

MTH Kicks Competencies Up a Notch



Headquartered in Copenhagen, MTH Højgaard Group is known as one of the leading construction and civil engineering companies in the Nordic countries who works with clients throughout Denmark and in multiple countries overseas. The company solves all needs within construction and civil engineering from designing to building bridges, housing and business property.

Driven by the desire to be the most efficient building and civil engineering group in the construction and civil works industry, MTH implemented iTWO 5D BIM technology in 2014 and started working with VDC (Virtual Design & Construction) to go beyond geometry and explore alternatives, enhancing the company's competencies and gaining tremendous business opportunities.

Headquarters
Copenhagen, Denmark

Founded
1918

Industry
Construction

Products & Services
Civil works & Commercial Construction & Public Sector Construction

Employees
4,200

Revenue
914 Million Euro (2016)

Website
<http://mth.com>

Target

MTH launched a new business plan with changing productivity being the top priority. In order to enhance productivity, the company had to be exceptional at virtual design and construction – going through the visualization and simulations of projects before building it in real life.

Solution

iTWO is a 5D BIM solution that enables 5D simulation of a project before physical construction. With iTWO, the MTH team can run different simulations and various scenarios of a project to ensure less risk, lower costs, and higher quality, leading to higher productivity.

Implementation

- MTH set up a process that suits the way they want to work with iTWO, namely, Strategy Research - Urban VDC – VDC 5D – BIM – FM TCO.
- With iTWO, MTH integrates design, time, and cost both in the system and in their work processes.
- The company can include its value chain in the early stages of the process for project optimization. MTH gets all stakeholders into the VDC lab to get their insights on the optimization of the project.
- The team strives for early collaboration with clients. MTH had approximately 200 Client workshops over the last 2 years. To enhance project performance, the team utilizes 2 to 3 hour discussions over a project early in the planning stages.
- Work with alternatives. With iTWO, the team is able to run alternatives and easily compare them to discover the best solution.

Outcomes

- iTWO 5D technology enables MTH to centrally monitor and benchmark the company's enterprise-wide project performance. Productivity is increased and competency kicks up a notch.
- The tender win rate has soared up from 17%, 10% in certain segments, to 40% and 50% - a huge game changer for the company.
- MTH has achieved effective digital collaboration among all stakeholders of the project, which is the ideal situation to work the context of a building or civil engineering project into the model. Some state-of-the-art projects such as the new headquarters of Nordea Bank, and Frederikskaj luxury apartments, Copenhagen, have been achieved.

■ Centrally Monitor Enterprise-Wide Projects

■ Tender Win Rate Soars up to 50%

■ Work with Alternatives to Get the Best Solution

■ Effective Collaboration among All Stakeholders