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# MIRI-BINTULU REGIONAL PLANNING STUDY

FOR

THE GOVERNMENT OF MALAYSIA

AND

THE STATE OF SARAWAK

## PROGRESS REPORT

No. 1

JUNE 1972



MIRI-BINTULU REGIONAL PLANNING STUDY,  
FOR THE  
GOVERNMENT OF MALAYSIA & THE STATE OF SARAWAK  
PROGRESS REPORT NO. 1

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At cover

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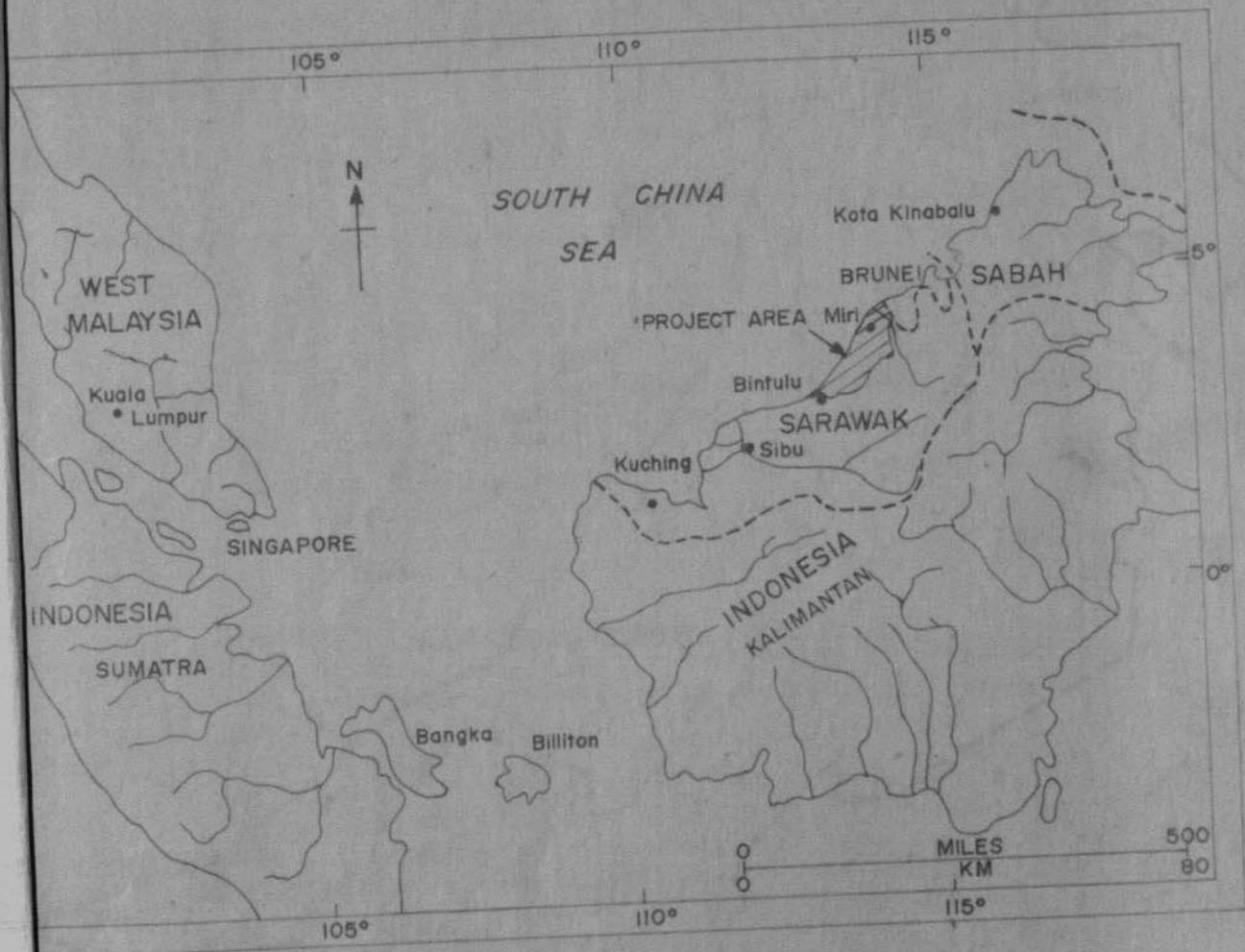
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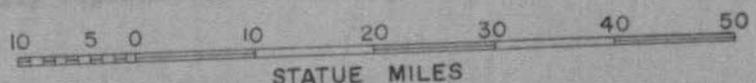
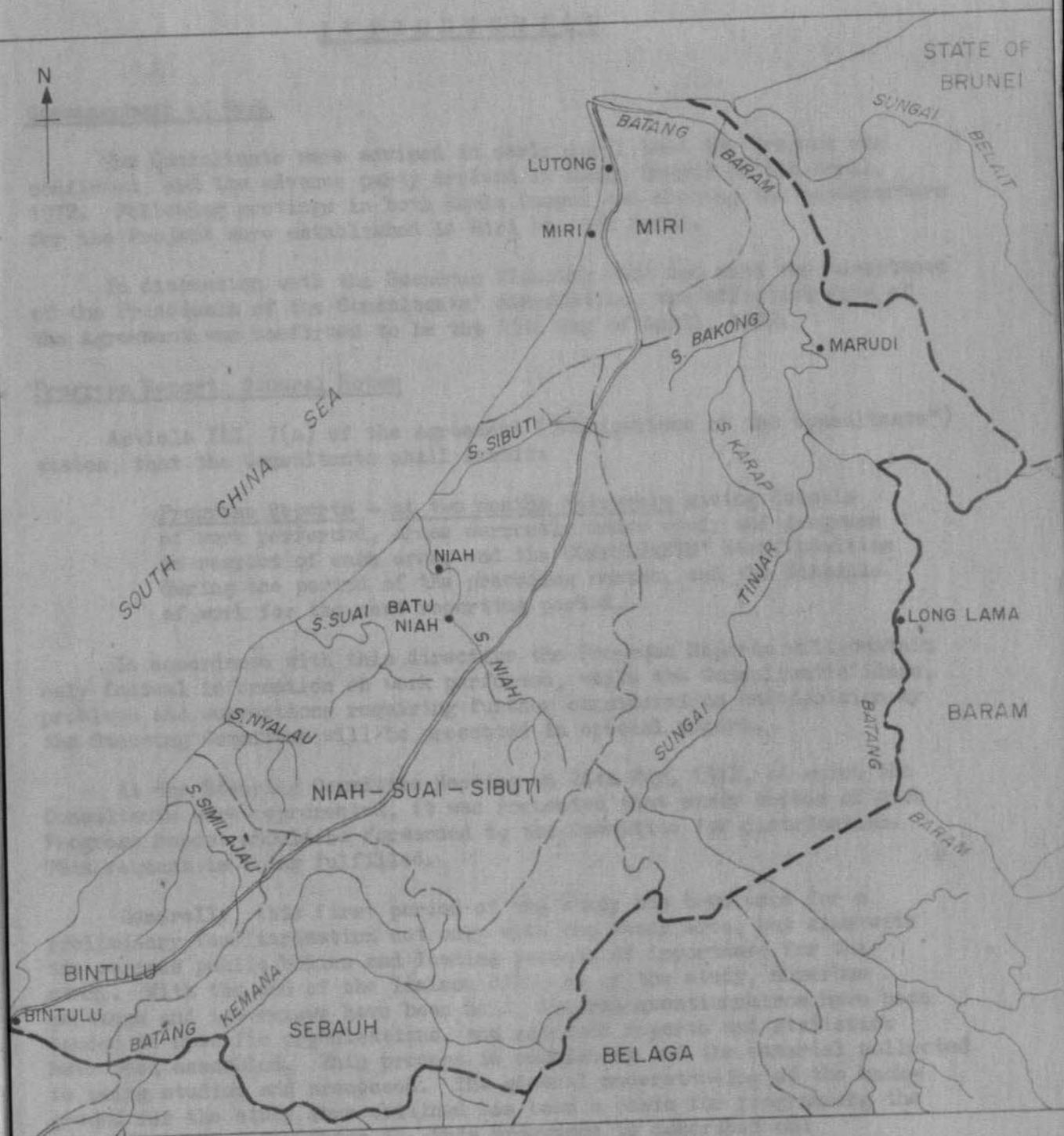
# LOCATION OF PROJECT AREA



