

Integrated Water Resources Management (IWRM)

by

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..... What is IWRM

The Overall problem :

- **Resource under pressure**
- **Populations under water stress**
- **The impact of pollution**
- **Water governance crisis**



The Main Challenges :

- **Securing water for people**
- **Securing water for food production**
- **Developing other job creating activities**
- **Protecting vital ecosystems**



- **Dealing with variability of water in time and space**
- **Managing risks**
- **Creating popular awareness and understanding**
- **Forging the political will to act**
- **Ensuring collaboration across sectors and boundaries**



IWRM Principles :

- **Dublin principles as a guide**
- **The four Dublin principles**
 - I. Fresh water is a finite and Vulnerable resource , essential to sustain life , development and the environment.
 - II. Water development and management should be based on a participatory approach, involving users , planners and policy markers at al levels
 - III. Women play a central part in the provision ,management and safeguarding of water.
 - IV. Water has an economic value in all its competing uses and should be recognized as an economic good.



Principle I : Water as a finite and vulnerable resource

- **A holistic approach**
- **Resource yield has natural limits**
- **Effect of human activities**
- **Upstream – Downstream user relations**
- **A holistic institutional approach**



Principle II : Participatory approach

- **Real participation**
- **Participation is more than consultation**
- **Achieving consensus**
- **Creating participatory mechanisms and capacity**



Principle III : The important role of women

- **Involvement of women in decision making**
- **Women as water users**
- **IWRM requires gender awareness**



Principle IV : Water as an economic good

- **Water has a value as an economic good**
- **Value and charges are two different things**
- **Useful water value concept**
- **Useful water cost concepts**



- **The goal of full cost recovery**
- **Managing demand through economic instruments**
- **Financial self-sufficiency versus water as a social good**



Definition of IWRM :

IWRM is a proceed which promotes the co-ordinated development and management of water , land and related resources , in order to maximize the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems.



Overriding Criteria :

- Economic efficiency in water use**
- Equity**
- Environmental and ecological sustainability**



Important element :

- The enabling environmental
- The institutional roles
- The management instruments



