"Un-integrated"  "Fragmented"

"No consideration of downstream needs"  "Disconnected"

"Exclusive"  "Elitist"

"Not considering the full picture"  "Inequitable"

"Inefficient"  "Inequitable"

"Sectoral"

"Unsustainable"  "Short-sighted"
IWRM
The foundations of IWRM

Water, in all its uses, has an economic value

Women play a central role in providing, managing & safeguarding water

A participatory approach, involving stakeholders at all levels

Fresh water is a finite and valuable resource, essential to life, development and environment
1977: UN Conference on Water, Mar del Plata

1992: Dublin preparation for Earth Summit

2000: GWP

2010: Palau!
Economic
Social
Environment
Economic
Social
“IWRM is a process which promotes the co-ordinated development and management of water, land and related resources, in order to maximise the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems” (GWP)
“IWRM is a process which promotes the co-ordinated development and management of water, land and related resources, in order to maximise the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems” (GWP)
Integration?

- government
- catchment
- community

across sectors

across water cycle
Possible Overarching Goals of an IWRM Plan

- Establish Clear, Efficient & Accountable Legal & Institutional Frameworks
- Develop Knowledge, Capacity & Awareness at All Levels
- Manage Risk to Community
- Protect Health of Resource
- Share Water Fairly & Efficiently
<table>
<thead>
<tr>
<th>Priorities identified through consultation</th>
<th>Components of IWRM Planning Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk or Stress from Pollution &amp; Degradation</td>
<td>Status &amp; Trends</td>
</tr>
<tr>
<td></td>
<td>• Water quality</td>
</tr>
<tr>
<td></td>
<td>• Pollution Sources</td>
</tr>
<tr>
<td></td>
<td>• Areas of degradation (and causes)</td>
</tr>
<tr>
<td>Risk or Stress from Over-Exploitation</td>
<td></td>
</tr>
<tr>
<td>Risk of Damage caused by Water</td>
<td></td>
</tr>
</tbody>
</table>

- Priorities: Water quality, Pollution Sources, Areas of degradation (and causes)
- Specific Objectives: Water Quality Objectives, Objectives for Managing Water Ecosystems
- Agreed Actions: Planning, Management, Works, Permit Conditions, Awareness
The IWRM Planning Roadmap

- Guiding principles
- Direction to action
- Commitment to sustainable management
- Aspirational
- Appropriate to own circumstances
The IWRM Planning Roadmap

• Enable effective participation of all stakeholders
• Engage decision makers
The IWRM Planning Roadmap

- Identify problems
- Strengths & weaknesses
- Players
- Priority Issues
The IWRM Planning Roadmap

- A functional enabling environment
- Capacity
- Resources
- Relationships
- Mandates
The IWRM Planning Roadmap

- Ensure the best understanding with the information available
- Effective communication of knowledge
The IWRM Planning Roadmap

- Effective coordinating mechanism
- New or existing
- Appropriate
The IWRM Planning Roadmap

- Assess progress
- Respond to change
- Adaptive management
The IWRM Planning Roadmap