

## Partnership

### ITALY

Province of Latina (Lazio) - Lead Partner

IRIDRA (Tuscany)

SVI.MED.  
Euro-Mediterranean Center for Sustainable Development (Sicily)

### JORDAN

University of Jordan (Amman)

### LEBANON

American University of Beirut

### MALTA

Energy and Water Agency

### TUNISIA

Centre for Water Research and Technologies

## Associated partners

Municipality of Tunis - Tunisia  
Municipality of Jerash - Jordan  
Municipality of Ferla - Italy  
Politecnico di Torino - Italy



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### Contact

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[www.enicbcmed.eu/projects/nawamed](http://www.enicbcmed.eu/projects/nawamed)



NAWAMED



# NAWAMED

## Nature Based Solutions for Domestic Water Reuse in Mediterranean Countries

### Project description

In Mediterranean countries, domestic water use accounts for a minor part of water consumption – a much larger amount is used for irrigation – but it requires the best quality and its demand is continuously growing, along with improving lifestyle and increasing urban population. Moreover, urban water is still the main cause of pollution of rivers and groundwater, even when treated before being discharged. Per capita domestic water use can be drastically reduced by using non-conventional water (NCW) resources for not potable purposes: greywater (and rainwater where available) can be reused for WC flushing and irrigation but requires the implementation of decentralised treatment systems, serving one or a few buildings. NAWAMED aims at changing the urban water management and fostering the use of Non-Conventional Water Resources (NCW) thanks to innovative, sustainable and low-cost treatment technologies, to decrease the use of potable water.



### Objective

To increase the adoption of innovative, sustainable and low-cost technologies and measures for the use of non-conventional water resources for domestic purposes.

### What will be improved

The project will demonstrate the technical and economic feasibility of nature-based and low-cost solutions, such as living green walls, to treat non-conventional water resources in schools, universities, public facilities and in a refugee camp. Recovered greywater or stormwater will be reused for different purposes, including toilet flushing and irrigation and therefore consumption of potable water for domestic uses will be decreased. Furthermore, the project will showcase that design and architecture can make a building water producer rather than water consumer.

### Who will benefit

- Owners/managers of the 8 pilot sites
- 450 practitioners (e.g. engineers, architects, etc.), construction companies, university students
- 50 staff of local and regional authorities



**BUDGET**

€ 3.2 million total budget  
90% ENI CBC MED contribution

36 months:  
10/09/2019 – 09/09/2022

**DURATION**



### Expected achievements

- 8 real scale pilot installations for greywater/rainwater treatment and reuse including living green walls (vegetated vertical elements mounted on building facades) and constructed wetlands treating flows from a public building, a parking area and a refugee camp
- 30% reduction in water consumption at pilot sites level
- 9.000 m<sup>3</sup>/year of unconventional water to be used at urban/domestic level
- 15 technical visits to pilot sites
- 10 training workshops organized for technical staff and decision-makers
- 1 Mediterranean Policy Document to foster the inclusion of water demand management and non-conventional water resources measures in national policy frameworks