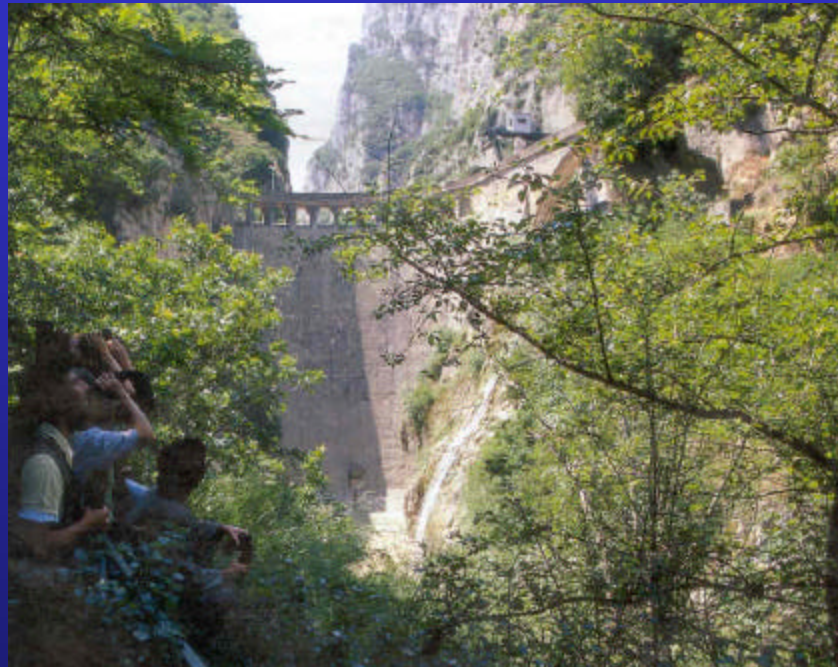


# The Dams Planning and Management Action Plan (DAMAP)



*Regional Consultations for Developing a  
DAMAP Toolkit for Bank Operations*

# STORY LINE

- ✍ DAMAP and the World Commission on Dams Report
- ✍ DAMAP and the Water Resources Sector Strategy
- ✍ Meeting Immediate Needs for Water and Energy (SIOAP)
- ✍ How to Access the DAMAP Database
- ✍ Toolkit Ideas

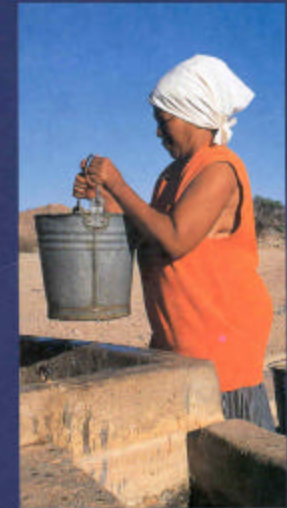
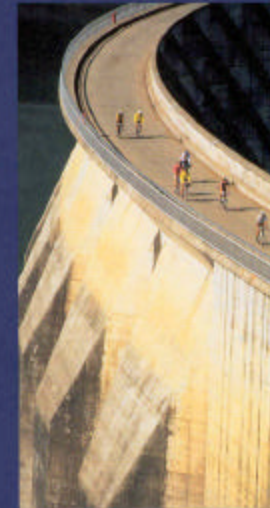
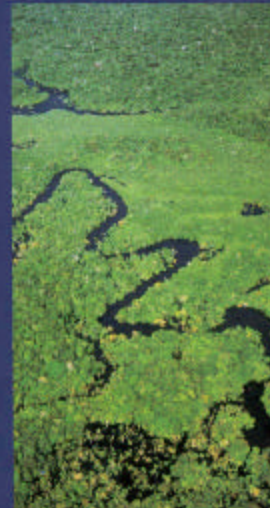
# DAMAP and The World Commission on Dams Report

