

From Flood Control to Flood Management

ADB's Experience in Indonesia

Presentation by
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The logo of the Asian Development Bank (ADB), consisting of the letters "ADB" in a white serif font on a dark blue square background.

ADB

Loan No. 1425/1426(SF)-INO: North Java Flood Control Sector Project

Loan Amount: \$90 million

(\$45 million + \$45 million) original

Total Project

Cost: \$153 million

Approved: 18 January 1996

Closing date: 31 December 2003



Loan No. 1479-INO: South Java Flood Control Sector Project

Loan Amount: \$103 million

Total Project

Cost: \$184 million

Approved: 7 November 1996

Closing date: 30 September 2005

INDONESIA
SOUTH JAVA FLOOD CONTROL SECTOR PROJECT



Lessons Learned

1. Complex hydro dynamics
 - a. Adjacent rivers networks
 - b. Flood and drainage regimes
 - c. Community water management
 - d. Non water resources infrastructure
(roads, urban development)

Lessons Learned

2. Land Acquisition
 - a. How to reduce social impacts?
 - structural measures
 - b. Illegal settlers
 - complicated land title
 - ADB's social safeguard policy
 - c. Participatory Approach
 - time consuming

Parapet to minimize LA



Lessons Learned

3. Rapid Urbanization
 - a. Land pressure on retention reservoir
 - b. Housing development of watershed area
 - c. Land use control

Lessons Learned

4. Coordination among Agencies
 - a. 3 ministries (MPW, MOHA, MOF)
 - b. Role of PMU
 - c. Watershed Management (Who is responsible for?)

Lessons Learned

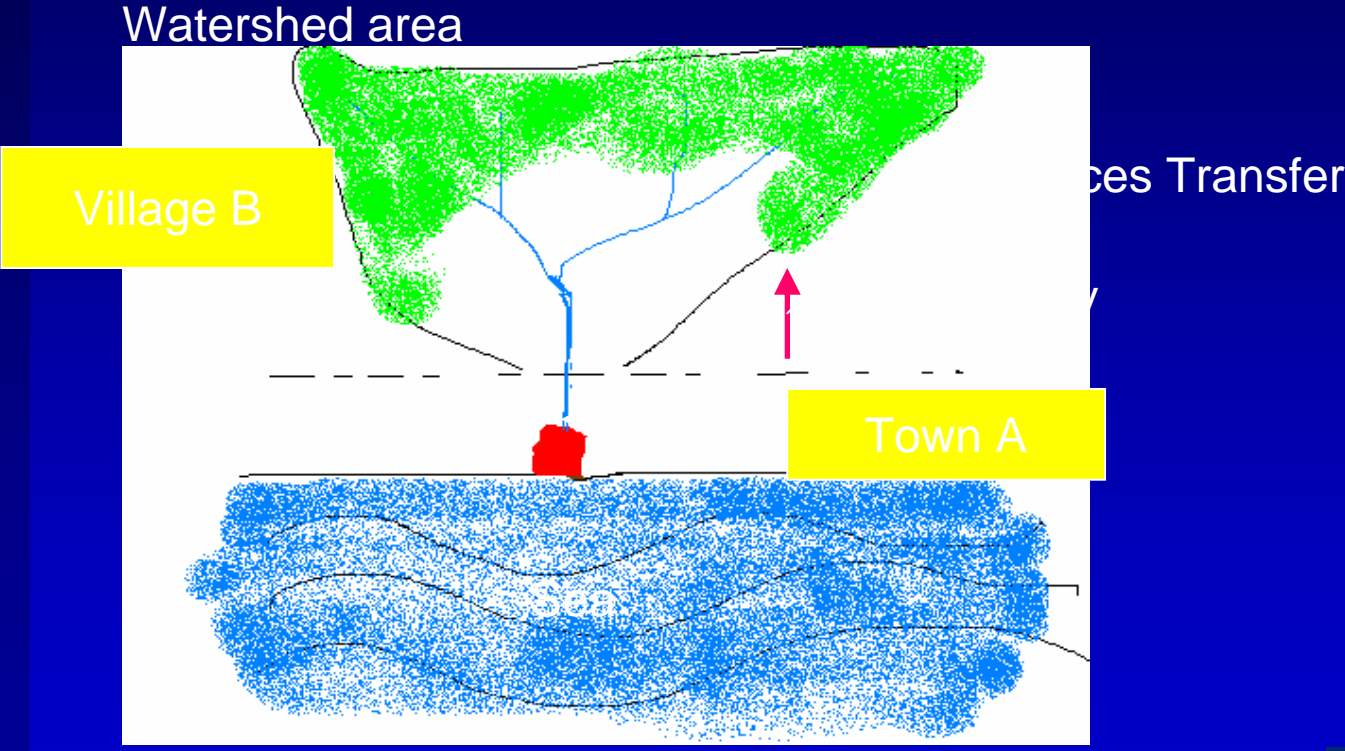
5. Operation and Maintenance (O&M)
 - a. Who is responsible for what?
 - b. Who will pay what?
 - c. Decentralization – sense of ownership?

