

AID 1330-1
(8-64)

PRO AG

PROJECT AGREEMENT
BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID),
AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND

AN AGENCY OF THE GOVERNMENT OF MOROCCO 14p.

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

- PROJECT DESCRIPTION ANNEX A FOREIGN CURRENCY STANDARD PROVISIONS ANNEX
- STANDARD PROVISIONS ANNEX SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

GENERAL AGREEMENT FOR TECHNICAL COOPERATION DATE

ECONOMIC COOPERATION AGREEMENT DATE **2 April 1957**

(other) DATE

1. PROJECT/ACTIVITY NO. **608-11-570-109** PAGE 1 OF 7 PAGES

2. AGREEMENT NO. **608-70-10** 3. ORIGINAL OR REVISION NO.

3. PROJECT/ACTIVITY TITLE **DEMOGRAPHIC RESEARCH CENTER**
608-11-570-109

5. PROJECT DESCRIPTION AND EXPLANATION
(See Annex A attached)

6. AID APPROPRIATION SYMBOL **72-11X4111.1** 7. AID ALLOTMENT SYMBOL **489-31-099-00-81-01**

8. AID FINANCING	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
<input checked="" type="checkbox"/> DOLLARS <input type="checkbox"/> LOCAL CURRENCY				
(a) Total		200,000		200,000
(b) Contract Services		109,000		109,000
(c) Commodities		24,500		24,500
(d) Other Costs		66,500		66,500
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT				
\$1.00 = D11 S.06				
(a) Total (Trust Fund)		4,500		4,500
(b) Technical and other Services				
(c) Commodities				
(d) Other Costs		4,500		4,500

10. SPECIAL PROVISIONS (Use Additional Continuation Sheets, if Necessary)

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Ministry of Finance

Secretariat for Planning

11. DATE OF ORIGINAL AGREEMENT **June 25, 1970** 12. DATE OF THIS REVISION 13. ESTIMATED FINAL CONTRIBUTION DATE **June 30, 1972**

14. FOR THE COOPERATING GOVERNMENT OR AGENCY
Mr. Ali Mounir, Director, Division of Economic and Technical Affairs

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT
Donald S. Brown
SIGNATURE: **Donald S. Brown** DATE: **6-26-70**
TITLE: **Director**

SIGNATURE: _____ DATE: _____
TITLE: _____
Ministry of Foreign Affairs.

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Indicate block numbers.

Use this form to complete the information required in any Block of a PIO or FAA form.

The Government of Morocco and the Agency for International Development (AID) through their appropriate agencies hereby agree to cooperate in a joint project described below.

It is anticipated that this project, of which the present agreement is part, will extend over a period of five years, subject to the availability of funds and will terminate 30 June 1975, after which date it is anticipated that the program will become a permanent activity of the Moroccan Government.

I. DEVELOPMENT OBJECTIVES

The economic and social development of any country depends on a number of interrelated factors, major ones of which are the characteristics and rates of growth of the nation's population. No sound plan for economic or social progress can be made in the absence of precise data on population growth, since this factor has an important effect on all planning computations relating to labor force, educational plans, urbanization, trade markets, etc. Many countries now recognize that too rapid population growth is also a retarding factor in economic and social progress and programs to moderate such growth require precise and up-to-date information on population growth rates.

Unfortunately, the rate of population growth is one of the most difficult statistical facts to measure accurately. The conventional decennial population census is too expensive to repeat at more frequent intervals. The traditional civil registration system is too constrained by its legal purposes and, in addition, is often too inaccurate to serve as a method for measuring current population change and related factors. These rough methods have provided demographic information adequate to alert countries in a general way to the influence of population change. However, to measure short-range changes, to study the success or failure of developmental programs related to population change, and to evaluate the social, economic, and cultural factors that facilitate population change or create barriers to it, more sophisticated measurement instruments are needed. The broad objective of this project is therefore to assist Morocco to develop and validate accurate measurement techniques that can be utilized effectively and economically.

II. MAJOR SUB-OBJECTIVES

The immediate sub-objective of the project is to establish a Moroccan Demographic Research Center (CERED) staffed, organized and equipped for developing and testing methods for measuring demographic change and topics related to such change.

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III. SCOPE AND NATURE OF PROGRAM

The program of CERED will consist of three general elements (a) the design and testing of improved statistical methods for measuring population change; (b) the collection of special types of substantive data on population as may be appropriately collected through CERED activities; and (c) certain related activities, such as the analysis of Moroccan demographic data as may be necessary for the purposes of Secretariat for Planning.

