

ADVANCED CONSTRUCTION TECHNOLOGIES

RESULTS + BENEFITS

Technology enables a better way of delivering capital projects, making informed decisions, enhancing collaboration, and producing accurate data. It brings clarity + certainty to the most demanding projects through:

- ▶ Faster precon cycles to better understand cost + schedule
- ▶ Visual planning to support communication
- ▶ Reduced field issues through comprehensive modeling
- ▶ Reduced schedules due to advanced planning + quality management
- ▶ Higher ROIs through technology

AERIAL DRONE IMAGERY

DJI + DRONEDEPLOY

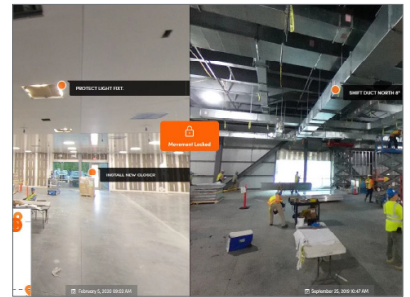
From site selection to ribbon cutting, manage, measure, and monitor projects with drone imagery. Apply technology to create consumable and sharable drone maps, 3D models, and project photos. Utilize advanced aerial photogrammetry to create 3D topography maps providing volumetric analysis for accurate site condition evaluations and measurements.



JOBSITE PHOTO DOCUMENTATION

STRUCTIONSITE

Use standard + 360° photography to capture jobsite progress photos, track installed work, and communicate with teams. Make meetings more efficient by reviewing up-to-date conditions. Walk the jobsite from your phone, iPad, or laptop. Know exactly what's been installed and where. Share PDFs of floor plans linked with respective progress photography that work completely offline.



JOBSITE ENVIRONMENTAL MONITORING

PILLAR TECHNOLOGIES

Full site, 24/7 monitoring for temperature, humidity, carbon monoxide, VOCs, particulates, noise, light, and pressure. Designed to detect unsafe working conditions and potential risks to installed scope in real time. Drill into data by floor or area, customize reporting, and create custom alerts for your mobile device. Create a historical record of the conditions of your project.



TRADE PARTNER SOLICITATION

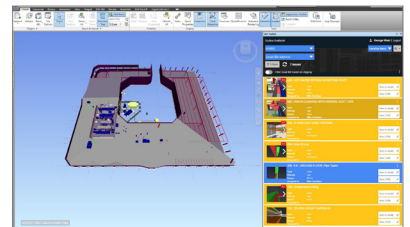
BUILDINGCONNECTED + TRADETAPP

Centralized solution for comprehensive bid solicitation and bid management coupled with a trade partner prequalification tool providing benchmarked contractor financial, capacity, and safety performance reviews to mitigate risk.

3D SYSTEMS COORDINATION + ISSUE MANAGEMENT

NAVISWORKS

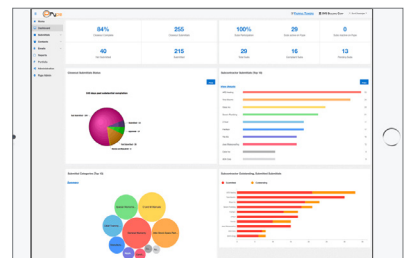
Build your project virtually first, get it right, and then build it in the field. Manage the federated models from designers and subcontractors to identify, track, and report on constructability issues and clashes. Enhance the coordination effort through persistent collaboration focused on identifying real issues and working toward quick, iterative resolutions to safeguard the overall health of the project.



SPECIFICATION REVIEW

PYPE AUTOSPECS

AI that digitally searches specifications to automatically create submittal logs. Use versioning to track changes and compare specs. Provides a single portal for closeout management with powerful reporting dashboards and automation.

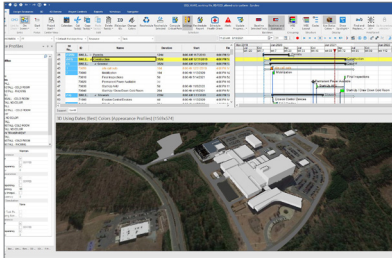


APPROACH

PEOPLE — We have a deep bench of industry-leading, technology-focused experts.

TECHNOLOGY — We provide hand-selected software applications customized for each project.

OPERATIONAL EXCELLENCE — Throughout the project lifecycle, we support collaborative project planning and design considerations through option analysis, financial modeling, and risk management. During preconstruction and construction, we apply advanced systems to serve each project's unique requirements.



VISUAL SCHEDULING + LOGISTICS PLANNING

SYNCHRO

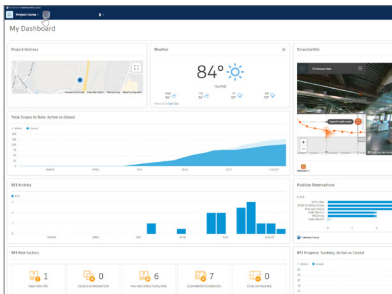
Use project models to create, manage, visualize, and track project schedules. Generate sequence animations, review construction plans, identify opportunities for improvement, simulate construction activities, and optimize project schedules.



REALITY CAPTURE (LASER SCANNING)

FARO

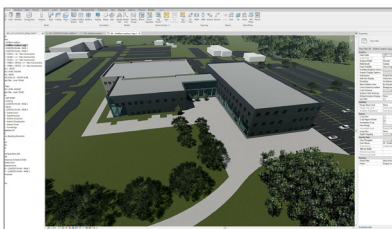
Capture an accurate point cloud to create exact 3D maps of existing conditions, installed work, and as-built conditions. Link point clouds to the project's coordination model to validate design, check floor flatness, verify locations of installed work and equipment, and identify variances. Efficiently correct any issues in the support of overall project quality. Assists with preconstruction, logistics, coordination, installation tracking, and as-built deliverables.



PROJECT DOCUMENTATION + PROJECT MANAGEMENT

BIM 360

A unified construction management platform for all project stakeholders to have easy access to all current project information. Drawings, models, and documents are all stored within the project management system, including QA/QC issue management, RFIs, submittals, and much more. Work proactively, manage quality, automate tasks, control costs, and stay on schedule.



PROJECT 3D MODELING

REVIT + INFRAWORKS

Create 3D models for site logistics, planning, and communication. Generate highly detailed virtual mock-ups to test scope detail and validate installation sequences. Produces detailed digital copy of the project to coordinate systems and resolve issues before field fabrication and installation.



AUGMENTED REALITY (AR) + VIRTUAL REALITY (VR)

ENSCAPE

Communicate design with greater clarity whether in the office or on a jobsite. Helps teams run QA/QC, find coordination issues, and validate designs through the use of immersive + photorealistic digital environments.