HIGHWAY INFORMATION SHEETS - WEB MAP VIEWER

The Auckland Motorway Alliance (AMA) is an alliance of companies that manage the Auckland state highway network under contract to the NZTA. As part of the contract they are required to provide hardcopy Highway Information Sheets (HIS) annually which describe the state highway routes and a wide variety of asset information (derived from RAMM) relating to the route. Traditionally this has been a labour intensive task that has resulted in maps that are virtually out of date the day they are printed. GBS worked with the AMA to develop an electronic solution that provided both an online viewer for the Highway Information as well as an automated bulk hard copy HIS map sheet production capability.

PROJECT OBJECTIVES

- Replace paper system with an electronic service
- Improve and modernise the existing HIS system
- Work with users to continuously evolve the system with new features and datasets
- To provide a positive legacy at the end of the AMA contract

PROJECT DELIVERABLES

A ESRI Silverlight API based Web Map Viewer that does the following:

- Enables users to choose base maps and layers displayed
- Search for Highway sections and ramps
- Feature selection of highways and ramps resulting in a description of the selected feature being displayed, and the map rotated to match the selected features displacement (with min to max reading left to right)
- Attribute data is displayed in a table that is dynamically updated as visible layers are updated
- High quality PDF output that can be batch processed

TECHNICAL BUILD INFORMATION

The map viewer uses ESRI ArcGIS Server and the ESRI Silverlight API. The map production environment has been developed using ArcGIS Server, ArcObjects and C#.

PROJECT SUCCESS

GBS have provided the AMA with a reliable, accurate and up to date digital representation of their network's location, dimensions, assets and attributes. The solution is experiencing a high rate of uptake and usage across the organisation.