

User name: Guangdong Airport Authority

Project name: Digital innovation application of Guangzhou Baiyun International Airport phase III expansion project

Location: Guangzhou, China

Background:

- The Guangzhou Baiyun International Airport phase III expansion project is the largest reconstruction and expansion project in the history of the Chinese civil aviation airport construction.
- The CNY 53.77 billion project will increase passenger and cargo volume by 50% and 52%, respectively.

Challenges:

- Managing a large, complex project that included two new runways, a new terminal, expansion of an existing terminal, and a comprehensive transportation center.
- The existing airport infrastructure had to remain in operation.
- Guangdong Airport Authority faced a tight deadline.

Solution:

- Bentley applications established digital construction methodology for the complex project.
- 3D models of the project enabled teams to adhere to national standards for project qualities.

Outcomes:

- Going digital helped teams improve design efficiency by 35%.
- Data management combined with digital construction rehearsals improved construction efficiency by 25%.
- Enhanced collaboration helped to detect and resolve 3,200 clashes early in development, saving CNY 15 million in potential rework.

Quote: "The in-depth development of a model using Bentley's technology enhanced efficiency and improved quality, effectively improving the application effect of intelligent construction in airport projects."— *Wang Jianyu, Section Chief of the BIM General Contracting Unit, Guangdong Airport Authority.*

Image caption/courtesy 1: Guangdong Airport Authority undertook the largest airport expansion in China's history. *Image courtesy of Guangdong Airport Authority.*

Image caption/courtesy 2: Bentley applications established digital construction methodology and deliver the complex project. *Image courtesy of Guangdong Airport Authority.*

Image caption/courtesy 3: Enhanced collaboration detected and resolved 3,200 clashes early in development. *Image courtesy of Guangdong Airport Authority.*

For more information, please contact Bentley PR at PR@news.bentley.com.

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