# DAMS AND DEVELOPMENT

A New Framework for Decision-Making



THE REPORT OF THE WORLD COMMISSION ON DAMS



November 2000

# Turning Conflict Into Consensus

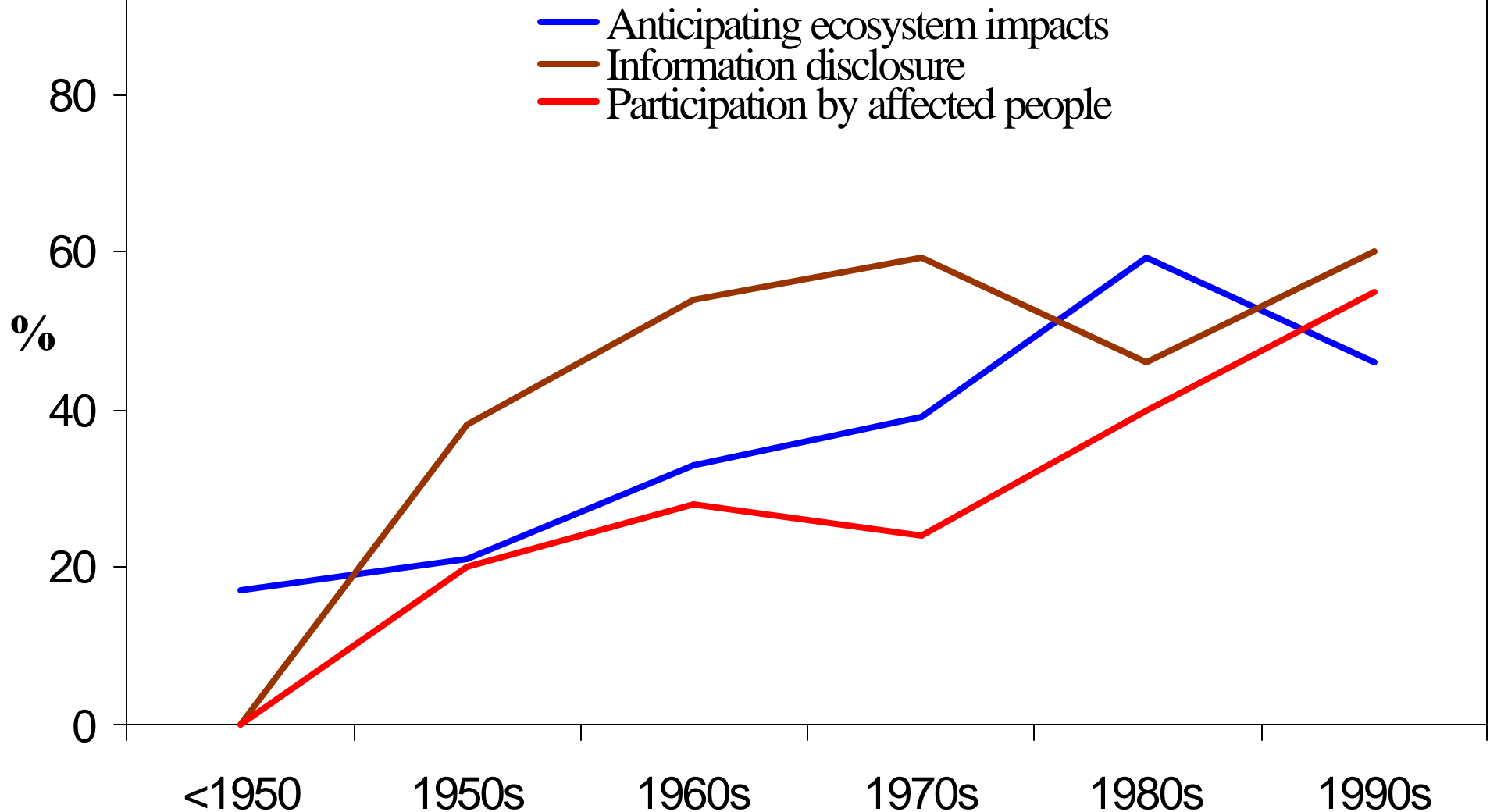
## Seven Strategic priorities

- Gain public acceptance
- Assess options
- Address existing dams
- Sustain rivers and livelihoods
- Recognise entitlements and share benefits
- Ensure compliance
- Share rivers across boundaries





# How performance has changed over time



# World Bank Position Statement

(18 December 2001)

## *essence:*

- the Bank is committed to supporting Dams which are economically, socially and environmentally appropriate
- the Bank concurs with the Core Values and Strategic Priorities and finds these helpful in assessing the need for dams and for planning and operating Dams
- the Bank will not use the 26 guidelines as conditions for Dam projects.

# **Report of the World Commission on Dams Dynamic Response**

## **Dams Planning and Management Action Plan**

- Use the WCD strategic priorities for looking at projects in the pipeline,
- Provide operations support services for critical WCD-identified issues, and
- Evaluate program and produce a Knowledge Management tool for projects with dams

