

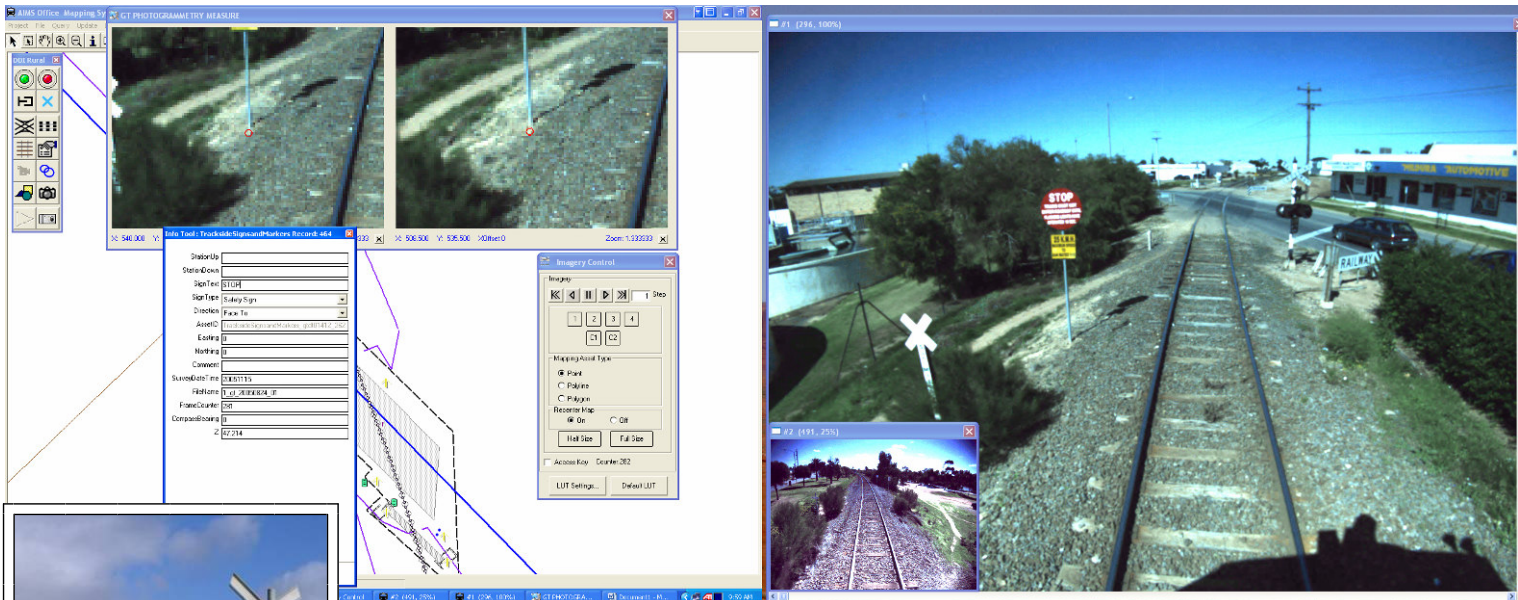
Centreline Mapping and Processing

Accurate Centreline data provides the backbone to any rail organizations information system and is the link to which all other asset information is referenced.

Geomatic Technologies mobilize track vehicles including hi-rail and locomotive units with GPS and inertial positioning sensors to support the generation of accurate track geometry data. All field observations are integrated using a complex kalman filter and our curve fitting software delivers 3-dimensional track alignment data including grade, horizontal curvature and incremental mileage.



Asset Capture and Inventory Mapping



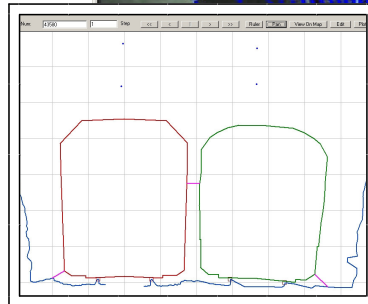
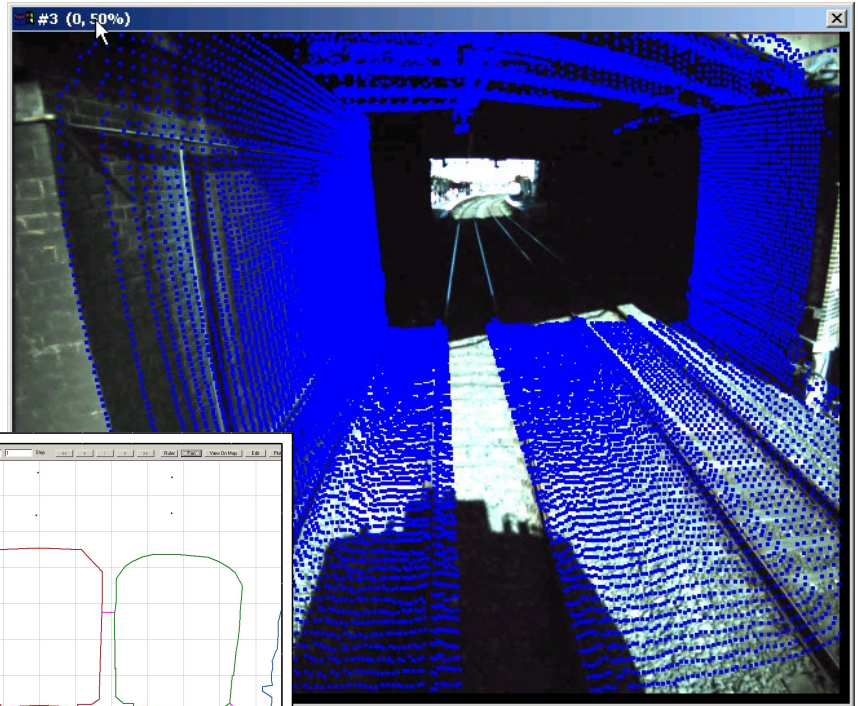
Geomatic Technologies **Asset, Inspection and Mapping System (AIMS)**, is a software suite which is designed for the rapid mapping of a linear infrastructure system. Digital imagery along with positional information is recorded at normal operation speeds from any train or Hi-Rail vehicle. The data is processed in the office, and allows an operator to accurately map and classify objects, (point lines and polygons) from the captured imagery. The same **AIMS** software can also be taken into the field on a standard laptop or tablet, and interfaced with a digital camera, and DGPS, for field verification and auditing of the information collected in the office. **AIMS** is a cost-effective and fully integrateable system which can enhance your existing operational and business management processes, by providing a complete overview of your network, which is linked to your existing track and asset information database.

