

IoT asset tracking helps move RAIL industry forward

Live monitoring of passenger and freight RAIL assets

Euclidean's advanced IoT real-time tracking capability is set to revolutionise the worldwide RAIL industry. In addition to providing world-leading 3D data rendering of massive point cloud and photogrammetry models, Euclidean is opening up opportunities across the Rail market with a growing customer base taking advantage of live monitoring of passenger and freight RAIL assets via real-time IoT tracking. This new way of viewing up-to-the minute train data on a 3D model brings with it advanced capabilities for planning, situation control, risk management and fleet analysis, that were never before thought possible.

The term Internet of Things 'IoT' has become something of a buzz-word lately across many industries, including transportation, vehicle manufacture, medical, agriculture and environmental industries. For those new to the term, it broadly relates to a network of connected tech devices that contain unique identifying data and can be tracked via the information sent and received amongst units.

For the RAIL industry, the need to understand, see and act based on real-time information is just one of the advantages provided by this technology. Inside Euclidean Vault, it is possible to view an instant 3D representation of entire city and nationwide RAIL networks, with positioning data rendering in the application virtually as soon as it is received from the IoT device. This monumental feat is achieved via Euclidean's patented ultra-efficient Unlimited Detail rendering engine, coupled with the advanced real-time features made possible by the server-based Vault application. Better yet, all this live data is able to be viewed and streamed instantly anywhere in the world via the Cloud, to any basic low-spec desktop machine or laptop. It's easy to see why customers such as SNCF Reseau and Queensland RAIL are jumping on-board to effectively visualise their 55,000km and 6,600km of track respectively. The ability to simultaneously monitor a very complex network and have instant access to view live data anywhere in the country or region is an immense advantage. Corrective and predictive, preventative maintenance scheduling can be delivered 'as and when' it is required. Assets can be labelled with live information delivered from remote sensing technology, aiding monitoring and control. This helps reduce costs, expediate workflows and facilitates enhanced management and operational flexibility of RAIL asset maintenance.

Vault is now available for light, heavy and commuter rail networks across the globe.

To watch a video of Euclidean Vault with IoT live feeds, or learn more about how Euclidean Vault is working with Rail customers around the world visit our Rail area: <https://www.euclidean.com/rail/>