# **DAMAP and the World Bank Water Resources Sector Strategy**

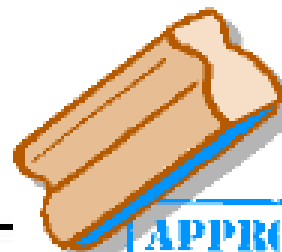


February 25  
2003



# Water Resources Sector Strategy:

## Strategic Directions for World Bank Engagement



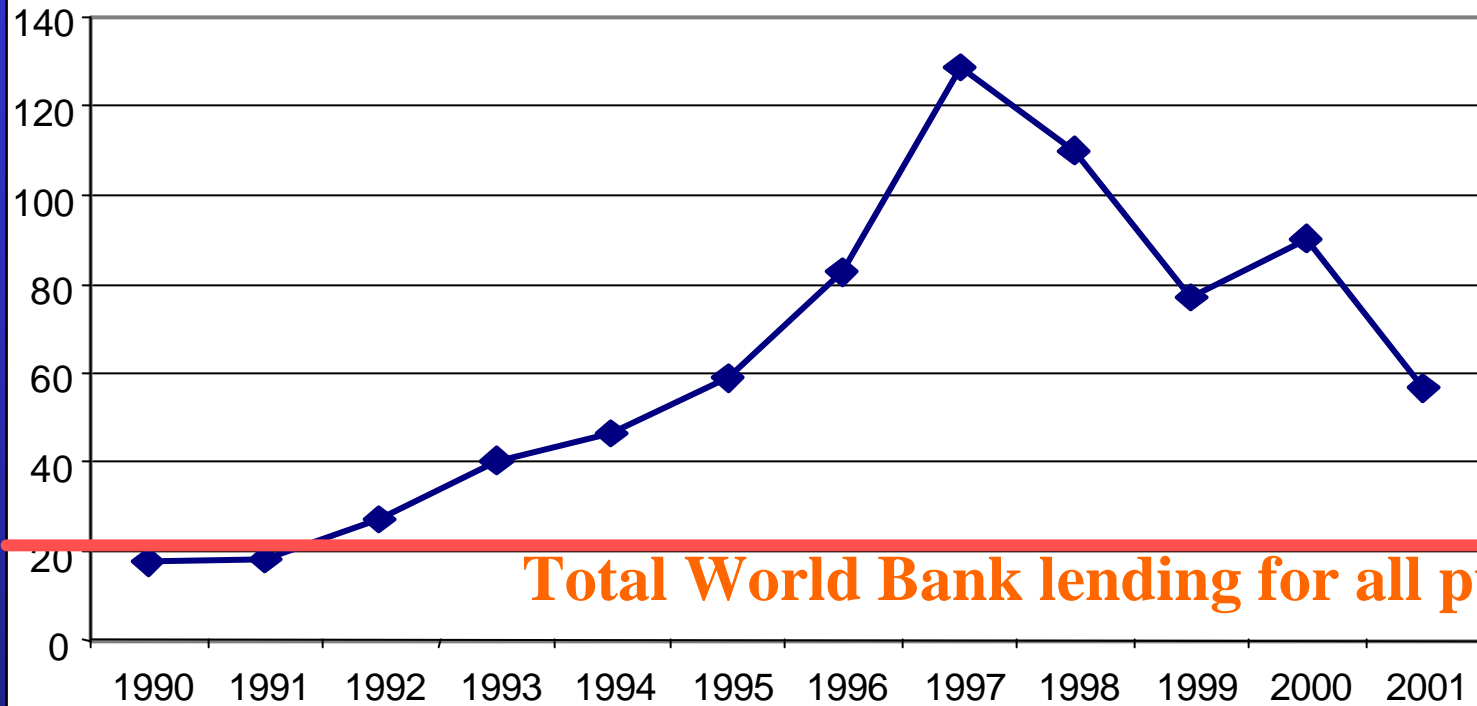
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**APPROVED**

Sardar Sarovar on the Narmada (and the associated reputational risk issues) has had a decisive influence on Bank views of water ...



## Private investment in infrastructure (2001 US\$ billion)



Total World Bank lending for all purposes

Huge increases during the 1990s...

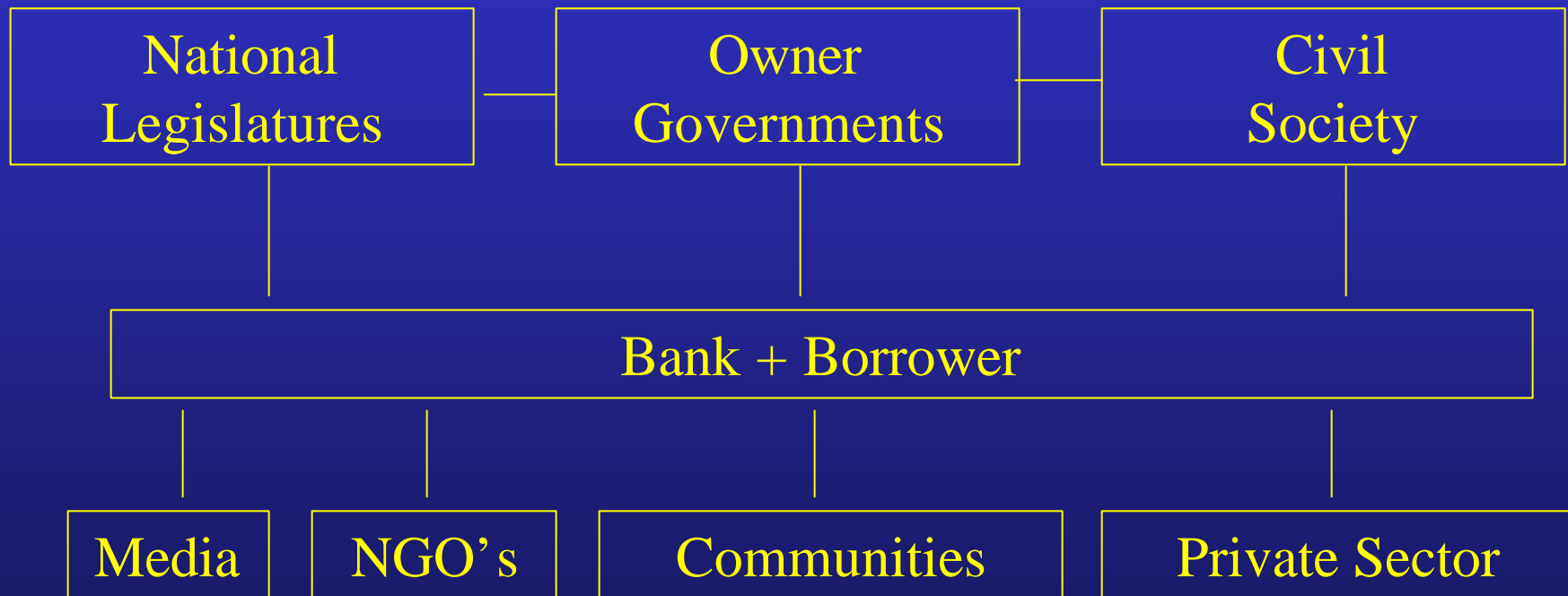
Sharp declines in late 1990s and beyond (to half of peak levels...)

