

021
PD-PA#-(020-B)

Proj. 5220039.9
PA#-
5220039(9)

AID 1025-1 (7-71) (FACE SHEET)
NONCAPITAL PROJECT PAPER (PROP)

15p. PAGE 1 of 3 PAGE

I. PROJECT IDENTIFICATION

1. PROJECT TITLE
National Data Systems

APPENDIX ATTACHED
 YES NO

2. PROJECT NO. (M.O. 1095.2)
522-11-790-039-9

3. RECIPIENT (specify)
 COUNTRY **Honduras**
 REGIONAL INTERREGIONAL

4. LIFE OF PROJECT
BEGINNING FY **72**
ENDING FY **77**

5. SUBMISSION
 ORIGINAL **5/18/72** DATE
 REV. NO. DATE
CONTR./PASA NO.

II. FUNDING (\$000) AND MAN MONTHS (MM) REQUIREMENTS

A. FUNDING BY FISCAL YEAR	B. TOTAL \$	C. PERSONNEL		D. PARTICIPANTS		E. COMMOD. FEES \$	F. OTHER COSTS \$	G. PASA REQUIRE.		H. LOCAL EXCHANGE CURRENCY RATE \$ US (U.S. OWNED)		
		(1) \$	(2) MM	(1) \$	(2) MM			(1) \$	(2) MM	(1) U.S. GRANT LOAN	(2) COOP COUNTRY (A) JOINT (B) BUDGET	
1. PREPARE ACTUAL FY												
2. OPRN FY 72	227.0					83.0	144.0					477.0
3. BUDGET FY 73	314.0	100.0	34			32.0	182.0	100.0	34			475.0
4. BUDGET FY 74	111.0	111.0	36					111.0	36			250.0
5. BUDGET FY 75	85.0	85.0	28					85.0	28			250.0
6. BUDGET FY 76	10.0	10.0	4					10.0	4			250.0
7. ALL SUBQ. FY 77	10.0	10.0	4					10.0	4			250.0
8. GRAND TOTAL	757.0	316.0	106			115.0	326.0	316.0	106			1952.0

9. OTHER DONOR CONTRIBUTIONS

(A) NAME OF DONOR **UN; CELADE; CABEI; ILPES; FAO; ODECA**

(B) KIND OF GOODS/SERVICES **UN cash donation; other organizations, grant technical assistance**

(C) AMOUNT **UN \$500,000 Others unknown**

III. ORIGINATING OFFICE CLEARANCE

1. DRAFTER: **RMaushammer/KJohnson/LJusseune** TITLE: **PROG/IDO/ROCAP** DATE:

2. CLEARANCE OFFICER: **EMarasciulo** TITLE: **Director USAID/H** DATE:

IV. PROJECT AUTHORIZATION

1. CONDITIONS OF APPROVAL

2. CLEARANCES

BUR/OFF.	SIGNATURE	DATE	BUR/OFF.	SIGNATURE	DATE

3. APPROVAL AAS OR OFFICE DIRECTORS, SIGNATURE: DATE: TITLE:

4. APPROVAL A/AID (See M.O. 1025.1 VI C) SIGNATURE: DATE: ADMINISTRATOR:

AIRGRAM

DEPARTMENT OF STATE

RS/PS

350

522-11-790-039.9

UNCLASSIFIED
CLASSIFICATION

For each address check one ACTION | INFO

DATE REC'D.

TO - AID/W

TOAID A 83 X

1972 MAY 17 AM 9 31

A.I.D.
COMM BR

DATE SENT
MAY 17, 1972

FROM - TEGUCIGALPA

SUBJECT - National Data Systems

REFERENCE -

Transmitted herewith is subject PROP.

RYAN

ATTACHMENT: as stated

PAGE 1 OF 1 PAGES

DRAFTED BY <i>[Signature]</i>	OFFICE ACT. PROG. OFF. R. Maushammer	PHONE NO. 298	DATE 5-17-72	APPROVED BY DIR: Edward Marasciulo
----------------------------------	---	------------------	-----------------	---------------------------------------

AID AND OTHER CLEARANCES DEP. DIR: JENepple <i>[Signature]</i>	<u>UNCLASSIFIED</u> CLASSIFICATION
---	---------------------------------------

PROJECT NO.

SUBMISSION

 ORIGINAL REVISION

(Number)

DATE

PAGE 1 of _____ PAGES

NATIONAL DATA SYSTEMSI. RATIONALE

The Government of Honduras, with the help of AID and other international organizations, is engaged in a broad program of economic and social development. In order to improve the use of limited resources available for the development programs, it is critically important that decisions concerning the resource allocation among and within projects be based on sound factual information and that development projects be subject to accurate evaluation. Given the current lack of reliable data, GOH management decisions do not have that base, nor can decisions be properly measured or evaluated. Such evaluation that is done illustrates that many problems are not adequately defined in the original stages of analysis and that corresponding solutions are not adequately designed. All these inadequacies appear largely due to lack of management information.

