

Postprint: Full Lifecycle BIM Application in the Relocation and Technical Renovation Project of Fuling Branch Factory, Chongqing Tobacco Industry Co., Ltd.

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Abstract

The relocation and technical renovation project of the Fuling Branch of Chongqing Tobacco Industry Co., Ltd. is located in the Lidu Industrial Park, Fuling District, Chongqing Municipality. During the design phase, the project employed Building Information Modeling (BIM) and simulation analysis technologies to effectively validate and optimize the design scheme. Through three-dimensional integrated pipeline design, it reduced rework and waste caused by pipeline conflicts and collisions. During the construction phase, BIM-based construction simulation and coordination effectively enhanced communication and coordination efficiency and elevated project management standards. Upon project completion, a self-developed visual three-dimensional information system platform based on the as-built model was installed and deployed across various workshops of the factory, achieving the transmission and sharing of construction data. The platform is gradually demonstrating its value in factory operations and has established a solid data foundation for subsequent digital factory construction.

Full Text

Preamble

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