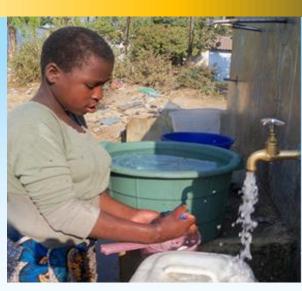


Mwanza Urban Water Supply & Sanitation Authority (MWAUWASA)







Panel Discussion (Focus on Lake Victoria Basin) Water Supply Issues and Challenges Using the Flood & Drought Management Tools

Presented to the International Delegates Attending an Event on Planning for Floods and Droughts (Reflections on Future Opportunities) Held on 02/10/2018 at the United Nations Conference Room 3, Nairobi - Kenya

Presented by a Water Utility Panelist: Mr. Meck Manyama

MWAUWASA COMMERCIAL MANAGER AND WATER SAFETY PLAN (WSP) TEAM LEADER





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Content Presentation

- Introduction
- Panel Discussion Members from Invited Water Utilities
- What do We Think about the FDMT (as a water utility)?
- Climate Change Experience (Severe Drought)
- Climate Change Experience (the Aftermath of Recent Heavy Rains)
- Climate Change (Effects on Piped Water Quality)
- Existing Financial Challenges
- Recommendations









Panel Discussion Members from Invited Water utilities

Dr. Silver Mugisha

Managing Director – National Water and Sewerage Corporation, Uganda

Mr. Meck manyama

 Commercial Manager and WSP Team Leader – Mwanza Water Supply and Sanitation Authority, Tanzania

Mr. George Odero

Water Production Manager and WSP Team Leader –
 Kisumu Water and Sewerage Company, Kenya







Introduction

- Water production capacity is 108,000 m³ per day
- Actual demand is now above
 117,000 m³ per day
- Coverage is 90% of water supply network while sewerage network is 23%
- Collection efficiency is 98%
- ♦ NRW an average of 34%



Capri-Point Water Intake and Pumping Station

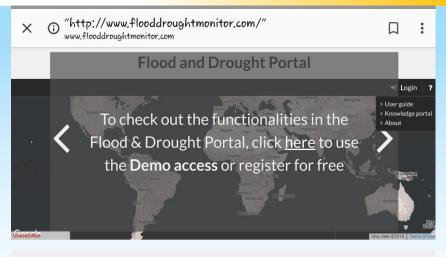




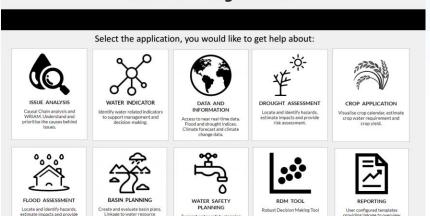




What do We Think about the FDMT (as a Water Utility)?



Flood and Drought Portal



- It is going to be a useful tool to help MWAUWASA in planning and getting prepared for addressing water supply challenges emanating from climate changes that affect the water utility infrastructure
- It is a supportive tool for the water utility in effective operationalization of the Water Safety Plan (WSP)
- It adds value to operations and sustainability of the water utility

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Climate Change Experience: (Severe Drought)



Mwauwasa abstraction point at Capripoint water intake.

- The first experience was in 2006 when there was a severe drought which resulted in declining of the Lake Victoria water level
- A project for extending and deepening of Mwauwasa abstraction point was carried out
- Fear and tension on assurance and reliability of water supply business







Climate Change Experience: (the Aftermath of Recent Heavy Rains)



- One of the climate change effects:
 - Heavy rain results which occurred in the 2nd Quarter Apr -Jun 2018
- It had a critical and serious impact for water shortage in the City (pipe bursts - two 600mm raising and gravity mains)
- The breakdown took about 10 days
- Utility revenue dropped
- Pressure on political inquiries
- High cost of materials and equipment

 pipes and fittings, crusher dust
 materials, heavy machinery
 equipment, etc.









Climate Change: (Effects on Piped Water Quality)

- It wasn't easily considered that flood whose aftermath is mostly destructive and prone to polluting water quality can be a major cause to public mistrust and complaints over the water utility
- Due to unpredictable climate change, there is need for the water utility's preparedness to consider, emphasize and apply FDMT in its operations.









Existing Financial Challenges

- WSP implementation both as per its
 requirements and in the context of climate
 changes still face financial challenges to make it
 fully effective (For example, in terms of legal framework no
 material procurement is allowed for overstocking; budget constraints you
 cannot budget for "uncertainties")
- Unexpected high cost of materials and equipment due to adhoc and unpreparedness approach to react on the negative impact of climate changes





Recommendations

- The FDMT is a very useful tool especially for the water utilities around the three basins (Lake Victoria East Africa, Volta West Africa and Chao Phraya Bankok, Thailand) where and for which the FDMT project development was intended and tested accordingly
- IWA should therefore consider and arrange for conducting training to more users i.e. water utilities in Tanzania in terms of capacity building to key technical staff of the user-utilities





Thank you

