengthen the advisory role of the Minister, but would also prove beneficial for the development of economic indicators noted above.

The present activities of this Department are divided into three areas: a) training; b) organisation and methods work; and c) budgeting procedures.

The Department should be a strong candidate for further study and expert assistance from the United Nations.

Consideration should be given by the Ministry to the introduction of the concept of controllership into its management structure. This would involve consolidating the budget and accounting functions, adding a fiscal system design, and an internal audit function. The minor personnel functions presently carried out by the Department should be reassigned to the Personnel Office (the Civil Service Commission).

Standards

The Department's work on processing information on fellowships and scholarships available to the Ministry's personnel is interrelated with the work of the Civil Service Commission which sets the standards for evaluation and classification of this type of information. The Consultant has questioned the need for the Department's involvement in this type of work.

Planning and Budget

It is suggested that the Organisation and Methods Group set up a procedural form that would be used by all Government agencies involved in export decisions in order to advise both the Export Promotion Centre and the Institute of Economic and International Research of their actions and to supply relevant information thereon. (See Group One, pages 10 and 14.)

The Consultant suggests that the Department's performance in this area could be greatly improved through the introduction of Programming - Planning and Budgeting System (PPBS) which places stronger emphasis on programming and the means for carrying out programmes. PPBS would also assist in the making of more effective decisions. The Consultant recommends that the Ministry consider establishing an agency in the Government for the preparation of the National Development Plan. Moreover, he recommends that an independent body be established within the Ministry, which would support the Ministry in the preparation of the National Development Plan and its accomplishments.

III. RECOMMENDATIONS

Because of the nature of the assignment and of the problems involved, the Consultant's observations have been addressed to the functions of the Ministry of Economy as a whole - "to look for elements of an interdependent system" in the workings of the Ministry.

The Consultant's recommendations have been organised in terms of who could best take action. Also, table 1 outlines the type of expert which he has observed is needed, the responsibilities to be assigned this expert and the suggested source of possible assistance.

The Consultant has recommended that UNIDO initiate in discussions with the Ministry the need for providing a package programme which may also include non-UNIDO resources of the United Nations.

Recommended Actions within the Ministry

1. Consider assignment of an additional monitoring responsibility to Deputy Ministers for groupings of Departments and agencies within the Ministry. This responsibility should carry a special emphasis on present and potential co-ordination of effort to the common purposes of the proposed groupings. Such an assignment would not disturb the present lines of authority relationships.
2. As an early action under this assignment, each Deputy Minister might be requested to establish a series of workshop sessions with the agencies in his assigned group in order to discuss important points of their direct inter-relations. These sessions could be a part of a larger management conference, possibly organised by the new Senior Deputy Minister, that could serve to introduce new personalities and positions to all the staff in the Ministry. With the workshop component as part of it, the conference could also be a productive opportunity for the staff involved to bring forward their specific needs for support from other agencies and to outline the resources or support that they could provide to other agencies.
3. Assign to the organisation and methods group of the Budget Department the relatively simple procedural problem of establishing a flow of information from the Export Promotion Centre and to the Institute of Statistics and Economics.

Research from all Government agencies on planned actions for creating items for export (See Group One, pages 9 and 14.)

Recommendations Related to the Agencies of the Ministry

1. Delegate authority to the Organisation for Small-Scale Industries and Industrial Estates, under the general policy guidelines of the Department of Industries, to issue licences for establishing small-scale business (See Group Two, page 16.)
2. Endorse the efforts of the Research Centre to establish a permanent committee, under the leadership of the Centre's senior staff, for developing an inter-agency programme for national regional economic development (See Group Two, page 18.)
3. Endorse the proposed seminar on national regional economic development being planned by the Research Centre (See Group Two, page 18.)
4. Direct that any action taken on licensing proposals, for which project evaluation and/or assistance from the Research Centre had been required, be directly communicated to that part of the Centre (See Group Six, page 27.)
5. Recommend that the Departments and agencies involved in licensing decisions and the Research Centre staff develop a simple abstracting procedure whereby licensing actions will be reported to the Centre.
6. Assign several carefully selected, preferably complex, project evaluation problems under joint contract to Technolog and IMI as a simple test of their skills (See Group Three, page 21.)
7. Request joint reports from consultants in both the Export Promotion Centre and the International Exhibition Organisation, in order to establish improved relations between these two agencies.
8. Introduce a proposal for unifying the overseas offices of Iran Air, National Iran Steel Corporation, the Export Promotion Centre, and the International Exhibition Agency. The functions of the Banker/craft Centre and the Iran Steel centre should be combined.
9. Authorise the Research Centre to undertake an investigation on the operations of the Iran Steel Corporation and the National Steel Corporation for comparison. These investigations should be carried out in the number of present ongoing studies and the results of these studies will be used in writing these studies. The methods of investigation and analysis of results should be explained.

