

User name: WISDRI Engineering & Research Incorporation Limited

Project name: Wuhan Gaoxin 4th Road comprehensive reconstruction project

Location: Wuhan, Hubei, China

Background:

- To accelerate the development of Wuhan New Town into a world-class scientific and technological innovation center, a new 12.5-kilometer road will be constructed, becoming the main gateway between Wuhan and Wuhan New Town.
- This road will feature eight lanes in both directions, an auxiliary road with four lanes in both directions, three bridges, and 2.1 million cubic meters of earthwork.

Challenges:

- Project required working within a complex, limited site environment, while coordinating numerous stakeholders, and adhering to high standards of quality.

Solution:

- ProjectWise helped quickly deliver information among the team and stakeholders, then they deployed iTwin and Bentley Open applications to create 3D models and refine all aspects of the project.
- WISDRI plans to use the digital model to manage the entire lifecycle of the road.

Outcomes:

- Bentley applications provided design efficiency through 3D modeling.
- Improved design efficiency by 25%, lowered costs by CNY 60 million, and eliminated 25 days of construction.

Quote: “With Bentley, we realized the digitalization of the whole stage of the design, procurement and construction of the project, improving the efficiency and quality of the implementation of the project. At the same time, Bentley’s digital achievements also helped us to expand more digital applications, making it possible for the digital management of the whole life cycle of the project.” – Haojun Zhang, Chief Engineer, WISDRI Engineering & Research Incorporation Ltd.

Image caption/courtesy 1: WISDRI constructed a new 12.5-kilometer road to become the main gateway between Wuhan and Wuhan New Town. *Image courtesy of WISDRI Engineering & Research Incorporation Limited.*

Image caption/courtesy 2: They deployed iTwin and Bentley Open applications to create 3D models and refine all aspects of the project. *Image courtesy of WISDRI Engineering & Research Incorporation Limited.*

Image caption/courtesy 3: Going digital helped them improve design efficiency by 25%, lower costs by CNY 60 million, and eliminate 25 days of construction. *Image courtesy of WISDRI Engineering & Research Incorporation Limited.*

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