









December 16th 2020



Barbara Sarnari vice-president SVI.MED.









SVI.MED. Presentation





Since 2003, SVI.MED. has created national and international networks, by implementing space. good practices, producing decisional support tools, transferring know-how and elaborating and sharing strategies and models toward a sustainable development.

SVI.MED.- EuroMediterranean Center for the Sustainable Development- is a no profit Organization providing for the respect and the safeguard of cultural and environmental heritage.

SVI.MED. aims at supporting the processes of sustainable development of the territory, through the active collaboration with the quadruple helix within the European Mediterranean









NAWAMED Identity card



Nature Based Solutions for Domestic Water Reuse in Mediterranean Countries

ITALY

- Latina Province, Lead Partner, Lazio
- Iridra , Tuscany
- Euro-Mediterranean Centre for the Sustainable Development (SVIMED), Sicily

MALTA

• Energy Water Agency (EWA)

TUNISIA

• CERTE - Centre for Water Research and Technologies

JORDAN

• University of Jordan, Amman

LEBANON

• Amercican University of Beirut

ASSOCIATED Partners:

Municipality of Tunis (TUNISIA)
Municipality of Ferla (ITALY)
Municipality of Jerash (JORDAN)
Polythecnic of Turin (ITALY)









THE ENI CBC MED PROGRAMME



The NAWAMED project has been funded under the **2014-2020 ENI CBC Mediterranean Sea Basin Programme.**

ENI CBC Med is the largest **Cross-Border Cooperation initiative** implemented by the EU under the **European Neighbourhood Instrument**.

The Programme brings together the coastal territories of **14 EU and partner** countries in view of fostering fair, equitable and sustainable development on both sides of the EU's external borders.

The strategic framework of the Programme is based on 4 Thematic

Objectives and 11 Priorities as a contribution to the main socio-economic and environmental challenges of the Mediterranean region.















































A.3 - Promotion of social inclusion and the fight against poverty



B.4 - Environmental protection, climate change adaptation and mitigation







NAWAMED general objective





NAWAMED aims at changing the urban water management practice by mean of innovative, sustainable, and low-cost treatment technologies nature-based solutions applicable in a **decentralized** way, to replace the use of potable water with good quality of NCW.





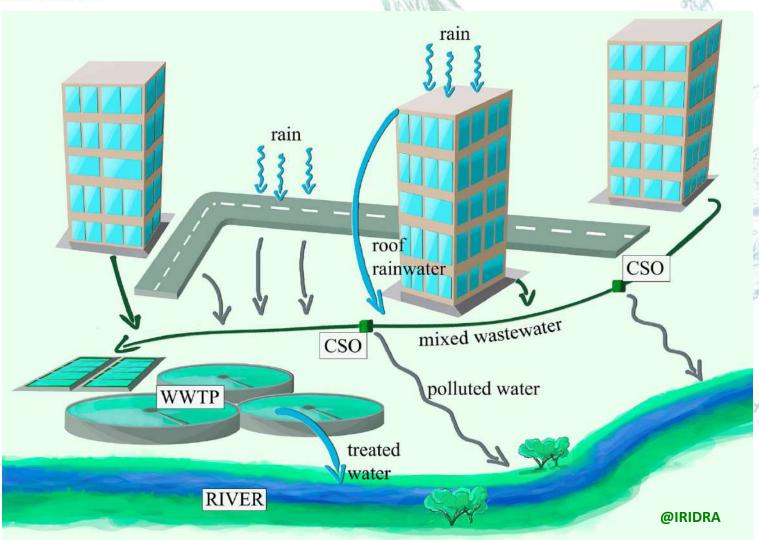


Standard water management



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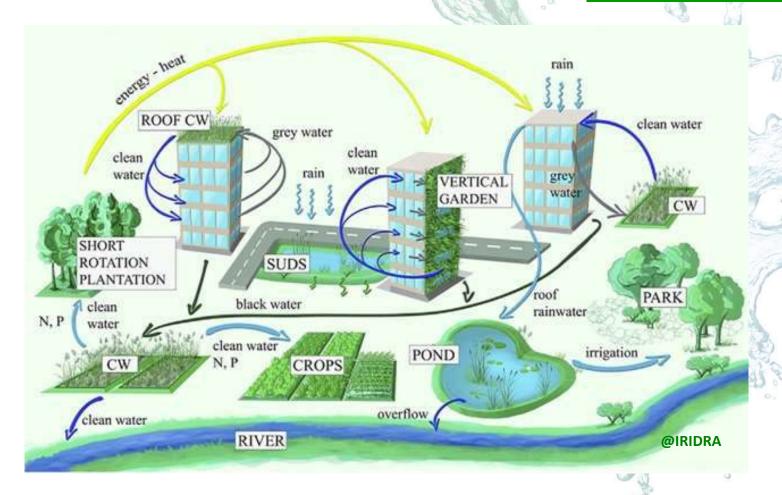