LOCATION OF PROJECT AREA

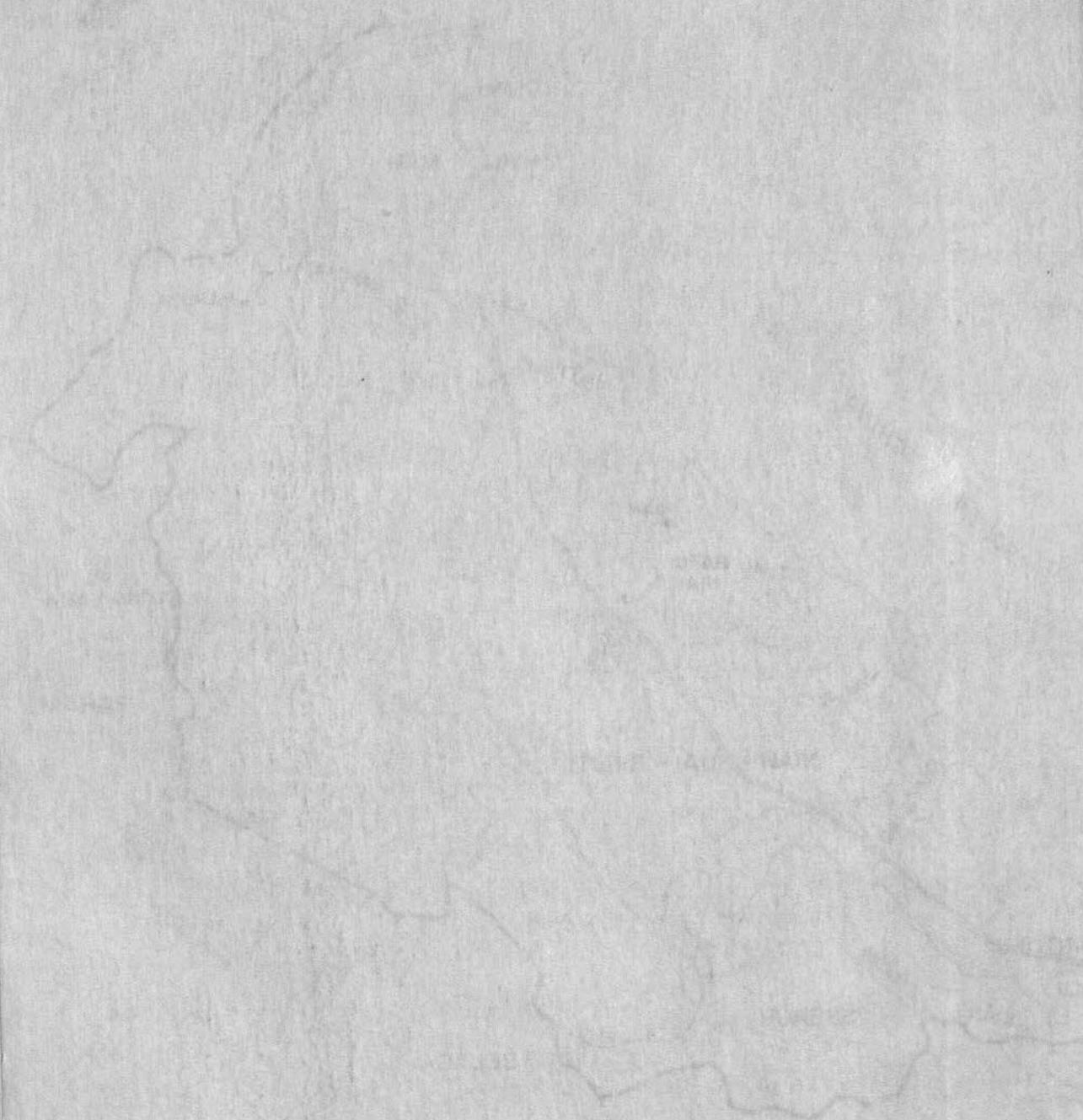


# THE PROJECT AREA



- PROJECT BOUNDARY
- DISTRICT BOUNDARY
- BINTULU SUB-DISTRICT NAMES

THE PROJECT



Scale 1:1000

North Arrow

Legend

## I N T R O D U C T I O N

### Commencement of Work

The Consultants were advised in early April that the Project was confirmed, and the advance party arrived in Kuala Lumpur on 8th April, 1972. Following meetings in both Kuala Lumpur and Kuching the headquarters for the Project were established in Miri on 19th April.

