



Presented by Dr Ismail Al Baz Barcelona, Spain on the 15th of December, 2014









Objective:

- Capacity of sustainable integrated management of non-conventional water resources of partner organizations based on IWRM is improved.
- Good practices of sustainable integrated wastewater treatment technologies in the partner countries are demonstrated.

Target Group:

- Policy-makers from the water, environmental, agricultural sector and
- Water users in rural and periurban areas

Funding:	
EU and BMZ	

Duration: 2012-2015

Implementation Consortium:

- GIZ (4 countries)
- Water and wastewater authorities/utilities (4 countries)
- 3 environmental consulting organisations
- 1 academic institution





In a nutshell...cont'd



MOROCCO

Partner: Water Basin Agency of Souss-Massa et Draa (ABH-SMD) Location: Ait Idir Village (South Atlas Mountains) Focus: Eco-sanitation and rainwater management



TUNISIA

<u>Partner:</u> National Sanitation Office (ONAS) <u>Location</u>: Oueljet El Khodher in the Medenine Governorate (SE) <u>Focus</u>: Participatory wastewater quality monitoring and control

EGYPT



<u>Partner</u>: Holding Company for Water and Wastewater (HCWW) <u>Location</u>: Al Gezayra Village in the Ismailia Governorate <u>Focus</u>: Decentralized Wastewater Treatment and Reuse (rural level)

JORDAN

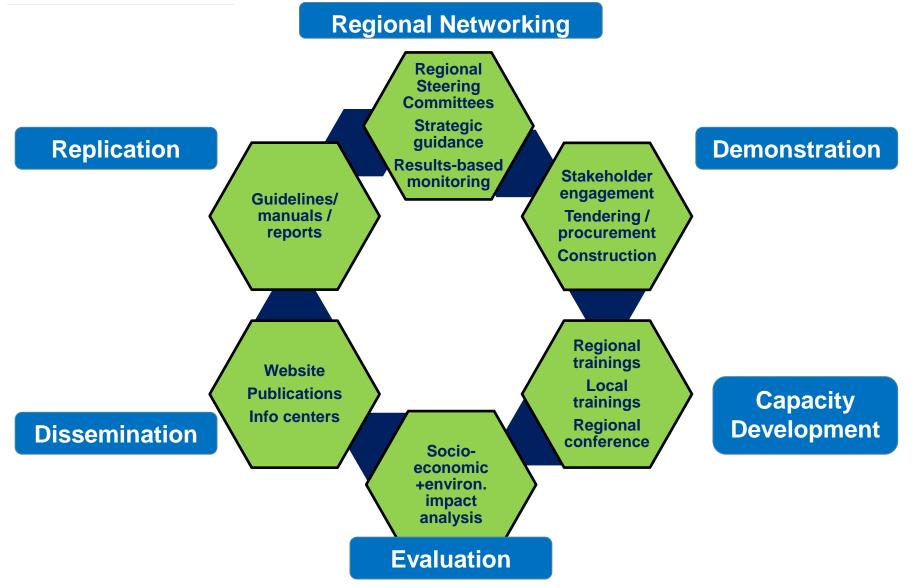


<u>Partners</u>: Al Balqa Applied University (BAU), IUCN <u>Location</u>: Public Security Directorate near Amman <u>Focus</u>: Decentralized Wastewater Treatment and Reuse (peri-urban level)



SWIM-Sustain Water MED Key Output Processes









Achievements

Demonstration

- 4 x Baseline assessment studies (taking into account Socioeconomic/Environmental aspects) are conducted.
- In Jordan, decentralized wastewater treatment plant (SBR Technology) as well as a demo-garden for safe reuse practices are constructed, operation started on 22 June 2014.
- In Tunisia, the tertiary treatment system (sand filter) as well as water quality monitoring system in Oueljet El Khodher WWTP have been established.
- Construction of demonstration plants in Egypt and Morocco is in progress.







Achievements

Capacity Development

- 5 x regional workshops, 100 participants, 2012 2014 conducted.
- Several local workshops and training courses conducted mainly targeted at the smooth functioning of the plants.
- 2 x regional exchange workshops Tunisia-Jordan, Egypt-Jordan, 50 participants, 2013 – 2014 conducted
- 1 x E-learning course 'urban sanitation' conducted in 2014





Achievements

Evaluation

- A common framework for Impact Assessments has been established and applied by counter parts
- EIA in Jordan and Egypt conducted
- Evaluation and socioeconomic/environmental impact missions in 4 x PC conducted.



Dissemination

- The project website was launched and is operating (<u>http://swim-sustain-</u> water.eu).
- Regional factsheet/flayers (Ar/Eng/Fr) disseminated
- Regional conference with 150 participants successfully organized, 1-2 Dec 2014 in Sharm El Sheikh, Egypt
- Project was presented at international and regional conferences.



Achievements

Regional Networking

- 3 x Regional trainings have been conducted.
- 6 x Regional coordination meetings organized.

• 2 x regional exchange workshops held (Jordanian-Tunisian workshop in 2013 on the 'Safe Reuse of Treated Wastewater in Agriculture, Jordanian-Egyptian workshop on 'Decentralized Wastewater Management' in 2014)

• Regional Conference, 150 participants, Sharm El Sheikh, Egypt, 1-2 Dec 2014



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Replication

- All 4 pilot projects have active Steering Committees that ensure alignment to national strategies (i.e. regular meetings, approval of implementation steps).
- Sand filter (Tunisia), Ait Idir (Morocco) Pilot Plants to be implemented in other areas.
- Close cooperation with long-term projects at policy-level (Morocco -> GIZ AGIRE; Tunisia -> GIZ CCC; Egypt -> GIZ WP; Jordan -> UFZ NICE).
- Compendium, reuse best practice guide (Jordan), rain water management catalogue (Morocco), WQM manual (Tunisia) to be disseminated and applied in the PC



Lessons Learned for future projects

- Need for more budget flexibility to ensure an integrative approach to rural sanitation problems, i.e. Egypt: not only the treatment process but also the sewer system.
- Need for simplified EU tender procedures, budget management and sufficient implementation time (minimum 48 months)
- Website including tools (chat meetings) is an efficient communication modalities for regional projects with different partners
- Language between the Francophone/Anglophone countries is challenge
- Consider from the beginning a link to longer-term projects to ensure sustainability of pilot projects



Lessons Learned at national policy-making level

- Need for more long-term policy support to create enabling environment for decentralized sanitation systems, there is need for:
 - More political commitment towards integrated rural development
 - simplified EIA procedures
 - relaxed reuse standards
 - centralized management of decentralized wastewater treatment and reuse systems
 - an employment / skills training of private sector for the design, construction and O&M of decentralized sanitation systems
 - a manual for O&M of decentralized sanitation systems





Thank you for your attention

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