Levels still high relative to Official Development Assistance

# The “new business model” for Bank engagement with high-risk/high-reward infrastructure?

- Puts country development risks (not Bank reputational risks) first;
- Assesses the development impact of both engagement and non-engagement by the Bank;
- Gives high priority to environmental and social safeguards, but ensures that implementation is efficient, practical and focused on material issues; and
- Aims at transparent, crisp, time-bound and predictable decisions.

# Relationships: An Evolving Vision



# DAMAP's Aim

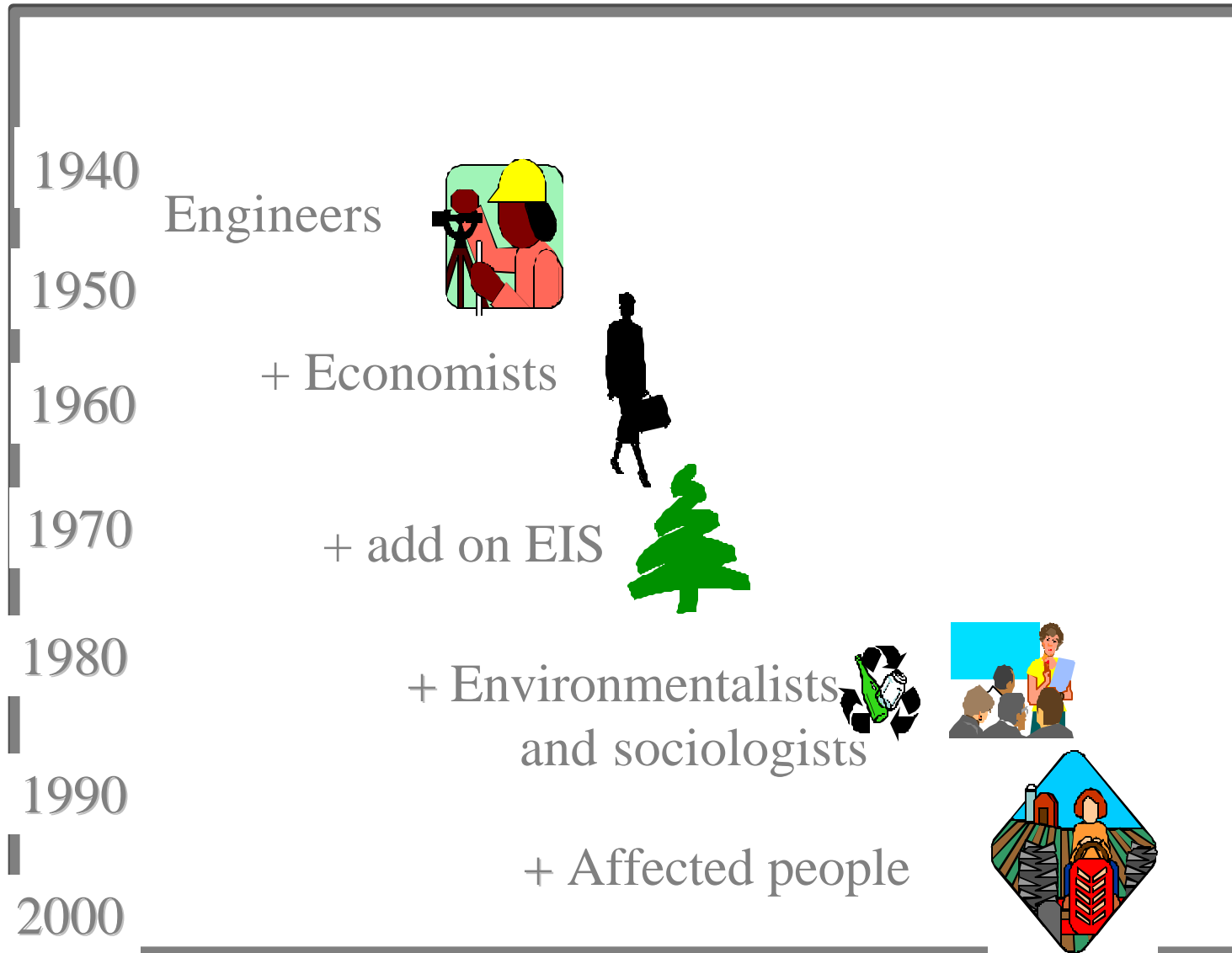
To promote good practices and support innovations, by:

- producing **Knowledge Management tools** to further improve the quality of Bank work with borrowers on projects with dams

