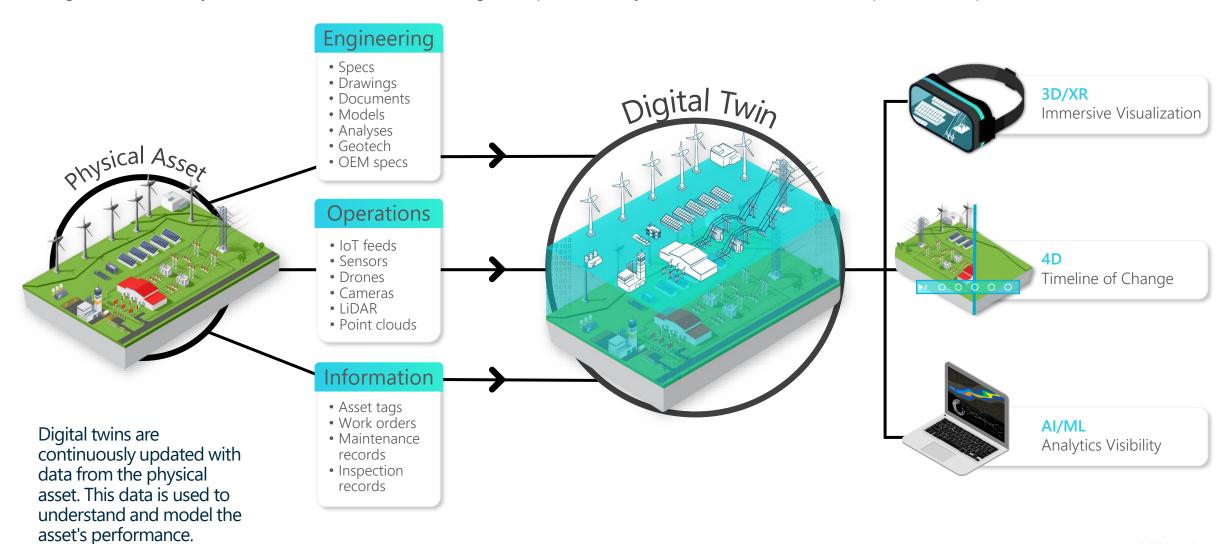


Why Digital Twins?

Digital twins enable you to visualize the asset, track change, and perform analysis to better understand and optimize asset performance.







Digital Twin Solutions

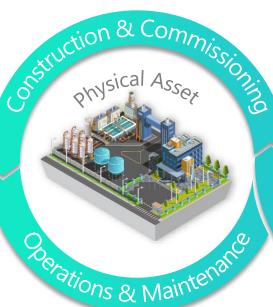
Digital twins enable you to visualize the asset, track change, and perform analysis to better understand and optimize asset performance throughout the entire asset lifecycle.

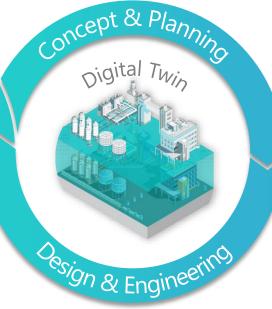


- · 4D construction modeling
- Simulate logistics
- Track progress / status

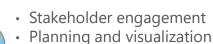


- HSSE training
- Operator training
- Remote inspection
- Leak detection
- Corrosion detection
- Maintenance planning
- Shutdowns
- · Verify before execution









Design collaboration



Forecast 26.4% Compound Annual Growth in the use of Digital Twins for the Built Environment and Construction through 2026 - Frost & Sullivan





iTwin platform provides the foundation for creating infrastructure digital twin solutions enabling Bentley, engineering firms, strategic partners, integrators and independent software vendors to bring digital twin solutions to market.

The platform takes care of back-end concerns such as security, infrastructure, and data integration so that developers can focus on bringing solutions with digital twin business value and workflows to market faster.



iTwin Platform APIs

Services for building iTwin Powered apps targeting Infrastructure Digital Twins workflows



iTwin.js

Open-source libraries to create and visualize Infrastructure Digital Twins



iTwin Extensions

Pre-packaged libraries to expand the capabilities of iTwin Powered **Applications**



