

Session 1 – Policy framework for REC and NBS Multifunctional role of NbS for More Resilient and Sustainable Cities URWAN project

Giorgio Scavino
ANCI Lazio



Interreg
Euro-MED



Co-funded by
the European Union

URWAN



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union

Why Nature-based Solutions in the Mediterranean?

**Mediterranean
Climate
Challenges**



Nature-based-Solutions must be water wise and resilient



EnerCmed

**Interreg
Euro-MED**



Co-funded by
the European Union

Policy and Instruments for Energy Transition

Organized by: **ENERCMED PROJECT**

URWAN demonstrates how multifunctional NbS can bridge **Green Living Area** and **European Bauhaus** goals.



URWAN

Interreg
Euro-MED



Co-funded by
the European Union

WP1 Harmonize knowledge on nature base solutions (NBS)

WP2 Jointly developed experimental solutions for climate change adaptation of urban areas

WP3 Co-designing processes for planning and investing in multifunctional NBSs for the urban regeneration

WP4 The URWAN Amplification Strategy



NbS are not only decorative, they are multifunctional infrastructures

ANCI Lazio:
Driving **Nature-based Solutions** with Expertise in
Energy Communities

comanage



Co-funded by
the European Union



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union

The URWAN products 1/6

The URWAN Catalogue of NbS

Presents **20 NBS solutions**, including:

- **9 “water snobs”** (solutions that use drinking water) and
- **11 “water smarts”** (solutions that use unconventional water resources).

Available in English on the URWAN project page:

https://urwan.interreg-euro-med.eu/wp-content/uploads/sites/67/o1.1_nbs-catalogue-for-final-users_eng_20250619.pdf