Statistics used for designing development programs and deciding resource allocation are derived using such unreliable data collection and updating procedures that there is substantial uncertainty as to their validity. A demographic survey now underway indicates that the population growth rate may be nearer 4.0% per year rather than the 3.4%, often cited. Current GNP computations involve many assumptions about production and consumption and include much conjecture along with data of marginal dependability. Neither the Ministry of Education nor the General Statistical Office has been able to maintain current and dependable data on school enrollment. In agriculture, Honduras' most important productive sector and the priority area in our bilateral program, statistical information is notoriously lacking or is imprecise. Geographically indexed data on production, investment, land tenure, prices, marketing and processing, are grossly deficient. Under these circumstances, management decisions in these sectors are not made on a rational basis.

Although problem definition and project planning are especially difficult, it is even more difficult to evaluate program results when one must link data from diverse sources to arrive at meaningful conclusions. For example, the lack of information on primary school enrollment in a given geographic area impedes efficient teacher assignment. Not being able to compare school enrollment and school-age population to the existing number of classrooms poses serious problems in planning school construction programs. Similarly, in the public health field, the lack of good information on morbidity, mortality and fertility, all of which show large geographical variations, impedes planning and evaluation of public health delivery systems.

There is a substantial evidence that serious waste is involved in producing current statistics. One indication of this is that the GOH is presently operating low output data processing installations implying an outlay of more than \$25,000 per month in computer rentals. Low output is mainly due to insufficient consideration having been given to the development and design of the present data systems to produce the outputs desired from the equipment. Very little attention was given to improving the administrative processes to insure proper administration of mechanized operations. Further, electronic

PROJECT NO.

SUBMISSION

(Number)

DATE

 ORIGINAL REVISION _____PAGE 2 of _____ PAGES

equipment is being utilized almost exclusively for post-enumeration activities. It could play an important role in the simplification and control of enumeration tasks through pre-censal computer programs to pre-code the questionnaires according to geographic locations. Likewise, the editing of the questionnaires is being done manually whereas the computer could reduce and simplify the task by carrying out a series of consistency checks on the input records, as well as provide for automatic correction of inconsistencies.

As a final example of waste in data processing, data collection projects are often undertaken to obtain statistics which could be produced more cheaply and more readily as by-products of existing accounting systems. As in most developing countries, there also has been a tendency to continue taking censuses through traditional methods, which are lengthy, costly and time-consuming, but hardly manageable. That approach renders self-financing of censuses difficult, and also reduces the value of the results due to the time-lag between enumeration and publication and to the large number of processing errors.

In summary, GOH statistics are inadequate in that figures in vital areas are lacking, inaccurate, untimely, and thus are unreliable guides to decision making. Data cells have proliferated throughout government agencies; coordination among data users and producers is non-existent. Waste in equipment time is widespread. All of these factors contribute to irrational allocation of GOH resources. This project will aim at rationalizing data collection, processing and production, coordinating data producers and users and, finally, making reliable statistics available to GOH decision makers on a timely basis.

II. GOH APPROACH

The GOH has been working on a number of possible alternatives to overcome the deficiencies present in its statistical systems. The approach it has selected, and to which it has committed itself through international agreement, is modular in that it calls for elaborating basic statistics in a limited number of areas, later expanding coverage as user needs require and producer capabilities allow. This approach is based on the work of the Committee on Improvement of National Statistics (COINS) of the Inter-American Statistical Institute of the OAS. COINS has elaborated a complete list of data requirements constituting a reasonable basic statistical plan (Plan Interamericano de Estadísticas Básicas, PIER) for developing countries. The plan outlines in detail the elements of data necessary to provide information concerning the socio-economic problems of developing countries and also establishes socio-economic indicators to measure the progress of national development projects. These data requirements cover the areas of (1) Population and Demography; (2) Housing and Community Development; (3) Agriculture and Livestock; (4) Economic Factors (Industrial, Trade Services and Transportation activities); (5) Social Factors (Health, Education, Manpower, Employment, Social Security, Civil Service, Retirement, and other Welfare activities); and (6) Financial Management, which eventually will provide for input-output studies of national resources.

PROJECT NO.	SUBMISSION		DATE	PAGE 3 of PAGES
	<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> REVISION		

This plan leads itself to a modular approach to improving national data systems. Data modules will correspond to the six basic phases of PIEB. Some statistics on each phase are now being produced in an uncoordinated manner by various statistical cells within GOH ministries, autonomous and semi-autonomous entities, but certain priority statistics in some areas are left undone or are unreliable, while lower priority statistics in the same and other areas are being produced.

