

**Implementation Status & Results
Africa
Eastern Nile Planning Model (P103639)**

Operation Name: Eastern Nile Planning Model (P103639)	Project Stage: Implementation	Seq.No: 4	Status: ARCHIVED	Archive Date: 08-Jan-2013
Country: Africa	Approval FY: 2010			
Product Line: Recipient Executed Activities	Region: AFRICA	Lending Instrument: Technical Assistance Loan		
Implementing Agency(ies):				

Key Dates

Board Approval Date	01-Jul-2009	Original Closing Date	30-Oct-2012	Planned Mid Term Review Date	11-Apr-2011	Last Archived ISR Date	26-Apr-2012
Effectiveness Date	09-Sep-2009	Revised Closing Date	31-Dec-2012	Actual Mid Term Review Date	27-Jun-2011		

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The development objective of the ENPM Project is that countries in the Eastern Nile operationalize an improved decision support modeling framework to identify water-related investments and evaluate them in a regional context.

Has the Project Development Objective been changed since Board Approval of the Project?

Yes No

Component(s)

Component Name	Component Cost
A: Information Management Systems Development	1.50
B: Modeling Systems Development	3.50
C: Institutional Capacity Strengthening	1.50

Overall Ratings

	Previous Rating	Current Rating
Progress towards achievement of PDO	Moderately Satisfactory	Satisfactory
Overall Implementation Progress (IP)	Moderately Satisfactory	Satisfactory
Overall Risk Rating		

Implementation Status Overview

The overall rating of this project is satisfactory. Despite implementation challenges reflecting the current environment for cooperation in the Nile Basin, the Eastern Nile Technical Regional Office (ENTRO), the implementing agency for the project, has been able to effectively pursue appropriate implementation arrangements to enable key elements of the project to be completed. This has included the development of a well-organized comprehensive knowledge base and knowledge products and a range of analytical/modeling tools to examine water resources planning, development, and management issues and investments, and the strengthening of knowledge networks in the Eastern Nile, working closely with Universities and instituting an innovative internship program.

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Locations

Country	First Administrative Division	Location	Planned	Actual
Africa	Not Entered	Addis Ababa		
Africa	Not Entered	Cairo University		
Africa	Not Entered	Addis Ababa University		
Africa	Not Entered	University of Khartoum		

Results

Project Development Objective Indicators

Indicator Name	Core	Unit of Measure		Baseline	Current	End Target
Strengthened Institutions: Number of senior professionals in Regional and National Institutions using ENPM	<input type="checkbox"/>	Number	Value	0.00	50.00	10.00
			Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
			Comments	ENPM defined as knowledge base and tools developed as part of the project.	There are a number of professionals working in regional and national institutions that are using ENPM products. This includes several professionals in NBI institutions, the 46 graduate students and young faculty involved in internship programs, faculty in key universities in the EN, and government professionals. Hundreds of professionals have so far attended workshops facilitated by the ENPM. In addition, ENTRO plans to continue to use these products in future workshops and in engaging regional, country, and development partner professionals.	At least four (regional-level) and two each (national-level) are proficient in appropriate use of ENPM system tools
Strengthened Institutions: Number of regional and national meetings facilitated by ENPM outputs	<input type="checkbox"/>	Number	Value	0.00	12.00	4.00
			Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
			Comments	None	There have been a number of well-attended workshops	At least one (regional) and

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					organized at regional and national level in Egypt, Ethiopia, Sudan, and recently South Sudan. Details provided in Project Completion Report.	one each (national) meetings facilitated by ENPM outputs
Planning Facilitation: Number of projects in Eastern Nile for which Investment Strategies are based on ENPM analysis	<input type="checkbox"/>	Number	Value	0.00	1.00	1.00
			Date	29-Jul-2009	21-Dec-2012	31-Dec-2012
			Comments	None at beginning of project.	A range of joint multi-purpose project options were analyzed using ENPM tools (e.g. many sizing and cascade versions of Blue Nile mainstem dams). A number of investments of national significance were also analyzed (in a regional context wherever possible) relating to irrigation, watershed management, power systems, etc. to contribute to the development of investment strategies. The ENPM work has also helped shape the investments proposed under the Nile Cooperation for Results (NCORE) Project.	Key EN projects analyzed (at least one major joint multipurpose/national investment)

