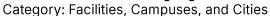
2024 Year in Infrastructure and Going Digital Awards





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.