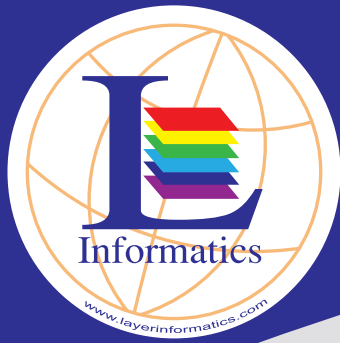




2D BUILDING CAPTURE FROM OBLIQUE IMAGERY

A Case Study



CHALLENGES:

- Analyzing & classifying the Buildings based on the roof type with reference to the Aerial Imagery was very challenging.
- The Buildings were clustered together which made building roof extraction a tough task.
- Attributing the EAVE_HT and RIDGE_HT to each Building with reference to Pictometry oblique imagery was also challenging.

INTRODUCTION:

To construct a Built Environment Model dataset containing attribution that can be utilized in a range of applications.

KEY ASPECTS:

- Compilation of Building Eaves & Ridges.
- Classification of Building Eaves.
- Attribution of Building Eaves & Ridges
- Topology
- QC/QA

METHODOLOGY:

➤ Data Capture

Building & Roof break lines were captured at right angles closed rectilinear planar geometry, depicting the outermost recognizable extents of a structure an area greater than 10m2 will be carried out by monoplotted from ortho-rectified mosaics produced from Pictometry imagery and were classified according to the type of building.

➤ Attributions

Building Id, Block Id, Roof type, window type, Architecture type & Eave height information was attributed to the data with the help of client provided plug-in.

➤ Topology

Data Cleanup & Topology checks were done on the entire data.

➤ QC/QA

A QC checklist (Geometry, topology, Positional Accuracy & Attribution etc) was prepared to assess the Mapping quality. A random QA was performed to make sure the data was as per the acceptance criteria provided / defined by Client.

TECHNOLOGY:

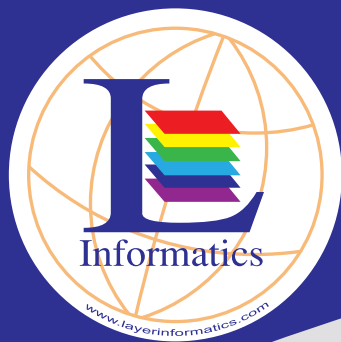
- AutoCAD Map 2004
- ArcGIS 9.3
- Plug-ins provided by Client

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TESTIMONIALS:

I wanted to express our continued appreciation for the great service you and your staff provide. It is a pleasure working with Layer Informatics.

APPLICATION:

- Urban planning and management
- Navigation systems
- Simulated environments
- 3D fly-through

SCREEN SHOTS:



UK Office:

Edinburgh EH2 4AT,
Scotland, UK.

US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



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