**The Action Plan is NOT:  
An additional set of guidelines, policies, rules**

# The evolution of dam development practice

## WCD Case Studies



— 1910

— 1941

— 1952

— 1955

— 1959

— 1968

— 1971

— 1985

— 1986

— 1994

# WB “translation” of the WCD Strategic Priorities

**IMPROVING PERFORMANCE OF EXISTING DAMS**



**INSTITUTIONAL REFORMS FOR MORE EFFICIENT USE OF WATER AND ENERGY**



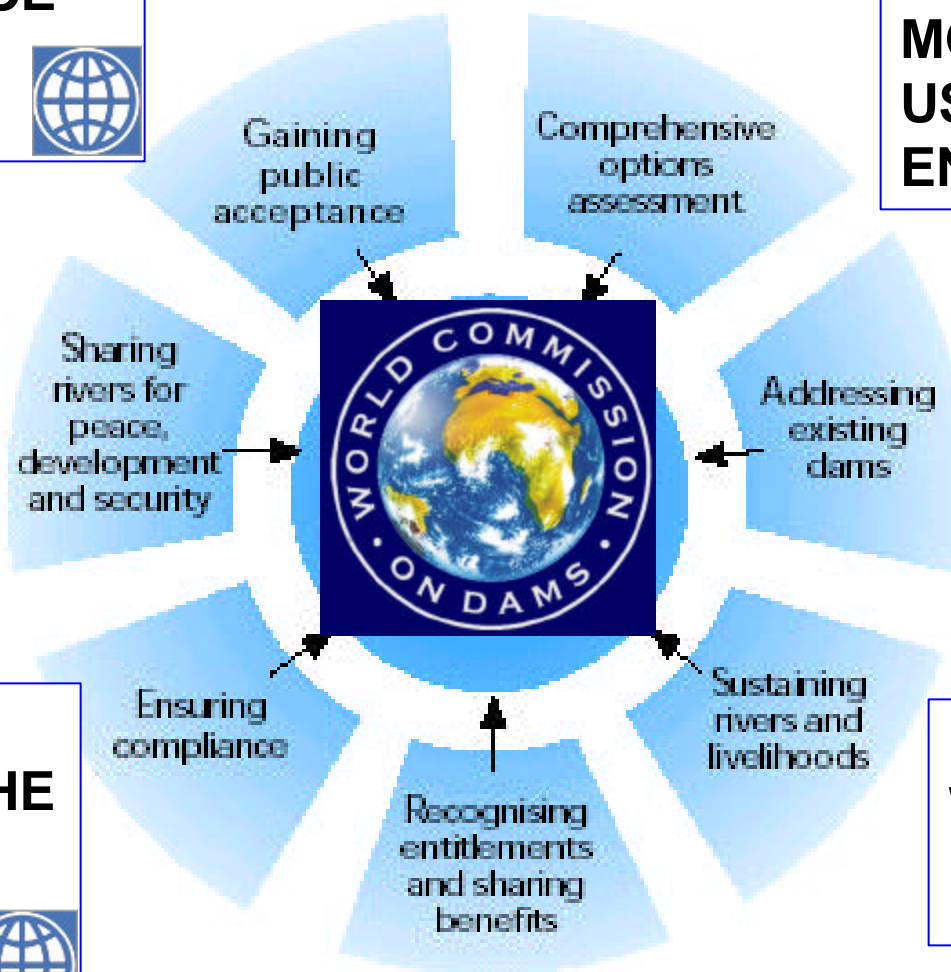
**WORK WITH BORROWERS IN MOVING "UPSTREAM"**



**INTERNATIONAL WATERS**















**EFFECTIVELY IMPLEMENT THE BANK SAFEGUARD POLICIES**

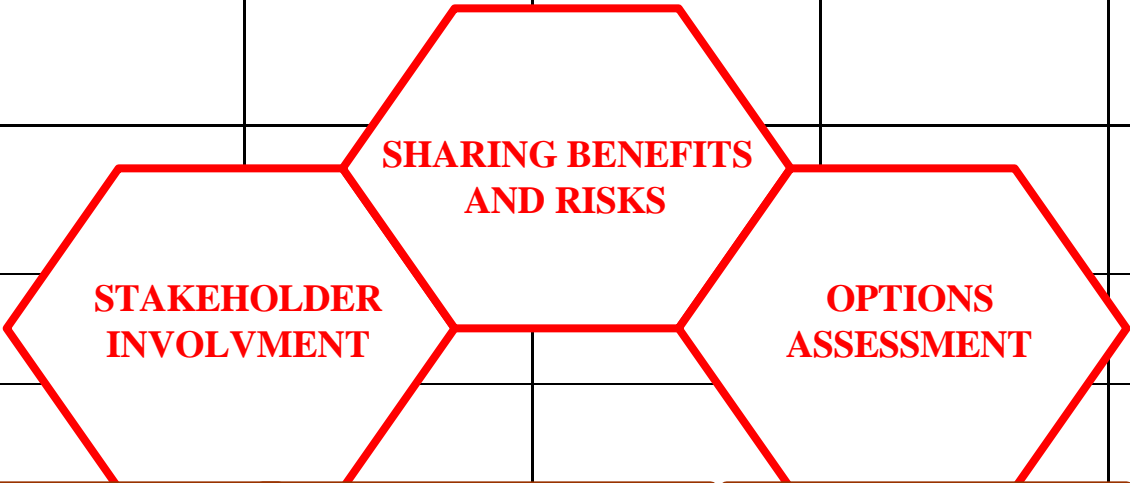




# Current Challenges in Dams and Development

						
		WORK WITH BORROWERS IN MOVING "UPSTREAM"	EFFECTIVELY IMPLEMENT THE BANK SAFEGUARD POLICIES	IMPROVING PERFORMANCE OF EXISTING DAMS	INSTITUTIONAL REFORMS FOR MORE EFFICIENT USE OF WATER	INTERNATIONAL WATERS
	GAINING PUBLIC ACCEPTANCE					
	COMPREHENSIVE OPTIONS ASSESSMENT					
	ADDRESSING EXISTING DAMS					
	ENSURING COMPLIANCE					
	SUSTAINING RIVERS AND LIVELIHOODS					
	RECOGNIZING ENTITLEMENTS AND SHARING BENEFITS					
	SHARING RIVERS FOR PEACE, DEVELOPMENT AND SECURITY					




