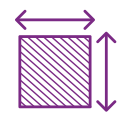


## THE AREA



**1 575km<sup>2</sup>**

Metropolitan City  
of Milan



**133**

Municipalities

- One of the most densely populated urban areas in Europe: 2,038 inhabitants/km<sup>2</sup>
- Demographic structure composed of 22% over 64 years old
- Land use:
  - 41% formed by build-up areas and infrastructures
  - 50% agricultural areas
  - 8% woodlands

## PARTNERS INVOLVED



## ABOUT AWARD

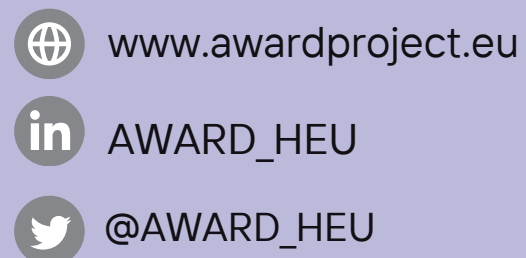
**A consortium of 16 partners across  
7 countries coordinated by OiEau.**



## DEMO CASE #2 CONTACT

- **Demo Case #2**  
DC2-award@oieau.fr
- **Project coordination**  
Contact@awardproject.eu

## GET IN TOUCH



**Funded by  
the European Union**

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**AWARD**

Alternative Water Resources and  
Deliberation processes to renew  
water supply strategic planning

## DEMO CASE # 2

**ITALIA**



## Metropolitan of Milan Sponge City

Demo Case 2 in Milan tackles flooding from stormwater linked to heavy rains. It focuses on developing alternative water resource supply systems to recharge the shallow urban aquifers.





## EXPECTATIONS FROM AWARD SOLUTION

- **Water quantity:** soil moisture + water balance for infiltration estimation (KPI: artificial recharge 5600m3/y)
- **Water quality:** pollutant load removal and interception (proxy rainfall) plus monitoring groundwater quality
- **Amenity:** heat island reduction monitored with citizen science activities
- **Biodiversity:** simplified measurement of biodiversity increase

## KEY STAKEHOLDERS

**CMM** (project partner)

**CAP Holding** (water utility – project partner)

**Municipality of Solaro**

**Municipality of Paderno Dugnano**

**Citizens**

**Metropolitan Board NBSWT**

## CHALLENGES AND SOLUTIONS



### What are the climatic challenges faced by the area?

- **Flooding** due to **storm water** linked to heavy rains
- **Global warming** creates urban heat islands
- **Soil impermeabilization** due to urbanization



### What are our AWR solutions for these challenges?

- **Rainwater** and **storm water** collection treatment
- **Aquifer recharge** using Nature Based Solutions



### Objective

Creation of an alternative water resource by **Manage Acquirer Recharge**.

Relief of sewer network due to **stormwater** in order to **reduce hydraulic risk**.



### Planning upscaling of AWRs

Evaluate the **impact of the CMM Sponge City** plan using **MetroADAPT** demo site data and a WP4 tool.

Launch a **citizen science campaign** to involve residents in monitoring and maintaining **urban SuDS**, **collecting data** on co-benefits and functionality.



**Cinzia DAVOLI**

**Città metropolitana di Milano**

*Our aim is to bring awareness to the territories, to all stakeholders, about urban transformations that make urbanisation more resilient and enhance natural resources, like water.*

