



Co-UDlabs

collaborative urban drainage research labs community

IWGDM

Eawag

Swiss Federal Institute of Aquatic
Science and Technology

eawag
aquatic research ooo

Workshop

FAIR data practices in urban drainage

Luís de Sousa (IST, Uni Lisbon)

Martin Fencel (CTU Prague)

Joao Leitão (Eawag)

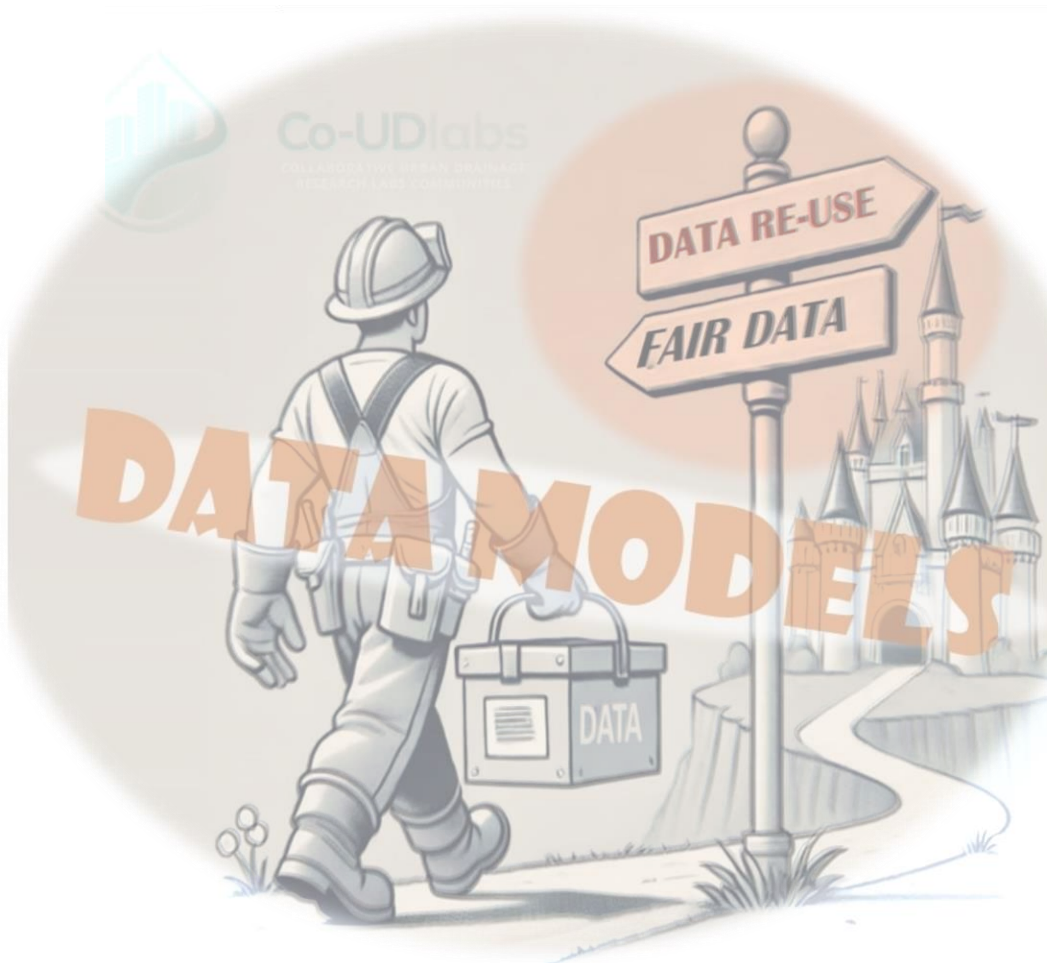
Alma Shellart (Sheffield University)

Vincent Pons et al. (NTNU)

