



October 2007

Geographic Information System for Integrated Water Resources Management in Cimanuk River Basin

This PDA helped establish a Geographic Information System for the Cimanuk River Basin to support decision making in the integrated management of water resources at central, provincial, and district levels.



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Snapshot

Project site	West Java, Indonesia
Cost	US\$ 65,000
Status	Completed
Approval date	January 2007
Completion date	October 2007
Category	Basin
ADB officer	Chris Morris
Partner	PT Waindo SpecTerra

Report card

Completed in October 2007, this PDA helped establish a GIS for the Cimanuk River Basin that:

- Mapped out village boundaries
- Revised and corrected village land use maps
- Mapped out irrigation infrastructure

Read the [Final Report](#).

Description

Indonesia's Law on Water Resources, passed in 2004, mandates that surface water management be based in river basins, where integrated water resources management can be introduced. The law also specifies that government and regional governments shall manage a water resources information system to support water management. The information system should include data on

- Hydrological, hydro-meteorological, hydro-geological conditions

- Water resources policies
- Water resources infrastructure
- Water resources technology
- Water-related social, economic, and cultural activities of communities that rely on the river basin.

This PDA helped establish a Geographic Information System for Water Resources Management in the Cimanuk River Basin in West Java, Indonesia. The Cimanuk is one of the river basins identified for immediate attention under Indonesia's National Action Programme for Partnership in Water Conservation. Specifically, data will be obtained from the Cipanas-Pangkalan sub-basin, and will serve as the foundation for Cimanuk River Basin database.

Expected outcomes

The Geographic Information System is expected to support decision makers in managing the Cimanuk River Basin by

- Providing accurate and reliable data and information on past situations, the current equivalent, and the changes that have occurred
- Simulating planned developments and showing interrelations between sectors and regions to clearly visualize the scope and effects of planned programs and projects and the necessary complements and derivatives
- Providing assistance in planning additions and improvements to water resource utilization, operation and maintenance or irrigation and/or water supply assets, and monitoring of water resource utilization
- Clarifying and illustrating reports through printouts of relevant maps and overlays

Related

- [More on water and sanitation](#)
- [Indonesia and ADB](#)
- [Pilot and Demonstration Activities](#)
- [Final Report \(October 2007\)](#)
- [Proposal \(January 2007\)](#)

Sourced from

<https://www.adb.org//results/water-pda-geographic-information-system-integrated-water-resources-management-cimanuk-river-basin>