Policy and Instruments for Energy Transition

Organized by: ENERCMED PROJECT

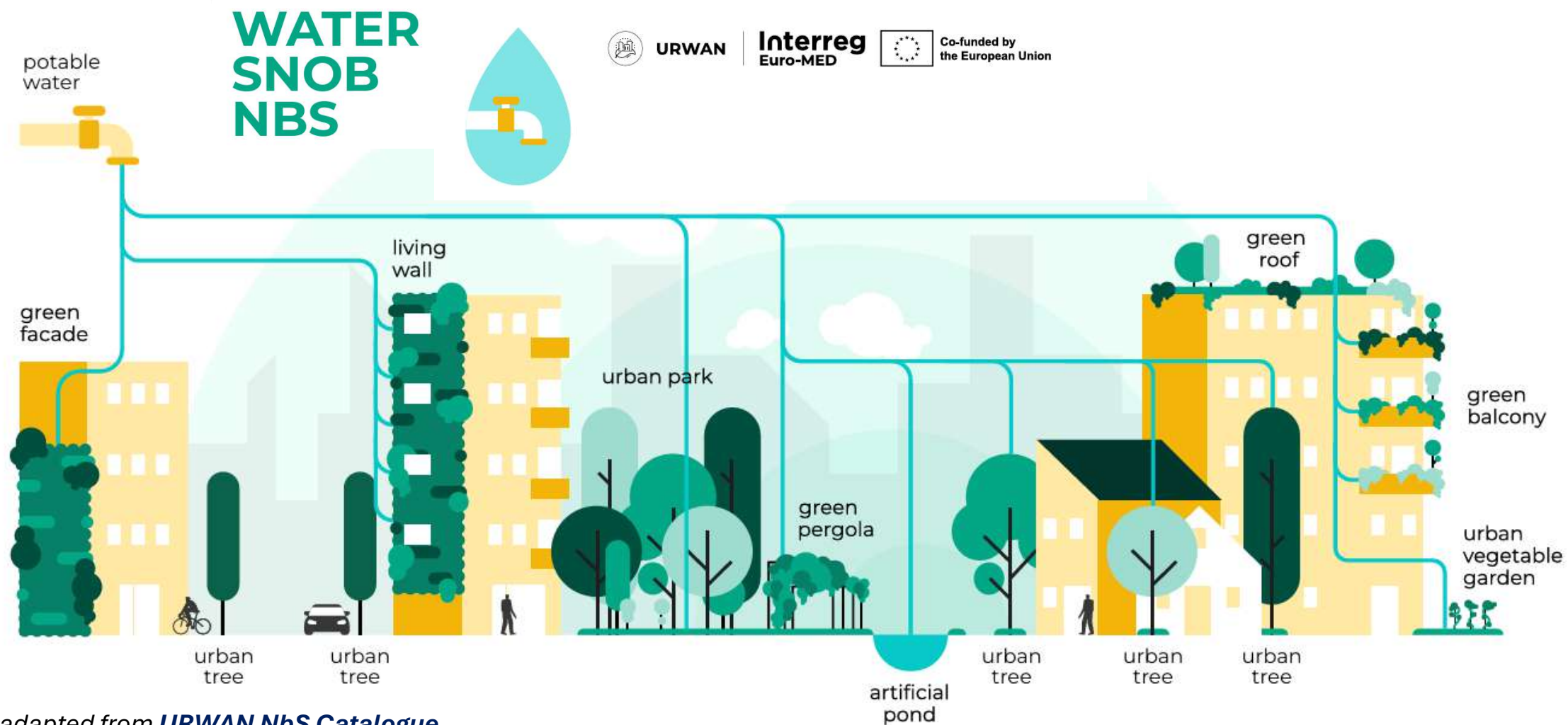


Image adapted from **URWAN NbS Catalogue**



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union

WATER SMART NBS

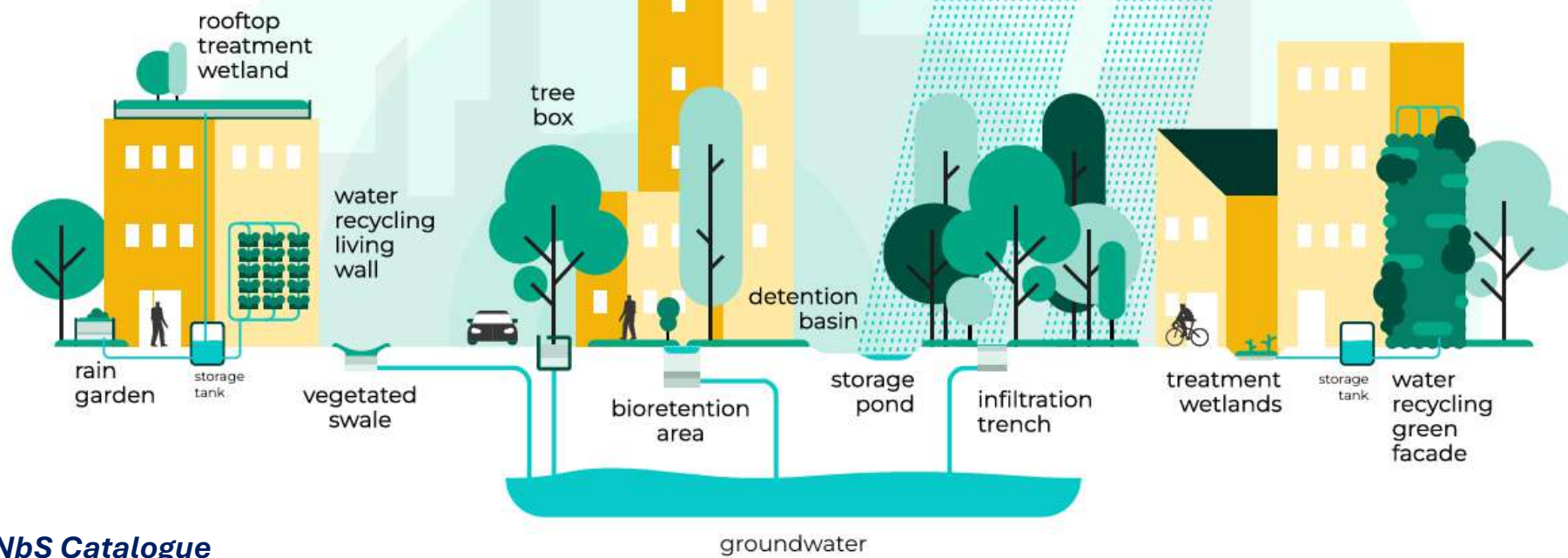


Image adapted from **URWAN NbS Catalogue**



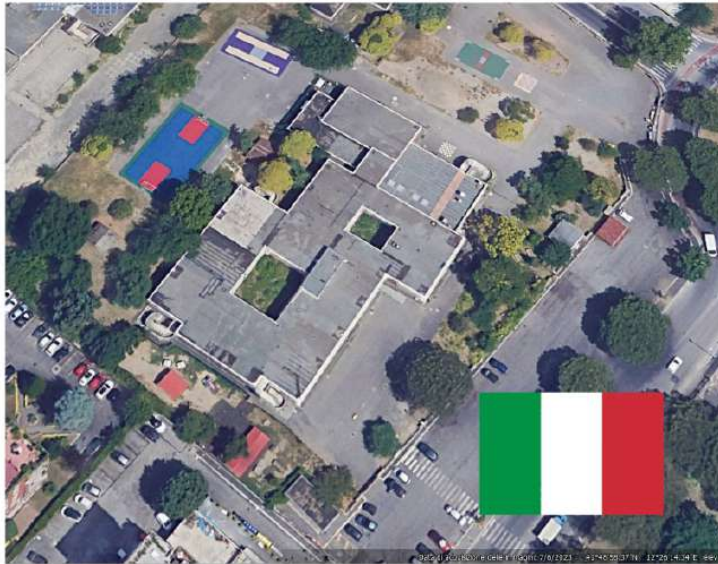
EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union

The URWAN products 2/6



URWAN PILOT AREA IN ROME (ITALY)

An elementary school with paved areas.

A reingarden and sustainable urban drainage systems collect rainwater from roofs and paved areas.



URWAN PILOT AREA IN CUBA (PORTUGAL)

A public building used by a local NGO with a parking area.

