



# Viet Nam: Geo-Information Technology for Hazard Risk Assessment

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|---|--|--|-----------------|
| Project Name  | Geo-Information Technology for Hazard Risk Assessment  |  |                 |
| Project Number  | 40282-012  |  |                 |
| Country / Economy   | Viet Nam   |  |                 |
| Project Status  | Closed   |  |                 |
| Project Type / Modality of Assistance                               | Technical Assistance   |  |                 |
| Source of Funding / Amount  | TA 7220-VIE: Geo-Information Technology for Hazard Risk Assessment   |  |                 |
|   | Republic of Korea e-Asia and Knowledge Partnership Fund  |  | US\$ 500,000.00 |
| Strategic Agendas   | Environmentally sustainable growth   |  |                 |
| Drivers of Change   | Governance and capacity development<br>Knowledge solutions   |  |                 |
| Sector / Subsector  | Agriculture, natural resources and rural development / Water-based natural resources management  |  |                 |
| Gender  |  |  |                 |
| 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.   |  |                 |
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| 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   |  |  |                 |
|   |  |  |                 |
| 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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| Responsible ADB Officer   | Ellingson, Dennis  |  |                 |

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|----------------------------|--|
| Responsible ADB Department | Southeast Asia Department  |
| Responsible ADB Division   | Viet Nam Resident Mission  |
| Executing Agencies         | Ministry of Agriculture and Rural Development<br>Pham Hong Nga, Head<br>phamhongnga@wru.edu.vn<br>175 Tay Son Street, Dong Da District, Hanoi, VIET NAM<br>Ministry of Agriculture and Rural Development<br>Room 305 Building A15<br>10 Nuyen Cong Hoan Street<br>Ba Dinh District, Hanoi, Vietnam |

| 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 | 27 Jun 2012 |

| Financing Plan/TA Utilization |             |             |               |                 |        |            | Cumulative Disbursements |            |
|-------------------------------|-------------|-------------|---------------|-----------------|--------|------------|--------------------------|------------|
| ADB                           | Cofinancing | Counterpart |               |                 |        | Total      | Date                     | Amount     |
|                               |             | Gov         | Beneficiaries | Project Sponsor | Others |            |                          |            |
| 0.00                          | 500,000.00  | 125,000.00  | 0.00          | 0.00            | 0.00   | 625,000.00 | 17 Jun 2022              | 423,118.42 |

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|-------------------------|---|
| Project Page            | <a href="https://www.adb.org/projects/40282-012/main">https://www.adb.org/projects/40282-012/main</a>   |
| Request for Information | <a href="http://www.adb.org/forms/request-information-form?subject=40282-012">http://www.adb.org/forms/request-information-form?subject=40282-012</a> |
| Date Generated          | 05 June 2023  |

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