Building urban resilience with

nature-based solutions

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Estimate reduction on potable water consumption: 30% at pilot sites level



Aiming to use 9,000 m3/year of non-conventional water at urban/domestic level







NAWAMED specific objective

NAWAMED

The project will demonstrate the **technical and economic feasibility of nature-based and low-cost solutions**,

such as living green walls or rooftop wetlands, **to treat and use non-conventional water resources** in schools, universities, public facilities and in a refugee camp.



Recovered
wastewater or storm
water will be reused
for different
purposes, including
toilet flushing and
irrigation and
therefore
consumption of
potable water for
domestic uses will
be decreased.











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

Main steps and expected achievements

- ✓ 8 real scale pilot installation for greywater/rainwater treatment and reuse including living green walls (vertical vegetation set up on building façades), rooftop wetlands
- ✓ 15 **technical visits** to pilot sites
- ✓ 5 training workshops organised for technical staff
- 5 Decision Makers workshops
- 'Water tables' involving key water stakeholders in participatory processes aimed at boosting new policies for more sustainable water management

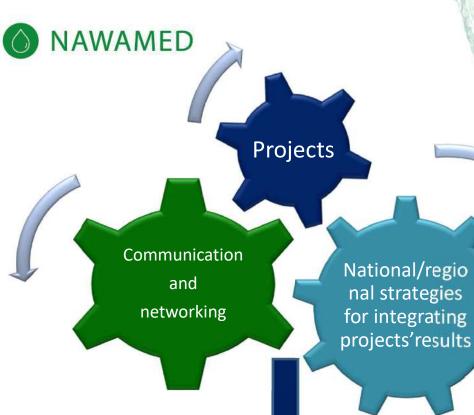






Capitalization and Mainstreming

intergrated process



6 Local and Regional
Strategic Documents

1 Mediterranean Policy Document

to foster the inclusion of water demand management and non-conventional water resources measures in regional and national policy frameworks







CAPITALIZATION

ENPI CBC MED: SWMED





























SWMED - Sustainable domestic water use in Mediterranean Regions

Tavolo dell'Acqua e Workshop Giovedì 10 Aprile 2014

L'uso sostenibile delle risorse idriche nell'edilizia residenziale urbana, rurale e stagional casi studio e proposte regolamentari Multicriteria
analysis
Cases studies
workshops
Mainstreaming
process



Studio di fattibilità CASI STUDIO A RAGUSA 00







CAPITALIZATION

INTERREG MED: CONSUMELESS











FROM THEORY TO PRACTICE



Green Wall installed in a beach resort in Marina di Ragusa (Sicily) during an Interreg Med project on tourism management - CONSUMELESS (SVI.MED. Partner) – designed by IRIDRA









Addressing Thematic Objective B.4, Priorirty B.4.1 of the ENI CBC MED 2014-2020 programme





- Pilot and testing actions
- Involvement of relevant stakeholders/key actors
- Networking





Environmental protection

Management







Demonstration of an innovative technological solution















AQUACYCLE

Project Goals

General Objective

Provide R&D support for sustainable non conventional water resources (NCWR) management through low-cost eco-innovative technology and participatory governance

Specific Objectives

- To improve water governance and economic, social and environmental sustainability through the active involvement of the local communities in the development of waste water treatment and reuse action plans
- > To test and validate the efficiency and cost-effectiveness of a new eco-innovative water treatment system through the installation of demonstration units in Tunisia, Lebanon and Spain
- > To prepare the ground for investment in the new technology, increase employment opportunities and stimulate the long-term endogenous economic growth through a series of measures that include Networking and exploring synergies, capacity building (training), and establishing a MedAPOC Alliance











LET'S JOIN OUR FORCES TO BOOST THE USE OF NON-CONVENTIONAL WATER



INVEST IN NATURE-BASED SOLUTIONS



































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Demonstration green walls to treat and reuse grey water: from theory to practice