A constructed wetland and a vertical garden treat the blackwater from the sewage. A raingarden collects the rainwater from the building roof and surrounding paved areas to irrigate green spaces.



EnerCmed

Interreg
Euro-MED



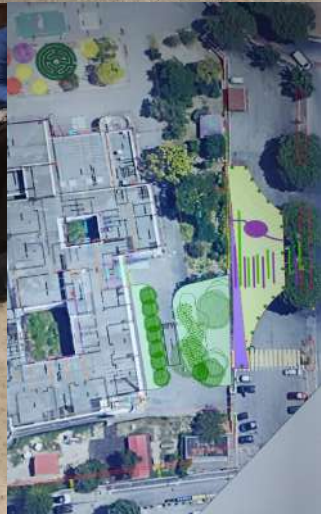
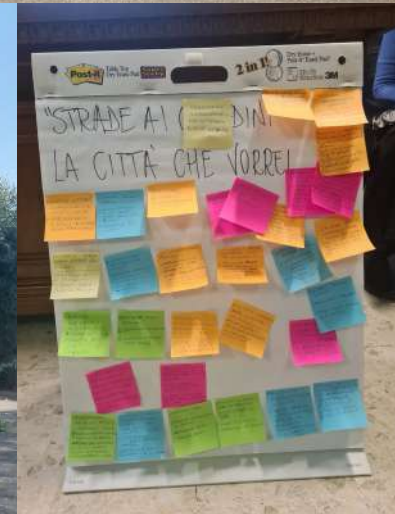
Co-funded by
the European Union

The URWAN products 3/6

Two public buildings become “water producers”:

Rome (Italy – District IX):

- Development of an **urban green space** with social areas accessible to citizens.
- Aims: raise awareness on **water resources protection**, provide community benefits.
- Adjustments: additional **geological survey** and **structural engineering** for construction permits.
- Enhanced **monitoring**: climate, water quality, and usage data collection.



