

# SYNCHRO: The Digital Construction Platform

## Visual Construction Planning and Operations

## SYNCHRO

### CONNECT Edition

A Construction Project involves the coordination of people, materials, and equipment in a dynamic and ever-changing workspace. Using paper, spreadsheets and Gantt charts is longer enough. An integrated, digital solution for planning and executing complex construction is needed.

The SYNCHRO Digital Construction Platform provides that solution. With SYNCHRO, construction projects are augmented with 4D digital information throughout the entire lifecycle of the project, allowing full participation from the supply chain—all in real-time, built on top of Azure Cloud Infrastructure.

#### What is The Digital Construction Platform?

The Platform is a real-time cloud and edge computing solution running on Microsoft Azure Infrastructure that enables digitally enhanced construction planning and operations. A combination of 4D authoring tools and 3rd party apps developed with the SYNCHRO API make it possible to use apps designed for each unique role in the project delivery process; be that planning work sequences, digital rehearsals, or tracking progress in the field.

#### Large Scale Model Performance

- Interoperable with all major BIM and Scheduling formats
- Works from any device, with any size of model

#### Real-time Project Teamwork

- Supply chain participation with real-time data exchange
- Collaborative workflows based on project roles and permissions

#### Project to Portfolio Analytics

- Metrics for real-time visibility into progress and problem areas
- Automated reporting

### Bentley® SYNCHRO Platform at-a-glance:

On-time project delivery

Protects the budget

Ensures quality

Eliminates re-work

Focus on Human Safety

“On a larger scale, the implementation of the 4D on the Santiago Airport Project really brought closer the stakeholders of the project around an interface that was understood by all. The 4D simulation became the common approach for sharing and coordinate all the planning aspects. Thanks to that, the daily work on planning is a lot safer and more efficient as it takes in consideration consistent feedbacks coming from the different actors.”

— Hugues Desclaux, BIM Manager, Vinci Construction Grands Projects

Visualize and manage complexity | Collaborate with the entire team | Analyze data in real-time

# The use of the SYNCHRO Digital Construction Platform is driving continuous improvements at Turner Construction.



## Adopting a digital process change



- Turner construction is using the SYNCHRO Digital Platform on multiple jobsites in New York City for digital progress monitoring in the field.
- The team produces weekly, digital output from data collected with field apps.
- Entire processes manual data entry have been replaced.

## Reducing re-work

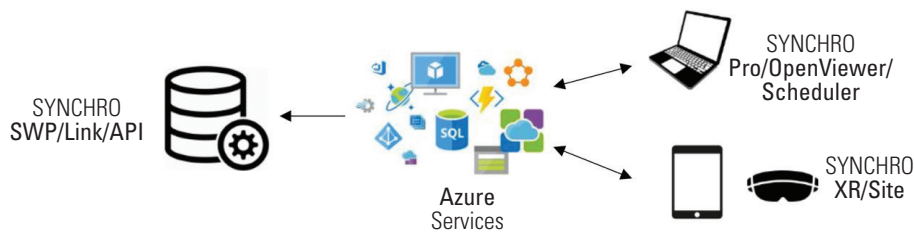


- Reduced time to complete a field inspection by days
- Results are visible in real-time without delay to the entire team
- Successful pilot will leading to roll-out across additional jobsites

## Driving innovation



- Interested in piloting QR code reader for tracking delivery and fabrication
- Driving requirements for integrated PowerBI dashboards
- Testing the use of augmented models with HoloLens on site



## SYNCHRO exists for the construction industry

### Our promise to you

Your data will be secure, up-to-date, and accessible from a range of devices based on roles and permissions.

Partnering with Microsoft means that you are working with best-in-class cloud technology.

### An offer to get you started

- Start with a single project today, then scale up tomorrow
- 24/7 Technical support
- Leverage SYNCHRO Project Delivery Services to get you started
- Run your jobsite with confidence
- Deliver on time and on budget

## Benefits and Outcomes

- Understand what you are building before you build it – **Increase Quality and Knowledge**
- Invite the supply chain to participate – **Create a more engaged project team**
- Leverage custom apps – **Deploy tools that are right for the job**

## Designed for Construction

SYNCHRO is the only platform that interoperates with all major 3D modelling tools and scheduling tools in the market. Deploying this combined into a real-time transactional database and open API running on Azure Cloud opens the door for total participation from the construction supply chain.