WORK SMARTER, NOT HARDER
WITH DIGITAL TWINS

Bentley

Discover how you can connect the physical and virtual worlds with digital twins to better plan, design, build, and operate rail and transit networks.
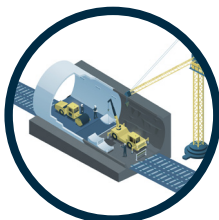
PLANNING
- Assess and understand existing conditions
- Manage and mitigate risk
- Understand financial impact early

DESIGN
- Streamline collaboration
- Reduce risk, project costs, and delays
- Optimize design alternatives

CONSTRUCTION
- Enable right-first-time construction
- Increase safety and efficiency
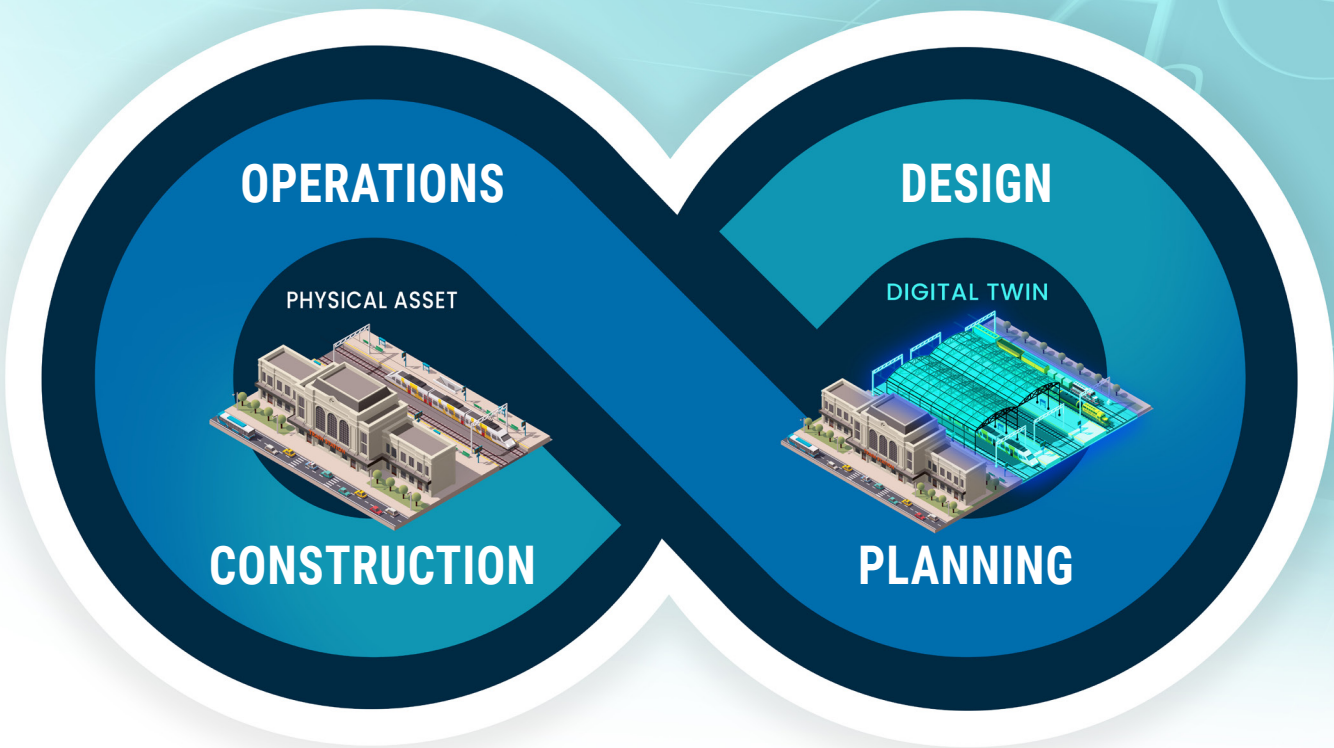- Optimize communication and coordination

OPERATIONS
- Perform the right work, in the right place, at the right time
- Reduce operational costs and unplanned downtime
- Ensure regulatory compliance

WHAT IS A DIGITAL TWIN?

A digital twin is a digital representation of a physical asset, process, or system, as well as the engineering information that allows us to understand and model its performance.

OPERATIONS

DESIGN

PHYSICAL ASSET

DIGITAL TWIN

CONSTRUCTION

PLANNING

Throughout the lifecycle of an asset, a digital twin helps you to:

Understand existing conditions.
Improve and accelerate design and construction workflows.
Visually enhance collaboration.
Increase asset reliability and performance.

BIM & DIGITAL TWINS HELPED NETWORK RAIL REDUCE DESIGN TIME **BY 50%** AMID PANDEMIC LOCKDOWN

DIGITAL TWINS SAVED GBP **1 MILLION** IN 6 MONTHS ON THE TRANSPENNINE **ROUTE UPGRADE**

PT WIJAYA KARYA LEVERAGED **DIGITAL TWIN** TECHNOLOGY & SAVED **USD 185M** IN CONSTRUCTION COSTS

SMRT TRAINS **CUT HUNDREDS** OF MANUAL PLANNING, SAVING APPROX. **20 MAINTENANCE** TRAIN DEPLOYMENTS ANNUALLY

Bentley Systems offers a comprehensive software portfolio for your rail and transit projects to cover the entire lifecycle of your asset, from planning to operations

To Find Out More ...

Download eBook >

Bentley