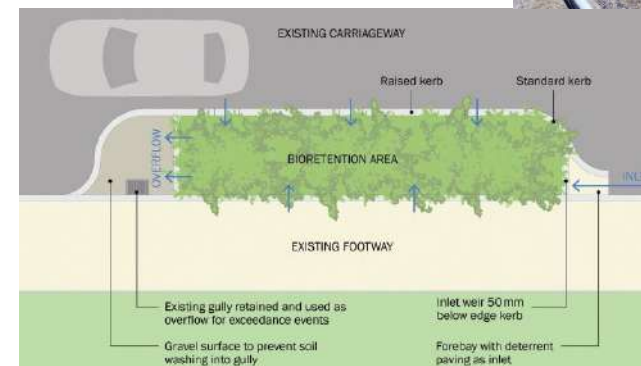
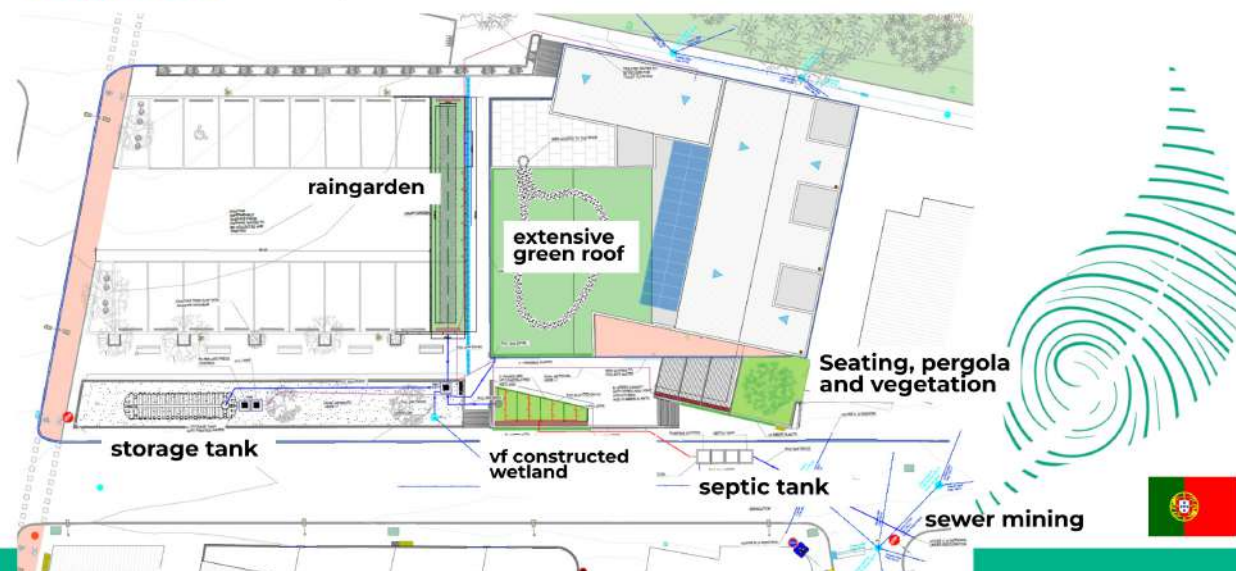
The URWAN products 4/6

Cuba (Portugal – Alentejo region):

- Installation of a **green roof NbS** requiring structural reinforcement of the building.
- Extra works to ensure **roof load capacity** and **safety stability**.
- Additional budget for **operation and maintenance** (system tuning, consumables).
- Improved **monitoring campaigns** on climate and water, with updated equipment.