CERED will carry out this program by defining one or more geographic test areas (laboratories), developing for these areas detailed maps, house identification systems, periodic population counts, and other resources so that these areas can be used to test and validate statistical techniques.

CERED would be one of several projects to be established with AID assistance by the University of North Carolina or other qualified U.S. university, in various regions of the world as part of a program for Laboratories for Population Studies (LOPLABS). It is hoped that the professional staffs of these projects and of the participating U.S. university would form an international cooperating group so that the methodological studies and technical experience could be interchanged for the benefit of each. Although established in this matter as one unit of a larger cooperating system, CERED would be completely a Moroccan institution designed to serve the needs and interests of Morocco. The administration and technical direction would be Moroccan. All data collected would be the property of Morocco, with the Secretariat for Planning having complete control of its publication or disposition. Within this framework it is assumed that the content and results of the research program would be discussed in detail with the cooperating United States institution and that a general concurrence would be reached on the design of research activities financed with AID funds.

CERED will be established within the Secretariat of State for Planning and will be solely a research center with no obligations to engage in the operational work of the Division of Statistics. As measurement methods are invented and validated in CERED, they will be incorporated into the ongoing statistical operations of the Division of Statistics as considered appropriate. In this way CERED will have a most important role in developing the regular demographic data of Morocco which on a continuing basis will then provide sound population data for national economic and demographic planning. As a by-product, the methodology in other statistical subjects may be improved.

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To further encourage maximum utilization of CERED's findings and its continued concern with practical needs, an inter-ministerial committee representing those agencies of the GCM with important demographic interests will be appointed to advise CERED in its work.

Research Program

In what is expected to become a permanent research program, it is not possible or desirable to fix the activities of the program for more than two or three years in advance. The first activities must be simply those of preparing basic materials about the areas so that they can be used for research. The first step is to delineate carefully the areas, prepare detailed street maps of all parts of the territory, fix house numbers to all dwellings, etc. Arrangements should also be made to keep maps and dwelling identifications up-to-date to take account of new construction, etc. The second step would be to take a simple base-line population count so that the population size and distribution within the area is known. With these steps accomplished, the laboratory would be ready for the first research project.

As indicated above, the research total program will consist of three major lines of activity:

1. The design and testing of improved statistical methods for measuring population change. The first and most important research activity of this type is described in Appendix A of this Agreement. Since this will be the primary activity during the initial firm budget period, other activities which may be undertaken later are listed by name later in Appendix A.
2. Although the CERED geographic test area or areas would not be representative of all Moroccan conditions, certain types of substantive data collected in these areas might be useful. These types of data-collection activities would not be undertaken in the initial firm budget period.
3. The above elements of the program imply certain related activities such as a continuing analysis of existing Moroccan demographic data and participation in planning meetings.

IV. WORK PLAN

1. Concurrent with the signing of this Agreement or within a reasonable time thereafter, the Moroccan Government will officially establish CERED and appoint personnel as described in Appendix A to the posts of director, deputy director and chief of field operations. Similarly, the U.S. university participating in the project will propose a candidate

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for the position of advisor to CERED.

2. After CERED is organized, all the statistical data (from the censuses of 1952 and 1960, the 1961-63 multi-purpose survey, the K.A.P. surveys, etc.), as well as all monographic studies for the region selected, will be gathered in the center. All the schedules from the 1970 census for the regions selected for study by CERED will be separately tabulated. As soon as this tabulation program is completed, analyses will be made of demographic changes and changes in socioeconomic composition between 1960 and 1970. These analyses will provide a better basis for the selection of the samples and will help in the formulation of methodological problems for research.

3. The final selection of the sampling region in which all the field studies of the center will be carried out will be made from those regions now under consideration, such as El Jadida, Kénitra, Meknes, and Settat. The criteria used in the determination will be: size, socioeconomic composition (with a balance between urban and rural), and nearness to Rabat. The U.S. university will send a two or three-man team to Rabat when required to provide scientific and technical assistance to GOM officials in making the determination. The U.S. team will consist of a competent demographer and sampling experts, who will help develop the scientific basis for the site location, taking into consideration that CERED may wish to expand at a later date into a national representative sample.

4. As soon as the site is determined, CERED can then proceed to establish the field office, and start the work of mapping, house identification, etc.

