



**Driving Innovation**  
in an ever changing world

## Software

The W.D.M. Limited Highway Infrastructure Asset Management System (HIAMS) is a proven suite of applications enabling Highway Authorities and their Contractors to manage all facets of the road.

HIAMS modules link functions including asset management, collisions, customer enquiries, defects, structures, routine maintenance and works orders, street works, street lighting, UKPMS and more into a single integrated system. The GUI centred around digital mapping makes accessing and reporting data simple and intuitive.

Clients can choose HIAMS modules to meet their requirements; meaning that systems can range from a single module to the full 24. To ease the procurement process, HIAMS can be purchased through the UK Government's G-Cloud.

### HIAMS



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## Key Features

### Cloud Hosting

HIAMS is delivered using Browser-based web applications over HTTPS. Most modern workstation, laptop, notebook, and tablet hardware can be used to access to our applications including Windows 11, IOS devices (iMac, iPad, iPhone) and Android (Tablet, Phone).

HIAMS utilises Amazon Web Services (AWS) Virtual Private Cloud (VPC). It is managed by WDM® as part of their ISO/IEC 27001:2013 Information Security Management System. The hosting environment is split into 3 logical layers:

- A front-end comprising of single sign-on federated services connection points and Web Application load balancers.
- An application layer comprising of multi-zone Elastic Cloud Compute (EC2) IIS Web Application Servers.
- A back-end Relational Database Service (RDS) utilising a Multi-AZ (Multiple Availability Zone) SQL Server Deployment.

### Mobile Working

Mobile working is a key driving force for the direction and focus of HIAMS. Its mobile working solution software is cross platform compatible. This allows users to choose from a range of devices. We recognise the challenges that network availability still presents which has resulted in our products offering online and offline capabilities without the need for the user

to manage between the two. Offline capabilities include:

- Mapping – relevant map tiles are downloaded to the device and cached, in the event of a network or signal loss these tiles are still available to the user.
- Items completed/recorded whilst offline are held until the connection is re-established. The software will automatically reattempt to upload once a new connection is made available.
- Photographs - The device's camera and camera roll are directly accessed from the mobile software.

### Performance and reporting

HIAMS seamlessly integrates 3rd party reporting tools such as Microsoft Power BI within its applications to provide custom, dashboard and summary reports. These reports can be created either by users or WDM® and then embedded within the application for general users to interrogate, either through a simple click and deliver process or through scheduled email delivery.

In addition, the HIAMS Dashboard app allows users to create and display different dashboards. Each dashboard can be assigned to an individual user or user group and can consist of any number of charts comprising of three different types of dashboard objects, text, Scalable Vector Graphics (svg) and charts (line, bar, pie and doughnut charts).