Reform of this situation can be based on a system which will coordinate data users and producers working on the various modules of PIEB. The approach requires integrating the activities of existing data units and will concentrate efforts on eliminating duplication and waste of technical resources and equipment time. A national data bank--an intermediate step to National Integrated Management Systems--will be created as a product of this integration.

The GOH intends that the Ministry of Economy and the Technical Secretariat of the Superior Council for Economic Planning plus other principal data users, assume a more active role in coordinating data collection and production. The GOH recognizes that the General Directorate of Statistics and Census (DGEC) and the National Statistical Council are not meeting the needs to which they were originally addressed. The DGEC, main GOH agency responsible for production of official statistics, does not possess either the technical personnel or the hierarchical rank to develop the data systems that will provide a sound analytical base for administrative decisions on a wide scale. Further, and although a law creating a National Statistical Council as the policy making body on statistics production was passed several years ago, the Council has not been active.

Due to the above problems, the Minister of Economy in his letter of 4/13/72 told the Mission of his desire that Honduras improve its statistics operations through an approach which integrates current statistical production, and establishes a National Statistical Service. In this letter, the GOH has provided the necessary commitment to statistics reform, agreed in principle to the modular approach, indicated willingness to apply for further loan funds to support this project, and has indicated this program to be of urgent priority.

III. THE USAID APPROACH

During the past few years, the USAID has received repeated GOH requests to assist in the development of Honduran data systems; there is every indication that the DGEC and other governmental agencies want to adopt the more modern methods of data management if provided with the necessary means (both financial and advisory) to do so. USAID recognizes that many past efforts have been made to improve information availability in Honduras, and that progress has been made. However, the systems framework for maintaining current and accurate data has not developed.

PROJECT NO.	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number)	DATE	PAGE 4	PAGES
-------------	--	----------	------	--------	-------

The Mission proposes to assist the Government of Honduras in establishing a national data system to rationalize data activities. Perhaps the best solution to the problem would be a nationally integrated management information system, that is, a central data gathering, processing and production unit serving the needs of all data producers and users. However, it would be unrealistic to expect the Government to reach this degree of sophistication in the immediate future. Therefore, we have concluded that a modular approach would be a reasonable achievement within the purview of this project. (Based on these improvements, the Government could be well on its way to a National Management Information System which might be operative early in the next decade.) The modular approach will focus on improving and coordinating the output of timely and reliable data. This effort will facilitate GOH decisions and evaluations regarding the priorities among development projects, their timing, and resource allocations to those projects.

The Mission approach, based on GOH commitment to the project, will build on skills and equipment currently available. These will be molded into a coordinated data system for collection and production of important national statistics. This approach coincides with the major elements of the IAD policy in that it will:

1. respond to host country initiative and utilize traditional institution-building technical assistance to support a priority area of GOH development;
2. transfer and adopt US technology and managerial know-how to Honduran requirements; and
3. set US bilateral assistance within the framework of a coordinated multi-donor effort (see Other Honor section).

Further, we believe this project is a critical primary step involved in the sectoral approach as AID/W has recently outlined. This program will support the main Mission sector programs in Agriculture and Urban Development through a project which will produce objective and verifiable information. As stated in the recent policy memo, the AID sectoral approach includes specification of measurable and verifiable project input and output targets as substantiated by an available data base and management information systems. This project will contribute, to GOH, AID and other donor planners alike, data for periodic, timely monitoring of progress, evaluation of efficacy, and identification of problem areas of Honduran development projects.

In discussions to refine the design of this project, the Mission and the GOH decided that our proposal would cover continuing assistance for the buy-low cost and implementation of the general management system plus specific inputs for the demographic module in the national data bank. Two dimensions are involved: (1) Title X grant funded work for the demographic module and its corresponding systems developments, plus (2) loan funded assistance, to be proposed separately, to finance local costs involved in the completion of the other priority data modules. The GOH will request that technical assistance for the second part of the overall project be supplied by experts provided by other international donors.

PROJECT NO. 622-11-700-001.9	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____ (Number)	DATE	PAGE 5 of _____	PAGES
---------------------------------	---	------	-----------------	-------

The first part can be thought of as an entity in itself and justifiable on its own merits inasmuch as it will:

1. Contribute significantly to the GOH Administrative Reform effort;
2. Provide for greater effectiveness of the Family Planning Program (our Internal and Child Health Project);
3. Reduce GOH statistical production costs and increase the value of GOH statistical outputs through improved coverage, reliability, and timeliness, and
4. Develop the data base for GOH sector analyses in education, health and urban and industrial development, and provide a better statistical input to future reanalysis of the agriculture sector.

