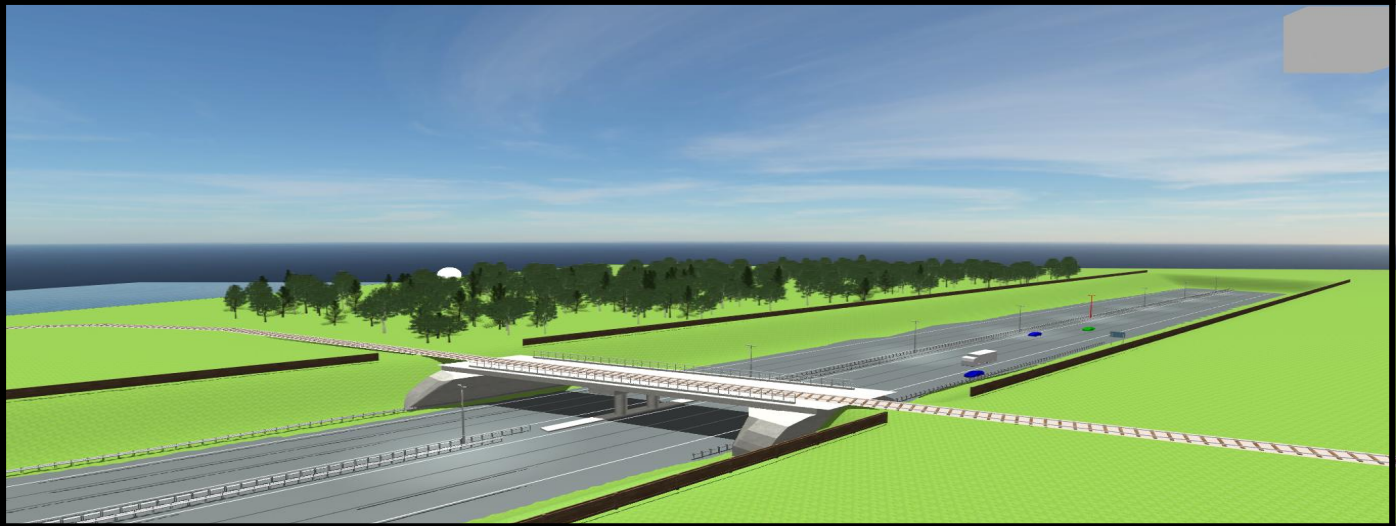# Asset Management Solutions

Capability — Sheet No.1

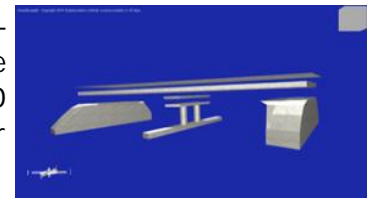## LiDAR / 3D viewer

AssetScape®

The LiDAR viewer is part of our 3D module that enables the user to upload and process large point cloud datasets.

The processed point cloud is classified to display Terrain, Geology and specific highway assets such as lighting columns, signs, vehicle restraint systems, pavement and lining. The data is extracted automatically and then converted into graphic models which are to scale. The viewer enables the user to navigate around the scene and interrogate data such as taking measurements, analysing cross-sections and labelling up assets. It is important to note that the viewer will enable the user to build more data into the scene using the model generator - Building asset models such as bridges, river systems and many more features to enrich the view.

The viewer can handle huge amounts of point cloud data – Users can load the entire UK motorway network including landscape into one file. Enables user to zoom down into Manchester and view data and then move off to London or Glasgow. So no need to set up and manage a number of files helping to reduce on storage relating to the sheer size of point cloud data.

To unlock the full potential of AssetScape the user can explore the wider capabilities from the other AssetScape modules. We can produce a landscape template from both topographical maps and LiDAR which is ready for the client to load 2D GIS asset shapefiles and asset models. The client can then develop and load other asset models and condition data into the scene.

Landscape data can always be updated and if new LiDAR data becomes available it will automatically load and merge into the existing scene. All actions are stored in the system to enable the user to go back in time to view a previous scene or to regress the action.