Heishazhou Waterway Improvement Phase II
buildingSMART Award - Design Category

CCCC Second Harbor Consultants Co., Ltd
Project Overview

Project Construction content:

- Dikes
- Reinforcement works
- Navigation aids facilities.
Establishing accurate three-dimensional terrain by means of multi-beam and UAV, which provides accurate positioning for newly built buildings and improves collaborative capability.
Riverbed evolution analysis (SA) based on historical riverbed topographic data in LandXML format
With UAV and data in LandXML format, there is no need for all designers to go to the site at the design stage, only 3 people are needed. It saves about 60% of the time and cost of reconnaissance.
The BIM model is established and exported to IFC format. Then IFC files are imported into the finite element software for hydraulic calculation. It avoids the problem of repeated modeling and introduces the calculation time of 30%.
Thank You