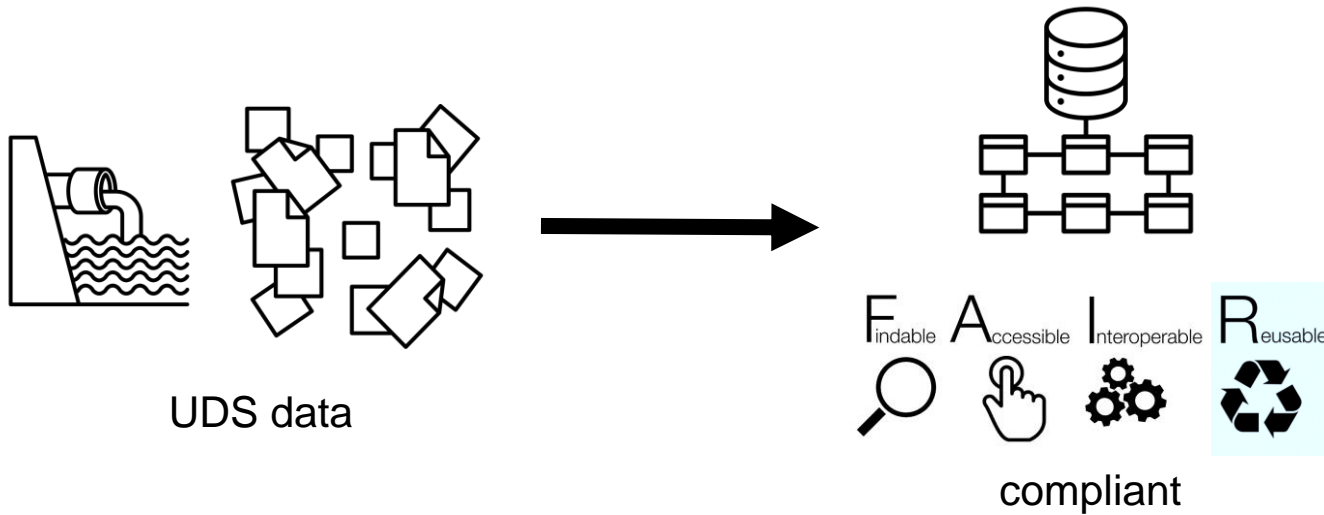
J. Rieckermann (Eawag)

Alfredo Chavarria (Eawag)

Science that matters

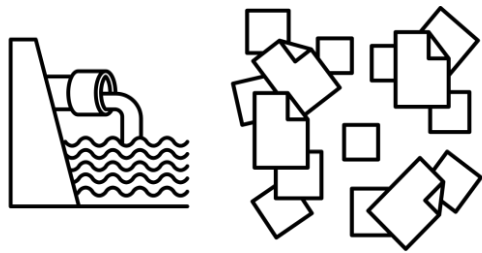


Why?



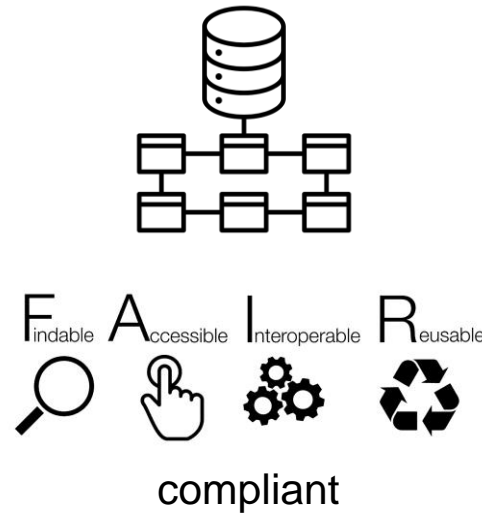
- Useful but unstructured data
- Difficult to reproduce
- No UDS data model
- No clear naming conventions

Why?



UDS data

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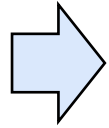
Reusable in the future



Machine actionable
(Machine Learning and AI)

- Retrievable data/metadata (API)
- Interoperability with other systems (M2M, Real-Time dat. exchange)

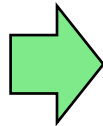
How?



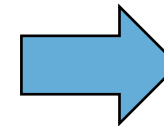
- Explore existing standards
- Show successful examples
- Connect with other communities (OGC)

Domain expertise

Use momentum of the community



- Create field expert groups
- Agree on semantics
- Extend/build the data models
- New meetings (continuity is key)



**UDM conference in
Innsbruck Sept. '25**



Agenda

| | | |
|-------------|--|--|
| 12:05–12:15 | How to invest data with meaning – semantic web concepts and tools | Luís de Sousa (IST, Uni Lisbon) |
| 12:15–12:25 | A data model for opportunistic rainfall sensors | Martin Fencel (CTU Prague) |
| 12:30–12:35 | Flow and water level data | Jörg Rieckermann (Eawag) |
| 12:35–12:40 | Urban flood simulations | Joao Leitão (Eawag) |
| 12:40–12:45 | CSO spills | Alma Shellart (Sheffield University) |
| 12:45–12:50 | Water quality data | Vincent Pons et al. (NTNU) |
| 12:50–12:59 | Group organization and next steps | Jörg Rieckermann (Eawag) |



Co-UDlabs

Co-University Design Labs

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OTHER PRESENTATIONS



Group organization

Mid-term goal:

- * Discuss results at UDM conference at Innsbruck
- Work in individual working groups focused on certain monitoring data/use cases

Next meetings:

- *15.6.
- *15.7.
- *15.9. at Innsbruck

Group organization:

Set up event homepage at Co-UDLabs homepage (transition to IWGDM homepage?)

Join forces, comment, start your own group! => email to the group leaders

or alfredo.chavarria@eawag.ch, joerg.rieckermann@eawag.ch