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.