CS20921 - Model-Based Layout and Quality Assurance with BIM360 and iCON Robotic Total Stations

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Class summary

- Construction productivity issues can be addressed with solutions such as BIM-to-Field workflows. Yet with so many tools available, defining a process must evolve quickly. This session will demonstrate how PARIC utilizes integrated technology to streamline office-to-field workflows, that increase accuracy and reduce production timelines. We will demonstrate how a broad set of tools are used to collect data, integrate teams, and coordinate work both in-the-field and from the office.
- In addition to reviewing best practices, we will provide a sample workflow to capture "real world" data with Leica iCON robotic total stations, laser scanners, and 3DR drones. Then we will discuss how to process this data for use in virtual coordination and logistics, then route it back to the field for construction purposes.
- AIA Approved

Key learning objectives

At the end of this class, you will understand how to:

- Use reality capture technology to inform project logistics, BIM coordination, and building layout practices
- Leverage Revit models to create layout points
- Share data from office-to-field in a seamless workflow
- Establish best practices for establishing project site controls
- Layout and round-trip as-built data
- Benefit from an integrated approach to technology





Services

General Contractor, Construction Manager, Design/Build, Self-Perform





Hardware





















































REALITY / VIRTUAL / REALITY













Reality Capture

Logistics & Phasing

Coordination