**SHARING BENEFITS AND RISKS**

**STAKEHOLDER INVOLVMENT**

**OPTIONS ASSESSMENT**



**Dam Safety**      **Sedimentation**


**Economic Analysis**      **Rehab. & Upgrade**

**Optimize Operation**



**Licensing**      **Managed River Flows**




**BENCHMARKING AND GOOD PRACTICE FOR DAM LICENSING**  
**STAGE 1 FINAL REPORT:**  
**REVIEW OF GOOD PRACTICE CASE STUDIES**




May 2009

NORPLAN  



**WORK WITH BORROWERS IN MOVING "UPSTREAM"**

*Stakeholder Involvement in Options Assessment:  
Promoting Dialogue in Meeting Water and Energy Needs*  
*A Sourcebook*



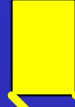
Report 264/03

**ESMAP**   

July 2003



**INSTITUTIONAL REFORMS FOR MORE EFFICIENT USE OF WATER**





**INTERNATIONAL WATERS**

-  **EXISTING DAMS**
-  **ENSURING COMPLIANCE**
-  **SUSTAINING RIVERS AND LIVELIHOODS**
-  **RECOGNIZING ENTITLEMENTS AND SHARING BENEFITS**
-  **SHARING RIVERS FOR PEACE, DEVELOPMENT AND SECURITY**

 **THE WORLD BANK** LAWS, EDITED, AND DEVELOPMENT SERIES

**REGULATORY FRAMEWORKS FOR DAM SAFETY**


*A Comparative Study*

Daniel D. Bradlow, Alessandro Palmieri, and Salman M. A. Sobhan


**Reservoir Conservation**  
*Volume I*  
**The RESCON Approach**

*economic and engineering evaluation of alternative strategies for managing sedimentation in storage reservoirs*



Alessandro Palmieri - Farhad Shah  
George W. Annandale - Arif Dinar


June 2003

AGRICULTURE TO PROMOTE CONSERVATION OF WATER STORAGE ASSETS FOR LOWER


**THIRD WORLD WATER FORUM  
KYOTO, JAPAN  
MARCH 16-21, 2003**

**STUDY ON THE MULTIPLIER EFFECTS OF DAMS<sup>1</sup>:**  
**METHODOLOGY ISSUES AND PRELIMINARY RESULTS**

**RAMEN BHATIA, MONICA SCATASTA AND RITA CESTI<sup>2</sup>**



<sup>1</sup>The study is conducted by the World Bank under the leadership of Ugoja, Shanta Shrestha, Director of the Office of the Director General, International Centre for Water Resources, Dhaka, Bangladesh.  
<sup>2</sup>Rama Bhatia is a Senior Research Consultant, Shanta Shrestha is a Senior Research Consultant, and Rita Cesti is a Senior Water Resources Specialist of the World Bank.



# Two DAMAP products of interest to ESMAP

- **Stakeholder Involvement in Options Assessment:** Meeting Immediate Needs for Water and Energy co-financed by ESMAP
- **Dams & HHP Rehabilitation and Upgrading**

# STAKEHOLDER INVOLVEMENT IN OPTIONS ASSESSMENT

*Stakeholder Involvement in Options Assessment:  
Promoting Dialogue in Meeting Water and Energy Needs  
A Sourcebook*



Energy

Sector

Management

Assistance

Programme



Report 264/03

July 2003

- SIOAP findings refer not only to dams
  - they address water and energy needs.

# Three Outputs

## 1 EXECUTIVE GUIDE

Reference document for Client Country - World Bank project preparation  
Summarizes advantages (why - options assessments with stakeholder involvement), and provides a road-map to information sources ( how to)

## 2 SOURCEBOOK

Background and policy principles

A pool of ideas for project/ process managers and stakeholders on approaches, methods and tools

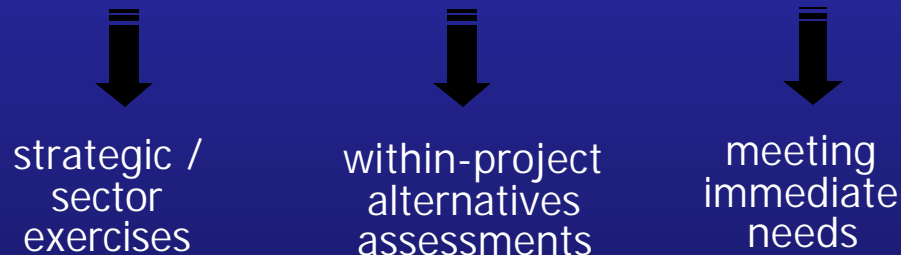
Practical examples and lessons learnt

## 3 TRAINING MODULE

Capacity building for Bank staff and client country professionals by the World Bank Institute

# Sourcebook Incorporates

- ✍ Essays on advantages of stakeholder involvement & options assessment - **the why**
- ✍ Discussion/elaboration of the principles, supported by examples from 30 Projects reviewed - **the how**
- ✍ 10 Case studies - illustrating **experience and lessons:**



