ADB ASIAN DEVELOPMENT BANK

Viet Nam: Geo-Information Technology for Hazard Risk Assessment

Project Name	Geo-Information Technology for Hazard Risk Assessment
Project Number	40282-012
Country	Viet Nam
Project Status	Closed
Project Type / Modality of Assistance	Technical Assistance
Source of Funding / Amount	
Strategic Agendas	Inclusive economic growth
Drivers of Change	
Sector / Subsector	**Agriculture, natural resources and rural development** - Water-based natural resources management
Gender Equity and Mainstreaming	No gender elements
Description	This technical assistance (TA) for Hazard Risk Assessment using Geo-Information Technology will support the Project by enhancing the Government's capability to carry out risk and vulnerability assessments. The TA will enhance capabilities to include alternative approaches, including nonstructural, to mitigate natural hazard risks, while also making use of economic tools to improve the planning, design, and sustainability of risk mitigation measures.
Project Rationale and Linkage to Country/Regional Strategy	Government agencies responsible for managing natural disasters and their consequences lack the tools and skills needed to identify and assess vulnerable areas, and use the results to formulate appropriate development choices and disaster avoidance strategies. The TA is consistent with ADB's Disaster and Emergency Assistance Policy (2004).
Impact	TA will enhance the Government's capability to (i) carry out risk and vulnerability assessments, including physical, economic, social, and environmental impacts; and (ii) mainstream prevention and preparedness activities into the development process.

Project Outcome	
Description of Outcome	The TA will entail two main components: (i) training, and (ii) a pilot project for a selected province. The detail of the components will be clarified in the TA design and preparation stage.
Progress Toward Outcome	
Implementation Progress	
Description of Project Outputs	The outputs of the TA will be (i) improved knowledge base of different types of natural disasters, inventory of at-risk facilities, and hazard maps in selected areas; (ii) improved ability to use a computer-based GIS to assess hazard risks and prepare visual presentations of vulnerability, including the capability to assess and present risk and vulnerability in economic, social, and physical terms; (iii) capability built within the relevant disaster management agencies to operate and maintain the database and decision-making tools; and (iv) capacity built among faculty staff of WRU to use the training materials prepared under the TA.
Status of Implementation Progress (Outputs, Activities, and Issues)	1) Completed a case study for the use of Geo-Information Technology for Hazard Risk Assessment in Yen Bai - Northern Vietnam; 2) A fully worked out ISDR-based GITHRA methodology consisting of two text books: Spatial Modeling of Natural Hazard Processes and the GITHRA guidebook; 3) Fully worked out GITHRA exercises for hands-on training for multi-hazard risk assessment and disaster management; 4) An e-learning package to facilitate off-location internet-based training. This package includes both textbooks, all the exercises, and the required data, including the data from Yen Bai. All materials have been translated into Vietnamese to enable the newly trained trainers to conduct future courses for governmental, provincial and local staff.
Geographical Location	Training to be taught at Water Resources University and applied country-wide with a pilot in Yen Bai

Summary of Environmental and Social Aspects
Environmental Aspects
Involuntary Resettlement
Indigenous Peoples
Stakeholder Communication, Participation, and Consultation
During Project Design
During Project Implementation

Business Opportunities	
Consulting Services	The TA will be implemented over 18 months. It is anticipated that it will commence in March 2009 and be completed by August 2010. Its implementation will require the services of a multidisciplinary team of international and national consultants. The consultants, to be recruited under ADB's Guidelines on the Use of Consultants (2007, as amended from time to time), will provide 34 person-months of national and 20 person-months of international consultant inputs. The international consultants will encompass the range of technical skills needed for this TA, specifically flood modeling disaster management, GIS and remote sensing, economic analysis, and geo-hazard assessment. National consultants will provide expertise in training, flood hydrology, and computer operation for GIS.

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Timetable	
Concept Clearance	24 Jul 2008
Fact Finding	24 Jul 2008 to 18 Aug 2008
MRM	-
Approval	08 Dec 2008
Last Review Mission	-
PDS Creation Date	16 Jan 2009
Last PDS Update	01 Sep 2011

TA 7220-VIE

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
08 Dec 2008	30 Mar 2009	30 Mar 2009	31 Aug 2010	31 Aug 2011	-

Financing Plan/TA Utilization							Cumulative Disbursements	
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
0.00	0.00	125,000.00	0.00	0.00	0.00	125,000.00	08 Dec 2008	423,118.42

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