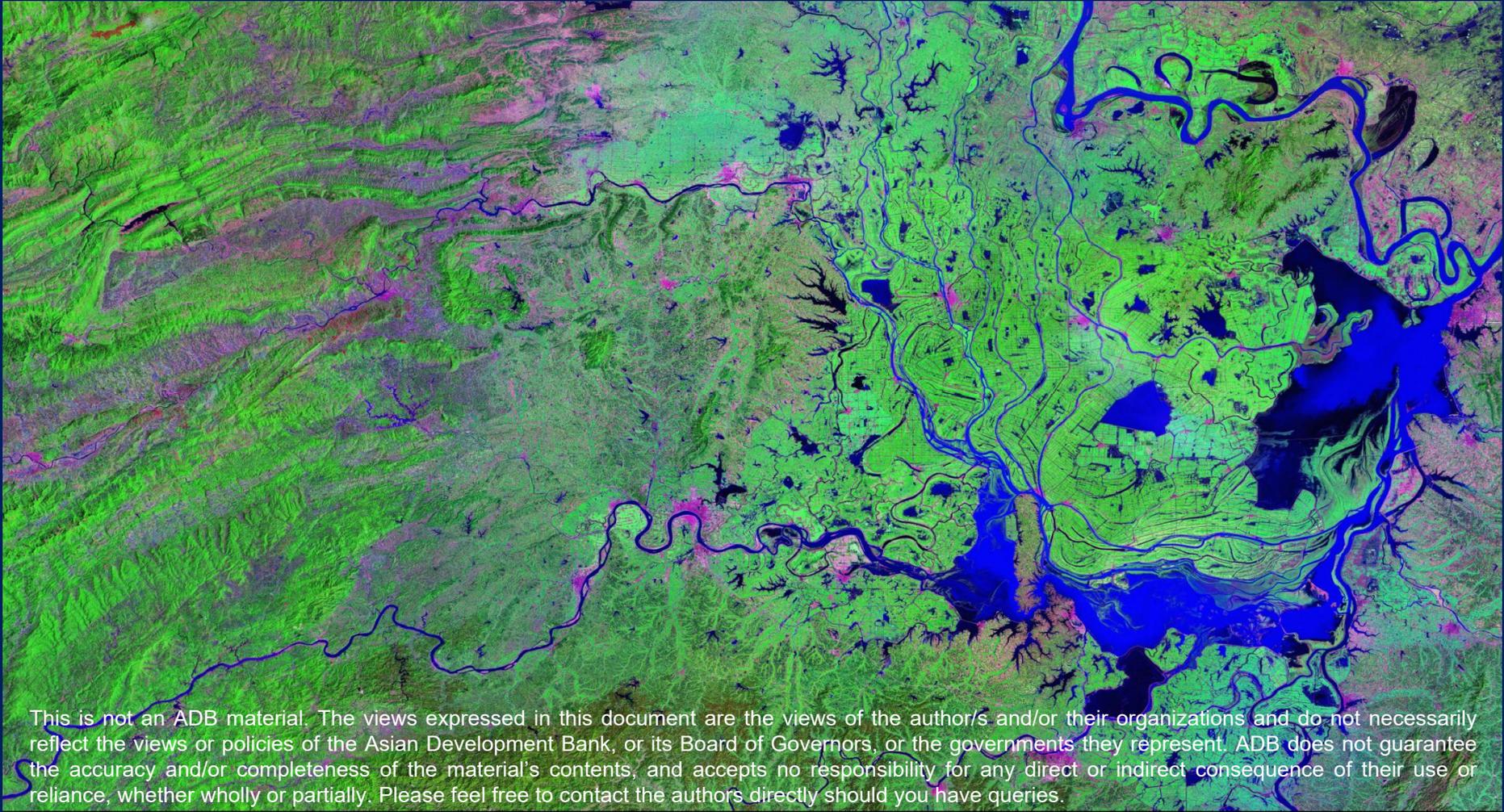


EAP: Irrigation Management Modernization



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A collaboration

ADB



Overview

1. The Study
2. The How
3. Structure of Workshop
4. ABCDE+F in a nutshell

Irrigation Management Modernization: A Regional Technical Assistance Study

- **Objective:**
To identify long term investment priorities for modernizing irrigation & drainage service delivery in the East Asia & Pacific region (EAP)
- **Method:**
A comparative assessment of current irrigation & drainage service provision and a view to the future ('future-watch')
- **Rationale:**
Modernization needs shared experience, best practices and lessons learnt but also needs appreciation of economic transitions
- **Drivers**
 - Economic transformation & off-farm opportunities,
 - urbanization & transitions in irrigated smallholder agriculture,
 - increased pressure on land and water resources &
 - amplified climatic risk.

How

- National studies & lessons learned Synthesis Report
- Analytical framework to allow comparison (ABCDE+F)
