

BBDATA – Big Building Data

A cloud platform for data storage and processing for Smart Living Lab

Contact

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Keywords

- Smart Buildings
- Big Data analysis and processing
- Internet of Things

Our skills

Big Data technology stacks
Machine learning techniques

Valorization

Enabling Big Data technologies for building management systems

Partnership

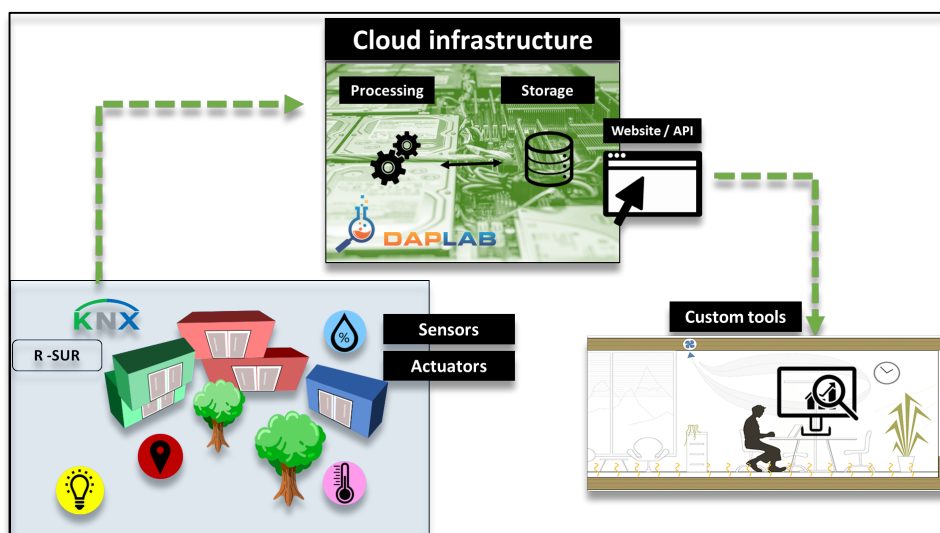
- iCoSys – HES-SO//Fribourg
- Energy – HES-SO// Fribourg
- Smart Living Lab

Funding

Smart living lab HEIA-FR

Schedule

2016-2017



BBDATA stands for **Big Building Data** and aims at developing a **scalable cloud platform and tools for storing and processing smart building data**. The project is realized in collaboration with the [Smart Living Lab](#) (SLL), a long term project which aims at developing the buildings of the future. The services are targeting data **access, processing and analysis**, using open, robust, standardized and secured big data technologies.

Numerous sensors and actuators are located in the different buildings of the [blueFACTORY](#) site. These sensors collect measurements such as location, temperature, humidity, presence, CO2, electricity consumption, etc. Gateways are integrated enabling a seamless and **standardized way to communicate with all sensors and actuators** as if they would be simple Internet of Things devices. Thus, research teams and projects with eclectic protocols and in-house sensors can easily integrate with BBDATA.

BBDATA provides a shared cloud platform running **Big Data technologies, enabling a low cost solution and a short time-to-research**.

BBDATA services will also include machine learning capabilities for complex data processing such as discovery of correlations, event detection and modelling of non-linear phenomena. BBDATA will also offer information visualization tools for understanding and communicating of research results.