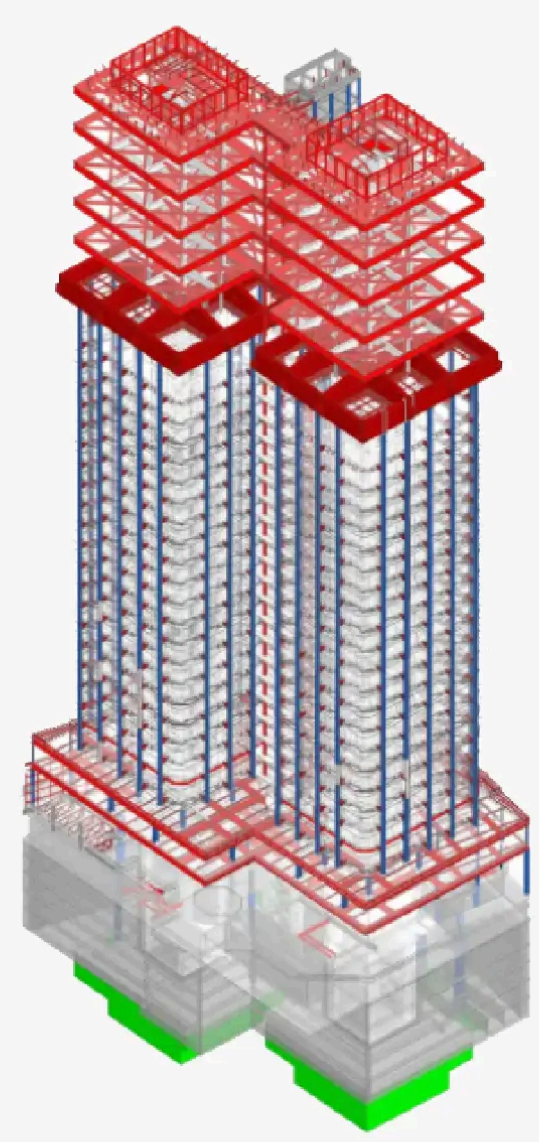


Structural Scan to BIM for Twin Towers of an Office Building



Project Details

- 📍 **Location**
Spain
- 🏗️ **Project Type**
Structural BIM and Scan to BIM
- 🏠 **Type of Building**
High-rise Office Building
- 🛠️ **Software**
Autodesk Revit
- 📏 **LOD**
300
- 📐 **Total Area**
12,363 sq. m