IV. OTHER DONORS

Other donor funding will be requested throughout the life of this project. JMB financing, as stated before, will be devoted to overall systems work for all modules and, with some inputs from CELADE, to implementation of the demographic module. As the EOPS are based on implementation of all modules, OD funding will be used for work on implementing of the agriculture and livestock, economic and social factors, and financial management modules.

Current OD assistance for the project includes a full time UN advisor at ODEC, SIECA assistance in demographic sampling, a FAO advisor in agricultural statistics, plus some short-term advisors. In the 1974-77 period this assistance, augmented by further technicians from OAS, CELADE, CAREI, ILPES and ODECA, should be sufficient for completion of the modular work. Therefore, the GOH will request these grant advisory inputs as needed. In addition, at this time, we are reasonably sure that a UN donation of \$500,000 will be forthcoming for support of the 1973 Census.

LOGICAL FRAMEWORK

A 1. Goal

To improve GOH management of development projects.

A 2. Goal Measures

Some specific kinds of goal measurements are:

- a) GOH public agencies articulating plans, programs, and project targets on the basis of accurate and timely statistics.
- b) GOH budget process and resource allocations to projects based on data system outputs.
- c) Project evaluations incorporating data system outputs.

A 3 Goal Assumptions

The GOH will continue its commitment to the PIEB.

PROJECT NO. 522-11-790-039.0	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number) DATE	PAGE _____ PA. S
---------------------------------	--	---------------	------------------

B 1. Purpose

The purpose of this project is the preparation, development, and institutionalization of modular-based national data systems.

B 2. The End of Project Status is contemplated as follows:

- a) A cartographic capability established in DGEC and the National Geographic Institute (IGN) for ongoing statistical map maintenance.
- b) Improved census-taking capability in DGEC and improved data collection and maintenance capability in DGEC and other GOH agencies.
- c) Data processing sections and publication sections, manned by duly trained personnel, established in the various GOH agencies involved in the national data systems development program.
- d) Streamlined data processing techniques used throughout national data systems.
- e) Demographic data used to form focal point for other statistical series.
- f) Using the above demographic data base, data bases will have been compiled for the modules of agriculture and livestock, economic and social factors plus financial management.
- g) Data available to all potential users or retrievable from National Data Bank.

C 1. Kind of Outputs

1. Preparation work for data collection systems:

- a) Cartographic section and cartographic teams.
- b) Cartographic work for enumeration activities:
- c) Supervisor/trainers, and enumerators.
- d) Administrative preparations for enumeration activities.

2. Preparation work for control, editing and coding of census/survey returns:

- a) Control section (DGEC); and
- b) Editing and coding section (DGEC).

PROJECT NO. 522-11-790-039.9	SUBMISSION		(Number)	DATE	PAGE <u>7</u> of _____ PAGES
	<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> REVISION	_____	_____	

3. Preparation work for data processing and publication:
 - a) Systems analysis sections.
 - b) Programming sections, and
 - c) Publication sections.
 4. Computer programming and processing workloads.
 5. Demographic data.
 6. Maintenance plan for demographic statistics.
 7. Systems design for each of PIEB phases.
 8. Creation and maintenance of data base
 9. National Data Bank.
- C 2. Output Indicators
1. Preparation work for the data collection systems will include:
 - a) One statistical cartography section established at the DGEC with one office team and 9 field teams by June 1973.
 - b) Aerial photography and mosaic map construction for 43 municipalities completed plus zone maps and geographic grid complete (work to be carried out by IGM) by September 1973.
 - c) 120 supervisors/trainers and 1,000 enumerators trained by October 1973.
 - d) Data collection forms designed; forms tested enumerators handbook and supervisor guides published by July 1973.
 - e) OAS/GOH joint study on national data systems reviewed updated by National Statistical Council, by November 1972.
 2. Preparation work for control, coding and editing of Censuses and related surveys will include:
 - a) One control section in DGEC established; control forms and guides published by September 1973.
 - b) One editing/coding section in DGEC established; code lists and coding guides published by October 1973.
 3. Preparation work for data processing and publication:
 - a) One trained systems analysis section at DGEC consisting of 5 systems analysts, plus 15 analysts in similar sections at 90F agencies operating data processing systems by December 1973.