Disparate Data

Engineering Data

2D, 3D & 4D Design Models, Drawings, Analysis, Specs



Reality Data

Photos, Videos, Points Clouds



Sensor Data

IOT, IIOT, Other Time Series



Enterprise Data

APM, ERP, EAM, ALIM



Geospatial Data

GIS, Maps, Terrains, TINs



Geotechnical Data

Soil boring logs, Foundations, Compliance



Schedule Data

4D Schedule integrated with models



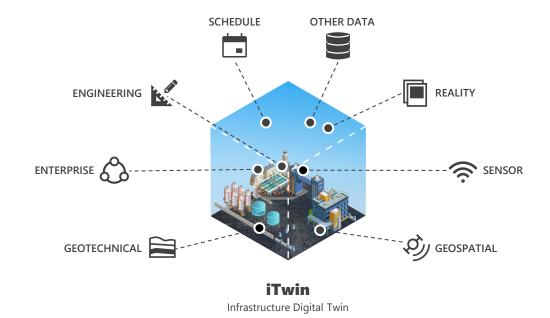
Other Data

Open & extensible For integration with Data sources



iTwin Platform

PaaS Services and Open-Source Software Components



You Develop

YOUR OWN APPLICATIONS

Powered by iTwin

Web, Desktop & Mobile Apps

W Unreal Apps

Unity Apps

Application Extensions

Automated Workflows Agents

EXTEND BENTLEY APPLICATIONS*

You leverage the same platform that Bentley uses for its own Powered by iTwin applications.

Your extensions can run in these apps, and others' extensions can run in your apps.

PlantSight

Synchro

Design Review

OpenCities

*Support for extensions coming soon

CONNECT

Spatial Alignment

Semantic Alignment

Continuous Synchronization

ENHANCE

- Validation
- Augmentation
- Object RecognitionData Transformation
- Indexing

Change History

LEVERAGE



Events



Q Search

Reporting & Analytics

Data Integrations & Export

Sensor Dashboards & Alerts

Query / Visualize Change History

iTwin Platform

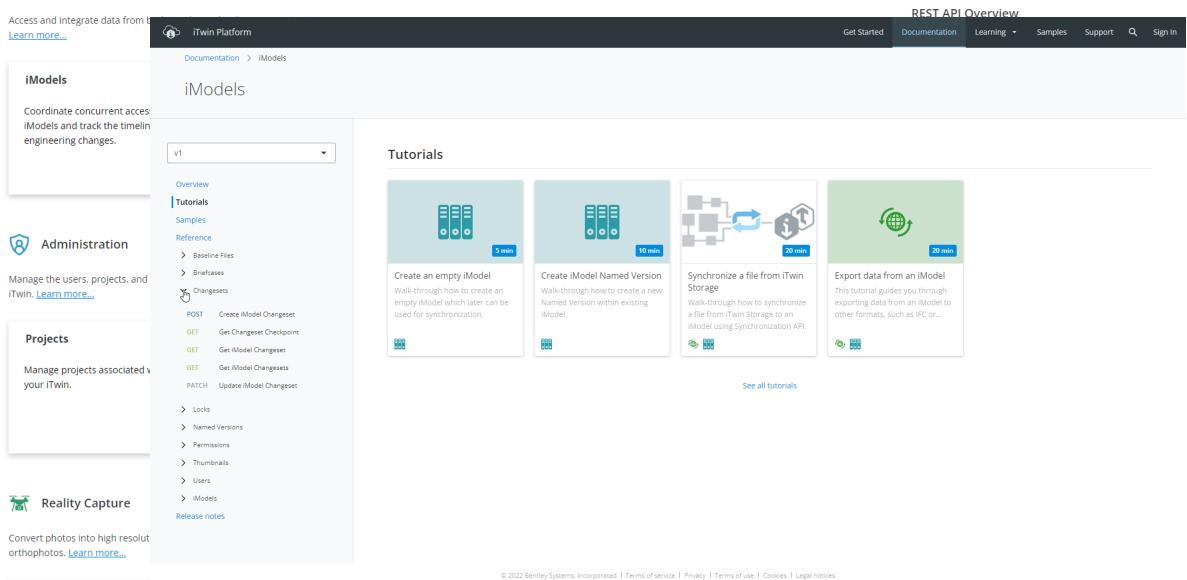
Get Started

Documentation

Learning 🔻



Digital Twin Management





ContextCapture



What are developers building with iTwin Platform?



Connectors Align data and detect changes



Agent Subscribed to iModelHub events





Interactive Web Frontend



Interactive Web Backend





Integrations with **Game Engines**



Native Application (Frontend + Backend) Desktop/Mobile