In discussion with the Economic Planning Unit and with the acceptance of the Principals of the Consultants' Association, the effective date of the Agreement was confirmed to be the 15th day of April, 1972.

### Progress Report: General Notes

Article III, 7(a) of the Agreement ("Obligations of the Consultants") states, that the Consultants shall submit:

Progress Reports - at two months intervals giving details of work performed, areas currently under study and progress in respect of each area, and the CONSULTANTS' staff position during the period of the preceding months, and the Schedule of work for the next reporting period.

In accordance with this directive the Progress Reports will contain only factual information on work performed, while the Consultant's ideas, problems and suggestions requiring further consideration and decision by the Steering Committee will be presented in special papers.

At the Steering Committee Meeting on 24th May, 1972, at which the Consultants were represented, it was requested that sixty copies of each Progress Report should be forwarded to the Committee for distribution. This request is being fulfilled.

Generally, this first period of the study has been used for a preliminary familiarization not only with the study area, but also with the various public bodies and leading persons of importance for the study. With the aid of the liaison officers of the study, numerous meetings and interviews have been held, several questionnaires have been handed to specific organisations, and relevant reports and statistics have been assembled. This process is continuing and the material collected is being studied and processed. The general understanding of the background for the study thus obtained has been a basis for programming the preliminary work for Phase I. This programme is described and diagrammatically represented in the Report.

INTERPRETATION

Management of Work

The following information is being furnished to you for your information and guidance. It is based on the information received from the various sources mentioned herein. It is intended to provide a general overview of the situation and to identify the key issues involved. The information is not intended to be a substitute for a detailed study of the subject matter.

Management of Work

Article III (a) of the Agreement (Interpretation of the Classification of Work) - The Commission shall determine the classification of work.

The Commission shall determine the classification of work. It shall take into account the nature of the work, the responsibilities involved, and the qualifications required for the position. The Commission shall also take into account the experience and training of the employee.

The Commission shall also take into account the experience and training of the employee. It shall determine the appropriate classification for the position based on the above factors. The Commission's decision shall be final and binding.

The Commission shall also take into account the experience and training of the employee. It shall determine the appropriate classification for the position based on the above factors. The Commission's decision shall be final and binding.

The Commission shall also take into account the experience and training of the employee. It shall determine the appropriate classification for the position based on the above factors. The Commission's decision shall be final and binding.

PROJECT MANAGEMENT

1. STAFFING

<u>Position and Name</u>	<u>Chargeable Date</u>
1. C. J. Mathiesen, Project Manager	26-28.4.72 1.5.72 -
2. M. H. F. Cooper, Dy. Project Manager and Sen. Agriculturist	7.4.72 - 13.5.72 24.5.72 -
3. R. B. Tucker, Survey & Report Coordinator	7.5.72 -
4. I. L. A. Ysselmuiden, Sen. Land Classifier	8.4.72 -
6. F. A. Sole, Agricultural Economist	9.5.72 -
8. F. S. Walker, Forest Inventory and Utilisation	14.5.72 -
9. S. Jorgensen, Regional Planner	8.5.72 -
10. M. Iuul, General Economist I	28.4.72 -
13. L. Skule, Physical Planner	8.5.72 -
16. J. Stowell, Hydrologist	3.6.72 -
20. H. A. Rancom, Administrative Manager	7.4.72 -
21. V. C. Robertson, Director & General Manager, HTS.	27.4.72 - 4.5.72

Government Counterparts

Mr. Lim Chin Pang, Soil Surveyor, Department of Agriculture, joined the Project on 31st May, 1972 and Mr. Clement Ngui, Agriculturist, Department of Agriculture, joined on 5th June, 1972.

2. ADMINISTRATION AND FINANCE

- a) Housing : 8 houses and 2 flats have been rented for the Consultants' use.
- b) Offices : The new office block at Pujut Road was occupied at the end of May. Air-conditioning and screening of the North side windows has yet to be completed.
- c) Transport :  
State as at 15.6.72:

6 Land Rovers 109 Diesel with King Winch

State and Local

1. Washington, Project Manager

2. H. E. Sawyer, Jr. Project Manager and Joint Administrator

3. H. E. Sawyer, Survey & Report Coordinator

4. J. A. Yastimishin, Gen. Insp. Classification

5. E. A. Bois, Agricultural Economist

6. J. A. Yastimishin, Forest Inventory and Classification

7. E. J. Grogan, Regional Planner

8. J. A. Yastimishin, General Consultant

9. J. A. Yastimishin, System Engineer

10. J. A. Yastimishin, Hydrologist

11. J. A. Yastimishin, Administrative Manager

12. J. A. Yastimishin, Director & General Manager

1951

Government Contractors

13. The Soil Conservation Service, Department of Agriculture, joined the project on February 1952 and 21. District Engineer, Agricultural Research Administration, joined on the same date, 1952.

ADMINISTRATIVE AND FINANCIAL

a) Planning & Finance and 21.21 have been noted for the Government.

b) Office: The two office blocks at 21.21 have been occupied at the end of 1951, air-conditioning and remodeling of the main office building has yet to be completed.

c) Finance: 21.21

21.21 have been noted for the Government.

Government

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- 2 Land Rovers 88 Petrol
- 2 B.M.C. Mokes
- 1 Ford Cortina (purchased second-hand)

d) Equipment: Satisfactory.

e) Malaysian Staff

Following public advertisement and selection, the full complement of administrative and service staff has been engaged. Field staff and temporary enumerators will be required later in the study and an indication of the needs has been discussed with the Labour Officer, Miri.

f) Funds

The first deposit of local funds was received in April.

g) Accounts

The first Statement of Account to 31.5.72 was submitted via the State Financial Secretary on the due date.

h) General

The Consultants wish to record their appreciation of the assistance and cooperation afforded by Federal and State Officers in establishing the project and in the supply of photographs, maps, books and data.