PROJECT NO. 522-11-790-039.9	SUBMISSION <input checked="" type="checkbox"/> ON TIME	EXCEEDED	PAGE 8
---------------------------------	---	----------	--------

- b) One trained programming section at DGEC consisting of 7 programmers plus 25 programmers in similar sections at other GOH agencies operating data processing systems by December 1973.
- c) One publication section at DGEC with 5 publication specialists, plus 7 specialists in other GOH agencies by March 1974; publications available for demographic indicators by July, 1974, for all other modules by June, 1976.
- 4. Adoption of CENTS (Census Tabulation Systems) and other selfware packages to reduce workloads by January 1974.
- 5. Enumeration accomplished for population and housing census by December 1973; processing complete by December 1974; (to include annual ongoing fertility surveys and migration surveys) thereby providing foundation for demographic data base.
- 6. Demographic statistics production to include the establishment of a registration and follow-up system for women participating in the Family Planning Program. Production of these statistics will also include maintenance by means of a cross-referencing system with other mechanized data sources (social security records, clinic records, civil registry records). Ongoing.
- 7. Systems design and flow charting accomplished for all modules by December 1974.
- 8. Systems implementation, including data collection, editing/coding, data processing, plus publications printed and available for each of the modules by December, 1975.
- 9. Modules completely implemented by December 1976; feeding data inputs into a National Data Bank by December 1977.

C 3. Assumption Related to Outputs

- 1. GOH officials will continue to recognize the importance of reliable cartography for the implementation of both data systems as well as administrative reforms necessary to accomplish the program.
- 2. Availability of "trainable" personnel for specialities in cartography, programming, and publications.

D. INPUTS (see following page)

PROJECT NO. 522-11-790-039.9	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number)	DATE	PAGE _____ of _____ PAGES
---------------------------------	--	----------	------	---------------------------

- b) One trained programming section at DGIC consisting of 7 programmers plus 25 programmers in similar sections at other GOH agencies operating data processing systems by December 1973.
- c) One publication section at DGIC with 5 publication specialists, plus 7 specialists in other GOH agencies by March 1974; publications available for demographic indicators by July, 1974, for all other modules by June, 1976.
4. Adoption of CENTS (Census Tabulation Systems) and other software packages to reduce workloads by January 1974.
 5. Enumeration accomplished for population and housing census by December 1973; processing complete by December 1974; (to include annual on-line fertility surveys and migration surveys) thereby providing foundation for demographic data base.
 6. Demographic statistics production to include the establishment of a registration and follow-up system for women participating in the Family Planning Program. Production of these statistics will also include maintenance by means of a cross-referencing system with other mechanized data sources (social security records, clinic records, civil registry records). Ongoing.
 7. Systems design and flow charting accomplished for all modules by December 1974.
 8. Systems implementation, including data collection, editing/coding, data processing, plus publications printed and available for each of the modules by December, 1975.
 9. Modules completely implemented by December 1976, feeding data inputs into a National Data Bank by December 1977.
- C 3. Assumption Related to Outputs
1. GOH officials will continue to recognize the importance of reliable cartography for the implementation of both data systems as well as administrative reforms necessary to accomplish the program.
 2. Availability of "trainable" personnel for specialties in cartography, programming, and publications.
- D. INPUTS (see following page)

<u>Type</u>	<u>Schedule/Amount</u> <u>(\$000)</u>						
	FY 72	73	74	75	76	77	Total
1. AID (Title X Grant)	227	314	111	85	10	10	757
US Technicians from BUDEN (Total)	(0)	(100)	(111)	(85)	(10)	(10)	(316)
-Principal Statistical Advisor (and/or Sampling Advisor)-24MM		37.5	36.0				73.5
-Statistical Geographer - 4MM		10.0					10.0
-Systems Analyst -18MM		19.0	37.5				56.5
-Programmer -36MM		33.5	37.5	37.5			108.5
-Publications Advisor -12MM				37.5			37.5
-Short-term Technicians -12MM				10.0	10.0	10.0	30.0
Commodities	83	32					115
-Vehicles							
-equipment							
-supplies							
-spare parts							
Other Costs	144	182					326
-local salaries							
-per diem							
-training							
2. GOH local salaries and logistics	477	475	250	250	250	250	1952
3. UN grant assistance for local costs		500					500
4. TOTAL	704	1,289	361	335	260	260	3,209

(Advisory assistance from OAS, CELADE, CABEI, ILPES, FAO, ODECA, expected throughout the life of project is not quantifiable at present).

Assumptions

1. UN will provide the \$500,000 currently indicated.
2. GOH inputs, which relate only to those channeled through DGEC, in FY 72 and 73 include \$250,000 for census costs and about \$225,000 for normal DGEC budget. BY FY 74, substantial savings will have been accomplished by rationalizing computer rental costs. Projections for 1974 and beyond assume that such savings plus \$25,000 per year will be used to finance expanded DGEC functions.
3. A loan, currently estimated at \$2.0 million will be available from CABEI, BID, or AID to help finance completion of PIEB implementation; other donors will provide necessary technical assistance to complement this loan.