5. Later in 1970, a team from the U.S. university will participate in a planning conference in Rabat with the CERED staff to further refine the time schedule and detailed plans for the implementation of the initial base-line population count and the continuous vital-event recording. This will include designing forms, tabulation procedures, field routines, methods for record matching, etc.

6. The detailed operating schedule will be determined by this planning conference. An approximate schedule may be as indicated below:

- a. The continuous vital-event recording procedure would start in September 1970. However, the period of September-December 1970 would be a pretest period for establishing field procedures.

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- b. The target date for the initial base-line population count would be January 1971. This count would also get retrospective reports on births and deaths.
- c. In January 1971, the first matching by the Deming-Chandrasekar procedure could be done by comparing the vital events for September-December 1970 with the retrospective birth and death reports from the base-line population count. This initial test period will yield a first approximation to the true birth and death rates for the CERED areas. Undoubtedly many problems and defects in procedures will be identified, and these can be corrected for the collection of data during 1971.
- d. The year 1971 will be the first full year. The vital-event recording procedure will continue throughout the year. Another population count with retrospective vital-event reporting will be done at the end of this year. The analysis of the 1971 data will indicate the feasibility of this method for Moroccan conditions and, if successful, will give an accurate measure of the rate of Moroccan population growth.
- e. The establishment of the analysis functions of CERED will begin as soon as CERED begins operations.

V. FUNDING

USAID will provide funds for university contract costs as described in the attached PIO/T. It will also provide funds for all necessary staff of CERED except the director, deputy director, and field operations chief; for specified equipment; for fuel and oil for the vehicles; and for computer rental if the Ministry of Planning has no computer available. The Government of Morocco will pay salaries of the three professional staff and cover all other miscellaneous costs except fuel and oil. Subject to availability, additional funds will be provided after establishment of CERED for training of staff in the U.S. should this be necessary.

A detailed budget for CERED will be drawn up by the director of CERED and the U.S. university advisor as soon as possible after establishment of CERED. This budget, which must be approved by the GCM, the university advisor and A.I.D., will be the basis for a supplemental GCM budget for CERED, to be officially established and approved for expenditure by the Ministry of Finance as quickly as possible. USAID will advance funds to the GCM to cover an initial period of this budget, and will replenish these funds as documentation is received from the GCM covering expenditures under the approved budget. Expenditures will be

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made in accordance with GOM procedures; no changes are to be made from the detailed budget without approval of all parties concerned.

1. U.S. Contribution - Fiscal Year 1970
 - a. University contract costs 109,000
 - b. Local costs of CERED budget 66,500
 - c. Vehicles and Office Equipment 24,500
2. GOM Contribution 1/
 - Trust Fund (one year) 4,500

1/ Plus salaries of three professional staff of CERED and miscellaneous costs difficult to estimate at this time.

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APPENDIX AI. TENTATIVE DESIGN OF THE INITIAL MAJOR RESEARCH ACTIVITY

It is believed that the major problem in Morocco for demographic statistics is to find a method for the accurate determination of the birth and death rate. It is therefore proposed that the first project for CERED will be to test for Moroccan conditions the various adaptations of a vital event numeration sample system, based on experience in other countries where successful measurements of birth and death rates are being made.

This first and most important research project will involve a detailed and comparative analysis of birth and death data obtained in specially selected areas from two sources: (a) a recording of births and deaths, and (b) a demographic survey carried out every six months. The survey will have the double objective of fathering retrospective data on births and deaths as well as gathering data which will vary from one survey to another. It is expected that the recording of births and deaths will be carried out continuously during the five years (of the project) and that there will be two surveys every year.

II. SELECTION OF CERED FIELD LOCATION

Initially there should be two field sites, although it may be possible that these could be served by a single field office. After the procedures, costs, and other requirements for success are established, consideration can be given to selecting other sites so as to represent more adequately the variation in Moroccan geographic conditions. Such extension beyond the original sites will, of course, have additional budgetary considerations which are not covered in the budget estimates included in this Project Agreement.

Several factors should determine the site selection. The area should be two geographic units comprising about 25,000 to 50,000 people each. Some of the population should be rural, and some urban. While the two sites' area cannot, of course, be representative of the whole of Morocco, the area selected should not be too atypical.

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The selection and delineation of the CERED field sites is very important. It is expected that as soon as the agreement to establish CERED in Morocco is negotiated a conference could be held between the Secretariat for Planning and the U.S. university to determine the criteria for the site selection and to decide upon the area to be used.

When the field sites are selected, the offices of the CERED field supervisors should be established. These offices should be equipped with adequate space, furniture, files, maps, and with transportation.