### 3. SCHEDULE OF WORK

In the proposals submitted by the individual firms of the Consultant's Association broad work plans and programmes have been presented. These work programmes will be revised in greater detail as new information and understanding becomes available throughout the study.

A preliminary Work Programme Chart concerning Phase I of the study has been set up as an instrument for internal coordination. A copy of the chart is attached. The chart is at the same time a basis for establishing work programmes for the individual staff members. These programmes are summarised below.

It should be emphasized, that work planning of this kind must be flexible in order to incorporate new data and information as well as new ideas. It must, therefore, be based on a continuous review of the programme.

1. Ford Corbin (present account-hand)  
2. J. H. L. Jones  
3. J. H. L. Jones

4) Equipment: Laboratory.

5) Maintenance Staff

Following public advertisement and selection, the full complement of administrative and service staff has been organized. Field work and temporary assistance will be required later in the study and an indication of the needs has been discussed with the laborer, Officer, Mr. J.

6) Funds

The first deposit of local funds was received in April.

7) Accounts

The first statement of account to J. S. J. was submitted via the State Provincial Secretary on the 15th.

8) General

The Committee wish to record their appreciation of the assistance and cooperation afforded by Federal and State Officers in establishing the project and in the receipt of photographs, maps, books and data.

CONCLUSION OF WORK

In the proposals submitted by the individual members of the Committee's various field work plans and programs have been presented. These programs will be revised in greater detail as new information and existing resources available throughout the study.

A preliminary work program chart concerning Phase I of the study has been set up as an instrument for internal coordination. A copy of the chart is at the same time a basis for establishing programs for the individual field workers. These programs are listed below.

If should be emphasized that work planning of this kind was a life in order to incorporate new data and information as well as new ideas. It therefore, be based on a continuous review of the program.

Furthermore, it will be realized that the working procedure, including the current contact and discussions between the Consultant's staff, counterparts and local authorities, cannot be adequately displayed in a relatively simple chart.

The chart primarily serves as an outline of the present individual work tasks and their connecting links, leading to the final reports and plans to be presented to the Steering Committee.

In order to produce a Perspective Plan covering the next twenty years, the work of the first six months will basically be carried out along two major lines:-

- 1) natural resources
- 2) economic and demographic conditions

During this period, the construction of a regional economic model will be attempted in order to constitute the theoretical basis of the Perspective Plan. After six months the Zonation Plan and an assessment of the economic and demographic conditions in the region will be combined in a Status Report. This Report, will contain both zoning proposals and an economic/demographic review of the area, and will be used as the basis for the subsequent three months of work on the Perspective Plan.

Parallel to the work on the Perspective Plan, field work with respect to soils and land classifications will be continued in order to select the areas to be developed during the Master Plan period.

The first stage for all disciplines involved in the Study is the collection of data and other basic material. The next stage is the processing of this material with the aim of assessing the development potential of the area.

It is intended that the Perspective Plan will outline alternative development strategies and their outcomes in order that the Steering Committee may have the necessary guidance for decisions on the most acceptable development strategy for the area.

The alternatives will be the result of the various possible combinations of the development potentials for natural, human, infra-structural and industrial resources. As a result of this, interpretation of broader development goals, specific objectives and the ways of meeting these can be discussed.

Regional development will be set in the context of overall development in Sarawak and discussions and decision made at this stage will be vital to work on the Master Plan and detailed implementation plans of Phase II of the study.



Work Programmes for the Next Period

Senior Agriculturist - Continue with familiarisation trips in the study area; continue studies of possible agricultural development enterprises.

Senior Land Classifier - Continue with aerial photo-interpretation; carry out field checks as found necessary; commence compilation of aerial photo-interpretation map and Zonation Plan.

Agricultural Economist - Continue with collection of basic data, unit costs of activities, internal and external demand studies and valuation of agricultural inputs and outputs.

Consultant Forester - Complete plans for supplementary forest resources inventories in the study area; commence terrain classification; continue collection and analysis of exploitation block closing reports.

Regional Planner - The task of the regional planner covers several of the sectors under study. In Phase I he will be partly responsible for regional aspects of:-

- 1) Population and Labour
- 2) Production and Trade
- 3) Transport Supply and Demand
- 4) Public Finance and Administration.

The data from these studies will be processed to fit into a regional economic model. This model will be prepared by the general economist and the regional planner.

During the first month of work the regional planner has processed population data for the study area. Similar processing will be carried out on labour, production and trade figures.

A feeder-road survey to Brunei has been carried out and an Origin-Destination survey for all roads in the study area is being planned.

Meetings have been held with the Statistics Department, Kuching; Land & Survey Department, Kuching and Miri; District Officer, Miri, and Marine Department, Kuching.

Physical Planner - The physical planner, will in general cover the following aspects of the overall programme, namely:-

- 1) settlement pattern, i.e. distribution, relationship, type, etc.
- 2) demography in relation to settlement
- 3) infrastructural services and facilities
- 4) communication.

The first period for this post ends about mid August.

General Introduction - The course is designed to provide a general introduction to the study of the history of the world.

Part I: The World in the Middle Ages - This section covers the period from the fall of the Roman Empire to the beginning of the Renaissance.

Part II: The World in the Modern Age - This section covers the period from the Renaissance to the present day.

Part III: The World in the Twentieth Century - This section covers the period from the beginning of the twentieth century to the present day.

Part IV: The World in the Twenty-First Century - This section covers the period from the beginning of the twenty-first century to the present day.

- 1. Political and Social
- 2. Economic and Trade
- 3. Religious, Art and Literature
- 4. Intellectual and Philosophical

This from these sections will be presented in the form of a general introduction to the study of the history of the world.

During the first week of work the general introduction will be given and the first section will be dealt with.

A teacher-lead survey of the world has been carried out and an outline of the course has been given.

Part I: The World in the Middle Ages - This section covers the period from the fall of the Roman Empire to the beginning of the Renaissance.