China Nepal Brazil Central Asia	Uganda Zambia Canada Turkey	South Africa Kyrgyz Republic
--	--------------------------------------	---------------------------------

# Structured Around Four Principles

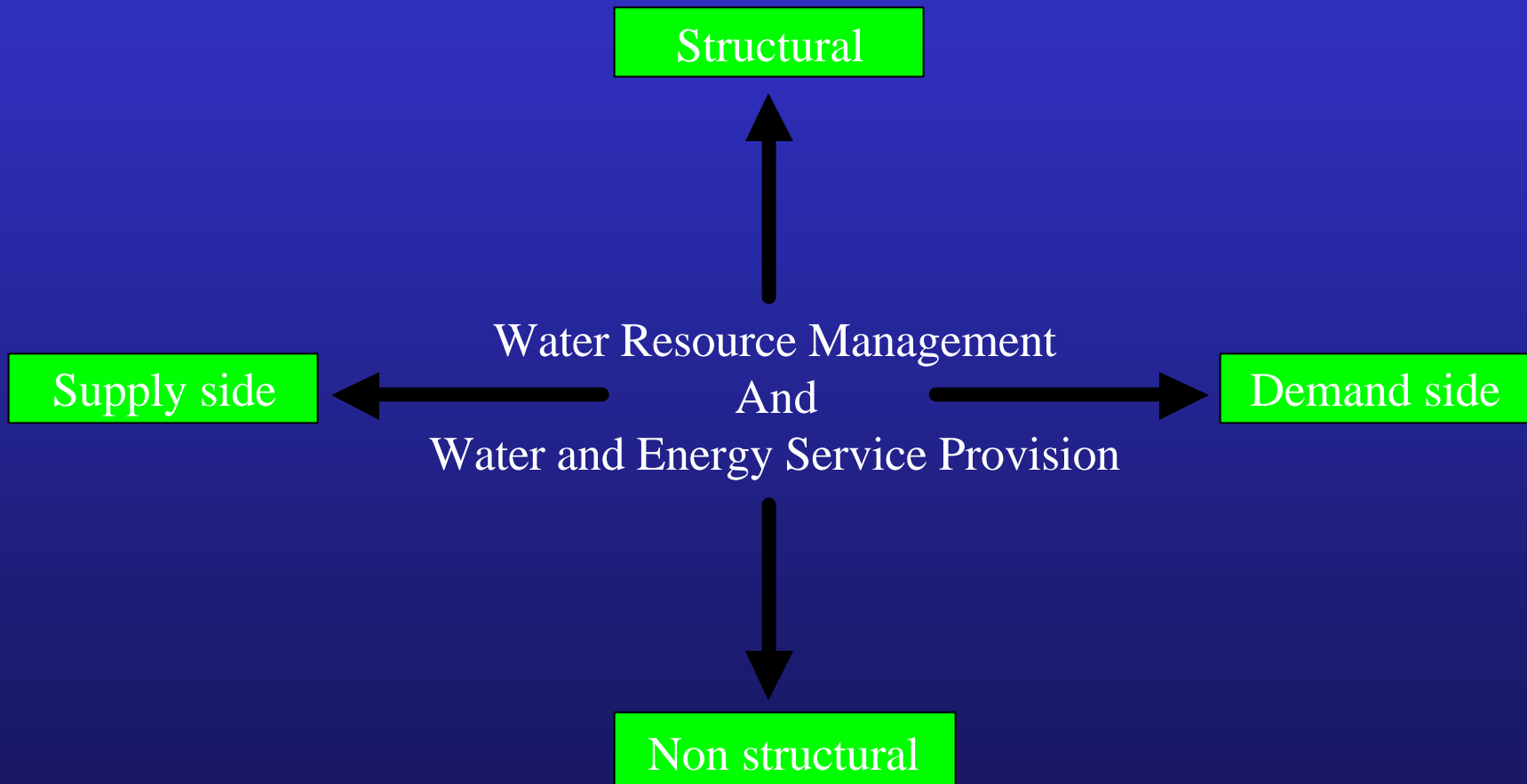
- to put Options Assessment into Practice

## Informed decision-making:

- Supported by an enabling environment for stakeholders involvement and options assessment
- Involving all relevant stakeholders
- Assessing options strategically and comprehensively
- Geared towards reaching a decision

# All Options need to be mobilized

- to meet challenges





# Who this is aimed at

- Primary Audience
  - Bank Task Managers and teams
  - Counterpart staff in borrowing countries
  - Parties involved in Bank Projects
- ◆ Other Stakeholders
  - ✍ development constituencies in water and energy
  - ✍ wider dam community

~~Recipe~~

Menu ✓

# FRAMEWORK FOR POLICY & DECISION MAKING ON DAMS AND PLANT REHABILITATION & UPRATING



*Proposed organization of the decision making – EdF Inception Report, Dec 2008*

# As much attention is given to improving the safety of dams, we should also pay attention to improve productivity of existing assets