AID 1025-1A (7-71) (NARRATIVE DESCRIPTION)

PROJECT NO. E22-11-790-039.9	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number)	DATE	PAGE _____ of _____ PAGES
---------------------------------	--	----------	------	---------------------------

Type	Schedule/Amount (\$000)						
	FY 72	73	74	75	76	77	Total
ID (Title X Grant)	227	314	111	85	10	10	757
15 Technicians from BUDEN (Total)	(0)	(100)	(111)	(35)	(10)	(10)	(316)
-Principal Statistical Advisor (and/or Sampling Advisor)-24M		37.5	30.0				73.5
-Statistical Geographer - 4M		10.0					10.0
-Systems Analyst -18M		19.0	37.5				56.5
-Programmer -36M		33.5	37.5	37.5			108.5
-Publications Advisor -12M				37.5			37.5
-Short-term Technicians -12M				10.0	10.0	10.0	30.0
Logistics	83	32					115
-Vehicles							
-equipment							
-supplies							
-spare parts							
Other Costs	144	182					326
-local salaries							
-per diem							
-training							
2. 50% local salaries and logistics	477	475	250	250	250	250	1952
3. 50% grant assistance for local costs		500					500
4. TOTAL	704	1,289	361	335	260	260	3,209

(Advisory assistance from OAS, CELADE, CADEI, ILPES, FAO, ODECA, expected throughout the life of project is not quantifiable at present).

Assumptions

1. UN will provide the \$500,000 currently indicated.
2. GOH inputs, which relate only to those channeled through DGEC, in FY 72 and 73 include \$250,000 for census costs and about \$225,000 for normal DGEC budget. BY FY 74, substantial savings will have been accomplished by rationalizing computer rental costs. Projections for 1974 and beyond assume that such savings plus \$25,000 per year will be used to finance expanded DGEC functions.
3. A loan, currently estimated at \$2.0 million will be available from CABEI, BID, or AID to help finance completion of PIEB implementation; other donors will provide necessary technical assistance to complement this loan.

PROJECT NO. 522-11-790-039.9	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number)	DATE 5/18/72	PAGE <u>11</u> of <u>3</u> PAGES
---------------------------------	--	----------	-----------------	----------------------------------

VI. COURSE OF ACTION

a. General Course of Action:

Project plans call for the initiation of preparatory work in calendar year 1972. Included in such preparatory work are steps making possible the 1973 Population and Housing Census which will provide the demographic data base. Precensal activities to be carried out in CY 1972 and during the first nine months of CY 1973 consist of preparing maps for enumeration and developing a geographic sectorization and coding system that will permit such maps to be utilized for conducting the remaining five Censuses (Agriculture, Industry, Commerce, Services, and Transportation) as well as for conducting the related sample surveys. In this manner, these Censuses will provide data along the same geographic breakdowns as those produced for the Population and Housing Census, thus permitting an interrelation of outputs. Likewise, sample surveys conducted within the same geographic framework will complement the data base, maintain it up to date, and provide timely socio-economic indicators. Concurrently a cartographic team will be trained at the Directorate General of Statistics for producing the required censal maps from mosaics of aerial photography which are being prepared by the National Geographic Institute. During the Precensal period, there will also be a review of the 1970 GOH-OAS studies of GOH data needs. That review will be conducted jointly by GOH personnel, AID Advisors from the U.S. Bureau of the Census, and advisors from other international agencies (FAO, UN, CELADE, OAS, etc...). This review will produce both the inventory of data needs and a project operations calendar and ~~status~~ for the second dimension of the project. All work will be coordinated by the National Statistical Council. As such, the review will form the heart of a loan proposal for financing the five remaining censuses and additional surveys (not included in the activities of this PROP) and the activities required for the development of the remaining modules. This review will also present the GOH with a plan for assigning responsibility relating to the collection and the processing of given elements of data to specific agencies of the Government according to subject matter; it will determine what elements of data should be processed at the first-level (within the respective agencies), and what elements of data should become part of the National Data Bank.

Immediately upon the completion of that review, the advisors will work intensively with each of the Government organizations in order to develop the data base for GOH sector analyses and establish the data modules according to the PIEB scheme. Special attention will be given to the demographic module as the focal point of the statistical scheme and the establishment of linkages from that focal point with the remaining modules. Simultaneously, an effort will be made for ~~improving~~ the National Budget and Accounts System which will constitute the fiscal and monetary module. During the first phase of this project the modules will, therefore, cluster around two separate but compatible systems:

- (1) The National Statistical System
- (2) The National Budget and Accounts System.

These will be designed in such a manner so that they can be integrated and merged into a National Data Bank during the latter part of the project. The National Data Bank will provide for ~~which~~ data retrieval of a limited amount of strategic data necessary for decision-making.

