

WORK SMARTER, NOT HARDER WITH DIGITAL TWINS



Discover how you can connect the physical and virtual worlds with digital twins to better plan, design, build, and operate rail and transit networks.



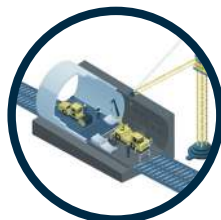
PLANNING

- 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

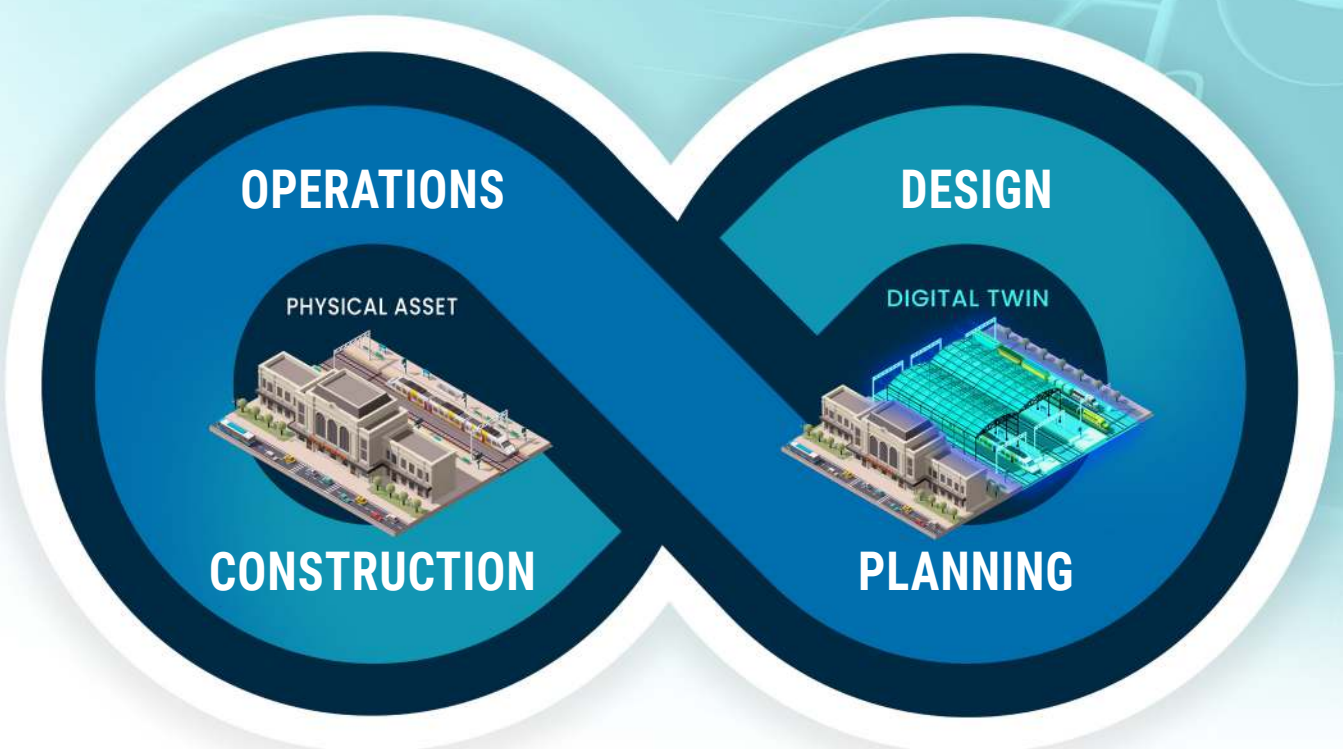


OPERATIONS

- 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.



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 ...

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