- 1. Political and Social
- 2. Economic and Trade
- 3. Religious, Art and Literature
- 4. Intellectual and Philosophical

Part II: The World in the Modern Age - This section covers the period from the Renaissance to the present day.

## The General Economist

The schedule of work for the General Economist comprises the preparation of an economic model, into which the relevant factors in the regional economic pattern should be fitted.

The model will probably be made according to the lines that are used for national and regional economic input/output matrices. Consequently a description of the structure and an account of the following economic aspects will be carried out:

- 1) Income
- 2) Demand/Consumption
- 3) Supply/Production
- 4) Capital/Investment

To obtain the necessary information for the production of the economic model, all available statistics and other relevant information will first be collected and collated.

This data-collection has been organized in such a way that the different specialists in the study group will be able to supply statistics on their specific fields. The general economist is covering the following sectors, some partly in collaboration with the regional planner:-

- 1) Mining (including oil)
- 2) Production and Trade
- 3) Income and Consumption
- 4) Transport Supply and Demand
- 5) Public Finance and Administration.

The General Ledger

The objective of work for the General Ledger is to provide a complete and accurate record of all financial transactions of the organization. It is the responsibility of the General Ledger to ensure that all transactions are properly recorded and classified in accordance with the accounting system. The General Ledger will provide the basis for the preparation of financial statements and for the determination of the organization's financial position at any given time.

- 1. Income
- 2. Expenses
- 3. Assets
- 4. Liabilities

To obtain the necessary information for the preparation of financial statements, all financial transactions must be properly recorded and classified. The General Ledger will provide the basis for the preparation of financial statements and for the determination of the organization's financial position at any given time. The General Ledger will also provide the basis for the determination of the organization's financial position at any given time.

- Income (including all)
- Expenses and Losses
- Assets and Liabilities
- Equity and Reserves
- Other Financial Statements

PROGRESS

SECTION A: NATURAL RESOURCE STUDIES

1. SOILS

Aerial Photo-Interpretation

After an unexpected long period of mobilization, the aerial photo-interpretation of the Project Area was started during the first week of May. However, initially work on this part of the study was rather erratic due to the fact that certain essential materials and equipment were not immediately available.

A preliminary study of a number of randomly selected sample runs were completed towards the third week of May and a preliminary aerial photo-interpretation legend established. Discussions were held with a member of the Soil Survey Division, Department of Agriculture and with some modifications this legend is now in use for the systematic interpretation of the Project Area.

For the period under review the total area covered by the systematic aerial photo-interpretation amounts to approximately 1.5 million acres. It is hoped that the compilation of the interpretation map could commence during the first week of July.

The scale of the draft aerial photo-interpretation map would be 1:50,000. The Zonation Plan will be published at a scale of 1:250,000. This scale should be sufficient in view of the limited available soil and terrain data.

2. AGRICULTURE AND LIVESTOCK

This study covers agriculture in its broadest sense. It includes



investigations into all aspects of agricultural economics, the potential for annual and perennial cropping, livestock and inland fisheries as well as the possibilities for land improvement by drainage and irrigation.

The period covered has been spent, by the Senior Agriculturist, in obtaining information concerning agriculture in Malaysia as a whole and the study area in particular. In this connection the following organisations and institutions were visited:

The Economic Planning Unit - Kuala Lumpur,

The Departments of Agriculture - Kuala Lumpur and Kuching,

The Federal Land Development Authority - Kuala Lumpur,

The State Land and Survey Department - Kuching,

A Coconut Rehabilitation Scheme - Selangor State, West Malaysia,

Harrison and Crosfield's Oil Palm Research Station - Banting, West  
Malaysia,

Brookland Oil Palm and Rubber Estate - Banting, West Malaysia,

The Agricultural Research Centre, Semongok - Sarawak,

The Tarat Research Station and Farm Institute - Sarawak,

The Cocoa Planting Scheme (Nonok - Beliong area) - Sarawak,

The Kebuloh Research Station and Farm Institute - Miri District,

The Bukit Peninjau Oil Palm Scheme - Miri District,

The Paya Selanyu Irrigation and Drainage Scheme - Miri District,

The Bungai Mummong Drainage Scheme - Miri District.

In addition familiarization tours were made into the Niah and Suai River areas. Work has started on the assessment of livestock and crop activities which appear suitable for the study area.

...all aspects of agricultural development, the potential for  
...and potential crop, livestock and aquaculture production on both the  
...and improved by research and extension  
...has been spent by the Government  
...in relation to agriculture in relation to the  
...in particular. In this connection the following organizations and  
...were visited:

- The National Planning Unit - Kuala Lumpur
- The Department of Agriculture - Kuala Lumpur and Seremban
- The National Land Development Authority - Kuala Lumpur
- The State Land and Survey Department - Ipoh
- A Deputy Commissioner's Office - Seremban
- Barisan and Government Oil Palm Research Station - Seremban

- Malaysia
- Brookland Oil Palm and Rubber Estate - Seremban, West Malaysia
- The Agricultural Research Centre, Seremban - Seremban
- The Forest Research Station and Palm Research Station - Seremban
- The Good Planting Scheme (Kuala Lumpur) - Kuala Lumpur
- The Rubber Research Station and Palm Research Station - Seremban

- The Palm Research Oil Palm Station - Seremban
- The Palm Research Station and Rubber Station - Seremban
- The Rubber Research Station - Seremban

In addition field visits were made to the following areas  
...was started on the management of industrial  
...for the study area.

Agricultural Economics

The Agricultural Economist visited EPU, MARDI and the Veterinary Division in Kuala Lumpur.

In Kuching, visits were made and data collected from:

Department of Agriculture

Research Division

Economics Division

Vetinary Division

Geological Survey

Sarawak Land Development Board

State Planning Office

Stapok Deep Peat Station.

Work has started in Miri on collation of the data collected and further background information and costs have been obtained.

Information was also collected in conjunction with the Senior Agriculturist during visits to:

Agricultural Research Centre, Semongok,

Tarat Reasearch Station,

Cocoa and Coconut area - Nonok.

The Agricultural Economist has also been cooperating with the other study disciplines in formulating and planning the interdisciplinary inputs, outputs and study phasing.

