

case study - gully maintenance

Welsh Government

How it started

The Welsh Government's trunk road network is currently split into three sections: SWTRA, MWTRA & NWTRA. The Welsh strategic road network covers 1,510 kilometres of trunk road, including six road tunnels and 178 kilometres of motorway. The Welsh Government engaged with map16 Asset Management to work together to develop a system to collect and manage drainage assets across their strategic road network.

The solution

The Welsh Government collaborated with map16 to design a bespoke system for agents in the area to collect asset data live from the field on their strategic road network. Once designed, the client was able to collect and input asset data into the map16 platform using mobile devices. Each asset is mapped to its precise location, with information such as asset name and location, gully inspection history and any defects found, with image adding functionality for enhanced data validity. Once the assets had been mapped, the Welsh Government were then able to create and manage their cleansing schedules through their inspection dashboard. Here they were able to break down each part of the network to understand exactly which assets need attending, which assets have been cleaned and any asset defects.

The benefits

This increased efficiency in cleansing schedules led to significant cost savings and the reallocation of resources to other areas of the business, with further savings are anticipated as the system moves to a risk-based cleansing approach. Proper management of road network assets is crucial for the Welsh Government as it directly impacts the public, as efficient gully network management reduces the effects of flooding and minimises public disruption. The centralised system for collecting and managing asset data has been highly beneficial, providing accurate and live updates. Overall, adopting a digital approach to asset management and data collection has improved operations within the road network, allowing everyone to work to a higher standard.

map16 was chosen as the main asset management and data collection platform for the Welsh Government's drainage assets on their strategic trunk road network due to its ease of use and seamless integration.

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