Project Overview

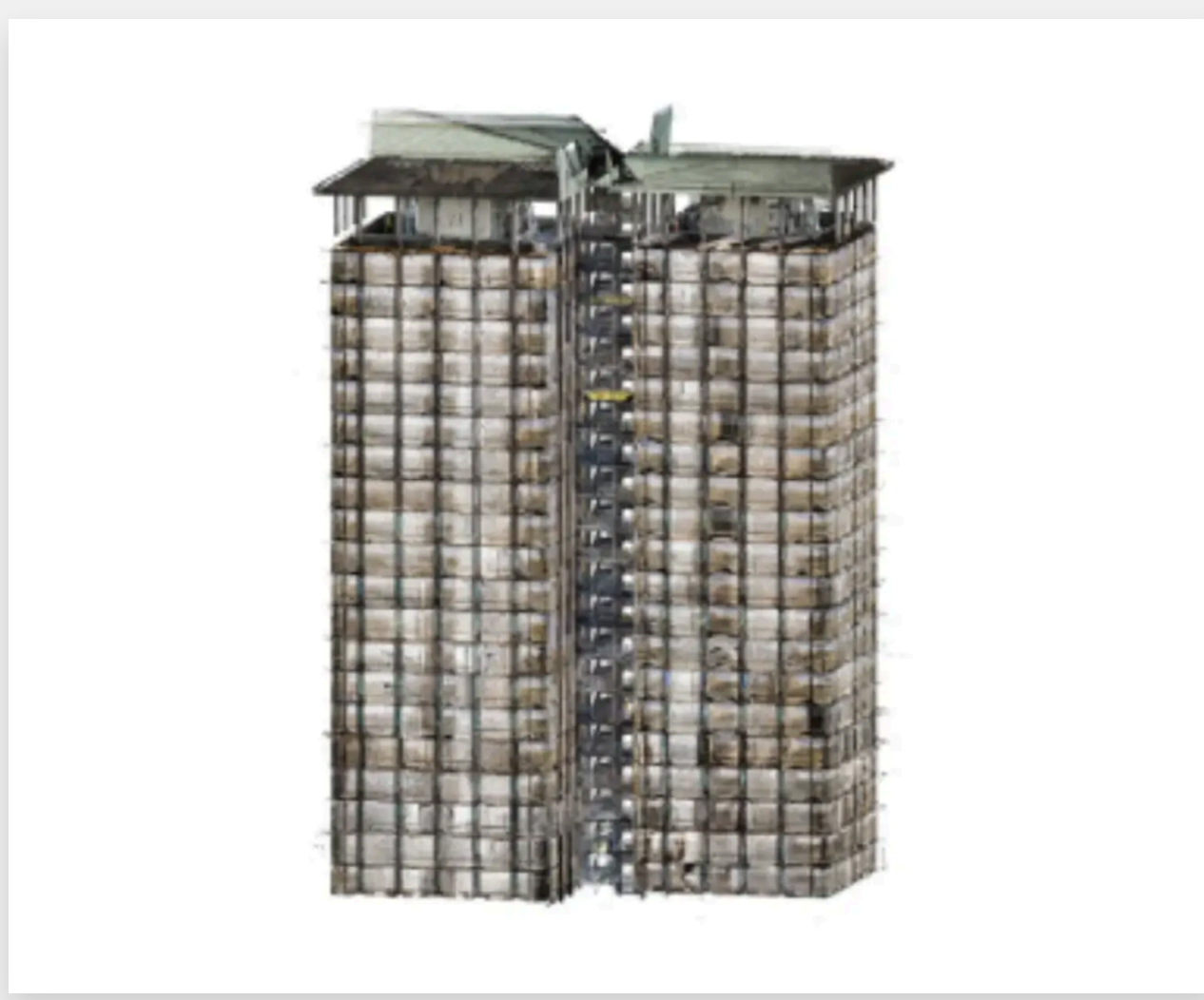
This project involved transforming point cloud data into a **precise structural BIM model** for the twin towers of a high-rise office building. The objective was to update the existing structural model using laser scan data and CAD plans supplied by the client. The final BIM output was developed at LOD 300, ensuring a detailed representation of structural components aligned with actual site conditions.

Client Summary

"The client for this engagement was a surveying company based in Spain, Europe, which provided CAD plans, dual tower scan data, and a scope document that outlined specific standards for model update and development."



Scope of Work



The **structural scan-to-BIM process** included comprehensive modeling of all primary structural elements based on point cloud and CAD inputs, including:

- Floor and roof slabs
- Tie rods with associated columns and beams
- Cores incorporating structural walls, staircases, and elevator shafts
- Beams and columns across both towers

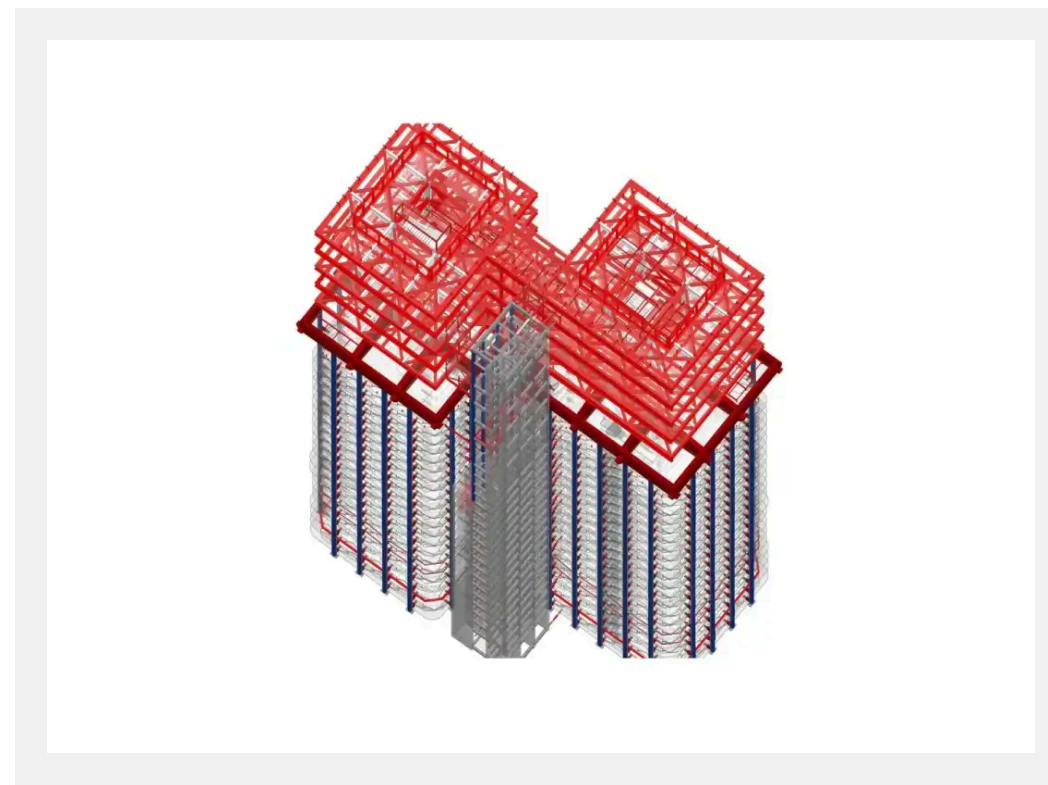
The team captured these elements accurately within a Revit environment, producing a coordinated structural model fit for further design, analysis, and documentation.

