Postprint: Application of BIM Technology in the Lekki Deep-Water Port Design Project, Nigeria

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Date: 2017-12-21T00:00:00+00:00

Abstract

To address the challenges of multi-disciplinary coordination, tight schedules, and high difficulty during the design process of the Lekki Deep Water Port project in Nigeria, this study investigates the application of BIM technology in collaborative design for port engineering. Utilizing the Autodesk Vault platform to integrate multiple software and file formats for collaborative design, the following conclusions are drawn: BIM technology in port engineering can enable collaborative design, pipeline integration, and detailed design, effectively improving the quality and efficiency of port engineering design, reducing issues such as errors, omissions, and clashes during the design process, thereby reducing project costs, and representing the main direction and trend of technological development in port engineering.

Full Text

Preamble

Note: Figure translations are in progress. See original paper for figures.