

Cloud data platform for Stavanger

ICT | Stavanger, NO

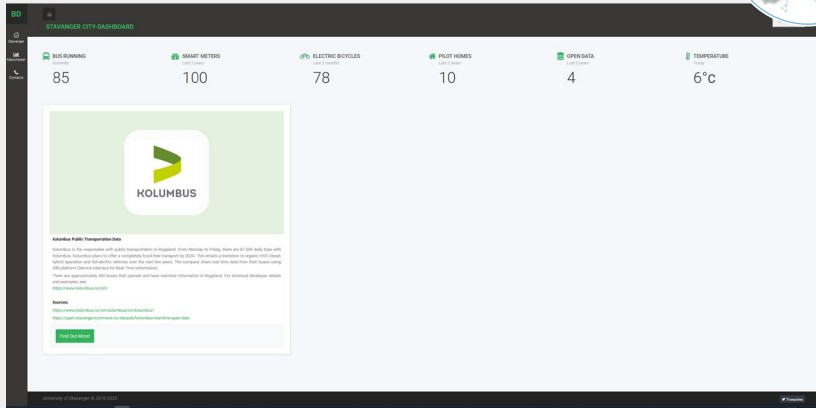


Photo source: UiS

It is an ICT Platform which facilitates collection, storage and processing of Smart City Data. It provides data access. Built from scratch by researchers based on cutting edge knowledge on a shared pool of computing, storage and networking resources. Open Source prevents vendor lock-in. Design of the Platform prevents data Lock-in.

Measured Impacts

- 60.04** Terabytes of HDD
- 1.6** Terabytes of SSD
- 20** physical cores
- Can host up to **160** virtual machines
- 40.0 Gb/s** Full bisection bandwidth



project scale

Beyond city level



development type

Technology

Benefits

- Ability to use resources from different geographical locations
- Modular micro-service-based design

Lessons learned

- Start with a background study/reference architecture/ best practices and guidelines
- Generate cross-disciplinary working groups, to understand the different requirements
- Finding the balance between emerging technologies and the mature ones

Challenges

- Availability of data streams
- Different data in different formats

Supporting factors



infrastructural

University of Stavanger data centre



financial

As a public institution, access to public funding is available, vendors often provide equipment at a reduced fee as it is for University. No profit needs to be generated.



geographical

Beyond city level



social

Creating access to data



partners

University of Stavanger

Contacts

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