

GIS Integration



Summary

Comprehensive mapping functionality is provided within the Insight product suite, utilising .NET technologies to interface seamlessly with the latest releases of world-leading GIS products from ESRI and Cadcorp. These facilities provide synchronised bi-directional connectivity, with full enquiry and updating capabilities.

The embedded functions exploit the full capabilities of desktop mapping products, including sophisticated symbology definition, layer control and the ability to directly read and display 150 native GIS, CAD and graphic formats on-the-fly, without translation (including MapInfo's TAB file format).

Direct database support for corporate spatial databases includes Oracle Spatial/Locator, ESRI ArcSDE, ESRI Personal GeoDatabase and PostGIS.

Multiple Map Definitions can be defined and allocated to users, allowing different users to access the maps with personally tailored views.

The embedded mapping functionality includes a full suite of tools for maintaining a Level 3 National Street Gazetteer. This includes the ability to import OS MasterMap ITN data and use it as the basis for maintaining the spatial data element of the Gazetteer.

Associated Street Data, such as Reinstatement Designations and Special Designations can also be plotted and maintained. This includes the ability to define offsets from the road centre line.

Detailed facilities are also provided for Network Maintenance purposes. These include the ability to accommodate multiple linear network referencing systems.

Full Graphical representation of linear chainage-based information from Insight, such as condition data and recommended treatments is also provided.

Street Works records can be automatically plotted on the map. Full co-ordination checks are available, to pinpoint conflicting works in the same street, vicinity or on diversion routes.

Pinch-points, particularly significant for traffic disruption at busy junctions, can be defined. Once plotted, Insight will add the area to the co-ordination checks and raise warnings for any works that are plotted in the area.

Furthermore, facilities are also provided to plot/edit/delete Customer Service Requests, Works Orders, Licence Requests and any Asset held in the Insight system such as Street Lights, Bridges/ Structures, Grass verges etc.

Key Features

Seamless integration with market-leading GIS systems

Support for all leading spatial databases

Support for WMS and WFS

Ability to "drive" the system from the Map

Synchronised Dual Screen display of GIS and Insight

Multiple Map Definitions concept

Snap to MasterMap facility

XSP Offset Plotting

Sophisticated Print Templates

Gazetteer Maintenance to NSG Level 3, including ASD data

OS MasterMap ITN support

Network Definition & Management with multiple linear referencing

Spatial Representation & Management of:

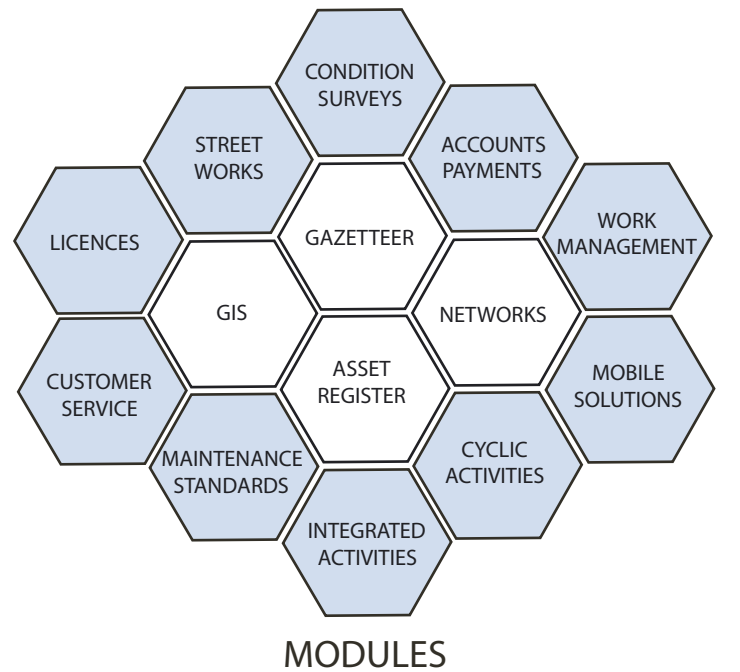
- *Street Gazetteer*
- *Associated Street Data*
- *Street Works Coordination*
- *Daily Whereabouts*
- *Traffic Pinch Points*
- *Link/Node Network structures*
- *All forms of Asset Inventory*
- *Condition Data (inc. SCANNER)*
- *UKPMS Defects & Treatments*
- *Customer Service Requests*
- *Maintenance Works*
- *Areas of Interest Polygons*

Insight comprises a range of highly integrated modules that can be used in various combinations, to provide individual solutions for the areas shown on the diagram in beige.

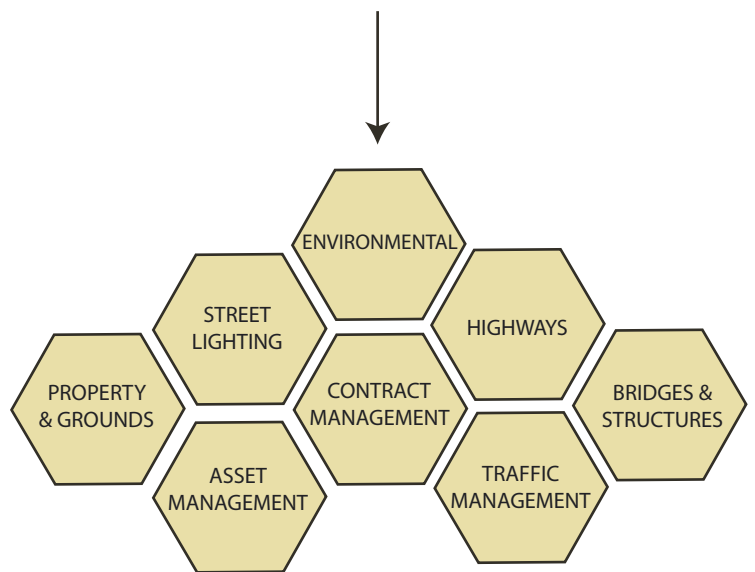
In total, the system provides the capability to manage ALL of these solution areas as part of a single integrated system.

This offers the opportunity for cost and efficiency savings (in line with the Gershon review), by streamlining operational practices and reducing the number of systems used to manage these areas.

Further savings can also be realised since only one set of interfaces are required to be established and maintained with external and corporate systems.



MODULES



SOLUTION AREAS

WEB SERVICES (XML & SOAP)
COM and ODBC



CORPORATE/EXTERNAL SYSTEMS

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