



**Co-UDlabs**

# Webinar on Key findings from Co-UDlabs research and where to access them

**Moderator: Dr Iain Naismith, IKT**

**Tuesday , 11 March 2025, 09:00am – 12:30 CET**

# Agenda for this morning

## Session I - Smart sensing and monitoring in urban drainage

- new technology (sensors, materials, tools) and methods (data, protocols, analysis)
- streamlining digitised, sensorised, and evidence-based decision-making.

## Session II Evaluation of assets deterioration in urban drainage systems


- Updated and improved work on pipe defects, monitoring, and rehabilitation,
- Increasing the durability and sustainability of systems
- Addressing ageing, climate change, and disorderly urbanization.

## Session III Improving resilience and sustainability in urban drainage solutions

- demonstrating how more efficient, sustainable, and performing urban drainage is essential
- Addressing consequences of pollution, flooding, and urban vulnerability to extreme events.

# What is Co-UDlabs?

An **Horizon 2020** project to integrate research and innovation activities in the field of **Urban Drainage Systems (UDS)** and comprises a consortium includes nine partners from seven European countries:



**Co-UDlabs Research Infrastructures**

- AALBORG UNIVERSITY** (Denmark)
  - Frejlev research station (FREILEV)
- Deltares** (Netherlands)
  - Alpha loop (A-LOOP)
  - Beta loop (B-LOOP)
- IKT** (Germany)
  - IKT Large Test Facility (IKT LTF)
  - IKT Hydraulic Test Stand (IKT TEST)
- eawag** (Switzerland)
  - The Urban Water Observatory - Digital Lab (UWOL)
  - Experimental Hall-recirculating flume (HALL)
- INSA** (France)
  - Green ROOF experimental facility (CROOF)
  - Django Reinhardt detention and settling basin (DTHU-DRB)
  - OTHU SuDS research facilities (OTHU SuDS)
- UNIVERSIDADE DA CORUÑA** (Spain)
  - Street model (STREET)
  - Scientific platform for urban runoff tests (BLOCK)
  - Bens WWTP flume-facility (BENS FLUME)
- The University Of Sheffield** (United Kingdom)
  - Above/Below Ground Urban Drainage Scale Model (A/B FLUME)
  - Temperature controlled Annular Flume (ANNULAR)
  - Full Scale Buried Cell Flume (BURIED INFRASTRUCTURE)
  - Real Time Control Testing Facility (RTC RIG)

**GRAIE** France

**Euronovia** France

# What is Co-UDlabs?

It has three key goals:

- **Foster a culture of cooperation** through networking activities – NETWORKING ACTIVITIES
- **Facilitate exchange and collaborative research** by offering free-of-charge access to a unique research infrastructure - TRANSNATIONAL ACCESS
- **Strengthen and improve services and venues** available to the urban drainage community via a set of joint research activities: JOINT RESEARCH ACTIVITIES



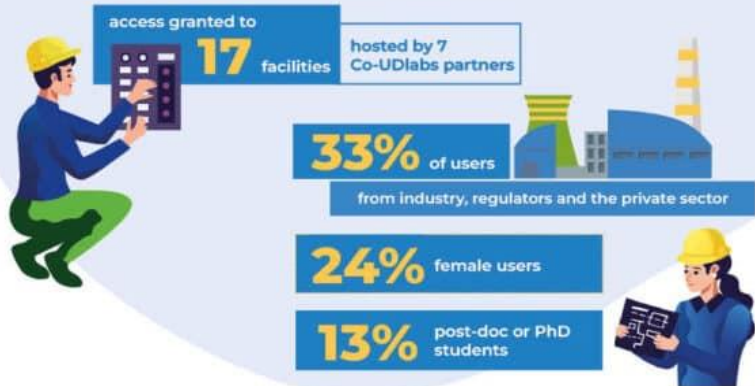


## Results of our TA campaigns

# Trans National Access – 31 projects using our research facilities



227 users from 26 countries and 122 institutions



Through all 3 TA calls combined, Co-UDlabs has involved 227 user-group members from 26 countries (11 non-EU), led by user-group leaders from 16 countries (5 non-EU).



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# Going forwards – the UDRAIN working group

## IWA/IAHR Joint Committee on Urban Drainage Working Group UDRAIN

First worldwide network of large Research Infrastructures (RI) of urban drainage systems.

- Prepare an **inventory and atlas of large-scale Research Infrastructures (RI)** on urban drainage
- Build a **community of large RI owners** to enhance and uniform practices
- Build a **community of large RI actual and potential users** to share studies and results
- Organise a **congress, webinars and other training** and dissemination activities

- More information visit: [www.co-udlabs.eu](http://www.co-udlabs.eu)