Layout General plan



In the present case, the parking surface is about 520 m²; assuming for the rain garden a surface of 5% of the catchment area, we obtain 26 m². **The total retrofitted area is 58 m² including a filter strip for connection of the garden to the filtration area**



EnerCmed



Co-funded by
the European Union

The URWAN products 5/6

Five cities co-design Climate Adaptation Road Maps: two pilot cities and three in cities testing Integrated Decision Support Systems (IDSS)

Pilot cities:

Cuba – rainwater and blackwater reuse with wetlands, rain garden, vertical garden 🇨🇺

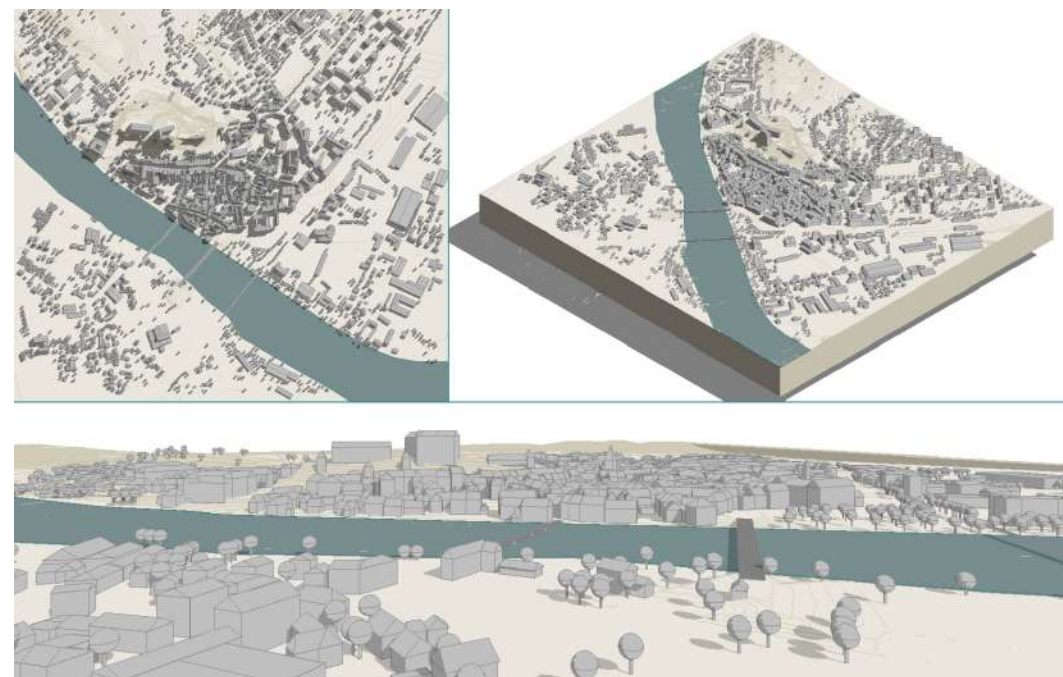
Rome – rainwater harvesting, de-sealing, sustainable urban drainage 🇮🇹

IDSS cities:



Ptuj, Sarajevo, Ferla – using digital twins and simulations to design resilient pathways

Co-designed road maps align with the **New European Bauhaus**, linking sustainability, functionality, and inclusiveness.



i.e. of digital twin about PTUJ (Slovenia)



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union



The URWAN products 6/6

The Enabler Pack: from pilots to practices



Knowledge capitalisation

- lessons from EU projects on NbS, co-design, resource efficiency



Demonstration pilots
testing multifunctional NbS for water reuse and urban regeneration



Digital innovation

Integrated Decision Support Systems (IDSS) & digital twins for resilience planning

URWAN Enabler Pack turns knowledge into action: enabling cities to plan, co-design and replicate multifunctional NbS for resilient and inclusive urban futures



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union

Policy and Instruments for Energy Transition

Organized by: **ENERCMED PROJECT**

Interreg
Euro-MED



Co-funded by
the European Union

URWAN



Thanks for your attention

Giorgio Scavino

URWAN Communication Manager



Grad Sarajevo



EnerCmed

Interreg
Euro-MED



Co-funded by
the European Union