case studies

Data analytics toolkit - http://triangulum.cs.ux.uis.no/

ICT | Stavanger, NO

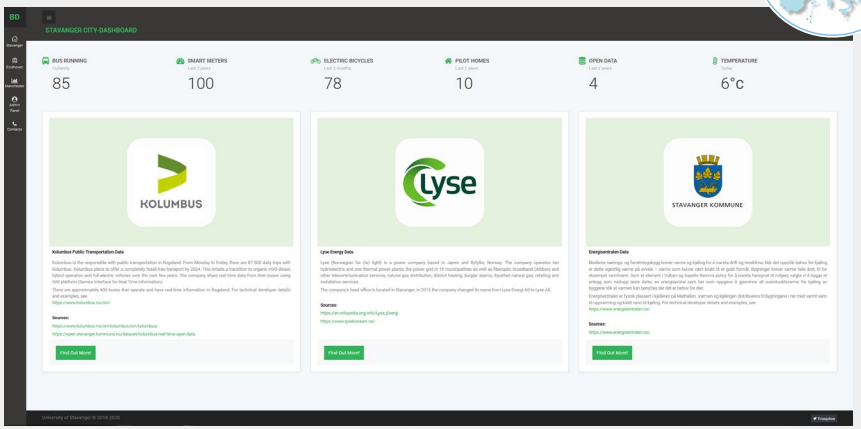

Photo source: UiS

It is a framework and generic tools for big data analytics, which will be useful for the citizens and replicable for cities and companies. The aim is exploiting the open data sources, combining variability of different data sources, analysis of high volumes of data at a high velocity from a city and other public sources. The framework allows the analysis of data monitored and stored in the data hub developed in the project. The aim of this framework, along with the frontend dashboard is to provide a holistic and integrated view of the data.

Measured Impacts

4 datasets hosted

35 completed impact indicators

project scale — **Beyond city level**

development type — **Technology**

Benefits

- ☑ Increasing transparency
- ☑ Improving data availability
- ☑ Facilitating citizen engagement

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

Challenges centred primarily around data security and GDPR. The original idea was to use open data with anonymous data, but with GDPR, adjustments needed to be made. Although UiS maintained throughout the project that they would only accept open data, we also understood that for a proper demonstration project, we had to demonstrate the inclusion of closed data. This caused additional challenges, time, and resources in order create a structure that would properly balance data utility with data security.

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 price 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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