

SWIM - Sustain Water MED

FACT SHEET



Photo: GIZ

Sustainable Water Integrated Management Programme

Network of demonstration activities for sustainable integrated wastewater treatment and reuse in the Mediterranean

Overall objective

The overall objective of SWIM- Sustain Water MED is to contribute to the security of water resources supply in the Mediterranean region.

Specific objective

The specific objectives are to enhance and institutionalize the sustainable integrated management of non-conventional water resources in partner countries.

Expected results:

- Increased awareness and application of low-cost and effective wastewater treatment technologies for reuse purposes.
- Enhanced water quality monitoring practices.
- Support for the elaboration of policies on the adequate treatment and reuse of wastewater.
- Strengthened planning and management skills with regard to wastewater treatment and reuse at local and national level.
- Enhanced regional cooperation and information exchanges.

Target Groups

National and local authorities related to water and wastewater, agriculture, environment, municipalities and local government as well as water user associations, farmer groups and community based organizations.

Desired Impacts:

- Safe use of products irrigated with treated wastewater, in terms of health and environmental conservation.
- Affordable and safe usage of treated wastewater for irrigation practices and environmental conservation.
- Better access to/wider coverage of affordable and adapted wastewater treatment, especially in remote areas.
- Cost reductions through decreased consumption of freshwater, energy and wastewater services.
- Reduced pressure on freshwater resources.



Photo: IUCN

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BMZ



Federal Ministry
for Economic Cooperation
and Development

Approach

At the national level:

Carrying out pilot activities on adequate wastewater treatment and reuse in 4 target countries (Egypt, Jordan, Morocco, Tunisia). The pilot activities will demonstrate innovative approaches related to different stages of sustainable integrated wastewater treatment and reuse. A special focus will lie on the treatment of municipal wastewater for irrigation purposes.

These pilots focus on:

Morocco - Tackling wastewater at its source through source separation, decentralized treatment and effective reuse for energy and agricultural production, as well as improving rainwater harvesting. Jointly with State Secretary for Water and Environment.

Jordan - Treating wastewater with conventional centralized and alternative decentralized technologies for reuse in agriculture and restoration of the environment. Jointly with Ministry of Water and Irrigation.

Tunisia - Controlling treated wastewater quality at storage and transfer to final user, including water quality based contracts between farmers and (waste) water providers. Jointly with Ministry of Environment and Agriculture.

Egypt - Providing secondary treatment and applying treated water for irrigation in agriculture. Jointly with Ministry of Water Resources and Irrigation

At the regional level:

Regional knowledge exchange and capacity building:

In order to ensure a common approach that allows for mutual learning and comparison of results, a common framework will be established. This common framework approach will include the following tasks:

- Development of common methodological frameworks for baseline assessment for pilot activities.
- Development of methodologies for assessing social, economic and environmental effects of wastewater treatment and reuse.
- Elaboration of a compendium that provides information, case studies, lessons learned and best practices for different types of wastewater treatment and reuse.
- Establishment of a regional steering committee, implementation of 4 regional knowledge exchange workshops including site visits to pilot activities.
- Regional and local training courses for decision makers from the pilot activities.



Photo: IUCN

Implementing Organisation

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

Consortium Partners

Adelphi Research gGmbH – Germany,

ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile) – Italy,

IUCN International Union for Conservation of Nature – Belgium,

BAU Al-Balqa' Applied University - Jordan,

HCWW Holding Co. for Water and Wastewater - Egypt

NRC National Research Centre - Egypt,

ONAS Office National de l'Assainissement - Tunisia,

ABH-SMD Agence du Bassin Hydraulique du Souss-Massa et Drâa - Morocco

Key stakeholder groups

Water policy makers, the producers of the treated water, local water providers, water users, research and development projects.

Final beneficiaries

Since lessons learned will be scaled up through appropriate mechanisms, all people living in the mediterranean region will benefit from the activities achieved by the programme.

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