III. ORGANIZATIONAL ARRANGEMENTS

In establishing CERED, a number of organizational arrangements and agreements are important:

A. Central CERED Office: This office would be established within the Secretariat for Planning in Rabat at as high an organizational level as is feasible. This office would be headed by a director and deputy director and be staffed with other personnel as required for the methodological and analytic activities. This office should be responsible for all phases of the CERED program. This office would be a research office without responsibility for other on-going data-collection programs. The Division of Statistics may wish to consider associating with the CERED staff competent Moroccan demographers or others in an advisory or committee relationship. This office should be supplied with adequate furniture, office equipment, library, transportation, etc.

B. Field Offices: For the initial 18-month operating period, two study areas will be selected. One urban and one rural area will be selected, but consideration will be given to the possibility that these two areas could be located near enough to each other so that they might be served by a single field office. The field office would be located at a central place in the study area. It would be headed by a field supervisor. Most other personnel would be temporary or part-time. The selection and training of the field supervisor is most crucial, since the success of the whole research program will depend on his education, interest, and competence. It is most essential that the field office report directly to the central CERED office. There should be day-to-day direct communication with regular visits by the central CERED office staff to help work out problems and discrepancies in data with the field office.

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Experience, both failures and successes, in Brazil, Egypt, India, Pakistan and the United States has shown that a successful research program requires first-hand knowledge by the top research staff of the minute problems in the data-collection process. The reasons for this are unique to demographic studies, since one of the major problems will be to measure accurately the number of births and deaths, and these are statistically "rare events" which require special procedures. The role of the field office supervisor is so important that he should be paid at the highest level feasible under the salary structure.

IV. QUALIFICATIONS OF THE DIRECTOR, DEPUTY DIRECTOR, FIELD SUPERVISOR, AND U.S. UNIVERSITY ADVISOR

- (1) Director: Advanced degree in statistics, demography, or applied social science with desirably several years of practical experience.
- (2) Deputy Director: Same educational level as director, but with fewer years of experience.
- (3) Field Supervisor: A graduate of the Institut National de Statistique et d'Economie Appliquee in Rabat with some practical experience.
- (4) University Advisor: Ph.D. in demography or statistics, or survey methods, and with experience in the collection and analysis of demographic data. Some substitution of experience for academic qualifications may be desirable. The advisor must be French-speaking.

V. RECORDING OF BIRTHS AND DEATHS

Recording will be carried out by two different methods. The first method involves the establishment for each household of a household list and monthly visits to each household by a local person to record changes in household composition (deaths, births, migration) (Method N, used in Malawi and Turkey). The second method is more like that of a "registrar" who records births and deaths in the villages. This "registration" could be carried out with the help of informants and would not involve regular

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visits in the household (Method P, modification of a method used in Pakistan). These methods will be discussed separately for the rural and urban populations.

(1) Rural Population

a. Samples: approximately 100 douars (villages) selected at random from (a list of) villages stratified according to size; Method M will be applied in 50 of these douars and Method P in the other 50.

b. Personnel:

i. Method M: 25 school teachers--overtime--during the school year and other literate persons during vacations. These persons must always be residents of douars.

ii. Method P: 25 school teachers--overtime--during the school year and other literate persons during vacations and who would use as informants the mugadden (official), the fgih (religious teacher and functionary), and the gabla (the traditional midwife) but who could also visit households occasionally.

c. Questionnaires or Interview Schedules

i. Method M: a household list is established for each household at the beginning of the period of registration. This list could include the following information (given only as example):

Name	Relation to Head	Age or Sex birth date	Marital Status	Absence of Residents	Visitor	For women ages 10+ Live children ever born	Dead
						Still living	
						Living at home	Not living at home

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Every month the school teacher visits each household with the household list and records all the changes that have occurred in that household during the preceding month using the following set of questions (given only as example): (a) birth (still-birth or live born; birth date); (b) death (date of death); (c) in-migrant (place of origin, reasons for move, etc.); (d) out-migrant (place of destination, reasons for move, etc.); (e) other changes. These changes are entered on forms which would be sent monthly to CERED.

A copy of the household list should be in the CERED central office. A new household list has to be filled out for every new household. While the school teacher would not be working with the muqaddem, he should obviously have his cooperation.

ii. Method P: There would be no household list but only birth and death questionnaires which the school teacher fills out as the events occur. These questionnaires will have to be sent to CERED on a regular basis. There may be, however, an advantage in establishing a household list at the beginning of the period of registration and for each new household.