10. Arrange for a special study to be made of the investment promotion experiences of foreign countries. The possibility of making this study part of a doctoral programme at the University of Teheran should also be explored. It is further recommended that such an assignment should carry with it a commitment to later serve in a suitable place within the Government. (See Group One, page 11.)

11. Present to the Director of the International Exhibition Organisation a proposal to contact the University of Wisconsin in the United States for information about this Project INFORM. These developed procedures would seem to have direct application in Iran to the need for abstracting and circulating information about foreign trade sources to many potential subscribers in Government and in private industry. (See Group One, page 12.)

Recommendations Related to the Activities of Other
Ministries and Government Agencies

1. Place on the agenda of the High Economic Council a proposal that the top economist resources of the various Ministries represented at the Council be charged with specific responsibility for identifying important business indicators from present and planned information sources, to be used by the Council in its deliberations on economic policy and forecasts.
2. Open discussions with the Chamber of Commerce and Industry as to their interest in providing an information service on world commodity prices and forecasts.

Recommended Assistance from UNIDO

1. The Consultant has recommended that UNIDO assistance be obtained in specific areas as outlined in table 1. Also, he has made over-all recommendations as regards the application of system analysis techniques:
 - a) The potentials for creating a complete systems approach to economic planning through the development of simulation capabilities around the logic and quantified interrelating variable of an input-output table deserves careful consideration. Work in this area will, in a first stage, be potentially useful in identifying and in assigning relative significance to existing information gaps and in directing priority attention to narrowing these gaps.

As this is accomplished and assumptions are firmed with facts, the potentials for managing the major factors in an economy through both policy and actual operational decisions could be most confidently anticipated. Assistance in this area is given high priority.

- b) Government work on economic simulation as a part of advanced management training is also recommended.
 - a) Assistance should be given to those responsible for organizing data for presentation to single or group decision makers in the Ministry. In particular, this expert skill is needed to help depersonalize discussion and to focus discussion on clearly presented facts. This type of work, with a possible interagency phase in one of the major agencies of the Ministry (e.g. the National Iron Steel Corporation) could be brought next to the Ministry and then introduced to the High Councils of Government.

Recommended Assistance from the United Nations

The opportunity for rationalizing the development of mineral resources holds great promise for the application of system analysis skills. Additionally, good foundations have been laid for this development; suitable Government structures and policies exist. This assistance can come only from Economic and Transport Division, Department of Economic and Social Affairs, United Nations Headquarters. (See table 1.)

Recommended Actions That Might be Related to the United Nations Project in Public Administration

a) Consider the establishment of a controller agency in the Ministry in place of the currently weak and divided financial accounting groups. This action, as well as the proposed expansion, should be on the introduction of a financial management system (FMS) and on the establishment of an accounting system (see Study Report, page 26,).

b) Encourage the Ministry to make it a core emphasis in its planning and budgeting that allows investment in the modernization and expansion of the Ministry.

c) Encourage the Ministry to establish a research center

of action taking place in the field where the results can be seen in actual terms.

4. Carry-on with the on-going examination of the customs service. Existing problems seem to have been recognized with attention under way.

the sterilization begun in the atmosphere of
oxygen existing and persisting after the
removal of the sterilizing agent.

Table 1 (continued)

<u>Title</u>	<u>Responsibilities</u>	<u>Suggested Source</u>
<u>National statistician</u>	Assistance to the Statistical Bureau in the work of resolving current conflicts in definitions, classifications and methodology among the Ministry of Economy, the Plan Organization and the Central Bank.	For purely industrial data, UNIDO assistance could be rendered; UN and UNCTAD could assist in other areas. * * *
<u>Information management and system analysis experts:</u>		
<u>Supply management</u>	Assistance to the State Trading Corporation in the introduction of supply management techniques to government	UNDP
<u>Modern cost accounting</u>	Assistance to the National Iron Steel Corporation and to the Industrial Development and Renovation Organization in the design and introduction of a modern cost accounting operational system that would serve as a statistical core data source on national economy.	MINISTRY * * *
<u>Labour scheduling and control</u>	Assistance to the National Industrial Scheduling Centre in the introduction of modern scheduling and management control procedures to the Government-owned steel mills.	UNDP * * *
<u>Modern management development and training</u>	Assistance to Technologic and the Industrial Management Institute (ITI) in the latest management techniques.	(University with assistance from the International Labour Organisation) * * *
<u>Export design expert</u>	Assistance to the Export Promotion Centre in the design of a one-time comprehensive survey that would provide basic inventory record of currently available items for export.	Assistance might be rendered from UNIDO and from UNCTAD.



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