Co-UDlabs

COLLABORATIVE URBAN DRAINAGE RESEARCH LABS COMMUNITIES

OBJECTIVES

- Foster a culture of co-operation between Research Infrastructures (RIs) and the urban drainage community through a set of coordinated **Networking Activities** to attract diverse users, improve their data literacy and sharing of knowledge.
- Facilitate free of charge **Transnational Access** to 17 unique 'field-scale' European experimental facilities where researchers and innovators can meet, develop, test and demonstrate their new ideas and technologies to tackle UDS challenges.
- Enlarge and strengthen the quality and quantity of services offered at European level through interconnected **Joint Research Activities** specifically focused on increasing our understanding of asset deterioration and improving system resilience..

Co-UDlabs is a Horizon 2020 project aiming to integrate research and innovation activities in the field of Urban Drainage Systems (UDS) to address pressing public health, flood risks and environmental challenges. The project aims to build a collaborative European Urban Drainage innovation community to facilitate the uptake of innovation in traditional buried pipe systems and newer green-blue infrastructure, with a focus on increasing the understanding of asset deterioration and improving system resilience.

Consortium
9 partners
7 countries

Duration
4 years

Period
1 May 2021
30 April 2025

Budget
5 millions €

The Co-Udlabs project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008626.

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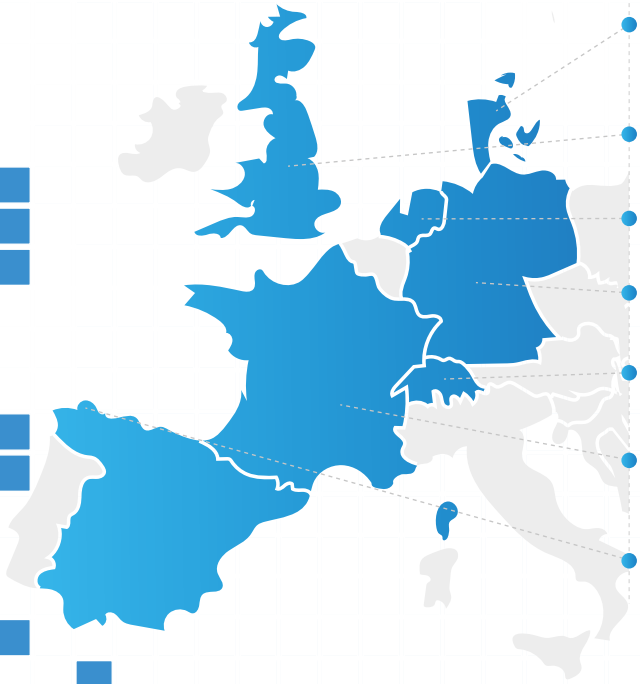
Get free access to our research infrastructures!

User groups will be selected via two calls for proposal (October 2021 and October 2023)



AALBORG UNIVERSITY
- Frejlev research station (FREJLEV) 4, 6, 7

The University Of Sheffield.
- Above/Below Ground Urban Drainage Facility (A/B FLUME) 1, 2, 4, 7
- Temperature controlled Annular Flume (ANNULAR) 3, 7
- Full Scale Buried Water Infrastructure Test Facility (BURIED FACILITY) 1, 3, 4, 6, 7
- Real Time Control Testing Facility (RTC RIG) 1, 2, 4, 7

Deltares
- Alpha-loop (A-LOOP) 4, 7
- Beta-loop (B-LOOP) 3, 4, 7

IKT
- IKT Large Test Facility (IKT LTF) 4, 6, 7
- IKT Hydraulic Test Stand (IKT TEST) 2, 4, 5, 7

eawag aquatic research
- Urban Water Observatory – Digital Lab (UWO) 3, 4, 7
- Experimental Hall–recirculating flume (HALL) 3, 4, 7

INSA INSTITUT NATIONAL DES SCIENCES APPLIQUÉES LYON
- Green ROOF experimental Facility (GROOF) 4, 5, 7
- Django Reinhardt detention and settling basin (OTHU-DRB) 2, 4, 5, 7
- OTHU SuDS research facilities (OTHU SuDS) 2, 4, 5, 7

UNIVERSIDADE DA CORUÑA
- Scale street surface model (STREET) 1, 2, 4, 5, 7
- Scientific platform for urban runoff tests (BLOCK) 1, 2, 5, 7
- Bens waste water flume facility (BENS FLUME) 3, 4, 7

Fields of expertise

1. Urban flooding
2. Runoff pollution
3. In-sewer process
4. Performance of urban assets
5. SuDS solutions
6. Assets deterioration
7. Digital water solution

Contact

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