

# HELIX Twins: Helping Builders Build Better

HELIX Twins deliver accurate building records fast providing thorough, web-accessible documentation including: pointclouds, 3D photo tours, CAD, PDF & BIM models.

## **Build Better**

Predictability eludes large-scale construction. Change challenges deadlines, performance and profitability.

HELIX RE makes it affordable to avoid and track change in the building process. Builders record and check status with cost-effective 360° photo documentation, laser scanning and conversion to usable BIM models. HELIX enables clear and accurate communications by delivering building data through an intuitive web interface available any time and from anywhere, to all parties involved in planning and constructing a building. Better communication translates to fewer misunderstandings, improved supply chain performance, and early identification and resolution of issues.

## **Check Progress**

Buildings rarely conform to plan. Material costs and availability vary. Mistakes are made. New ideas and solutions emerge and are integrated. Small changes can create large consequences resulting in delays or worse. Once a building is complete, conforming the BIM model to the delivered building adds costs.

Interim project scans address these challenges but take too long, cost too much and are hard to use. HELIX changes that. Within hours contractors have data that tells them what is and what isn't built according to plan. When a change is intentional, the BIM model can be quickly updated and scan and photo documentation can be archived in preparation for future disputes.

## **Document Concealed Elements**

Laser progress scanning and 360° photography provide an archive of the location of elements buried in concrete, hidden behind walls and obscured by dropped ceilings. The HELIX platform provides a place to store and access obscured construction details to simplify bidding on future work, evaluate the difficulty of potential changes and verify that work was done to plan.

### **Communicate Easily**

Incomplete or inaccurate communications waste time and money. The HELIX Twin's simple, intuitive interface to photos, plans and models means communications are more frequent, comprehensive and accurate. More shareable plans mean builders can:

- Reach more potential bidders
- Enable more accurate bids
- Communicate with owners and stakeholders
- Identify and solve issues quickly with more complete visual documentation
- Create a single location for distributing the latest plans and models.

### **Ensure Use of Current Version**

Working from outdated versions of drawings costs time and money. Teams may purchase materials, plan schedules and/or complete work based on out of date documents. The direct cost of rework can be substantial. Hidden costs of subcontractors adding buffer to their bids to account for unexpected surprises is an unnecessary tax on projects. HELIX makes the "right" information simply accessible.

### **Document and Archive Status**

With HELIX Hash™ project documentation, data including laser scans and 360° photos are "time stamped" and archived. Any change to any of the data is easily discovered. The HELIX Hash™ removes uncertainty and provides a defensible record of a project at a specific date and time, simplifying dispute resolution and providing a deterrent to hiding mistakes.

### **Prepare for the Future**

New, data types can be added to the HELIX Twin. The same "data cards" that contain Revit models, AutoCAD plans, PDF plans and point clouds for download can contain any other type of data. More information like drone flyovers and IOT data can be added and made usable to authorized users.

### **HELIX Twins are Fast and Inexpensive**

HELIX makes it easy to create usable, accurate digital twins for building professionals faster and for less than traditional building plans. In just 4 days from entering the building to delivering its Twin, the HELIX reality capture team can digitize 40,000 sft+ of commercial space. Additional footage is delivered even faster at a rate of 40,000 sft per day. The HELIX platform is available as a full-service offering or can be used by either trained employees or third parties.

Costs range from \$.50 per foot to less than \$.20 per foot based on volume, building type and level of detail required. The cost of creating a HELIX Twin is quickly recovered in lower bids, reduced mistakes and improved completion times.