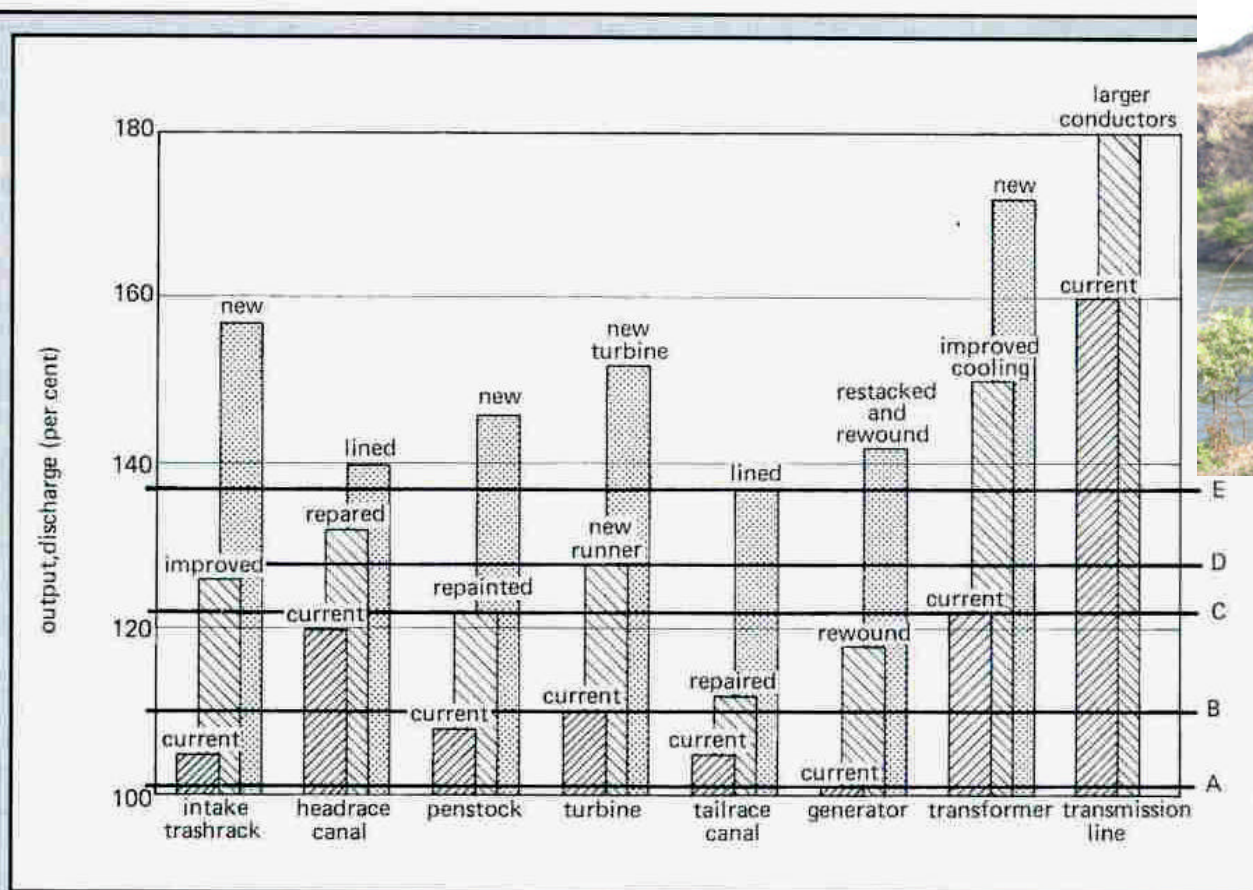


Fig 1: Step diagram for the development of modernisation plans.



Armenia



**Rehabilitation  
work-sites are not  
too different from  
those of new  
construction works**



# The Action Plan at work: Vietnam Reservoir Operation Workshop, October 2002



# **The Action Plan contributes to many complementary objectives of the World Bank ...**

## **The Action Plan IS:**

- **A knowledge management tool to further improve quality of our work with borrowers on projects with dams**

## **The Action Plan is NOT:**

- **An additional set of guidelines, policies, rules**

# How to access the DAMAP database

IRIS4> ESSD Home > ESSD Thematic Groups > Quality Assurance and Compliance >Dams Planning & Management Action Plan (DAMAP)

IRIS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Real.com

Address <http://wbln0036.worldbank.org/85256B520056077D?opendatabase>

Links The World Bank Directory Server Home Page The World Bank Group WB Intranet Home

The World Bank Group Intranet Home | What's New | Help | FAQs | Feedback | A

**IRIS** Document and Record Management

Welcome, Alessandro Palmieri

Search IRIS  GO

Document Search  
Folder Search

+ My Documents

- My Folders

- Dams Planning & Management Action Plan (DAMAP) more....

Dams Planning & Management Action Plan (DAMAP) : All Documents

Add Document

IRIS4 contains an individual folder with some DAMAP studies and reports

Document Name	Document Date	Document Type
<a href="#">Indirect Economic Impacts of Dams</a>	0.1 09/24/2003	Publication
<a href="#">Stakeholder Involvement in Options Assessment</a>	1.0 09/10/2003	Publication
<a href="#">Benchmarking and Good Practice for Dam Licensing</a>	1.0 05/16/2003	Report
<a href="#">Benefit Sharing from Dams</a>	1.0 11/18/2002	Report
<a href="#">Regulatory Frameworks for Dam Safety - A Comparative Study</a>	1.0 10/07/2002	Publication

# Developing a DAMAP Tool Kit

- Primary “clients” of DAMAP are Bank staff and our borrowers. For them we intend:
  - ✍to develop a data base containing the information collected in the DAMAP projects;
  - ✍to implement a tool kit that allows easy and efficient access to key information in the data base.



# *DAMAP – possible data base structure*

