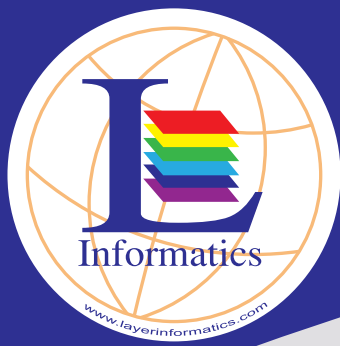




CORRIDOR MAPPING

A Case Study



CHALLENGES:

- There were numerous stations which had multiple numbers of tracks switching between them. Capturing the multiple crossing tracks and identifying & collecting even the minute details surrounding the tracks with an accuracy of 5cm was the biggest challenge in this project.

INTRODUCTION:

Compile Planimetric features along the Railway line with a corridor width of 700m.

KEY ASPECTS:

The key objective of this project was to Plot the Planimetric features along the Railway Line having a corridor width of 350m on either side of the Railway line. The complied data will be used as base for future developments of the Railway.

The client's requirements from this project were:

- Digitization of Planimetric features along the Railway Line.
- **Services Rendered**
 - Digitization of planimetric features like Roads, RailRoads, Unpaved Roads, Back of foot paths, Buildings, Walls, Fences, Concrete, Tree lines, Hedges etc.

METHODOLOGY:

➤ Preprocessing

An assessment of the supplied inputs is done to ensure all images/aerotrainingulation results are available to initiate the project. A project is Setup with the supplied exterior orientation parameters and the camera details and is validated against the Gcp's.

➤ Data Capture

Compilation of planimetric features like Roads, RailRoads, Unpaved Roads, Back of foot paths, Buildings, Walls, Fences, Concrete, Tree lines, Hedges etc. Along the railway corridor width of 700m.

➤ Seamless Data

The data from individual stereo models were merged into a seamless Map.

➤ QC/QA

A QC checklist was prepared to assess the Mapping quality. A random QA was performed to make sure the data was within the acceptance criteria.

TECHNOLOGY:

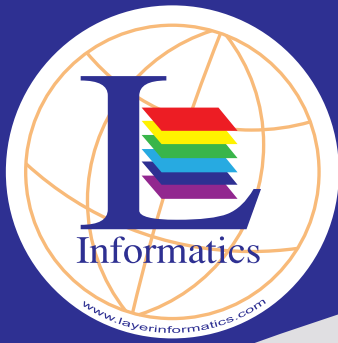
- Leica Photogrammetry Suite
- Microstation V8
- AutoCAD Map 2002

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CORRIDOR MAPPING

Page 2

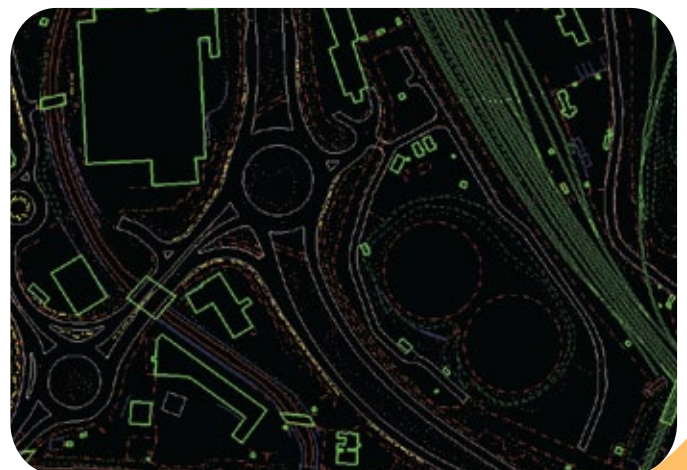
TESTIMONIALS:

I was very happy with your work. Your performance was very efficient and you hit deadlines, right on target.

APPLICATION:

- Navigation, Control and Route Planning
- Railway corridor map for coastal landscape of environmentally sensitive areas and developed urban areas
- Environmental analysis in transportation planning
- Utility and enhancement of railway network topology
- Route Assessment
- Analysis of Utility Production
- Hazard Assessment
- Asset Monitoring

SCREEN SHOTS:



UK Office:

Edinburgh EH2 4AT,
Scotland, UK.

US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



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