Intermediate Results Indicators

Indicator Name	Core	Unit of Measure		Baseline	Current	End Target
Information Management Systems Developed	<input type="checkbox"/>	Yes/No	Value	No	Yes	Yes
			Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
			Comments	Fragmented databases with limited accessibility	A comprehensive set of knowledge bases were organized into geodatabases. A number of knowledge products (including interactive toolkits, web portal, atlas, state of the basin report, etc.) and model interfaces have been developed.	- Systematic knowledge base developed - Appropriate data management interfaces used -State of Eastern Nile Report with finalized One System Inventory -Suite of interactive knowledge products
Modeling Systems Development	<input type="checkbox"/>	Yes/No	Value	No	Yes	Yes

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		Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
		Comments	<p>Fragmented models at national level or one-off modeling for regional studies Basic Nile DSS modules under development</p>	<p>A suite of ENPM modeling tools have been developed to analyze critical issues in the Eastern Nile. These include Soil and Water Analysis Tool (SWAT), RIBASIM, RiverWare, HEC Suite, Mike Basin, NileDSS Platform, GAMS, etc. A number of Thematic (e.g. watershed, power, irrigation) and Sub-basin toolkits (for all EN sub-basins) have also been developed. Models related to flood forecasting were enhanced under ENPM, particularly related to hydrologic modeling in the Lake Tana area and in Sudan. Special studies also contributed to the use of analytical tools to examine dam break, surface and groundwater interactions using models such as Modflow, climate change, and water quality impacts on fisheries. The project achieved far more than the target of 3 projects to be evaluated. ENPM tools have been used to evaluate a number of projects (ranging from about 4 dams for storage and hydropower on the Blue Nile and varying combinations and sizing options for each, a number of irrigated agriculture development options, flood and fisheries models, etc.). The tools also provide a flexible platform to evaluate a plethora of other investment</p>	<p>Models fully operational and applied to various appropriate spatial locations in the EN</p>

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					and climate options as required.	
Appropriate interfacing with other activities (especially NBI Nile DSS)	<input type="checkbox"/>	Yes/No	Value	No	Yes	Yes
			Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
			Comments	Basic level discussions to synergize but many issues in coordination (especially with Nile DSS) still unclear.	Collaboration was very limited initially (e.g. to sharing knowledge bases, co-locating activities in-country, and helping on each others' procurements) due to each project implementing a number of activities with separate multi-country teams (very large in the case of the NileDSS) as planned on a very tight timeframe. However, as the ENPM activities really picked up especially towards the end of the project, there was much more robust and meaningful collaboration. This included co-financing key consultancies related to software development for additional NileDSS features, adapters for additional models to be added to the Nile DSS framework, IT equipment and software to EN countries, synergizing remote sensing procurement, and co-organizing training workshops. This has also helped the NileSec and ENTRO to better agree on future knowledge, analysis, and partnership needs under the new NCORE project.	Appropriate synergy of ENPM with other activities in the region. In particular, synergy with Nile Basin DSS on software adapters and use of DSS framework.
Institutional Capacity Strengthening: ENPM institutions operational	<input type="checkbox"/>	Yes/No	Value	No	Yes	Yes
			Date	30-Oct-2009	21-Dec-2012	31-Dec-2012
			Comments	Implementation not initiated.	At regional-level, the ENPM project has helped transform	- ENPM staffing with basic office/IT resources completed