PROJECT NO. 522-11-790-039.9	SUBMISSION <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION _____	(Number)	DATE 5/18/72	PAGE 11 of _____ PAGES
--	--	----------	------------------------	-------------------------------

b. Specific Course of Action for this project

Specifically, the course of action will be as follows:

- (1) **Development of a statistical cartographic capability in the National Geographic Institute and at the DDEC (April 1972 - July 1973)**
- (2) **Preparation of Censal/Survey Maps: This activity includes the aerial photography and mosaic construction for 48 municipalities, and the preparation of zone maps and geographic grids. (March 1972 - September 1973)**
- (3) **Development of materials for enumerators and supervisors: This includes the design of data collection forms, the preparation of enumerator handbooks and supervisor guides, and a few pre-censal enumeration tests. (August 1972 - November 1973)**
- (4) **Training of enumerators and supervisor/trainers: This includes the recruiting, testing and training of 120 supervisor/trainers, (October 1972 - March 1973) and the recruiting and training of 1,000 enumerators. (May 1973 - October 1973)**
- (5) **Review of OAS-GOH Joint Study on National Data Systems: This requires a series of weekly meetings of the National Statistical Council in order to discuss and pass judgment on recommendations that will be made by the advisors during the course of their Review of the FIKB and of the recommendations of the 1970 OAS-GOH joint study concerning national data systems. (August 1972 - November 1972)**
- (6) **Creation and training of a Control Section at the DDEC: This includes the recruitment and training of 15 control clerks and one supervisor, the preparation of control forms and of control instructions. (February 1973 - September 1973)**
- (7) **Training of EDP Personnel: This includes the training of 20 systems analysts, 32 programmers (ongoing - December 1973), and 12 publication specialists. (October 1973 - March 1974)**
- (8) **Production of a data base for Demographic Systems: This includes the conduct (November 1973) and processing of a Population and Housing Census (November 1973 - December 1974) as well as the conduct and processing of annual fertility surveys (ongoing) and migration surveys.(ongoing)**
- (9) **Design and implementation of an EDP System for the registration and follow-up of women participating in the Family Planning Program, and for the production of monthly demographic statistics. (July 1, 1972 - ongoing)**
- (10) **Systems designs for all modules: This includes the preparation of new systems designs for each of the GOH agencies participating in the collection of statistics so that they can improve their own operations, and the preparation by 1976 of modular systems for integrating by 1977 the improved sub-systems into National Data Bank. (July 1972 - 1977)**
- (11) **Implementation of the demographic indicators. (July 1974 - ongoing)**

