



GIS (GEOGRAPHICAL INFORMATION SYSTEMS)

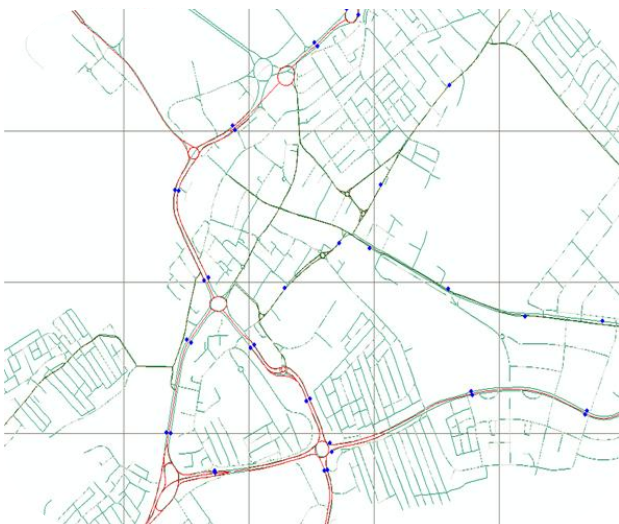
INTRODUCTION

Appia Infrastructure Solutions Ltd provide consultancy and software to support the management of highways and other infrastructure assets. Using GIS (Geographical Information System) we can develop individual, customised software solutions for clients to meet their particular requirements and can utilise our extensive knowledge and experience of GIS and of spatial data management to produce map-based solutions to suit any need. We aim to ensure that the spatial data that you collect are transformed into useful information and knowledge about your assets, assisting you at all stages of the asset data life cycle from specifying appropriate data that has a real purpose in supporting asset management and decision-making, through to utilisation, ensuring that the maximum value is realised from data.

NETWORK CONSOLIDATION

A well maintained and accurate network, with good spatial referencing is the foundation of successful highways data management and asset management. We can help you to enhance your network model by:

- Ensuring that all sections have correct spatial references
- Creating unique nodes for your network
- Improving topology (removing any gaps, inaccuracies and duplication)
- Adding extra attributes such as description or road core information

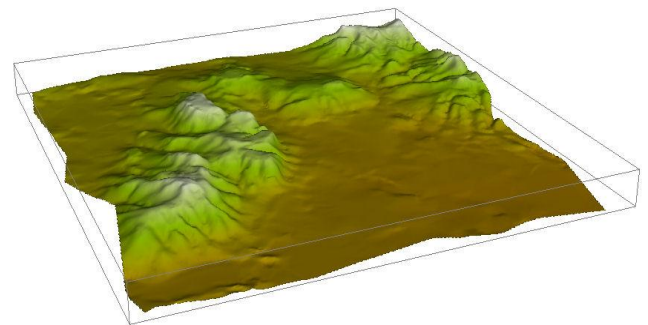


CARRIAGEWAY / FOOTWAY INVENTORY FOR GRC

Using OS Mastermap® we can calculate the area of the inventory for carriageways and footways through the application of a process that uses the existing shape file to determine the area and extents of assets. This process is a cost-effective way of deriving the data used to calculate Gross Replacement Cost (GRC) in the HAMFIG WGA spreadsheet. This process also produces area and length inventory for carriageways and footways, calculating the average width for each inventory type within a network section. This is provided in UKPMS HMDIF format for loading into Scheme Engineer® and to any UKPMS/HAPMS compliant system.

INTEGRATING MULTIMEDIA TO GIS

The scale and diversity of the data and information collected typically collected for a road network present a major data management challenge for highway authorities. Appia provide services to support the integrate of different types and sources of data within a GIS system. We can to combine documents, multimedia and site surveys to create an all-purpose, sophisticated GIS infrastructure for our clients.



TRAINING

As a company specialising in GIS and related services Appia can provide full training for ESRI® ArcGIS software. We also advise our clients in long-term GIS infrastructure maintenance, helping them to maximise the value of their highways GIS system using relevant data sources.

To discuss how we can help you, please contact one of our team today:

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