Requests have been made to EPU for the working data gathered during the Johor Tenggara Masterplan Study as this will materially assist in the task of assessing the local and export market possibilities for basic agricultural commodities.

The Agricultural Department, Ministry of Agriculture, Government of India, New Delhi, India.

Dear Sir,

Reference is made to your letter of the 15th instant regarding the above-mentioned subject.

The Department of Agriculture, Government of India, New Delhi, India.

Respectfully,  
Yours faithfully,

Secretary to the Government of India,  
Ministry of Agriculture, New Delhi.

Enclosed for the Ministry of Agriculture, Government of India, New Delhi, India, are the following documents:

1. Report of the Agricultural Commission, 1949-50.

2. Report of the Agricultural Commission, 1950-51.

3. Report of the Agricultural Commission, 1951-52.

4. Report of the Agricultural Commission, 1952-53.

It is requested that you may please forward the above-mentioned documents to the Ministry of Agriculture, Government of India, New Delhi, India, for their consideration.

Very truly yours,  
Secretary to the Government of India,  
Ministry of Agriculture, New Delhi.

Information was also collected in the Ministry of Agriculture, Government of India, New Delhi, India, regarding the above-mentioned subject.

Enclosed for the Ministry of Agriculture, Government of India, New Delhi, India, are the following documents:

1. Report of the Agricultural Commission, 1949-50.

2. Report of the Agricultural Commission, 1950-51.

3. Report of the Agricultural Commission, 1951-52.

The Agricultural Commission, Government of India, New Delhi, India, has also been constituted in the other States and Union Territories.

It is requested that you may please forward the above-mentioned documents to the Ministry of Agriculture, Government of India, New Delhi, India, for their consideration.

Very truly yours,  
Secretary to the Government of India,  
Ministry of Agriculture, New Delhi.

Reference has been made to your letter of the 15th instant regarding the above-mentioned subject.

It is requested that you may please forward the above-mentioned documents to the Ministry of Agriculture, Government of India, New Delhi, India, for their consideration.

Very truly yours,  
Secretary to the Government of India,  
Ministry of Agriculture, New Delhi.

Enclosed for the Ministry of Agriculture, Government of India, New Delhi, India, are the following documents:

Mr. Clement Ngui, the agricultural counterpart assigned to the study assisted in the extraction of detailed data from a farm survey in the First Division and in bringing agricultural statistics up to date. He joins the study in Miri with effect from 12th June.

### 3. FORESTRY

The Consultant Forester having spent most of the period liaising closely with the UNDP/FAO team has ascertained through intensive aerial photo-interpretation that the state-wide forest resources inventory carried out by that team requires supplementary work in specific parts of the study area. Preparations for the proposed field work are being conducted in conjunction with the State Forest Department who have kindly agreed to assist in the recruitment of field teams and to provide three experienced forest guards as team leaders. Mr. C. L. Carrier, who will supervise the field work, has recently arrived in Kuching in order to familiarise himself thoroughly with the requirements and special techniques of the work.

### 4. MINING

Studies of the structure of the mining industry within the project area have been made, and production figures assembled.

The special position of Sarawak Shell Berhad - which accounts for a large part of the regional economic output - makes it important that the necessary data concerning this enterprise be disclosed. Several visits and meetings in connection with this matter have been undertaken. Among these

... Division and ...

**EXHIBIT**

The Consultant ...

**EXHIBIT**

... of the ...

are:-

State Financial Secretary, Kuching,  
Department of Land & Survey, Miri and Kuching,  
Sarawak Shell Berhad, Miri.

Working meetings with the Shell Company have been arranged and the Consultants expect a positive outcome from these discussions. There are few other mining enterprises in the project area. Questionnaires on their production, turnover, employment etc. have been devised and these will be distributed to all the mining companies listed on the mining licence applications register in the Department of Land & Survey, Miri.

A meeting with the Director of Mines will be arranged.

#### 5. WATER RESOURCES

During a fortnights stay in Malaysia the consultant Hydrologist collected statistics and other relevant information in Kuala Lumpur, Kuching, Brunei, Sabah and in the study area. This data will be analysed in the United Kingdom. The Hydrologist had discussions with the Drainage and Irrigation Department in Kuching to ensure that any future work planned by the consultants in the study area will be in co-operation with the Department and to the advantage of both parties.

State Historical Society, Madison

Department of Land & Survey, State and National

Survey, State, Madison, Wis.

During the past few years the State Historical Society has been working on the  
 project of a comprehensive survey of the State. This project  
 will be carried out in three stages. The first stage will be  
 a general survey of the State. The second stage will be a  
 detailed survey of the principal features of the State. The  
 third stage will be a detailed survey of the principal features  
 of the State. A meeting with the Director of the State Historical Society  
 will be held in the near future.

STATE HISTORICAL SOCIETY

During a forthcoming year in Madison the State Historical Society  
 will be carrying out a project of a comprehensive survey of the State.  
 This project will be carried out in three stages. The first stage  
 will be a general survey of the State. The second stage will be a  
 detailed survey of the principal features of the State. The third  
 stage will be a detailed survey of the principal features of the State.  
 A meeting with the Director of the State Historical Society will be  
 held in the near future.

SECTION B : POPULATION, PRODUCTION, ETC.

1. Population & Labour

The existing population data will be one of the bases for population forecasts. Thus population figures for the study area, dated June 1967, have been processed and presented in an internal working paper. The data have been distributed on the Census Circles used in the 1970 Census. Data are shown both in tables and on Maps.

With the co-operation of the District Officers, population data from the 1970 Census are being processed. To obtain a more complete picture of the labour situation, however, the data will be specially processed by the computer at the Statistics Department in Kuala Lumpur.

2. Production and Trade

An Intermediary Industrial Classification has been devised to provide the basis for a detailed description of production in the planning area. This has been based on the standard classifications and adapted for the purpose of this study. The combination of existing published information and basic material provided by the relevant censuses, in the Department of Statistics, together with information from public enterprises will enable a complete picture of production inputs and outputs in the region to be established. Similarly the production figures from the trade sector will be important for the total economic review of the planning area. Several meetings have been undertaken to obtain information in these sectors. Among these are:-

Department of Statistics, Kuala Lumpur and Kuching.

