



REVIT ARCHITECTURE

A Case Study



CHALLENGES:

- The building had slanted walls & also wall had irregular shapes of wall, modelling was done using mass in place.

INTRODUCTION:

The objective of the project was to generate BIM Modeling using Laser Scanner Point Cloud Data. The BIM model is to be generated for the Documentation and Presentation purpose.

KEY ASPECTS:

- The Building is to Surveyed and Documented.
- 3D LOD models.

METHODOLOGY:

- After the Building is scanned, The Registered Point cloud data is given by Client in pts \ e57 \ las \ Imp \ rcs \ rep format.
- Then the raw point cloud data is Pre-Processed using Registration software.
- The final Registered Point Cloud Data will be the Input Data for BIM modeling.
- Using the Registered Point Cloud Data the Database is created.
- Then the BIM model is generated from the INPUT DATA using Revit Software.
- As per the client requirement, The Level of detailing is divided as LOD100, LOD200, LOD300, LOD400 & LOD500.
- The detailed BIM model will be done by using Revit software as per the point cloud.
- Once the model is completed, it will be sent for quality checking before it delivered to the client.

TECHNOLOGY:

- Revit
- Leica Cyclone
- Autodesk recap
- Navisworks

Head Office:

Layer Informatics Pvt.Ltd.
#48/49, Sathyams, 3rd Floor,
9th Cross, Sarakki Main
Road, J.P Nagar, 1st Phase,
Bangalore-560078.



REVIT ARCHITECTURE

Page 2



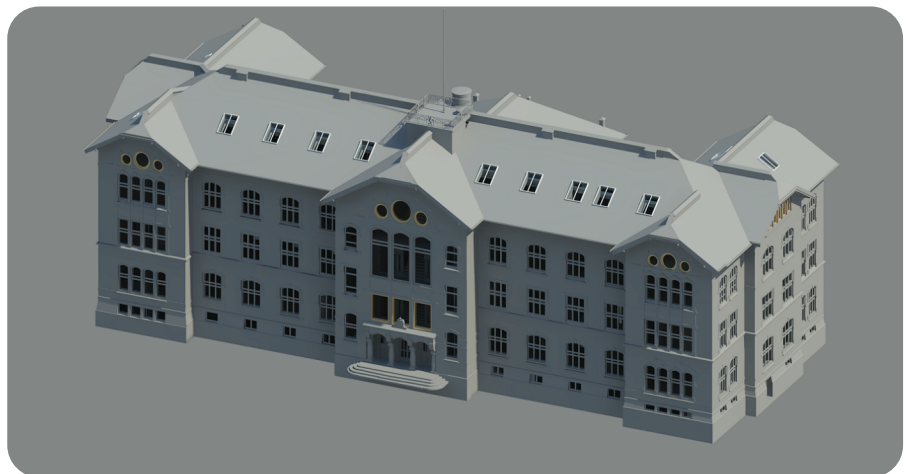
DELIVERABLES:

- 3D LOD models in .rvt revit format.

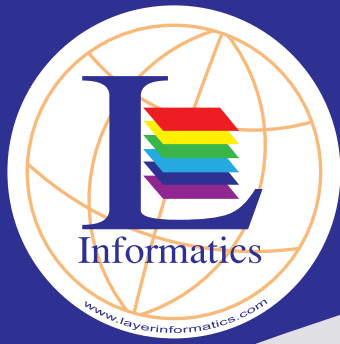
APPLICATION:

- Enhances the efficiency and accuracy of existing conditions documentation.
- Provides an accurate representation of work that has been put into place.
- Real-time quantity verification for accounting purposes.
- Use for visualization purposes.
- It helps in future 3D BIM design coordination for renovation.
- Improve documentation of environment for future uses, e.g., renovation or historical documentation.
- Provide the owner with an accurate model of building, equipment, and spaces within a building to create possible synergies.
- Easily assess client requirement data such as room areas or environmental performance to as-designed, as-built or as-performing data.

SCREEN SHOTS:

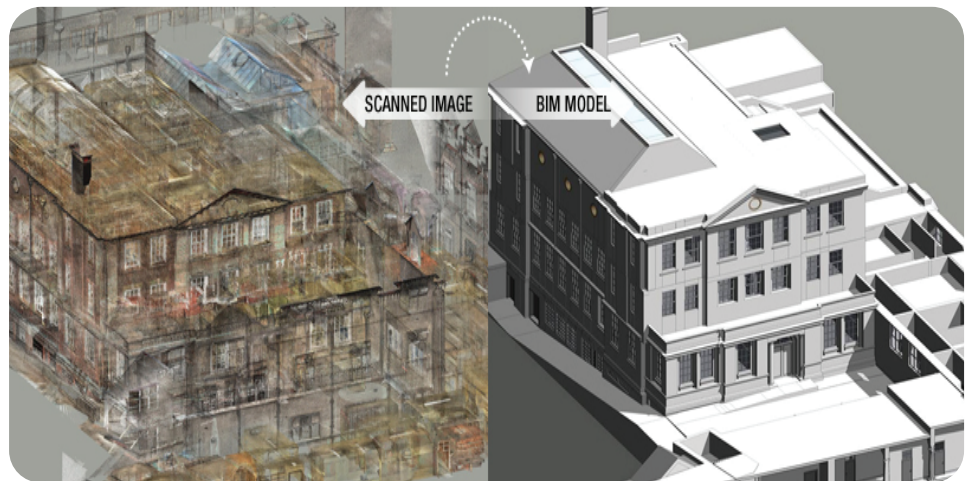


UK Office:
Edinburgh EH2 4AT,
Scotland, UK.



REVIT ARCHITECTURE

Page 3



US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



Layer Informatics Pvt. Ltd.
Vision Through Mapping