A good M&E system can make the difference between an IWRM strategy or plan that has an impact on the ground and one that remains merely an expression of good intentions.

**M&E terminology**

**GOALS**
- what is to be achieved or solved (broad, qualitative)

**OBJECTIVES**
- means to achieve goals

**ACTIONS**
- specific activities to accomplish objectives

**PROCESS INDICATORS**
- Monitor basic progress of implementing activities

**OUTCOME INDICATORS**
- Monitor the direct result of actions

**IMPACT INDICATORS**
- Monitor progress towards achieving goals & objectives

**METHODS**

**GOALS**
- make goals, objectives and actions specific & measurable

**TARGETS**
- measures to assess progress of targets

**INDICATORS**
- Monitor progress towards achieving goals & objectives
M&E pitfalls

• Not having a system
• Bad fit between targets & indicators
• Unreliable indicators
• Not considering variation in conditions
• Poor feedback mechanisms

Governance

**Govern** to conduct the policy, actions, and affairs of a state, organisation, or people

...from Latin gubernare ‘to steer’

How a society organises itself to make decisions and implement them...

Governance

• Mechanisms to enable participation
  - groups
  - individuals
  - voice
  - representation

• Mechanisms to steer behaviour
  - rights
  - obligations
  - rules
  - incentives

Governance

Operates at multiple levels

• household
• village
• province/island
• country
• region
• globe
Governance - good or bad?

• Expenditure?
• Regulation?
• Stability?

Key Elements

- Accountability
- Transparency
- Participation

Elements of Good Governance

- Efficiency and Effectiveness
- Consensus orientation
- Participation
- Predictability
- Rule of Law
- Accountability
- Legal framework for development
- Transparency and Information
- Responsiveness
- Equity
- Strategic Vision

UNESCO Centre for Water Law, Policy and Science, 2009
Indicators of Good Governance?

Rule of Law
- Political freedom
- Political stability
- Judicial effectiveness
- Media independence

Government Effectiveness
- Bureaucratic efficiency
- Economic management
- Extent of corruption

Regulatory Quality
- Strength of financial institutions
- Extent of competition

Indicators of Good Governance?

simple
- focus on essential aspects

pragmatic
- existing or achievable

coherent
- should inform better management

Yannick Pochon, International Office for Water 2010

“Un-integrated”
“Fragmented”
“No consideration of downstream needs”
“Disconnected”
“Exclusive”
“Not considering the full picture”
“Elitist”
“Inefficient”
“Inequitable”
“Sectoral”
“Short-sighted”
“Unsustainable”
The foundations of IWRM

EQUITY

EFFICIENCY

ENVIRONMENT

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

IWRM in the Pacific

Summary of Outputs from the National IWRM Demonstration Projects

<table>
<thead>
<tr>
<th>Governance and Policy</th>
<th>CI</th>
<th>FSM</th>
<th>FJ</th>
<th>NM</th>
<th>NR</th>
<th>I.</th>
<th>PNG</th>
<th>SA</th>
<th>SI</th>
<th>TO</th>
<th>TV</th>
<th>VA</th>
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<tbody>
<tr>
<td>National governance body for water management</td>
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<td>Catchment/aquifer governance body established</td>
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<tr>
<td>IWRM mainstreamed into water legislation</td>
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<td>Watershed conservation policy</td>
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<td>National water policy endorsed and implemented</td>
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<td>Water protection zones established</td>
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<td>Biodiversity/forest reserve established</td>
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<td>Groundwater protection zones established</td>
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<td>Water allocation regulations implemented</td>
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<td>Payment for ecosystem services</td>
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<tr>
<td>Institutional arrangements aligned to enable WRM</td>
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<td>X</td>
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</tbody>
</table>

SOPAC 2010
IWRM in the Pacific
“How are we doing”

<table>
<thead>
<tr>
<th>IWRM Component</th>
<th>CI</th>
<th>FSM</th>
<th>FJ</th>
<th>KI</th>
<th>Nl</th>
<th>PA</th>
<th>PNG</th>
<th>SA</th>
<th>SI</th>
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<th>VA</th>
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<tbody>
<tr>
<td>Intersectoral water coordination body</td>
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<td>National water resources policy</td>
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<td>Overarching water resources legislation</td>
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<tr>
<td>IWRM Plan/Strategy</td>
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<tr>
<td>Water Use Efficiency Plan</td>
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</tbody>
</table>

Not existing
Draft/interim - not formally adopted, functions outlined, fully intersectoral or proactive
Formally adopted, fully intersectoral and active

SOPAC 2008

Asia Water Governance Index, 2009

<table>
<thead>
<tr>
<th>Legal Dimension</th>
<th>Administrative Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal distinction of different water sources</td>
<td>Existence of independent water pricing body</td>
</tr>
<tr>
<td>Format of surface water rights</td>
<td>Organisational basis</td>
</tr>
<tr>
<td>Legal accountability of water sector officials</td>
<td>Functional capacity and balance</td>
</tr>
<tr>
<td>Centralisation tendency within water law</td>
<td>Accountability and regulatory mechanisms</td>
</tr>
<tr>
<td>Legal scope for private and user participation</td>
<td>Validity of water data for planning</td>
</tr>
<tr>
<td>Integrated treatment of water sources</td>
<td>Science and technology application</td>
</tr>
</tbody>
</table>

Policy Dimension

<table>
<thead>
<tr>
<th>Project selection criteria</th>
<th>Linkages with other policies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance available for water investments</td>
<td>Attention to poverty and water</td>
</tr>
<tr>
<td>Pricing policy (cost recovery)</td>
<td>Private sector participation</td>
</tr>
<tr>
<td>Linkage between water law and water policy</td>
<td>User participation</td>
</tr>
</tbody>
</table>

Eduardo Araral & David Yu, Institute of Water Policy, Lee Kuan Yew School of Public Policy

IWRM Performance Indicators for African RBOs

<table>
<thead>
<tr>
<th>Governance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political</td>
</tr>
<tr>
<td>Financial</td>
</tr>
<tr>
<td>Representation</td>
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<tr>
<td>Legal</td>
</tr>
<tr>
<td>Planning</td>
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<tr>
<td>Functional</td>
</tr>
<tr>
<td>Effective Management</td>
</tr>
<tr>
<td>Information</td>
</tr>
</tbody>
</table>

Yannick Pochon, International Office for Water 2010
IWRM Performance Indicators for African RBOs

How can indicators make an impact to your country?

Drivers

Cabinet

Water Resource Managers

Community

Drivers

Cabinet

Community
Drivers

Cabinet

Community

An Example from Niue

Niue National Strategic Plan

Village Water Management Plans

IWRM Plan

An Example from Australia

NSW Water Management Act

SWMOP

Water Sharing Plans for 36 Rivers and Aquifers

Accountability

GOVERNMENT

MINISTERS

HEADS OF DEPARTMENT

UNIT HEADS

INDIVIDUALS