Challenge

- Digital 5D process – model to cost: What can we do with the model?

Solution

- Model to cost: cost estimation by iTWO

Project

TU Munich Electrical Engineering and IT Faculty Building
Garching, Germany; Area GFA 19,165 m²

The university and research center in Garching is considered to be the largest research campus in Europe. The “campus in the green” is located to the north of Munich between the city center and the airport.

The masterplan “Science City Garching” from 2014 envisages massive expansion and is the basis for the new electrical engineering and information technology faculty building, which is relocating from the city center to Garching. The rectangular construction site is surrounded on all sides by streets. The new building is the first extension of the TU Munich on the fields to the west of the floodplains.
Integration of iTWO into the Architectural Practice

iTWO Success Story: HENN

Accuracy in cost estimation: being able to drill down the cost elements to every single object.

More transparency in internal communication as well as communication with clients.

“We have a lot of benefits from iTWO. The first benefit is the transparency it gives us during the process, so now we have a structured process of handing over the data and we have a lot of transparency when it comes to the cost estimation. It’s connected to the model, we can really drill down our cost and we can see the impact of changes directly in the model. Another aspect is that we are able to better communicate with all the other participants, even the client, we can really show him where the cost is connected in the model, that’s a big benefit for us.”

- Mr. Thomas von Küstenfeld
Head of Design Systems, HENN

Outcomes

iTWO Implementation

TU Munich Electrical Engineering and IT Faculty Building
Cost Estimation with iTWO

With this project, HENN first made the model in Revit, and then seamlessly transferred the model data directly into iTWO with all the cost elements. iTWO supports very precise detailed cost estimation in the early stage of the project. The team uses a lot of cost types so the cost estimator can see where the cost in the model is. The color functionality in iTWO helps the team to make the real connection between the models. A big advantage for the team is that they can now drill down the cost elements to every single object and see where the cost is allocating from the element. The team now can be more transparent in their internal communication as well as communication with the client.