Individual Report on Understanding of the IWRM

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Water is high on the global agenda

- Over the past 20 year more than 2.4 billion people have gained access to water supply and 600 million to sanitation.
- 1.1 billion people still lack access to improved water services
- 2.4 billion people still live without improved sanitation
- 4.0 billion people live without sound wastewater disposal
- 3.5 million children die from waterborne diseases every year

The response

- The Dublin Principles 1992
- Agenda 21
- Johannesburg Summit
- Millennium Development Goals halving the population without access to improved water supply and sanitation by 2015

Continues

The Dublin principles (1992)

- Water is a single, finite resource
- Water management and development should include stakeholders
- Water is an economic good
- Women play a central role in management and conservation of water

The Dublin Principles have served as guide for the global water dialogue

Why IWRM?

- Globally accepted and makes good sense
- Key element in national water policy
- Incorporates social and environmental considerations directly into policy and decision making.
- Directly involves the stakeholders
- Is a tool for optimizing investments under tight financing climate.

IWRM Principles: Rio / Dublin

- The ecological principle
- The institutional principle
- The economic principle
- The social principle

Integrated Water Resources Management

A systematic process for linking water and water related policy, objectives and uses to improve decision making in:

- Operation and managements of natural resources and environmental systems;
- Design and implementation of programs and polities.

A coordinating framework for integrating sectoral needs, water and water-related policy, resource allocation, and management within the context of social, economic, and environmental development objectives

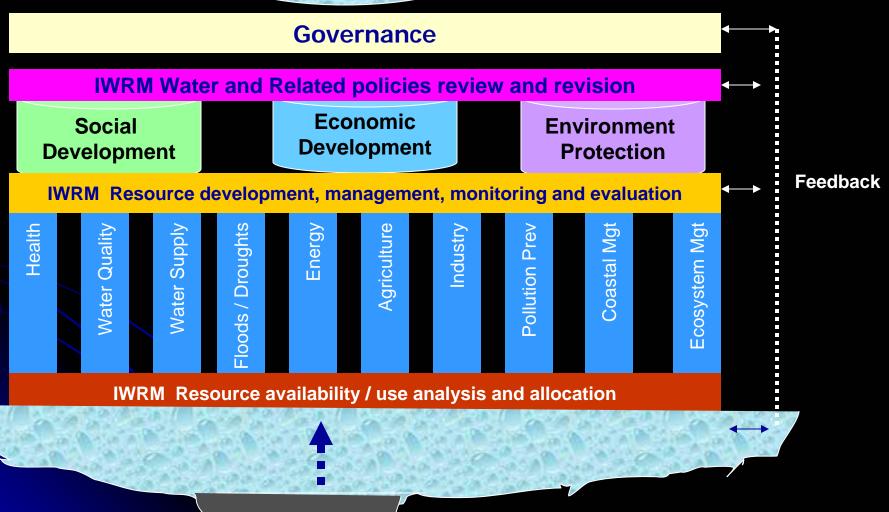
The IWRM Process

The IWRM process allows for effective and efficient management of water resources by considering :

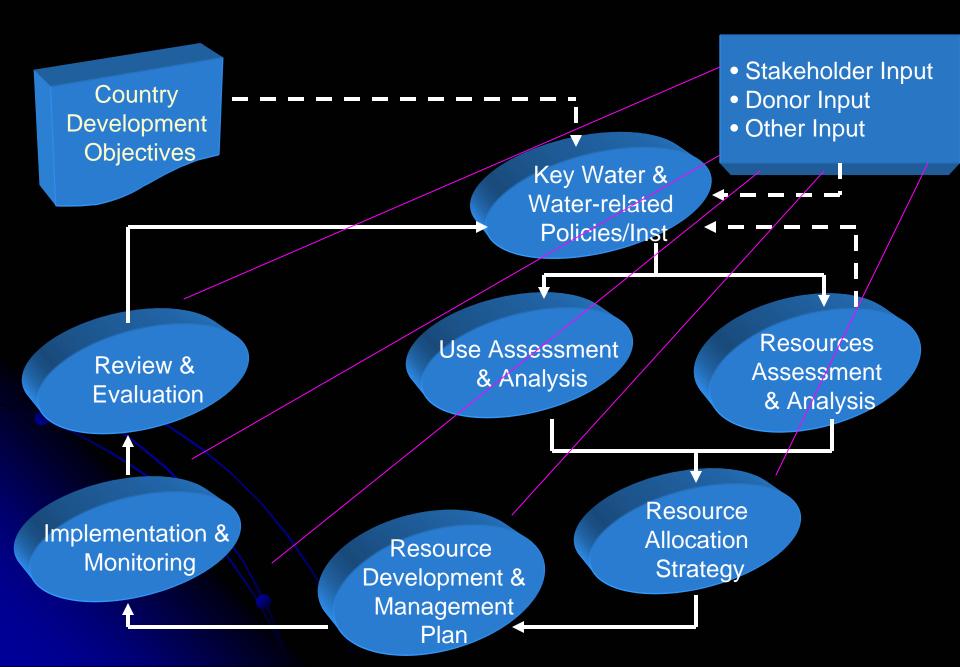
- Sectoral interests including health, agriculture, urban and industry;
- Stakeholder participant in decision making including planning, design, implementation, ownership;
- institutional objectives and coordination;
- ecological issues environmental issues, including water quantity and quality
- gathering and sharing of hydrologic, environmental, economic and social data and information;
- sustainability of the resources base;
- economic and financial issues, including long-term costs, benefits and opportunity costs;
- Social issues
- Legislative and policy frameworks for national and trans-boundary prosperity; and
- Need for building the necessary institutional and human capacity.

Water Resources Development: The IWRM Process





Schematic of the IWRM Process



Key Elements of IWRM

- Sound water policies (based on overall development objectives, stakeholder input, donor input, etc).
- Legal, institutional, and regulatory framework (Governance)
- Stakeholder participation
- The critical role of women
- Perception of water (cultural, religious, political)
- Value of water (economic, social, environmental)
- Equitable allocation of water resources
- Decision making at the lowest level appropriate

- Decentralized responsibility for managements and delivery of water and ecosystems service.
- Sound scientific and technical approach
- Data/information system and knowledge base.
- Analytical tools for assessment of resources (value, use cost, tradeoff, pay-back, allowable risk, water pricing)
- Framework for monitoring and enforcement
- Institutional and human capacity
- Conflict management

Approaches to Water Management

- Ad hoc
- Economic Analysis Single Project or Basin
- Multi-Objective Planning
- Comprehensive Multi-Purpose River basin planning and Management
- Strategic Planning and Implementation through IWRM

Conclution

- A process, not a product
- Scale independent applies at all levels of development
- A tool for self assessment and program evaluation
- A tool for policy, planning and management
- A mechanism for evaluating competing demands, resource allocation, and tradeoffs