

HELIX Twins: Helping Architects Build Better

HELIX Twins provide comprehensive building information that's thorough, accurate and web accessible including 3D photo documentation, CAD, PDF, BIM downloads.

Build Better

Too often great architectural design is lost to mistakes in construction.

HELIX makes it simple to avoid mistakes by enabling remote project updates and reviews any time, anywhere. HELIX Twins are 360° photos, 3D models and plans built from laser scans. From existing conditions through construction to turnover, HELIX records project status allowing architects, owners and project team members to quickly review the project from a laptop or mobile device without special software.

Monitor Progress

Site visits are time consuming, costly and sometimes not feasible. Fewer or truncated site visits can lead to avoidable problems that cascade into bigger problems. HELIX Twins supplement site visits with accurate, thorough visual documentation delivered through a web interface. Anyone with access privileges can spot issues or easily ask questions of others with shareable photographs, 2D plans and 3D model.

Communicate Easily

Incomplete or inaccurate communications waste time and cost money. With a simple, intuitive interface to building photos, plans and models, communication can be more frequent and more accurate. With a HELIX Twin architects can:

- Reach more potential bidders
- Enable more accurate bids
- Communicate with owners and stakeholders in a more thorough, understandable way
- 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Working from outdated versions of drawings costs time and money and undermines project design intent. Often on large projects a person or a team will purchase materials, plan schedules and/or complete work based on documents that are no longer current. Once work has been completed incorrectly, time pressure on project delivery necessitates incorporating mistakes into the final project design.

By making downloads and on-screen review of the most current information available via a mobile-friendly interface, all parties know that the “right” information is always accessible. Ensuring availability of correct design and construction drawings clarifies responsibility and provides a powerful disincentive to stray from intended design.

Document and Archive Status

With HELIX Hash™ project documentation data including laser scans and 360° photos are “time stamped” and archived. A unique hash is created from the stored assets and registered in a blockchain. 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 masking mistakes.

Prepare for the Future

New, useful data types can be added to the HELIX Twin. HELIX “data cards” that contain Revit models, AutoCAD plans, PDF plans and point clouds for download can contain any type of data. Additional information like drone flyovers and IOT data can be easily added and made usable to authorized users.

HELIX Twins are Fast and Inexpensive

HELIX creates digital twins for architects and project managers faster and for less than traditional plans. In just 4 days from entering the building to delivering its HELIX Twin, our reality capture team can digitize 40,000 sft+ of commercial space. Additional square footage is 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 time to market.