Outcome

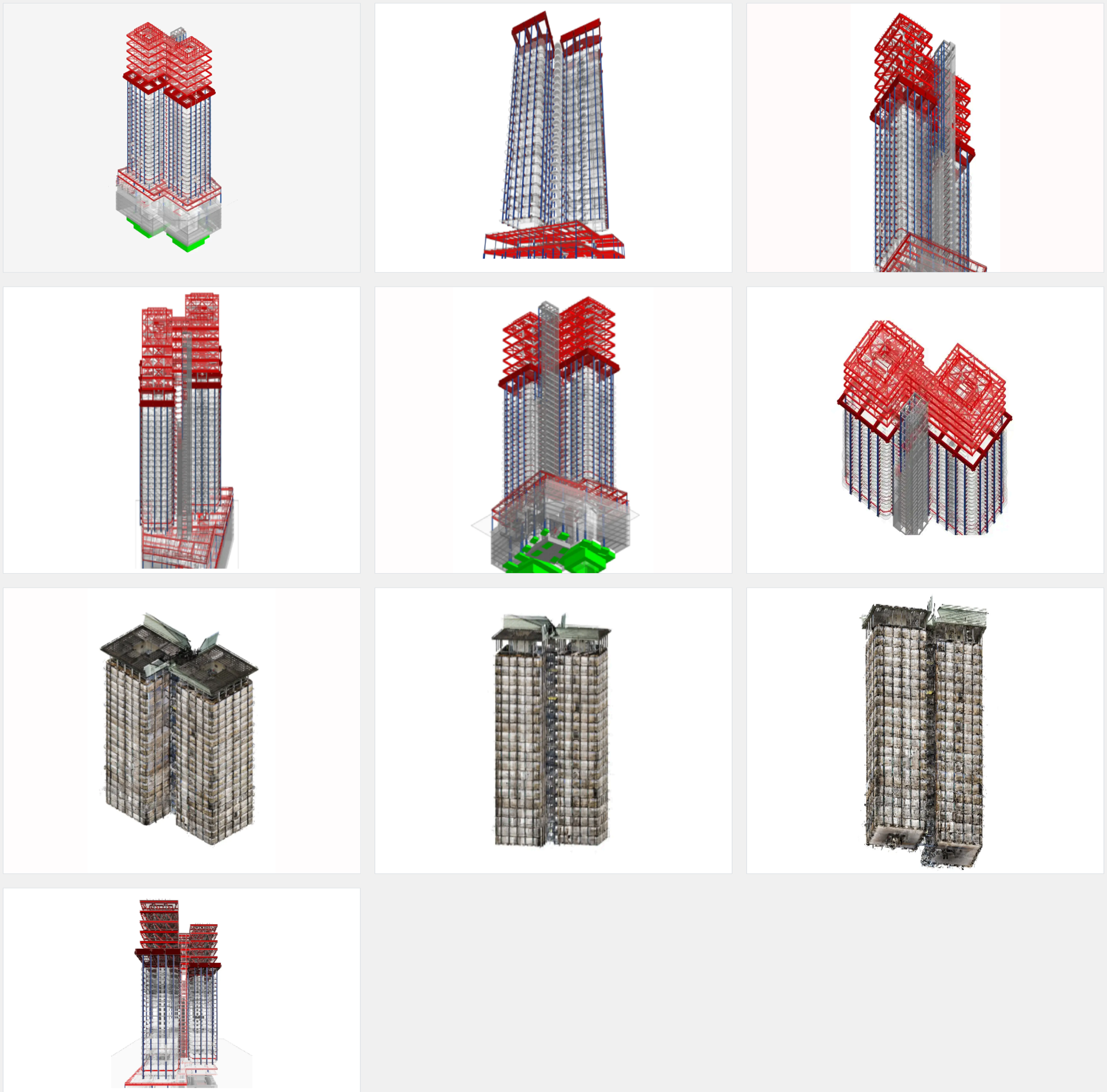
The delivered BIM model provided the client with an updated structural digital asset that reflects actual scanned conditions. This enabled accurate structural analysis, design verification, and facilitated downstream workflows such as documentation, coordination with other disciplines, and retrofit planning.

