

Innovative and Enhanced Nature-Based Solutions for Sustainable Urban Water Cycle

The overall objective of NICE is to **widen the availability of enhanced Nature Based Solutions (NBS)** to provide circular urban water solutions.

NICE will provide key knowledge for the design and implementation of NBS, closing urban water loops. **Solutions will make available reusable water for different purposes**, in addition to **mitigating pollution** and runoff and constituting an attractive and integral part of the urban landscape.

NICE strategy will be based on **the comprehensive study of existing NBS together with the R&D at lab and the validation at Urban Real Labs** (11 URLs and 4 Fellow Sites in 5 EU countries and 2 international locations) **of innovative NBS covering the urban water cycle** (wastewater, greywater, river basins, stormwater & combined sewer overflow).

High-potential technologies such as green walls, vegetated rooftops, rain gardens & hybrid subsurface wetlands **will be studied and enhanced** with especially tailored bioaugmentation strategies, reactive materials & other filling media, novel design & plants, obtaining highly innovative and efficient urban water NBS.



This project has received funding from the European Union Horizon 2020 H2020 SC5-27-2020 - Strengthening international collaboration: enhanced natural treatment solutions for water security and ecological quality in cities, Grant Agreement No. 101003765

PROJECT DURATION

48 months
(from 01/06/2021 to 31/05/2025)

WEBSITE AND SOCIAL MEDIA

www.nice-nbs.eu/



PARTNERS

- Fundacion Centro Tecnologico de Investigacion Multisectorial (CETIM) (Coordinator - SP)
- FCC AQUALIA SA (SP)
- ICLEI European Secretariat (ICLEI EUROPA SEKRETARIAT GMBH) (DE)
- Politechnika Gdanska (GUT) (PL)
- Aarhus Universitet (AU) (DK)
- Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE) (FR)
- Bureau d'Ingenierie de Recherche et de Developpement en Ecologie (ECOBIRD) (FR)
- Politecnico di Torino (IT)
- IRIDRA SRL (IT)
- Sveriges Lantbruksuniversitet (SLU) (SE)
- LISODE SARL (FR)
- Investornet – Gate2Growth APS (G2G) (DK)
- Desert Research Center (DRC) (EG)
- Empresa de Acueducto y Alcantarillado de Pereira SAS ESP (A&A) (CO)

FUNDING INSTRUMENT

H2020-SC5-2020-2

BUDGET

Total funding: **4.996.342 €**

Funding allocated to DIATI: **139.062,50 €**

POLITO and DIATI's role:

Politecnico di Torino – DIATI is a member of the Consortium, under the scientific responsibility of **Prof. Fulvio Boano**.