



IMPROWARE INNOVATIVE MEANS TO PROTECT WATER RESOURCES
IN THE MEDITERRANEAN COASTAL AREAS
THROUGH RE-INJECTION OF TREATED WATER
PROJECT
improware.eu SWIM - Sustainable Water Integrated Management



Project funded by
the European Union

Water is too precious to waste

IMPROWARE demonstrates and promotes environmentally sustainable water management policies and practices in Egypt and Tunisia, challenging the deterioration of aquifers caused by saltwater intrusion due to over-exploitation and climate change.

To enhance the recharge of coastal aquifers by injecting treated wastewater of appropriate quality levels achieved via treatment plants, including constructed wetlands

To contrast the overexploitation of potable groundwater and increase water availability for local communities, addressing the saltwater intrusion

To disseminate the practices and lessons learnt during the project in the Egypt and Tunisia, using extensively a full participatory approach aiming to a wide stakeholders engagement

OBJECTIVES

identifying the existing and forthcoming threats to water resources

adopting a more appropriate water consumption and water use model

designing & implementing sustainable water management at national level

identifying best practices and solutions to tackle the water scarcity problem

IMPROWARE is one

of the **SWIM** five demonstration projects for the 2012-2014 period

The demonstration activities are expected:

- To develop cost-effective, environmental-friendly, easily-replicable methodologies to treat waste water and reuse for aquifers' recharge as p models in **Egypt** and **Tunisia**;
- To promote the transfer of Know-how to other ENPI countries;
- To build-up institutional and technical capacities at sub-regional and regional levels;
- To increase regional co-operation in the area of sustainable and integrated water management.

IMPROWARE ultimately contributes to the **empowerment of decision-makers** and **society** at large in the Mediterranean in:

- tackling increasing demand for water resources;
- adapting to climate changes;
- acting against desertification.

Further Information on IMPROWARE

IMELS – DG Sustainable Development, Climate and Energy

via Cristoforo Colombo 44, 00147 Roma
T: +39 06/57228183 - info@improware.eu

www.improware.eu

IMELS - Italian Ministry of the Environment, Land, and Sea (Italy)

Lead Partner and responsible for WP1 – Project co-ordination and management, dissemination, capacity building and support to regional co-operation.

EEAA - Egyptian Environmental Affairs Agency (Egypt)

Project partner responsible for the realization, management, monitoring of the Egyptian demonstration site, and dissemination of results.

ONAS - Office National de l'Assainissement (Tunisia)

Project partner responsible for the realization, management, monitoring of the Tunisian demonstration site, and dissemination of results.

CUEIM - Consorzio Universitario di Economia Industriale e Manageriale (Italy)

Project Partner responsible for WP4 – Artificial wetland as secondary/tertiary treatment stage of waste-waters

CURSA - Consorzio Universitario per la Ricerca Socioeconomica e per l'Ambiente (Italy)

Project partner responsible for WP2 – Technical survey; primary/secondary treatment stages and aquifer recharge by treated waters

AAH - University of Aarhus (Denmark)

Project partner responsible for WP3 – Hydro-geological characterization of aquifers using geophysical methods



IMPROWARE – Protecting water resources in the Mediterranean coastal areas through re-injection of treated water

IMPROWARE is part of the Sustainable Water Integrated Management Programme (SWIM), a Regional Technical Assistance Programme launched by the European Commission to contribute to the extensive dissemination and effective implementation of sustainable water management policies and practices in the Southern Mediterranean Region.



This project is funded by the European Union
SWIM – Sustainable Water Integration Management -



Innovative means to protect water resources in the Mediterranean coastal areas through re-injection of treated water



This project is funded by the European Union

www.improware.eu