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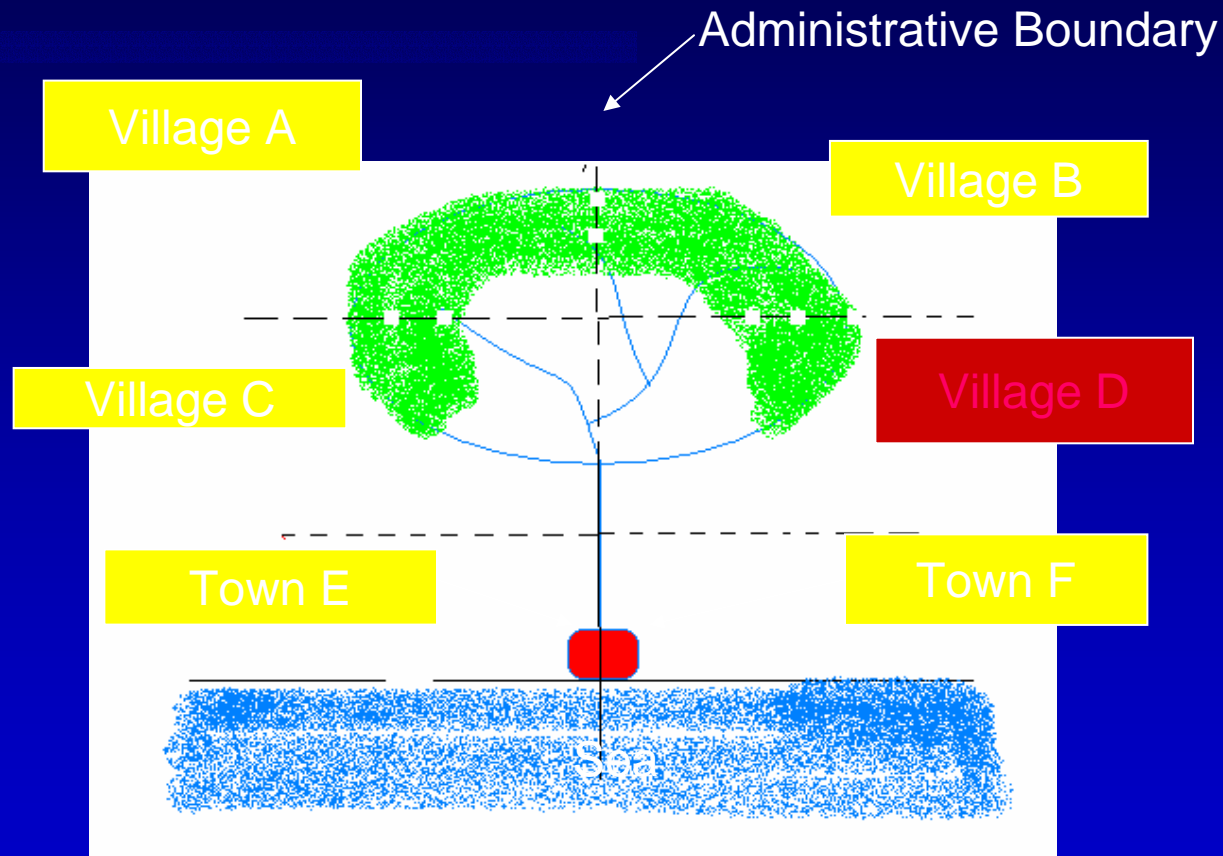
– Issues to be tackled for the future project

