

openBIM® PRINCIPLES

The buildingSMART Data Dictionary is a service from buildingSMART International. The Data Dictionary actively delivers an open and neutral solution to drive digital transformation and automation in the built asset industry.

- ✓ You own your data
- ✓ Data Security
- ✓ Usage Analysis
- ✓ Extend IFC
- ✓ Vendor neutral
- ✓ Linked data
- ✓ Always open
- ✓ openAPI spec
- ✓ ISO 12006-3 (IFD)
- ✓ ISO 23386/7 (PDT)
- ✓ ISO 16739-1 (IFC)
- ✓ ISO 29481 (IDM)
- ✓ CEN TC442
- ✓ OTL Support



CONTACT US FOR MORE INFO

Want to add your data to the data dictionary?
 Want to learn more about how much efficiency it brings for your business?
 Or any other question!

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BIM is about information.
 But keeping data quality high is difficult.
The buildingSMART Data Dictionary
 brings a set of helpful solutions.



DATA QUALITY

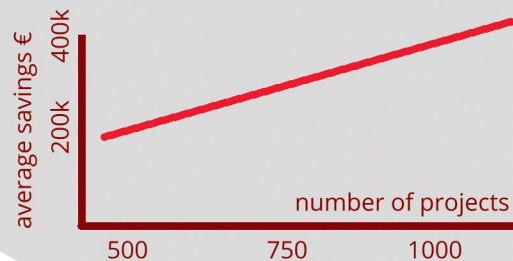
A standardized workflow to guarantee data quality

When you know BIM is more than just a 3D model, you know it can be hard to keep your data quality on the right level. Every project is different, and your partners don't always deliver. Under time pressure, the quality of the data is dropping. This leads to delays in your process and additional costs to fix errors. The buildingSMART Data Dictionary can help. It provides a standardized way to manage data and guarantee quality.

- 0 The correct classification, property or value is never more than 2 clicks away.
- 0 No more typing errors thanks to automated inputs. No more excel sheets to keep in sync. Forget dozens of plugins and manual mappings.
- 0 Advanced filters on domains, translations, synonyms, country of use, method of measurement, related entities, and much more...

YOUR SAVINGS

On projects with experienced data modelers and BIM managers it is known that 2% of interactions have identifiable data errors that lead to delays and cause additional time to fix. Less experienced project teams have even higher error rates.



These are internal savings per year. Your partners also save. Actual savings are higher due to shorter engineering times, less failure costs and better automated analysis.



Better connections More efficiency

Using the buildingSMART Data Dictionary provides internal efficiency savings, but also new possibilities. Connections to product manufacturer databases, hand-over to Facility Management, product tracking and compliance checks can be automated thanks to using buildingSMART Data Dictionary.



For Software vendors API First

Software vendors have a single point of entry. One easy to use API provides their users access to all the standards they need. Multi-language support comes included. Industry standards like OAuth and Swagger lower the threshold for implementation.

IFC IS JUST THE BEGINNING

Any experienced BIM data manager knows that clicking on 'export to IFC' is not enough. On top of the global consensus from IFC, national classification systems and domain specific standards are further enriching a BIM. In many cases company wide agreements or project specific specifications are even added to the dataset.

The buildingSMART Data Dictionary is the single entry point for all levels of agreements and standards, including relations and interconnections.

COMPANY & PROJECT STANDARDS

NATIONAL STANDARDS

IFC



For data owners Global audience

Distributing your standards through the Data Dictionary unlocks global audiences. Updates are instantly distributed and bilateral links with other standards can be made. A vendor-neutral solution that increases accessibility and interoperability.