

Project BIM@hoch^{BAU}

Component manufacturers and planners implement BIM- methods on the basis of a pilot project accompanied by external experts

Motivation

The equivalent of industry 4.0 in the production process is BIM (Building Information Modeling) for planning, construction and operation of buildings. The use of a digital building model in cross-discipline cooperation leads to more efficiency and higher quality, positive added value effects are proven. Planners, consultants, building material and component manufacturers, building constructors and also operators and building authorities should be able to access the common digital building model - the "digital twin" - and edit it. But BIM as a communication method between the different players must be established, tried out, refined and, above all, applied for a successful implementation into the companies. For this cooperation and support are needed. This is where a new cooperation project comes in of the Green Building Cluster Lower Austria.

Project objectives and project contents

In the course of a cooperative qualification project, building component manufacturers as well as planners and executors in the implementation of BIM methods are supported by external BIM experts on the basis of real pilot projects.

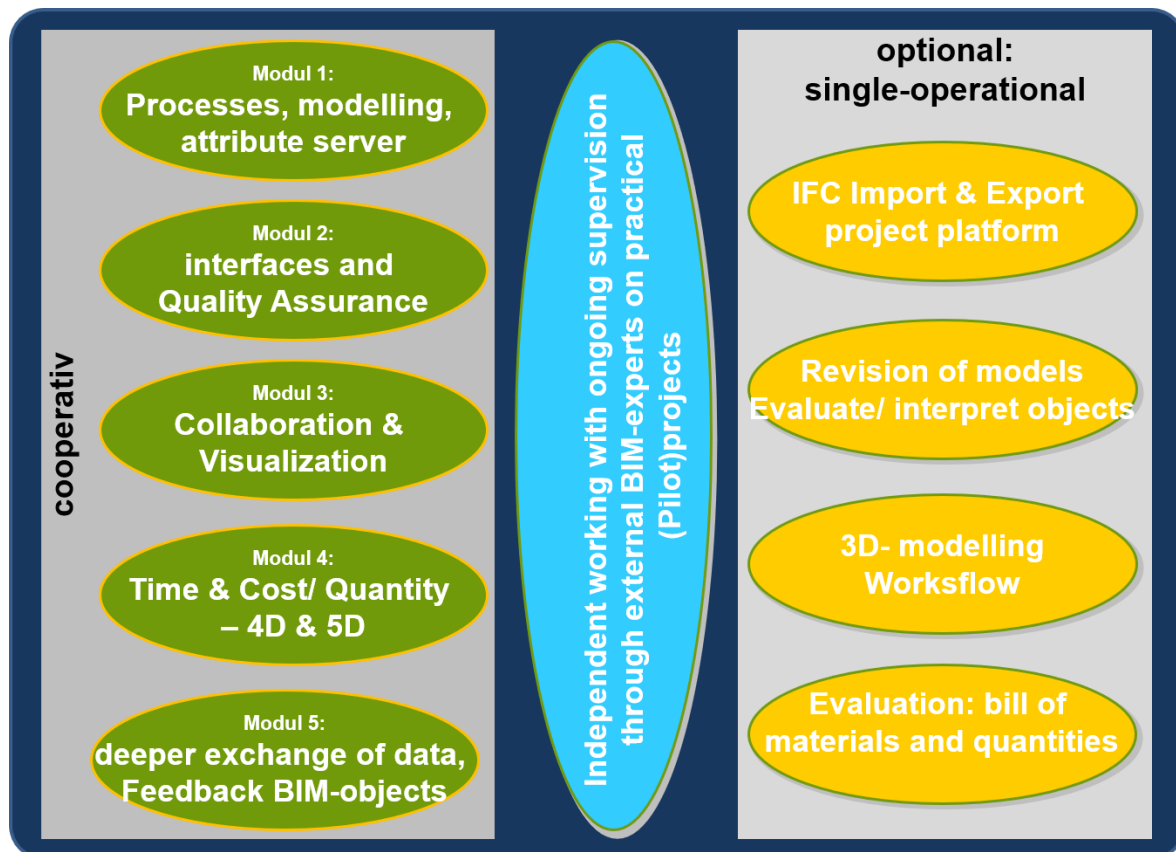
Project contents

- Development/Test/Optimization of BIM objects of the manufacturers
- Implementation of BIM working methods in planners:
 - Data exchange using a common data platform
 - Optimizing IFC Data Exchange
 - collision checks
 - Visualization of the building model using Virtual Reality
 - Use and Evaluation of BIM Objects
 - Automated quantity and cost determination
 - Development and testing of a digital workflow

Project objective

At the end of the project, each participating company will present an essential and individual step in the direction of "BIM-fit".

Projektstruktur, Projektlauf



Projektlaufzeit

Project submission 05/2018, Duration 09/2018 – 02/2019

Necessary time resources on the part of the participating companies

1 day each per workshop, in total	5 days
1 day each in between the workshops, in total (for single-operational special topics)	4 days (2 days)
In total	minimum 9 days

Project Partners

13 small, medium, and large component manufacturers, planners, and contractors from the Construction industry in Lower Austria and Salzburg



1. Alfred TREPKA GmbH
2. Kollar GmbH
3. Wienerberger Ziegelindustrie GmbH
4. Baumit GmbH
5. Metallbau Schinnerl Ges.m.b.H.
6. Hilti Austria Ges.m.b.H.
7. REHAU Gesellschaft m.b.H
8. Würth Handelsges.m.b.H
9. ENSAVE GMBH
10. Ingenieurbüro KRAM GmbH
11. Unternehmensberatung Rudolf Exel (Sachverständiger für für Fenster und Türen)
12. Mayer & Co Beschläge GmbH
13. Josef Lux und Sohn Baumeister Ges.m.b.H.

Monitoring of External BIM- experts

Christoph Degendorfer, SIDE - Studio for Information Design GmbH

Hanspeter Schachinger, BIMCOS

Otto Handle, inndata Datentechnik GmbH

Projekt volume, costs and financing

Cost of external monitoring (net)

Workshops 1 – 5	€ 20.000
Continuous supervision of planners between the workshops, all-including	€ 21.500
BIM-object analysis and optimization, all-including	€ 21.500
Subtotal	€ 63.000
single-operational special topics (daily rate EUR 1,000.- per external expert, 50 days assumed)	€ 50.000
Project volume	€ 113.000
Exemplified share per project partner with 2 special topic days	€ 7.000
Possible support for companies from the province of Lower Austria (for companies located in Lower Austria, member of the chamber of commerce)	€ 3.500
Effective share per Project Partner from Lower Austria	€ 3.500

Project Support

A submission to the Lower Austrian Economic Development Agency (Niederösterreichische Wirtschaftsförderung) in the funding area "Cooperation" is planned. Irrespective of the size of the company external costs are funded up to 50%.

If you are interested please contact ...

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