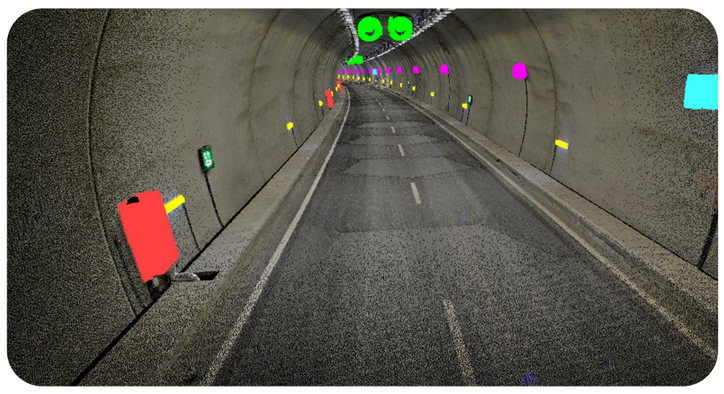
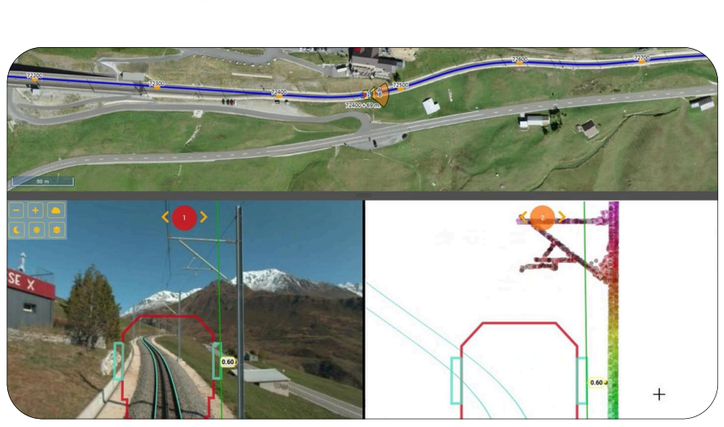
Gaussian splatting reconstruction – Image courtesy of GeoSpatial Integrations LLC (GSI)

iTwin® Capture Cloud Services

A cloud service for reality data management, modeling, and analysis



Analyze point clouds and get 3D features for asset inventory – Image courtesy of Yunex



3D visualization, inspection, clash detection – Image courtesy of Orbis360

As a key component of the iTwin Capture suite, iTwin Capture Cloud Services empowers you to process, analyze, and securely share reality data with your stakeholders. This solution enables continuous survey workflows, ensuring your digital twins are always up to date. Handle even the largest datasets within project deadlines with its scalable architecture.

Centralized reality data management

Manage all your reality data projects, from a single site to an entire city, in a secure and scalable cloud environment. The service supports the import of various data types, including images, point clouds, and videos. With data that is always available and securely stored, you have a single source of truth for all your project stakeholders.

Flexible and scalable processing

Handle huge datasets and city-scale models without being constrained by local hardware. Work in the cloud or on-premise based on your needs, leveraging maximum scalability and on-demand processing power to ensure you can meet every project deadline. The service is designed to process limitless amounts of data, giving you the confidence to take on projects of any size.

AI-powered analysis and insights

Leverage AI to automatically detect defects and extract key features from your reality data. This capability transforms raw data into real-world, actionable insights, saving countless hours of manual work. The AI-powered analysis helps you make smarter decisions by identifying critical information that might otherwise be missed.

Seamless and secure collaboration

Eliminate hardware purchases and maintenance costs by providing secure, web-based access to your projects. Manage user roles and permissions to ensure the right people have access to the right data. This allows teams to collaborate seamlessly and securely on any project, from any device.

Automate and customize with the SDK

Automate your reality data production workflows with a powerful SDK in Python or Typescript language. It allows you to create custom scripts to streamline and accelerate your processes, integrate with other tools, and tailor the workflow to your specific project needs, dramatically increasing efficiency.

Easily scale to thousands and millions of input photos

Analyze photos and get features for defect detection – Image courtesy of Collins Engineers

System requirements

Browser compatibility: Edge, Chrome, Firefox.

iTwin Capture Cloud Services at-a-glance

Data management and accessibility

- Manage reality data projects of any size
- Import various data types, including images, point clouds, and videos
- Provide secure, web-based project access for teams and stakeholders
- Manage user roles and permissions

Scalable cloud processing

- No requirements for high-end, specialized local hardware
- Process limitless datasets in a secure and scalable cloud environment
- On-demand processing power as needed

AI and analysis

- Automatically detect defects in assets such as cell towers or roads
- Analytics tools can generate insights from raw data
- AI can extract features and classify assets

Automation and customization

- Python or Typescript SDK for automating workflows
- Integrate with other tools and tailor workflows to specific project needs
- Create custom scripts

Find out more at Bentley.com
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