- A regional **Synthesis Report**
- Participating Countries:
 - China, Indonesia, Vietnam (WB funded National Studies)
 - Australia, Japan, (evolution of modernization in OECD countries)
 - Thailand, Malaysia (FAO funded)
- Timetable
 - Country assessments ongoing – presentation of drafts 12 March
 - Synthesis and Consultations; March-May 2013
 - Output: Draft Synthesis Report and guidelines June 2013

Structure of Workshop

AM

- Introduction
- Presentations of national assessments followed by discussion
- An OECD example – Southern California
- Small working group sessions (national teams)

PM

- The future for irrigated commodities in the EAP region
- Reporting back from working groups
- Recommendations and Conclusions

ABCDE in a nutshell

- Understanding how much water is available
 - ACCOUNTING
- Allocating the water among competing uses
 - BARGAINING
- Setting Rules
 - CODIFICATION
- Assigning responsibility
 - DELEGATION
- Developing the facilities
 - ENGINEERING

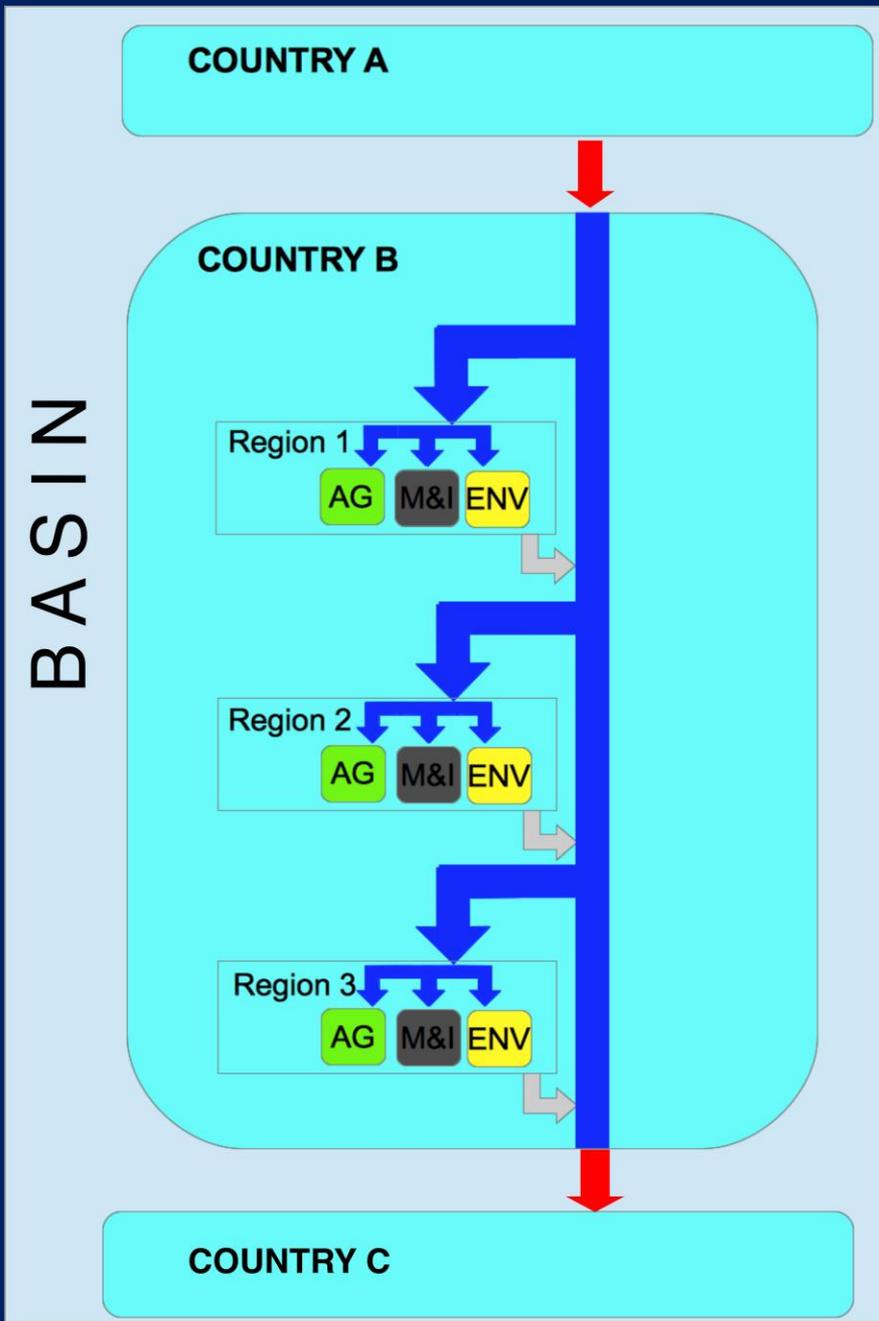
ACCOUNTING (HYDROLOGY)