Construction









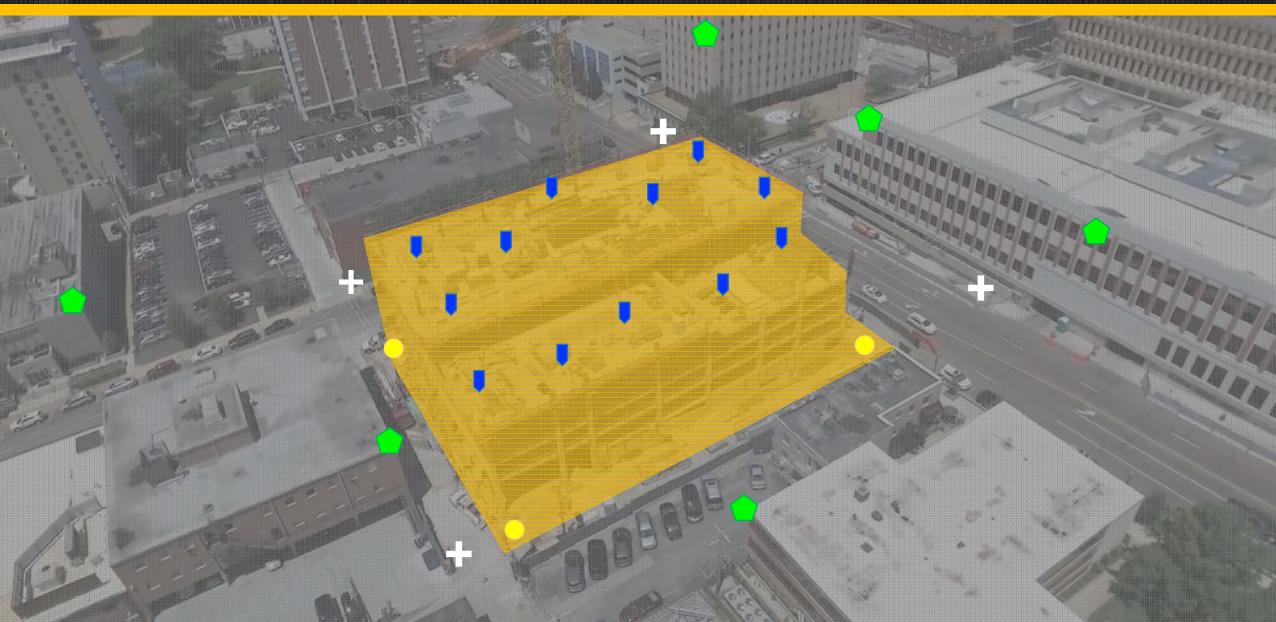




Data Capture – Project Controls







Data Capture - Control for Scanning











Data Capture – Aerial Scanning





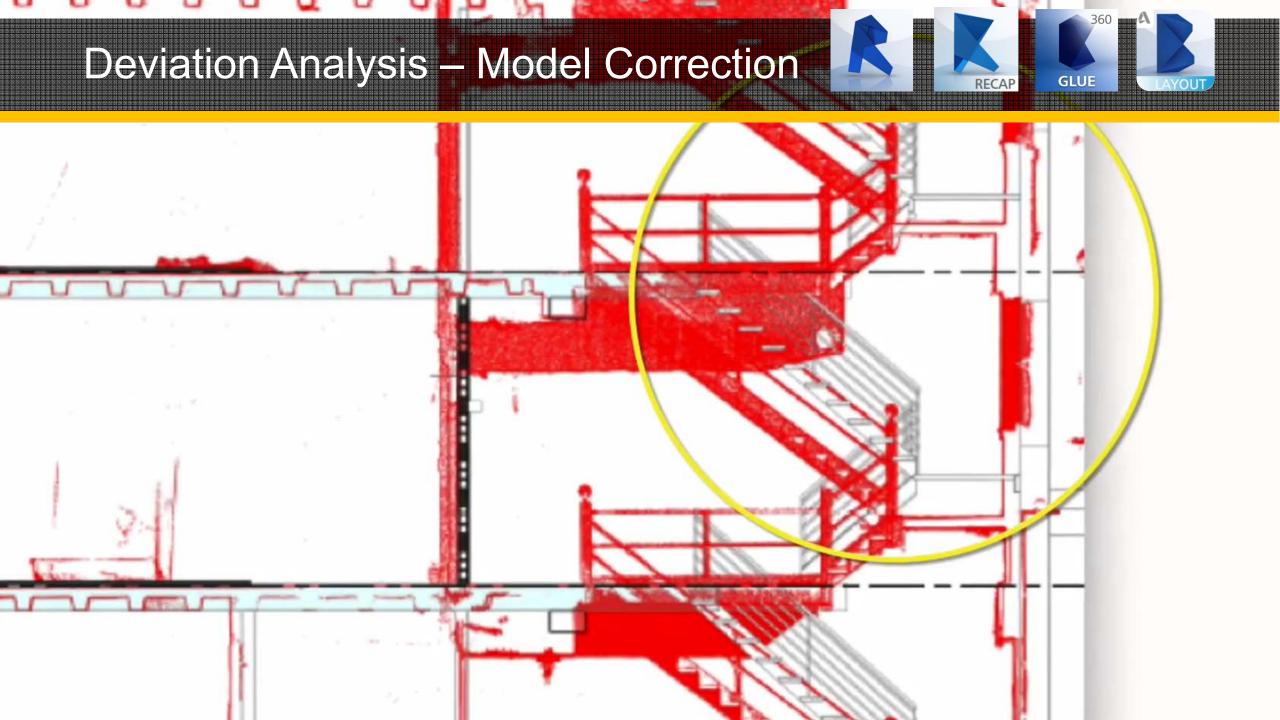








PS PS Logistics - Examples TITTI







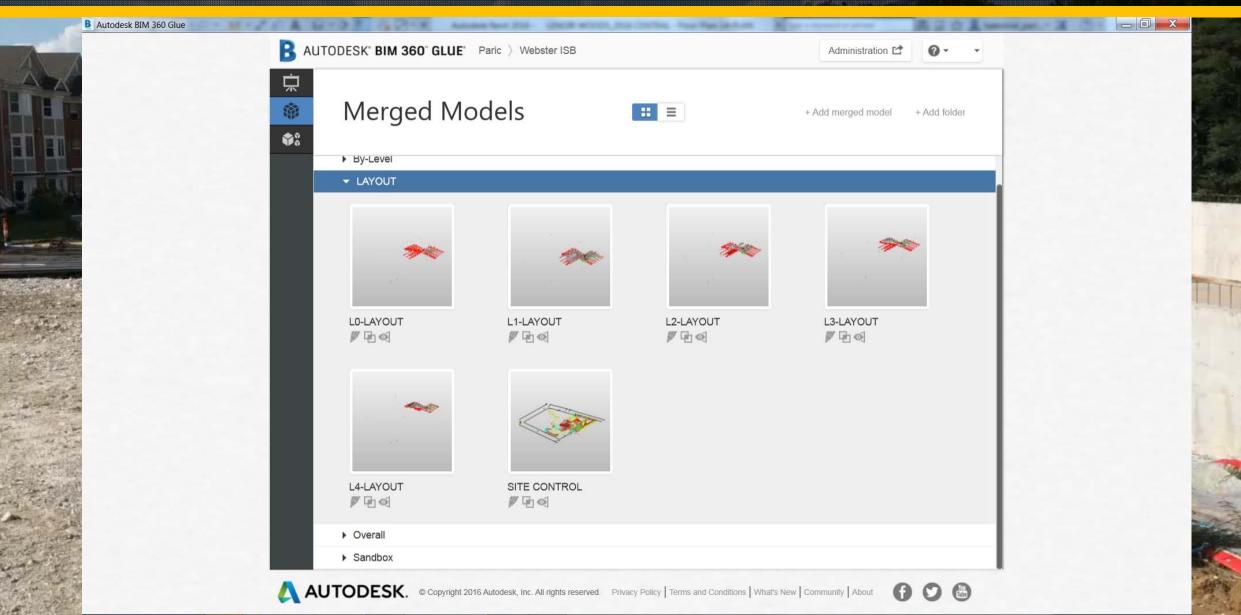
Construction - Layout















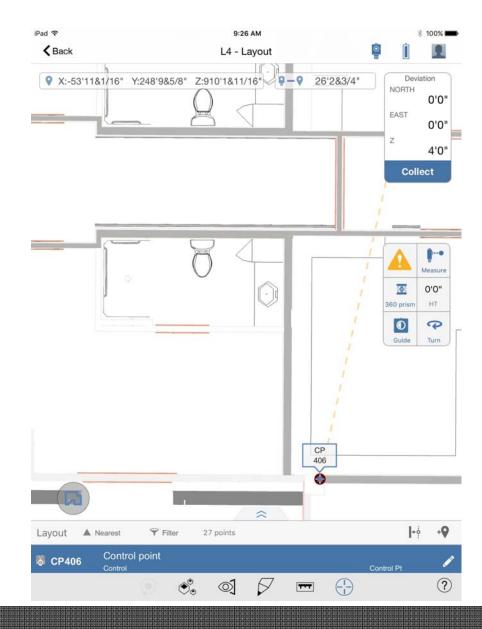


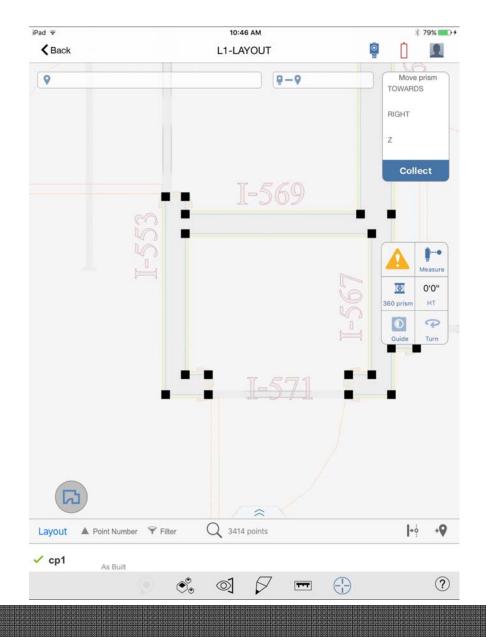






Challenges – Layout & Control





Ongoing Development

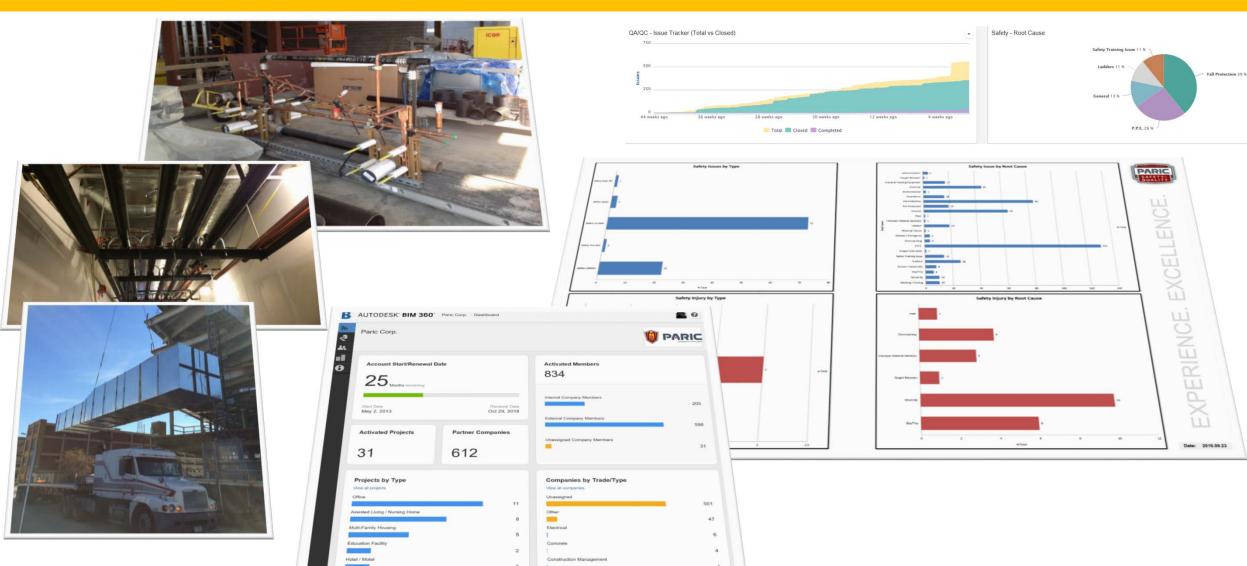
GLUE FIELD LAYOUT DOCS Results

Benefits









Questions?

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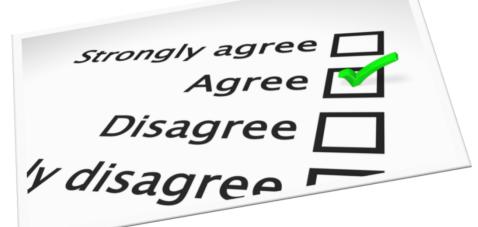
Thank You

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How did we do?

Session CS20921

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