SECTION 3 : POPULATION, PRODUCTION AND TRADE

1. Population & Labour

The existing population data will be one of the bases for population forecasts. These population figures for the study area dated June 1955, have been reviewed and presented in an internal working paper. The data have been distributed to the Census Office used in the 1970 Census. This also shows both in tables and on maps.

With the co-operation of the District Officer, population data from the 1970 Census are being processed. To obtain a more complete picture of the labour situation, however, the data will be specially processed by the computer at the Statistics Department in Kuala Lumpur.

2. Production and Trade

An immediate Industrial Classification has been devised to provide the basis for a detailed description of production in the planning area. This has been based on the standard classifications and adapted for the purpose of this study. The compilation of existing published information and data received provided by the relevant sources, to the Department of Statistics, together with information from public enterprises will enable a complete picture of production inputs and outputs to the region to be established.

Similarly the production figures from the trade sector will be important for the total economic review of the planning area. Several meetings have been undertaken to obtain information in

these sectors. Among these are:-

Department of Statistics, Kuala Lumpur and Ipoh.

Marine Department, Kuching.

The Treasury, Kuching.

Inland Revenue Department, Kuching.

Customs Office, Miri.

Straits Steamship Company, Singapore.

Chinese Chamber of Commerce, Miri.

Data-collection for the trade sector is closely allied to the transport sector. An investigation of the trade pattern and trade's contribution to the regional product is being carried out in conjunction with the transport survey.

### 3. Income and Consumption

To date little emphasis has been placed on this part of the study. The creation of income, which should be calculated on the basis of the total regional economic activity will consequently be investigated when the sector data have been compiled.

Personal income, distribution and consumption will be calculated as soon as the relevant statistics have been obtained. Consumption surveys on major Sarawak towns are now being produced by the Department of Statistics in Kuching and it is expected that regional income calculations worked out by EPU, Kuala Lumpur and possibly other bodies will be made available.

- Marine Department, London.
- The Treasury, London.
- India Revenue Department, London.
- Customs Office, Mauritius.
- British Steamship Company, Singapore.
- Chinese Chamber of Commerce, Mauritius.

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SECTION C: TRANSPORT AND COMMUNICATIONS

1. TRANSPORT SUPPLY & DEMAND

The transport pattern in the region is made up of different kinds of traffic, of which only the road traffic has been regularly investigated.

The Public Works Department (PWD) undertakes bi-annual censuses on state-roads and the statistical information given in the original census forms seems to be quite valuable.

It is the intention to carry out a thorough survey of traffic in the region in the near future. This investigation will comprise Origin-Destination Surveys for road, river, sea and air traffic. This Survey is initiated by the urgent need for detailed statistics on trade and traffic sectors.

The collaboration of the local Police and PWD has been obtained for the Origin-Destination Survey. The PWD in Kuching has been requested to supply information on traffic, road construction and maintenance costs, vehicle operation costs etc.

To extend the range of information on state-roads as given in the annual road inventories of the PWD a supplementary road inventory comprising the quality of the major roads and general description of feeder roads inside and bordering the study area has been started. At present the roads north of Miri have been covered and probable connections to port facilities outside the study area have been investigated.

STATE OF TEXAS

TRANSPORTATION

The transport pattern in the region is made up of all types of traffic, of which only the road traffic has been thoroughly investigated. The Police Work Department (P.W.D.) maintains a manual database on state-roads and the statistical information given in the original census forms was to be made available.

If in the future a survey of a thorough survey is needed in the region in the near future, this investigation will comprise a traffic survey for road, river, and air traffic. This survey is needed by the report and detailed statistics on roads and traffic.

The collaboration of the local Police and P.W.D. has been obtained for a traffic investigation survey. The P.W.D. investigation has been requested to supply information on traffic, road construction and maintenance costs, and other operation costs.

To extend the scope of information on state-roads as given in the final road investigation of the P.W.D. a supplementary road inventory containing a quality of the major roads and general description of feeder roads inside the bordering the study area has been started. At present the feeder roads which have been covered and possible suggestions to port facilities outside the study area have been investigated.

SECTION D: SETTLEMENTS AND INSTITUTIONS

1. PUBLIC FINANCE AND ADMINISTRATION

The period covered has been concerned with a general familiarisation with the administrative procedures in Sarawak. Instructive meetings have been held with - EPU, Kuala Lumpur,

- State Financial Secretary, Kuching,
- The Treasury, Kuching,
- Sarawak Economic Development Corporation, Kuching.

More detailed work on the administrative organisation has been suspended until the arrival of the counterpart. Investigations into the public financial sectors are scheduled to be carried out at a later date.

2. Settlements and Infrastructures.

The complex settlement system will in a first stage be analysed and studied at the state level, in order to establish an overall setting for a later detailed analysis in and immediately around the study area.

Detailed investigations into the various aspects of the settlement system within the project area will be undertaken covering the following major subjects:

- a) settlement environment
- b) Public services and facilities
- c) utility services
- d) commercial (and industrial) services
- e) transportation
- f) housing

The analysis of the settlement pattern will involve major multi-disciplinary factors; e.g.

Physical factors: terrain,

ANNEX D: SETTLEMENT AND INVESTMENT

SETTLEMENT AND INVESTMENT

The period covered has been compared with a general settlement...  
 the administrative procedure to be followed. Information regarding...  
 - State Financial Services, Housing  
 - The Treasury, Housing  
 - Barakat Economic Development Corporation, Housing  
 more detailed work on the administrative organization has been reported...  
 the arrival of the organization. Investigations into the...  
 of the sector are scheduled to be carried out at a later date.

Settlements and Investments

The overall settlement system will in a first stage be analyzed...  
 at the regional level, in order to establish an overall setting for...  
 this detailed analysis in and subsequently around the study area.  
 Detailed investigations into the various aspects of the settlement...  
 within the project area will be undertaken covering the following

- a) settlement environment
- b) Public services and facilities
- c) utility services
- d) commercial (and industrial) services
- e) transportation
- f) housing

The analysis of the settlement system will involve major multi-

disciplinary factors...