(2) Urban Population

a. Sample: 10,000 to 20,000 persons distributed in small clusters of dwelling units. The size and geographical distribution of the clusters will have to be selected, keeping in mind sampling errors and the objectives of the survey. Method M will be applied with one half of the sample and Method P with the other half. There may be an advantage in separating these halves in spaces.

b. Personnel: The choice may be between permanent "registrars" living in the city or nurses or nurses' helpers who would work overtime.

i. Method M: Same as the rural sample.

ii. Method P: The registrar could work with fonctionnaires in charge of vital registration.

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c. Questionnaires: Identical to the questionnaires used in the rural sample.

(3) Demographic Survey

The plan is to carry out two surveys every year in the same douars and urban districts where births and deaths are registered (by the methods outlined above). Since there are two sub-samples (M and P) in the rural and urban populations, the two sub-samples could be surveyed every six months or these surveys could occur less frequently in each sub-sample. The first demographic survey should be carried out six months after the beginning of the period of registration of births and deaths.

There are three parts to the questionnaire (or interview schedule) of the survey:

Part 1: a household list identical to the one used for Method M;

Part 2: retrospective questions on births, deaths, and migration;

Part 3: this part should involve half of the interview time (total interview time of 1 to 1-1/2 hours). This is the rotating part of the survey involving different topics from one survey to another. This is the part that will yield the data needed for the other studies of the CERED.

VI. COMPARISONS BETWEEN REGISTRATION AND THE SURVEY

For each method of registration of births and deaths (M and P) a case by case comparison will be made between the registration and the survey data. A list will be prepared giving all the cases involving a conflict between the two sources of information (births and deaths that were registered but not reported in the survey or births and deaths reported in the survey but not registered.) A special team will go into the field to resolve the conflict between these two sources. The Deming-Chandrasekar method will be used to obtain estimates of births and deaths on the basis of data from registration and the survey.

VII. SUBSTANTIVE AND METHODOLOGICAL STUDIES TO BE CARRIED OUT AFTER OR IN CONJUNCTION WITH INITIAL MAJOR PROJECT

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2.c. Amendment
 Original OR No.:3. Project/Activity No. and Title 608-11-570-109
DEMOGRAPHIC RESEARCH CENTERIndicate block
numbers.

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The periodic demographic survey to be conducted in the CERED test areas has several parts, one of which is a rotating part which will be used to collect data on different topics from one survey to another. Since this use of the survey comes at a later stage of the five-year project program, it is not desirable to fix this too precisely at this time. In general, however, these subsidiary uses of the periodic survey will relate to topics drawn from the general list of Population Study Protocols given in Laboratories for Population Studies, Part 2, pp. D-1 to D-17; from additions to or revisions of lists of study protocols prepared by the U.S. university; or from priority studies considered of value by Moroccan officials. In any case, the studies to be undertaken will be selected by Moroccan officials in consultation with the U.S. university. The following are examples of studies which may be undertaken after the initial firm budget period:

- a. Collection of data on reproductive histories. Comparisons of different methods of obtaining these data (list of pregnancy, list of children ever born supplemented by a list of pregnancy losses, etc.).
- b. Methodological analysis of data from demographic surveys on fertility control practices.
- c. Tests of the validity and reliability of data on attitudes obtained in K.A.P. surveys (attitudes toward family planning, on the ideal number of children, etc.).
- d. Devising and carrying out procedures for measuring the demographic changes that could be attributed to the diffusion of fertility control practices.
- e. Application of various demographic models (Coale-Demeny, Brass, Henry, etc.) to estimate demographic rates in the region selected and on the basis of data from the 1960 and 1970 censuses and the demographic surveys.
- f. Tests of methods for determining errors on age reporting and other variables.

VIII. RELATED ACTIVITIES

The orientation of the CERED program within the overall Moroccan

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demographic situation implies that there should be a related activity of analysis of existing demographic data from the Moroccan decennial censuses, the civil registration system, and other sources. This analysis would have as its objective the exposition of the past population trends, the estimation of future population size, composition, and distribution, and the identification of types of data the collection of which could be tested by CERED.

Since CERED is one of several projects being established under the overall POPLAB project, the development of its scientific program will imply participation in the various scientific working seminars and meetings which will be planned for the exchange of research plans and results.

IX. COORDINATION

An inter-ministerial committee with representation from the Ministries of Health, Interior, etc. will be appointed to advise CERED on the research program.