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				<p>ENTRO into a credible center to provide regional knowledge and analytical services. ENTRO now has the enabling skills, knowledge base, modeling tools, networks, partnerships, and outreach mechanisms to be able to engage a wide variety of stakeholders to help them make more informed decisions on issues and options that have regional significance. ENPM has also benefited other NBI activities (e.g. Nile DSS) and has helped shape the next generation of projects (e.g. NCORE) for the NBI. At national-level, the ENPM project has had mixed success. The project has helped developed excellent partnerships with Universities in the EN countries, helping Universities to establish better professional networks both within and across countries, and to partner with a number of ENTRO activities. The internship program established has been pioneering, helping a new generation of potential water professionals and leaders to acquire new skills, develop new regional collaborations, and contribute multi-sectoral perspectives to enhance ENTRO's knowledge and analytical services. The project has also helped improve national government capacity through provision of equipment and training;</p>	<p>at ENTRO - ENPM staffing with basic office/IT resources completed at National-level - Regional working group and national working groups operational - University Outreach Centers established - Structured stakeholder meetings and Trainings conducted/ facilitated by ENPM</p>
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however, this has been constrained by the current status of regional cooperation on the EN.

Data on Financial Performance (as of 21-Dec-2012)

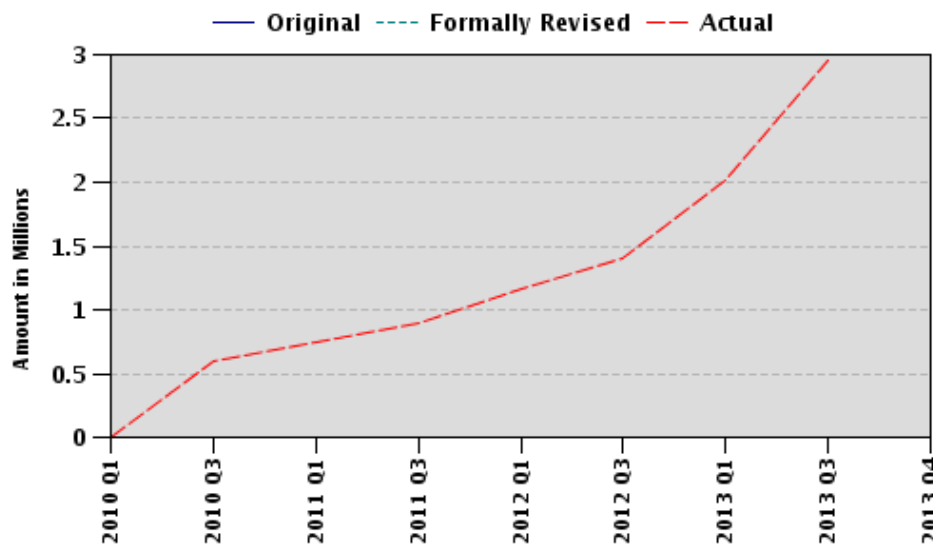
Financial Agreement(s) Key Dates

Project	Ln/Cr/Tf	Status	Approval Date	Signing Date	Effectiveness Date	Original Closing Date	Revised Closing Date
P103639	TF-94549	Effective	01-Sep-2009	09-Sep-2009	09-Sep-2009	30-Oct-2012	31-Dec-2012

Disbursements (in Millions)

Project	Ln/Cr/Tf	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P103639	TF-94549	Effective	USD	6.50	6.50	0.00	2.95	3.55	45.00

Disbursement Graph



Key Decisions Regarding Implementation

The project implementation is closing on Dec 31, 2012 (extended from the original closing date of Oct 30, 2012). The project has enabled ENTRO to be in a position to effectively provide knowledge and analytical services to the EN countries on critical water resources related issues and to build very strong partnerships with Universities in the EN countries. Key elements of the project are expected to be continued and scaled-up under the recently-approved NBI's Nile Cooperation for Results (NCORE) Project.

Restructuring History

There has been no restructuring to date.

Related Projects

There are no related projects.