LOGICAL FRAMEWORK MATRIX - PROP WORKSHEET - NATIONAL DATA SYSTEMS

Summary	Objectively Verifiable Indicators	Important Assumptions																																																								
<p>A.1. Goal</p> <p>To improve GOH management of development projects.</p>	<p>A.2. Measurement of Goal Achievement</p> <ol style="list-style-type: none"> GOH public agencies articulating plans, programs and project targets on the basis of accurate statistics. GOH budget process and resource allocations to projects based on data system outputs. Project evaluations incorporate data system outputs. 	<p>A.3. (as related to goal)</p> <ol style="list-style-type: none"> GOH continues its commitment to PIEB implementation. 																																																								
<p>B.1. Purpose</p> <p>Preparation, development, and institutionalization of modular based national data systems.</p>	<p>B.2. List of Possible Objectives</p> <ol style="list-style-type: none"> Cartographic capability in DGEC and IGN for ongoing statistical map maintenance. Improved census capability in DGEC. Data processing and publication sections established in various GOH agencies. Streamlined data processing techniques used throughout national data systems. Demographic data processed to form focal point for other statistical modules. Data bases compiled, maintained and updated for all modules. Data available or retrievable from National Data Bank to all potential users. 	<p>B.3. (as related to purpose)</p>																																																								
<p>C.1. Outputs</p> <ol style="list-style-type: none"> Preparation work for data collection systems: <ol style="list-style-type: none"> Cartographic Section and Cartographic Teams. Cartographic work for enumeration activities. Supervisor/trainers and enumerators. Administrative preparations. Revitalized National Statistical Council. Preparation work for control, editing and coding of censal and survey returns. <ol style="list-style-type: none"> Control section Editing/coding section. Preparation work for data processing and publication. <ol style="list-style-type: none"> Systems analysis section. Programming section. Publications sections. Computer programming and processing workloads. Demographic data. Maintenance plan for demographic statistics. Systems designs for each of the PIEB phases. Creation and maintenance of data base. National Data Bank. 	<p>C.2. Output Indicators</p> <ol style="list-style-type: none"> In place, as indicated by: <ol style="list-style-type: none"> 1 Cartographic Section trained at DGEC; 1 office team with 216 M² of map preparation; 9 field teams with 400 M² in field work, by June 1973. Aerial photography and mosaic construction for 48 municipalities completed by IGN; zone maps and geographic grid complete, by September 1973. 120 supervisor/trainers and 1,000 enumerators trained, by October 1973. DAS-GOH joint study on national data systems reviewed and updated by National Statistical Council, by November 1972. Data collection forms designed; forms tested; enumerator handbook and supervisor guides published by July 1973. In place as indicated by: <ol style="list-style-type: none"> 1 control section trained; published control forms and guides, by September 1973. Editing/Coding Section trained; published code lists and coding guides, by October 1973. In place as indicated by: <ol style="list-style-type: none"> 5 systems analysts trained at DGEC; 15 in other GOH organizations, by December 1973. 7 programmers trained at DGEC; 25 in other GOH org., by December 1973. 5 publication specialists trained at DGEC; 7 in other GOH organizations, by March 1974. Adoption of CENTS and other software packages to reduce workloads by January 1974. Demographic publications by July 1974. Enumeration accomplished for population census by December 1973; processing completed by December 1974; (fertility and migration surveys ongoing). Registration and follow-up established for women participating in Family Planning Program; monthly reports produced, cross reference system established. Systems designs flow-charting accomplished for all modules by December 1974. Data collection, editing/coding, data processing programs and publications available in each of the modules by December 1975. Modules completely implemented by December 1976; feeding data inputs into National Data Bank by December 1977. 	<p>C.3. (as related to outputs)</p> <ol style="list-style-type: none"> Continued recognition by key GOH officials of the great importance of reliable cartography for the implementation of both data systems as well as administrative reform programs. Availability of "trainable" personnel for each of the specialties mentioned. 																																																								
<p>D.1. Inputs</p> <p>(Title & Grant)</p> <p>Technicalians (BuCen)</p> <p>Principal Statistical Advisor (Anal. or Sampling Advisor) - 24MM Statistical Geographer - 4MM Systems Analyst - 18MM Programmer - 36MM Publications Advisor - 12MM Short Term technicians - 12MM</p> <p>Utilities</p> <p>Electricity</p> <p>Telephone</p> <p>Supplies</p> <p>Office parts</p> <p>Travel costs</p> <p>Local utilities</p> <p>Local telephone</p> <p>Local salaries and logistics</p> <p>Travel assistance for local costs</p>	<p>D.2. Budget Schedule</p> <table border="1"> <thead> <tr> <th></th> <th>FY 72</th> <th>FY 73</th> <th>FY 74</th> <th>FY 75</th> <th>FY 76</th> <th>FY 77</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Technicalians</td> <td></td> <td>100</td> <td>111</td> <td>85</td> <td>10</td> <td>10</td> <td>316</td> </tr> <tr> <td>Utilities</td> <td>83</td> <td>32</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>115</td> </tr> <tr> <td>Travel costs</td> <td>144</td> <td>182</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>326</td> </tr> <tr> <td>Local salaries and logistics</td> <td>\$227</td> <td>\$314</td> <td>\$111</td> <td>\$ 85</td> <td>\$10</td> <td>\$10</td> <td>\$ 757</td> </tr> <tr> <td>Travel assistance for local costs</td> <td>\$477</td> <td>\$475</td> <td>\$250</td> <td>\$250</td> <td>-</td> <td>-</td> <td>\$1452</td> </tr> <tr> <td></td> <td>-</td> <td>\$500</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>\$ 500</td> </tr> </tbody> </table>		FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	Total	Technicalians		100	111	85	10	10	316	Utilities	83	32	-	-	-	-	115	Travel costs	144	182	-	-	-	-	326	Local salaries and logistics	\$227	\$314	\$111	\$ 85	\$10	\$10	\$ 757	Travel assistance for local costs	\$477	\$475	\$250	\$250	-	-	\$1452		-	\$500	-	-	-	-	\$ 500	<p>D.3. (as related to inputs)</p> <ol style="list-style-type: none"> UN will provide \$500,000 as currently indicated. GOH inputs which relate only to those detailed through DGEC, include \$250,000 in FY 72 and 73 for census costs and \$225,000 for normal DGEC budget. By FY 74, savings in computer rental costs and an additional \$25,000 per year will be used to finance expanded DGEC functions. \$2,000,000 loan available from UN, IDA, or AID to help finance completion of the implementation; UN will provide necessary technical assistance to complete the loan.
	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	Total																																																			
Technicalians		100	111	85	10	10	316																																																			
Utilities	83	32	-	-	-	-	115																																																			
Travel costs	144	182	-	-	-	-	326																																																			
Local salaries and logistics	\$227	\$314	\$111	\$ 85	\$10	\$10	\$ 757																																																			
Travel assistance for local costs	\$477	\$475	\$250	\$250	-	-	\$1452																																																			
	-	\$500	-	-	-	-	\$ 500																																																			