Physical factors: terrain

- land use
- transportation network
- social : demographic aspects,  
social structure of ethnic groups,  
level of education,  
religious beliefs, habits
- economic : markets for farm produce and  
distribution in the rural setting of  
other consumption goods,  
availability of working capital
- administrative : land tenure policy,  
policy of government in land  
settlement schemes and location  
of services

After a period of briefing and interviews with departments in Kuching, relevant information, i.e. reports and maps were assembled. A start was then made on the collection and collation of data in Miri leading to the development of a programme of work. Initial studies have been concerned with the analysis of the settlement system on a state level and detailed investigations of the settlement and the infrastructure in and around the study area. Field excursions have been made between Miri and Brunei, examining roads and settlements, and between Miri and Bintulu by road to the River Suai. Field trips are under preparation to Marudi and the River Baram. An air reconnaissance of the Baram and Kemena River basins is proposed.

A working paper on the major effects of urbanization in the State of Sarawak as background information to the more detailed analysis and proposals for the study area is in preparation, together with a working paper on subjects for investigation in connection with settlements, as a base for a later elaboration of standards and recommendations.

Land use	
Transportation network	
Demographic aspects	social
social structure of ethnic groups	
level of education	
religious beliefs, habits	
members for land purchase and	economic
distribution in the rural setting of	
other construction works	
availability of working capital	
land tenure policy	administrative
policy of government in land	
settlement schemes and location	
of services	

After a period of briefing and interviews with departments in charge, relevant information, i.e., reports and maps were assembled. A study was then made on the collection and collation of data in Kiri leading to the development of a programme of work. Initial studies have been concerned with analysis of the settlement pattern on a state level and detailed investigations of the settlement and the infrastructure in and around the study area. Field excursions have been made between Kiri and Binalu, covering roads and settlements, and between Kiri and Binalu by road to the river bank. Field trips are under preparation to Kandi and the River Baram. The recommendations of the River and Yema River basins is proposed. A working paper on the major effects of urbanization in the State is being prepared in connection with the very detailed analysis and results for the study area is in preparation, together with a working paper on subjects for investigation in connection with settlements, as a basis for a detailed study of standards and recommendations.

3. Sociological aspects

The work in this respect will be undertaken by the sociologist arriving later. Preparatory work on defining his role in the work programme is being made assuring a satisfactory co-ordination of the various aspects.

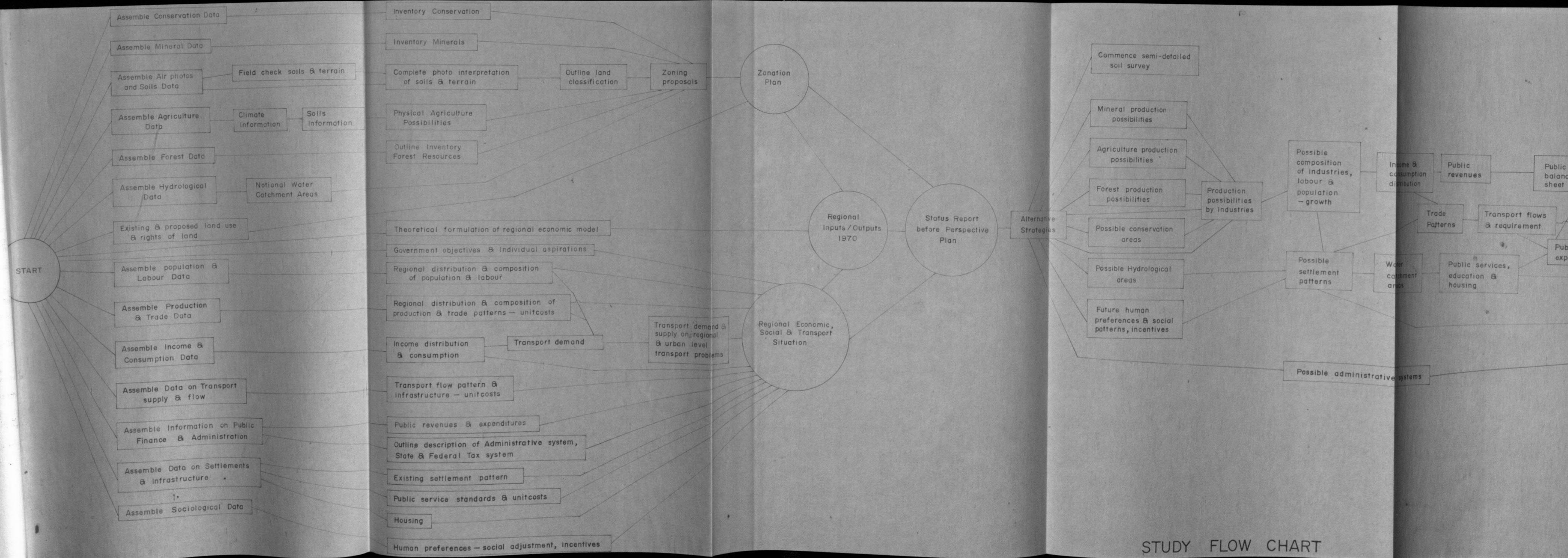
Sociological aspects

The work in this respect will be undertaken by the sociologist  
 working in the laboratory work on defining his role in the work program  
 of the laboratory concerning a satisfactory organization of the various aspects.

APPENDIX TO  
PROGRESS REPORT NO. I

Counterparts to be made available by Government

<u>Designation</u>	<u>Name of Officer</u>	<u>Department</u>	<u>Date required</u>	<u>Available</u>
Soil Surveyor	Lim Chin Pang	Agric.	Now	Now
Sociologist	Hatta Solhi	Agric.	15 June	July
Town Planner	Lawrence Law	L & S	Now	Awaiting return from overseas
Regional Planner	Chia Pit Chung	L & S	July	- do -
Economist	Hamzah Bin Haji Drahman	SEDC	15 June	Now
Highway Engineer	Dennis Chua	PWD	Not specified. Required from time to time.	Now
Hydrologist	Still to be named	DID	3 June	-
Hydrological Assistant	- do -	DID	June	-
Agriculturist	Clement Ngui	Agric.	Now	Now
Asst. Town Planners	To be named	L & S	Later on in Phase II	-



STUDY FLOW CHART