Laser Rail Clearance and Encroachment Surveys

Geomatic Technologies combine laser technology with their spatial positioning and imaging system, to provide a 3D survey of the rail corridor, captured at normal operational speeds.

Current uses of the system include:

- > Encroachment detection, for new rolling stock, and against max gauge profiles,
- > Clearance measurements to bridges, tunnels, platforms and other rolling stock
- > Laser visualization,
- > Profile track corridor prior to and after construction work,
- > Export accurate point cloud to CAD,
- > Generate reports of non-conformances, which are tagged with position and image information for auditing purposes.

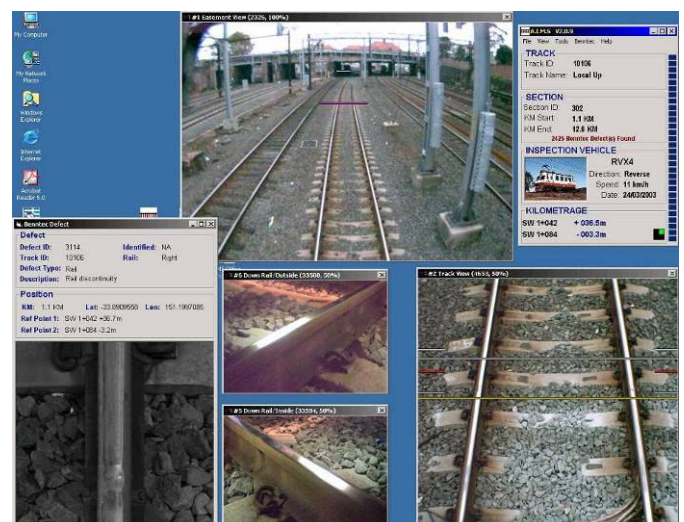
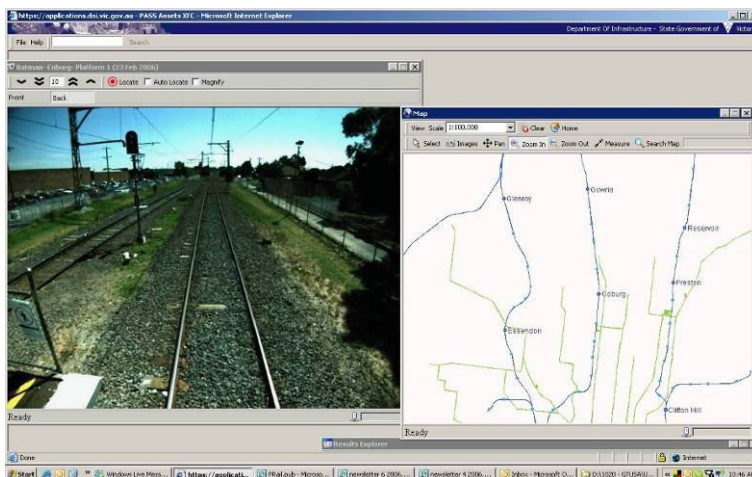


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Web Enabled and Integrative Services

Deployment of corridor imagery and asset information over a secure web environment to provide organisation access for:

- > Driver Training,
- > Corridor planning for access and infrastructure works,
- > Quickly find and view areas for incident management, i.e. railway crossing accidents, derailment's.



GeomaticTechnologies solutions are ideally suited for deployment through the internet. The format of our information is open source and we have configured our track survey results to a wide array of clients existing system.

Our real-time locational systems and imagery can be integrated with other 3rd party track recording and analysis systems to provide better business results in the management and operation of your rail network.