

## Report on Leader City training workshop, Maputo, Mozambique. 26-28 April 2017.

This report summarises the Leader City workshop for the AltWater project. The project workshop was held in Maputo, Mozambique on 26-28 2017. Dr. Janez Sušnik, and Associate Professor Saroj Sharma from IHE Delft attended.

The workshop was organised by Aquas da Regiao de Maputo, one of the main AltWater project partners. In particular we thank Carlos Cossa for his help in arranging the workshop, attendance of local stakeholders and logistics. The location for the workshop was the AF ECC Gloria hotel in Maputo. The workshop was well attended, with a total of 29 participants from the following organisations:

- AdeM
- FIPAG
- DNAAS
- CMM-DMI/DAS
- Eduardo Mondlane University
- TU Delft
- CRA
- DNGRH (Ministry of Public Works, Housing and Water Resources)
- Ara-SUL

A copy of the workshop programme is shown in Appendix 1. The programme started with a welcome and opening by Estaline Machohe of AdeM. Dr. Sharma presented material on urban water supply and demand management. Dr. Sušnik presented on baseline urban water supply and demand assessment, future urban water supply and demand assessment, alternative water systems and their quantification and on institutional analysis. The presentations from IHE staff are available on the Outputs section of the website.

Throughout the programme, there was a good spirit of interaction from all participants, and IHE staff also learned a great deal about the local context and challenges. Colleagues from Beira were also in attendance to learn about the project, and to discuss plans for their participation, which begins later in 2017.

Photos from the workshop can be viewed in the Photo Gallery section of the website.

## Appendix 1: Copy of the workshop programme

### DUPC2 'AltWater' Training Course for Leader Cities

Maputo, Mozambique 26-28 April 2017.

#### Workshop timetable

Wednesday 26 April	
8h30 -9h00	Registration
09h00-09h30	Welcome and introduction
0930-1030	Maputo team: Introduction and background Speaker -Arone Tivane
1030-1045	Break
1045-1215	Urban water supply and demand: an introduction
1215-1315	Lunch
1315-1415	Analysis of present-day urban water supply sources
1415-1500	Analysis of present-day urban water demand
1500-1515	Break
1515-1630	Analysis of plausible future urban water supply
Thursday 27 April	
0830-1000	Urban water demand management: an introduction
1000-1030	Break
1030-1145	Analysis of plausible future urban water demand
1145-1245	Lunch
1245-1330	Technical aspects for treated residual water reuse for Maputo Speakers - Noor Gulamussene and Celma Niquise
1330-1415	Potential alternative water supply systems
1415-1445	Assessment of the potential contribution of alternative water supply systems
1445-1500	Break



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1500-1630	Assessment of the potential contribution of alternative water supply systems
Friday 28 April	
0930-1030	Institutional analysis: challenges and opportunities for implementing alternative supply solutions
1030-1100	Closing and wrap-up
1130	Lunch

### Workshop outline contents

#### Wednesday 26 April

The day begins with an introduction to urban water supply and demand. This session is designed as a short 'refresher' course in order to introduce fundamental concepts.

#### Analysis of present day urban water supply

The main topics covered in this session are:

- 1) discussion on analysis of water sources (location and transport requirements, quality and treatment requirements) and;
- 2) discussion on analysis of water supply volumes.

#### Analysis of present day urban water demand

In this session, the main topics discussed will include:

- 1) discussion on analysis of water users (who are they, what is their relative importance) and;
- 2) discussion on water demand volumes.

#### Analysis of plausible future urban water supply

This session will focus on:

- analysis of potential supply changes due to major infrastructure changes and;
- analysis of potential supply changes due to climate change altering available resources.

Data sources will be discussed and presented.



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Thursday 27 April

The day begins with an introduction to urban water demand management. This session is designed as a short 'refresher' course in order to introduce fundamental concepts.

#### Analysis of plausible future urban water demand scenarios

This session will focus on:

-projections of main expected changes in urban water demand due to population change and socio-economic changes in the region.

Data sources will be considered.

#### Identification of important/feasible/likely alternative water supply systems: main points to consider

A suite of alternative systems will be introduced to serve as a starting point for partners to consider. Answers will not be given, but the options and possibilities will be laid out. Partners need to decide themselves which alternative systems are best suited to their circumstances. Items to consider during this assessment include:

- volume potential
- public acceptance
- cost
- likelihood of uptake
- financial support
- time for rollout

#### Technical aspects for treated residual water reuse for Maputo

This is to show how possible is to implement reuse treated residual water in industry and agriculture, as well on irrigation for garden and footpath cleaning.

#### Assessment of the potential contribution of identified alternative supply systems

This session will explore in more detail the methods and assumptions to estimate the *potential* contribution of each system identified in the preceding section. The assumptions made will be stressed. Multi-criteria analysis will be introduced.



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Friday

**Institutional analysis: challenges and opportunities for implementing alternative supply solutions**

In this session the key aspects of governance frameworks will be looked into to create an initial institutional analysis, actors will be considered, along with a mapping of interactions and influence, the institutions themselves will be analysed in terms of capacity and adequacy, values surrounding water will be discussed and, using information from the workshop an initial table will be completed with partners to create a first institutional mapping and analysis.



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