

PROJECT PROFILE

<u>Sector</u>	Environment and Natural Resources
<u>Sub-Sector</u>	Lands
<u>Title</u>	Digital Mapping Project
<u>Code</u>	0121- formerly ME06(C)
<u>Implementing Agency</u>	Ministry of Water, Lands and Environment
<u>Location</u>	Country wide
<u>Total Planned Expenditure</u>	US\$ 0.172m
<u>Funds Secured</u>	US\$ 0.040m
<u>Funding gap</u>	US\$ 0.132m
<u>Starting date</u>	1999
<u>Completion Date</u>	2007

Background

The Geodesy & Surveys and Mapping Divisions are mandated with planning and carrying out all basic surveys and mapping activities in the country. They are the sole source of topographical map data, which are disseminated to the various sectors as a basis for socio-economic planning. It is important to note that maps and other map related data and information are crucial inputs to major projects, including Plan for Modernisation of Agriculture, Road Maintenance Programme, Health and Water Development, and other rural developments.

The Digital Mapping project is one of the core institutions that will be responsible for the smooth establishment of the National GIS, which will be central to development of GIS based indicator monitoring system in the Ministry of Finance, Planning and Economic Development.

The project also supports the implementation of the Land Sector Strategic Plan (Land Information System component), and the development of the National Spatial Data Infrastructure and Institution of the National GIS.

Objective

The main objective of the project is the full computerisation and digitalisation of map production covering the current and work done in the past years. Mapping operations in the Department will be fully computerised to enable the timely generation, management and utilisation of geo-information. The project will also support the establishment of the National Spatial Data Infrastructure, a nation-wide GIS, and the implementation of the Land Information System component under the Land Sector Strategic Plan.

Expected Outputs

- Computerised and updated relevant maps of Uganda, both basic and thematic;
- Geo-referenced information used for planning
- Smooth establishment of the National GIS
- Establishment of a computerised Land Information System

Performance Indicators

Performance indicators will revolve around:

- quantity and quality of maps produced;
- number of times geo-referenced information used in planning (by both the private and the public sector)
- number of digitised and computerised maps.

Technical Description

The Digital Mapping Project is one of the core institutions responsible for the smooth establishment of the National GIS, and the establishment of a computerised Land Information System under the Land Sector Strategic Plan. The project will be the source of digital cadastral information for which work has started with the greater Kampala area.

The focus is on the production of GIS information, revision of maps using satellite images, completion of geo-databases (at national and local levels) through:

- Supply of map updating equipment

Provision of Satellite processed images and data

- Provision of technical assistance, more specifically:

- Installation of the new equipment
- Help in defining data base
- Support to computer system management
- Maintenance of hardware and software equipment belonging to the project
- Installation of other workstations, one colour plotter, one scanner, one colour printer, Differential GPS (Global Positioning System) equipment:
- Technical assistance:
- Rehabilitation of Department buildings:
- Training:
- Maintenance of equipment: and
- Acquisition of spot satellite images

Financing

The project is currently funded entirely by the GoU. It is however expected that the European Union, in support of the National GIS initiatives, will provide funding to the project. Further discussions have been initiated with ADB & BADEA and other development partners.

Plan of Operation & MTEF focus/Performance targets

The project is implemented by the Department of Lands and Surveys (Geodesy & Surveys and Mapping Divisions) in the Ministry of Water, Lands, and Environment. It works in close collaboration with the Land Tenure Reform Project under the same Ministry. During the 04/05 FY the following achievements were recorded:

- Using the data collected from earlier fieldwork missions updates of thematic maps were produced for the districts of Kumi, Soroti and Kitido were made.
- In support of decentralization, digitizing, editing and integration of topographic maps to cover individual districts for purposes of creating district databases has continued. 6 map sheets have been digitized and 4 edited:
- The index map for map stock status was updated and is due for printing;
- Two (2) Space maps were produced for Mulabana and Ibanda.
- Geo-referencing of PT surveys and problem Solving has been undertaken.

The following activities will be carried out during the MTEF period:

- The fieldwork mission for GIS data acquisition for district database development;
- Data integrated from field into the database
- Survey for GIS development;
- Purchase of some specialized mapping materials;
- Dissemination of thematic maps;
- Survey for map user requirements ;
- Procurement of printing material;
- Repair of one digitizer and service of 3 digitizers;
- The routine work of digitizing, editing and integration of topographic maps.

Recommendation

The project is heavily under-funded. There prospects of attracting donor funding is eminent as discussions have been initiated with several interested donors. The project should therefore continue to be maintained and funded under the MTEF.