Integrated Urban Water Management

Water Integrity Forum
Work Stream 4
Delft – 5 June 2013
Francois Brikke
A NEW GLOBAL PARTNERSHIP: ERADICATE POVERTY AND TRANSFORM ECONOMIES THROUGH SUSTAINABLE DEVELOPMENT

ILLUSTRATIVE GOALS AND TARGETS

1. End Poverty
2. Empower Girls and Women and Achieve Gender Equality
3. Provide Quality Education and Lifelong Learning
4. Ensure Healthy Lives
5. Ensure Food Security and Good Nutrition
6. Achieve Universal Access to Water and Sanitation
7. Secure Sustainable Energy
8. Create Jobs, Sustainable Livelihoods, and Equitable Growth
9. Manage Natural Resource Assets Sustainably
10. Ensure Good Governance and Effective Institutions
11. Ensure Stable and Peaceful Societies
12. Create a Global Enabling Environment & Catalyse Long-Term Finance
ENSURE GOOD GOVERNANCE AND EFFECTIVE INSTITUTIONS

a) Provide free and universal legal identity, such as birth registrations

b) Ensure that people enjoy freedom of speech, association, peaceful protest and access to independent media and information

c) Increase public participation in political processes and civic engagement at all levels

d) Guarantee the public’s right to information and access to government data

e) Reduce bribery and corruption and ensure officials can be held accountable
Not So Good News!

Water Security in Urban Areas: under threat

www.gwp.org
Water Security in Urban Areas: under threat

- Rapid population growth
- Increased pressure on water sources
- Poor waste and sanitation management
- Poor operation and maintenance
- Lack of transparency (can add up to 40% to price of water)
- Failure of current management models
A change is needed

More than simply improving the performance and efficiency of a water supply service

A change is needed at a system-wide level and requires a change of mindset

The problem is not so much of a technical nature, but of governance
<table>
<thead>
<tr>
<th>Size Class Of Urban Settlement</th>
<th>Population (Millions)</th>
<th>Percentage Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>World</td>
<td>1352</td>
<td>3632</td>
</tr>
<tr>
<td>&gt;10 million</td>
<td>39</td>
<td>359</td>
</tr>
<tr>
<td>5 – 10 million</td>
<td>109</td>
<td>283</td>
</tr>
<tr>
<td>1 – 5 million</td>
<td>244</td>
<td>775</td>
</tr>
<tr>
<td>500,000-1 million</td>
<td>128</td>
<td>365</td>
</tr>
<tr>
<td>&lt;500,000</td>
<td>833</td>
<td>1850</td>
</tr>
</tbody>
</table>
Need to think differently
Dimensions Of IUWM

RESOURCE

- **Urban Water Cycle is one System** (Also linkages between various urban sectors)

- **Urban Water Cycle closely linked to Watershed** (upstream – downstream)

- **Water Security through diversity** (surface, rain, storm, ground, demand management, waste water reuse, water fit for purpose)
Tailored IUWM Framework Required

- Water Scarcity
- Intermittent & Irregular Supply
- Irregular Energy Supply
- Fast Growing Cities
- Low Pressure
- High Levels of Leakage
- Poor Solid Waste Management
- Lack of Wastewater Collection and Treatment

Source: CSIRO
Dimensions Of IUWM

SERVICE
(Water Supply, Sanitation, Waste Water Management)

- Optimizing efficiency (O&M and reduction of non revenue water, 3Ts for full cost recovery)
- Innovative technologies (serve more people with less, and affordable)
- Decentralized and adaptive systems (serving the poor, environmentally safe)
Dimensions Of IUWM

GOVERNANCE

- **Policies on IUWM and integrity** (norms and stronger regulatory body, circulation of information and facts)

- **Improved Management** (performance based, mutual accountability, or introduction of new models such as Public-Private-Social partnerships)

- **Urban Water Partnership** (Involvement of all the players: in planning, balancing interests, resources, increasing awareness, responsibility and ownership, and monitoring)
Dimensions Of IUWM

GOVERNANCE

Infrastructure development (procurement, design, cost)

Corruption

SERVICE

RESOURCE

www.gwp.org
Dimensions Of IUWM

GOVERNANCE

SERVICE

RESOURCE

Corruption

Collusion, *gifts*, promotions, non transparent recruitment

www.gwp.org
Dimensions Of IUWM

GOVERNANCE

SERVICE

RESOURCE

- Poor quality service
- High prices
Dimensions Of IUWM

GOVERNANCE

SERVICE

RESOURCE

Pollution

- Polluter pays
- Payment for Environmental service
Dimensions Of IUWM

GOVERNANCE

- Poor or No Regulation

SERVICE

RESOURCES
Dimensions Of IUWM

GOVERNANCE

SERVICE

RESOURCE

Decentralization?
THE KARACHI WATER PARTNERSHIP (KWP)

(A participatory partnership platform, based on Government – Citizen collaboration)
Key Issues & Challenges
- Declining Water Quality & Supply
- Absence of Focused Strategy for Wastewater
- Poor Planning in Water Conservation Measurements

KWP Programme
Short & Long Term
- Water Facts / Water Conservation Guidelines
- Institutional Development & Partnership Building
- Solutions for Integrated Water Resources Management

Inputs
- Citizens/
  Stakeholders
  NGOs, CBOs,
  Industry,
  Academia,
  Institutions, Public
  & Experts
- Karachi
  Water
  Partnership
- Government

Citizens of Karachi

International and National Linkages
- GWP
- CAPNET
- PWP
- Pani Pakistan

KWP Approach & Partners

Review & Revise
- Sufficient and safe drinking water for all users and uses
- Cleaner and greener city
- Integrated Water Resource Management Implemented
- Citizen and stakeholder ownership
- Alternate solutions for Industry
- Wastewater treatment, recycling and alternate options
- Information-based decision making
- Efficient and equitable water distribution/allocation

Strategy
- Establishment of Independent KWP
- Govt and citizen collaboration
- Govt working with all stakeholder groups
- Focus on behaviour change
- Focus on building ownership of water resources
- Target advocacy programs for citizens and stakeholders
- Sharing experiences, information and technology
- Providing international and regional linkages
- Promote awareness of water conservation
- Focus on children and teachers as proponents
The Situation

• Lack of awareness on water problems and different aspects of water corruption
• Lack of trust among stakeholders
Major Water Corruption Issues

**Technical**

- Alteration in standards in infrastructure and technology
- Use of sub-standard materials
- Lack of technical capacity in designing systems for equitable distribution

**Social**

- Lack of regulatory pricing framework
- Some people pay, while some communities who do not value water do not pay but **claim the right**
Cultural

• No culture of collective water management of municipal services

Economic

• The poor in Karachi pay 12 times more for drinking water (bought from vendors) than the well to do, much of which is dirty and contaminated
What KWP Did!

- Through platform, establish dialogue and trust at various levels of city, town and areas, discuss together about solutions.

- **Awareness raising** amongst all stakeholder groups towards different approaches to water management.

- **Role clarification** of stakeholder groups, on issues of efficiency, equity and sustainability on water related decisions.
• Developed the mutual accountability process amongst stakeholders and implemented it in one Town in Karachi as a model

• Developed working relationship with local government and service provider agency for improving approach on water as a whole

• Development and dissemination of water facts and of efficient water usage guidelines for schools, homes, offices, masajid and industry
Conclusion

• Integrity issues system wide
• Participation of stakeholders is key, through a better collaboration between Community, Utility and Local Government
• Regulation needed at resource and service levels
Thank You!