IWRA’s XVII
WORLD WATER CONGRESS

제 17차 IWRA 세계물총회

29 November – 3 December 2021
EXCO, Daegu, Republic of Korea
Lessons from Water and Sanitation Policy Development in Pacific Island Countries

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Lessons from Pacific Island Countries

Pacific Island Countries (including EEZ's)
Increasing water demands and leakage
Pollution of water sources
Non-sustainable water extraction
Poor water governance, and limited capacity
Property rights disputes between land owners and governments,

Falkland, 2011
Responding to Change and Uncertainty in PICs

• Develop the general capacity of societies to cope with global change by building up its institutional structures and human resources, while

• Maintaining and enhancing the integrity of ecosystems on which they depend

Adapted from Barnett 2005
Lessons Learnt in Policy Development in PICs

- Understand the Context
- Assess Assumptions
- Be Prepared to Listen
- Build on Strengths
- Use Clear and Appropriate Processes
- Invest in Capacity Building & Education
Understand the Context

- Vast
- Very Dispersed
- Extremely Diverse
- Swept by Natural Disasters
- Complex Ocean-Atmosphere Exchanges
- Culture is Central

Google Earth

https://pmm.nasa.gov/TRMM/realtime-3hr-7day-rainfall

XVII World Water Congress, Daegu, 30 Nov. 2021
Understand the Context

Water & Sanitation are about life & death


XVII World Water Congress, Daegu, 30 Nov. 2021
Assess Assumptions

In some island countries, one person is responsible for policies on economic development, natural resources, and the environment.
In some countries, policy-processes are not well defined.
In some countries, local government is superior to national government.
Assess Assumptions

Some countries do not have a legal basis for regulating water
Be Prepared to Listen

- Consultations
  - Taupulega
  - Fatupaepae
  - Aumaga
  - Health workers
  - Teachers

XVII World Water Congress, Daegu, 30 Nov. 2021
Be Prepared to Listen

- Leakage of concrete tanks & cisterns
- Emptying septic tanks
- Maintenance/training
- Building codes – concrete & septic tank construction
- Water safety – bottled water
- Emergency supplies of water
- Septic tanks impacts
- Droughts
- Data on rainfall, roof & tanks, water use
- Desalination
Build on Local Strengths

- Well-developed local institutions
- Resilient social systems
- Sensitivity to environmental change
- High degree of equity
- Kinship-based, transnational networks
- Ability to indigenize modernity

Barnett (2005)

Pacific People have shown remarkable resilience: 1,000 - 12,000 yr
Build on Local Strengths

Strong Local Institutions and Resilient Social Systems
Build on Local Strengths

Government Ministries

Government Agencies & SOEs

Commerce & Industry

Water & Sanitation Coordination Committee

Women’s Groups

Churches

NGOs

W & S Policy & Plan Development
Build on Local Strengths

Nukunonu Atoll, Tokelau, photo Tony Falkland

XVII World Water Congress, Daegu, 30 Nov. 2021
### Clear and Appropriate Processes

Adapted from Ackoff’s 5-phase Adaptive Planning (1999)

<table>
<thead>
<tr>
<th>Policy</th>
<th>Description</th>
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<tbody>
<tr>
<td>I.</td>
<td>Formulation of the Values &amp; Issues – identify the common values and then the challenges &amp; opportunities</td>
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<tr>
<td>II.</td>
<td>Ends Planning – identify policy goals, objectives and management ideals and the gaps between the planned end of the policy process and the current situation</td>
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<table>
<thead>
<tr>
<th>Implement Plan</th>
<th>Description</th>
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<tr>
<td>III.</td>
<td>Means Planning – identify appropriate, realistic mechanisms &amp; activities to close the gaps</td>
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<tr>
<td>IV.</td>
<td>Resource Planning – determine resources required to allow chosen mechanisms to be implemented</td>
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<tr>
<td>V.</td>
<td>Implementation and Control - determine responsibilities and schedules for policy implementation and for monitoring and evaluation of policy outcomes</td>
</tr>
</tbody>
</table>
Clear and Appropriate Processes

- **Understand** water & sanitation
- **Value** water & sanitation
- **Manage** water & sanitation

Provide easily understood Policy Goals

UN & World Bank High Level Panel on Water 2018
Clear and Appropriate Processes

• **Understand water & sanitation**
  • Past & current rainfall?
  • Groundwater yields & quality?
  • Water use and storage?
  • Seasonal forecasts - droughts
  • Impacts of climate change?
  • Appropriate sanitation systems?
  • Ecological & health impacts of sanitation systems?

• **Value water & sanitation**
  • Protect water sources
  • Conserve water
  • Invest in water and sanitation education/training
  • Building codes for water supply & sanitation systems

• **Manage water & sanitation**
  • Identify who is responsible
  • Provide adequate resources
  • Provide training
  • Invest in maintenance
  • Emergency preparedness & risk reduction
  • Review performance

UN & World Bank High Level Panel on Water 2018
Mentoring is a vital
Invest in Capacity Building & Education

These are the Future!!
Invest in Capacity Building & Education

Fakataliga o te Vai Ua

Na Tuaha e By Dr Jan White - Na Fakalilo i Nika Pepe

He ali moto i va Iuga o Folole Fakaofo.

He ali moto i va Iuga o Folole Fakaofo.

Na tuakaukau

Na tuakaukau o te Vai Ua o te fakataliga o te huavai va. Ko te tua nau mai te fakataliga, ko te ha nui te te fakataliga. Ko le lilo le te fakataliga. Ko le fakatu kono te fakataliga o te huavai. Ko le fakatu kono te fakataliga o te huavai.


Lessons Learnt in Policy Development in PICs

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Acknowledgements

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