HUNZIKER BETATECH AG

TACKLING COMPLEX INFRASTRUCTURE PROJECTS WITH BIM WORKFLOWS

For Swiss engineering firm Hunziker Betatech AG, 3D planning tools were vital for meeting the complex legal and technical parameters of designing a more sustainable, cutting-edge water treatment plant in Zurich.

Project planners used integrated BIM workflows to meet demanding technical challenges.

OUTCOMES

EFFICIENT USE OF LIMITED SPACE
New plant design uses 65% less space due to higher-capacity purification process

TIME-SAVING COLLABORATION
300+ coordination tasks completed with BIM 360 before breaking ground, which saved time during construction

SUSTAINABLE CONSTRUCTION
Project model triples purification output, uses innovative energy sources, and reduces emissions by 170 tons of CO_2 per year

" This project could not have been realized without digital 3D planning tools."

Dominik Börrnert, *Head of Digital Planning*
Hunziker Betatech AG

READ FULL CASE STUDY ❯

HOW THEY DID IT
Hunziker Betatech AG's methodology

THE DIGITAL WORKFLOW
Project planners used integrated BIM tools:

R PRO	**R**	**A** P3D	**C** C3D	**B** 360
Project site scanned in ReCap Pro and imported into Revit	Architecture and structural plans designed in Revit	Construction pit designed in Civil 3D	Plant model designed in Plant 3D	Plans imported to BIM 360 to generate the project model

UNIVERSAL ACCESS ON BIM360*

All teams had access to up-to-date project plans.

- Civil engineers
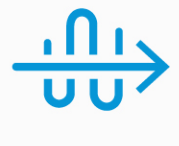- Construction workers
- Electrical engineers
- Building operator
- Area residents

✓ Saving time by resolving issues before build phase

Streamlining construction of temporary structures to ensure ongoing service

A LOWER-IMPACT PROJECT
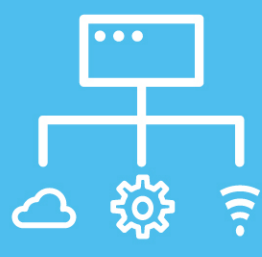Digital modelling enabled

· Proof of feasibility
· More complex construction workflows
· Effective minimization of disturbance to area residents

88% Project score
in the "Standard for Sustainable Building Switzerland" thanks to digitalization and contractor collaboration

THE BOTTOM LINE
Key benefits of using integrated BIM tools for Hunziker Betatech AG

MEETING COMPLEX TECHNICAL CHALLENGES

SOLVING ISSUES BEFORE CONSTRUCTION

CONTINUOUS COLLABORATION OF CONTRACTORS

ACHIEVING SUSTAINABILITY TARGETS

"Only with digital 3D planning tools are we able to efficiently use every centimeter of the construction area and approach the project from its technical and legal angles."

Dominik Börrnert, *Head of Digital Planning, Hunziker Betatech AG*

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AUTODESK

* BIM 360 Design will be changed to BIM Collaborate Pro in 2021