Project Deliverables

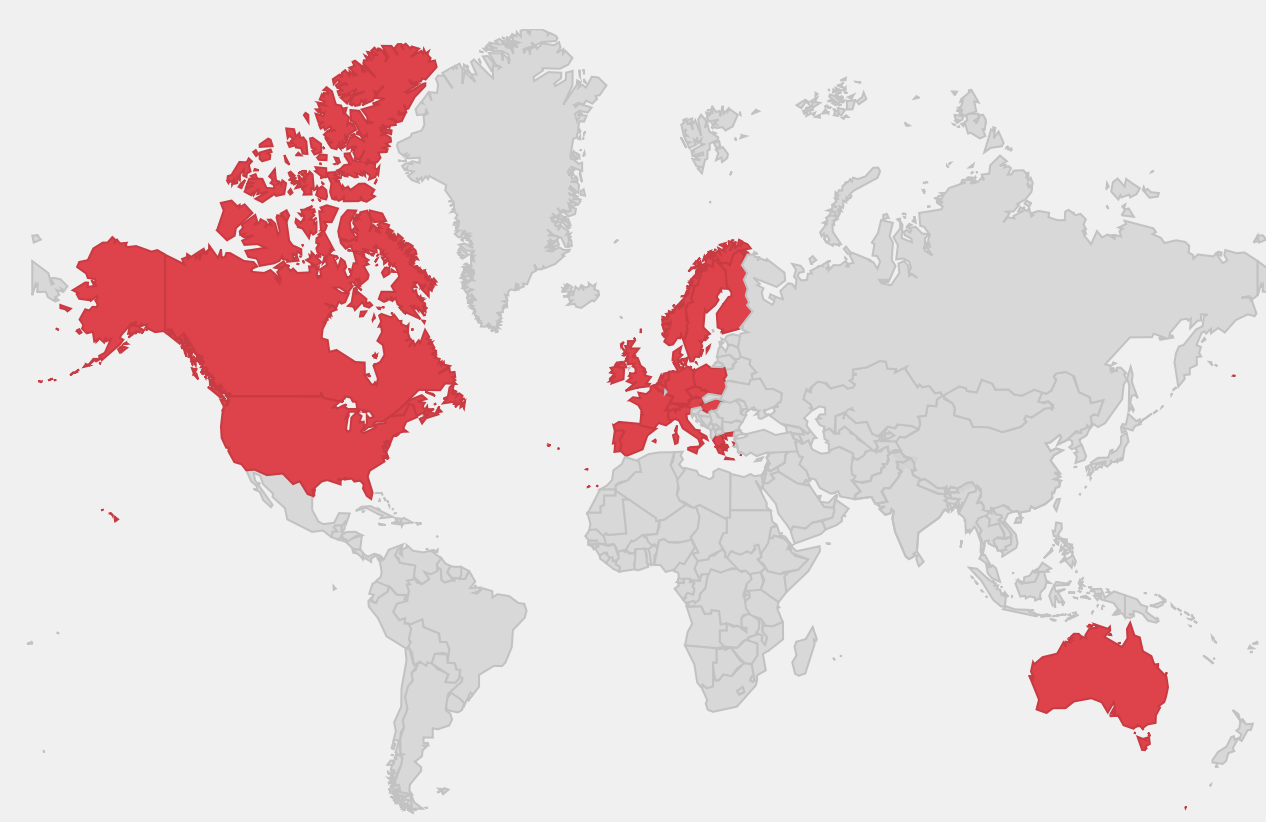
High-quality 3D REVIT structural BIM model aligned to point cloud scan data.



Project Gallery



We Serve Globally



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