How a collaborative network of research infrastructure can benefit urban drainage modelers

In this workshop participants of Co-UDlabs will present and discuss with the workshop attendes about:

(i) the benefits of collaborative work carried out through Co-UDlabs' transnational access activities and the newly established UDRAIN JCUD working group,

(ii) conceptual foundations and tools for effective sharing of urban drainage data, and

(iii) strategies for building a sustainable community around large-scale research infrastructures and data-sharing principles in urban drainage.

The workshop will be held in a hybrid format, welcoming both in-person attendees and online participants from the series of seminars jointly organized by Co-UDlabs and the International Working Group on Data and Models (IWGDM) to promote FAIR (Findable, Accessible, Interoperable, and Reusable) data practices in urban drainage research.

AGENDA

13:00 – 13:10. Introduction to the workshop and key remarks of Co-UDlabs project. Jose Anta, Universidade da Coruña

13:10 – 13:50. Co-UDlabs ecosystem catalogue of open datasets of sensors and technologies. How to make data more accessible, reusable and interoperable.

GROOF – A 1-min high resolution dataset for hydrological analysis of green roof performance. Jean-Luc Bertrand-Krajewski, INSA-Lyon

RTC dataset for enhancing CSO control and flow discharge monitoring in UDS. Alma Schellart, University of Sheffield.

High-resolution large-scale rainfall simulator dataset for flood models. Spyros Pritsis, NTNU.

Validation of new sensors and technologies to enhance urban drainage systems and assets modelling. Pierre Lechevallier, EAWAG

13:50 – 14:20. Discussion.

The aim of the session is to explore the topics presented and to rank ideas and tasks which allow for a better reuse of the datasets and services generated in research facilities by urban drainage modelers. It will also include a '**data set market-place'** preparation to propose and discuss with participants to use some of the available Co-UDlabs and other datasets available in the Urban Drainage community.

14:20 – 14:30. Presentation of the UDRAIN working group on Large-scale Research Infrastructure (RIs) activities. Jose Anta, Universidade da Coruña.

The WG initiative aims to create a comprehensive global inventory of large-scale RIs in urban drainage, promote technical cooperation and knowledge sharing, standardize data collection, research protocols, and training activities.

14:30 – 15:00. COFFEE BREAK

15:00 – 15:10. Conceptual foundations, semantic models and tools to effectively share Urban Drainage data. Alfredo Chavarria and Jörg Rieckermann, Eawag

15:10 – 15:50. Discussion

The attendees will be able to discuss and contextualize the topics presented based on their own research experience. The aim of the session is to explore the topics presented and to rank ideas and tasks which allow for a better share and reuse of the datasets and services generated in research facilities by urban drainage modelers.

16:10 – 16:30. How to consolidate a community of Urban Drainage open data providers. The role of JCUD WGs in Data and Models and UDRAIN. All presenters and attendees.

A final plenary session would gather the outputs of the workshop, summarizing the key points from the presentations and discussions, highlighting the most promising ideas and tasks identified by the attendees. The session aims to outline a roadmap for future collaboration and actions, ensuring that the insights gained are effectively implemented to enhance the reuse of datasets and services in urban drainage research.

Organization:

UDRAIN WG - Large Research Infrastructure in Urban Drainage

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