1. Upstream-Downstream Coordination
Resources Transfer
2. One Basin – One Plan – One Management
 - “Dewan”
 - Spatial Planning
3. Flood Hazard Map
4. Early Warning System
5. Evacuation Plan

Upstream-Downstream Cooperation



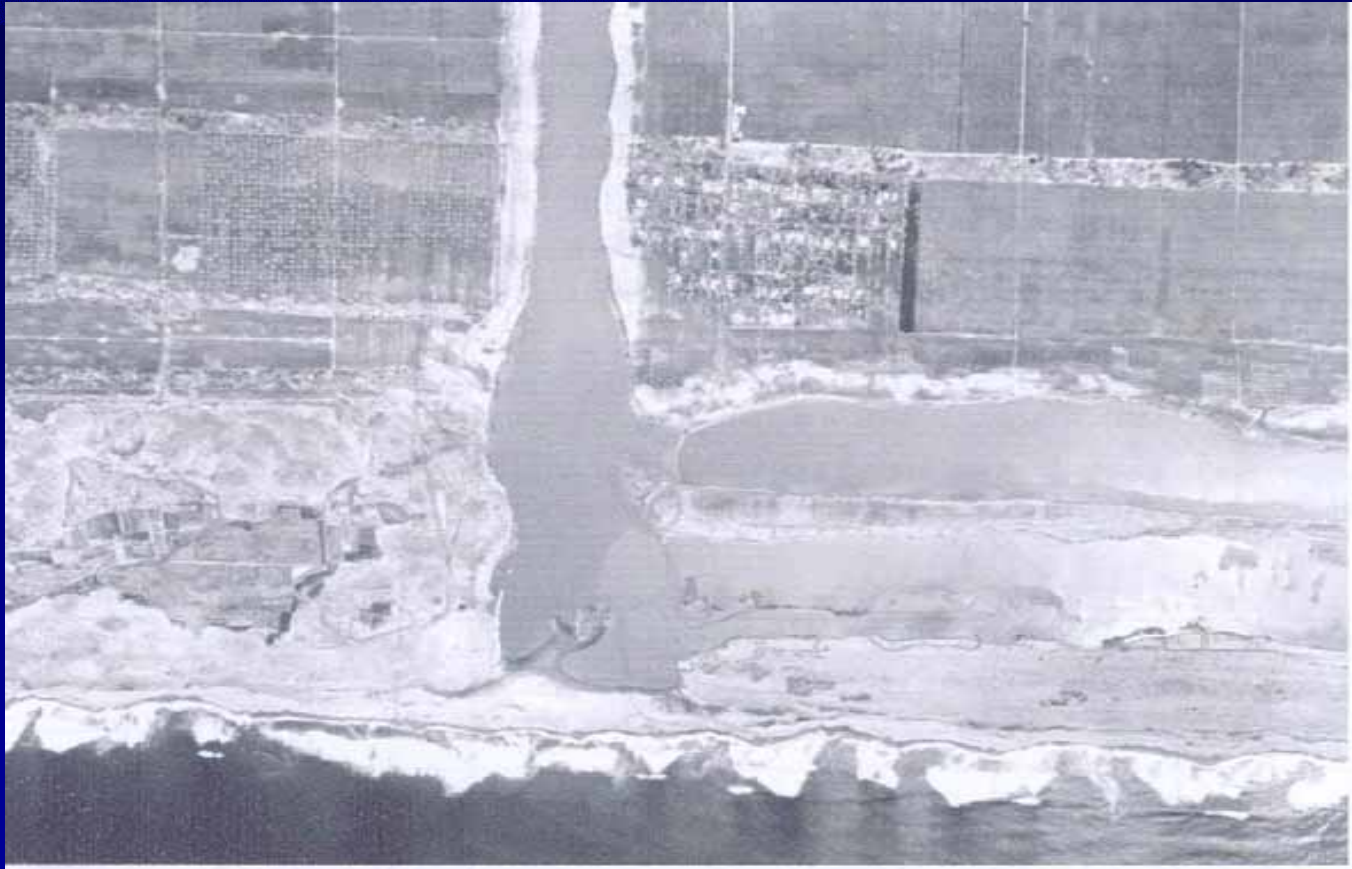
Consensus on a Master Plan of the Basin



Sand Mining Problems



River Mouth Closure



Thank You

For More Information:

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Web site: www.adb.org

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