BARGAINING (POLITICS)

CODIFICATION (LAW)

DELEGATION (INSTITUTIONS)

ENGINEERING



The ABCDE+F framework – a generic example

LEVEL	A: Accounting	B: Bargaining	C: Codification	D: Delegation	E: Engineering	F: Feedback
National	<i>National water audit</i>	<i>National water council</i>	<i>National water law</i>	<i>Regulation policy</i>	<i>Interbasin transfer</i>	<i>Agricultural growth</i>
Basin	<i>Basin audit</i>	<i>Basin planning Board</i>	<i>Basin plan</i>	<i>River basin organization</i>	<i>Hydromet network</i>	
Service Interface Basin – Main Irrigation System	<i>Water account</i>	<i>System representation on Board</i>	<i>Water use rights + bulk allocation and service standards</i>	<i>Bulk delivery payments</i>	<i>Flow management system</i>	
Main Irrigation System		<i>Irrigation Committee</i>	<i>System operation plan</i>	<i>Irrigation system authority</i>	<i>conveyance + drainage system</i>	<i>Annual review and plan setting</i>
Service Interface Main Irrigation – Sub-Irrigation System	<i>System scheduling account</i>	<i>Water use association federation (WUAF)</i>	<i>Scheduling agreement</i>	<i>Service contract and revenue flows</i>		
Sub Irrigation System		<i>Secondary</i>	<i>Cropping schedule</i>	<i>WUAF</i>	<i>Flow control and storage</i>	
Service interface WUAF – WUA		<i>Water user Association (WUA)</i>		<i>Service agreement + payment mechanism</i>	<i>Cross regulation operation</i>	
WUA		<i>Tertiary</i>		<i>WUA</i>	<i>Drainage</i>	<i>performance review</i>
Service interface WUA – Farmer	<i>Water account</i>		<i>Service agreement</i>		<i>Turn out operation</i>	<i>Information flows</i>
Farmer			<i>Water order</i>	<i>Delivery and payment</i>	<i>On-farm technology</i>	<i>Farmer income</i>

Questions to Working Groups

- What are the key irrigation management challenges?
- Are challenges common to all countries ?
- How will modernization address these challenges?
- Are the long term objectives of modernization clear?
- If so, what can be done in the short to medium term?
- How does this translate into a regional agenda?
- Finally, has the ABCDE+F method proved helpful?

Flexible hardware = flexible institutions?



Inflatable weir Bang Pakong basin, Thailand