

The digital building twin

UC15

In Use Case 15, the use of Building Information Modelling (BIM) – i.e., the digital recording of all building data and components in the form of a digital building twin – is tested, and its added value, efficiency and data expenditure is evaluated.

- The planning, construction and operation of buildings involve a large number of different participants and trades that have to be coordinated with one another. **Faulty planning** is often only uncovered during construction, which usually causes high costs.
- With BIM, the interaction of the components can be verified digitally before the start of the **construction phase**. This helps to identify faulty planning at an early stage.

Siemens, Wien Energie

Budget: 1.1 million Euro

Testbeds: Office building
TZ2, School campus

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Digitaler Zwilling
Digital Twin



Reales Gebäude
Real Building

The digital building twin

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The benefits:

- Creates the foundation for UC12 & 14
- Provides software, memory structures and interfaces for complete and current data