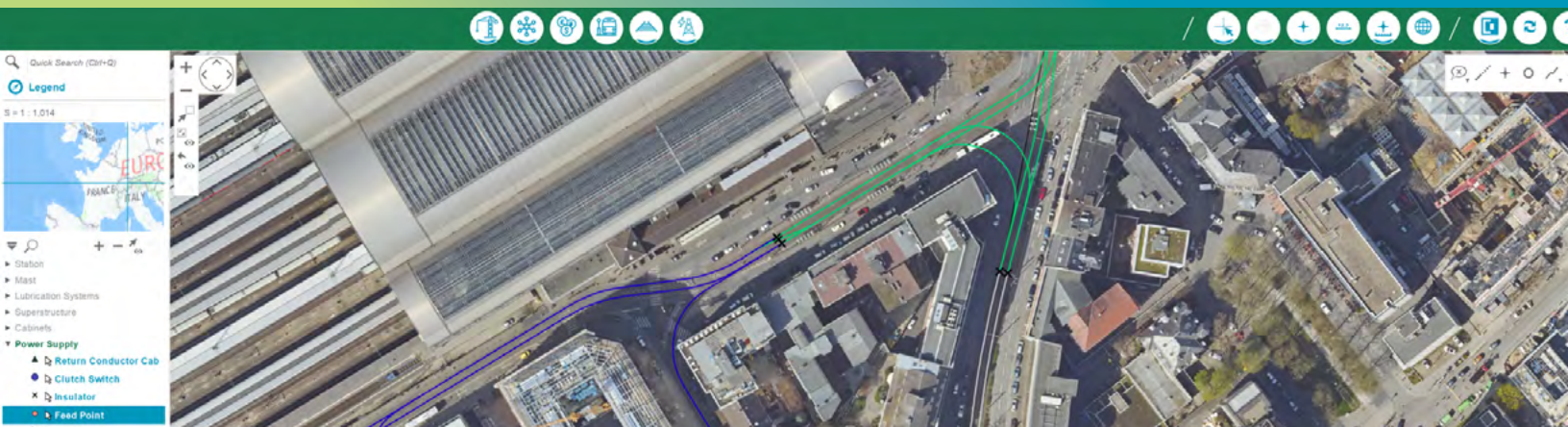


HxGN Mass Transit



Public transport networks are complex. An error or delay in one segment can cause a ripple effect down the line – for the transport provider and the public. To manage this complexity, transportation agencies rely on different, disconnected data sources spread across multiple systems, departments and formats. Typically this data cannot be viewed in real time, making it difficult to gain a holistic view of the network’s asset conditions to coordinate maintenance activities or plan for new projects.

HxGN Mass Transit helps to manage your data, workflows and transit networks more efficiently. It allows you to avoid data duplication by combining asset and spatial data into an integrated network, giving your team access to accurate and up-to-date information. With its 3D and AI capabilities, HxGN Mass Transit goes beyond a simple map to provide an advanced digital twin of a city’s entire public transportation network, from stops, track, and switches to construction sites, ticket machines, benches, and garbage cans.

Key benefits

Edit and access transportation network data

With HxGN Mass Transit’s rich client application, individuals across the entire public transportation organization can create data, maps, reports, and queries for their projects, instead of having to rely on GIS specialists or outsourced consultants.

Rail or bus networks can be visualized in different representations, including true map views, geo-schematics or straight-line diagrams.

Inspect and capture asset data in the field

HxGN Mass Transit’s native mobile app provides service workers complete access, anywhere and anytime, to the data they need to fulfill specific tasks or projects. The necessary data is at their fingertips, even in areas without internet access. Related documents and photos can easily be uploaded to the database via the mobile app. HxGN Mass Transit’s mobile app streamlines the digitalization of all assets.

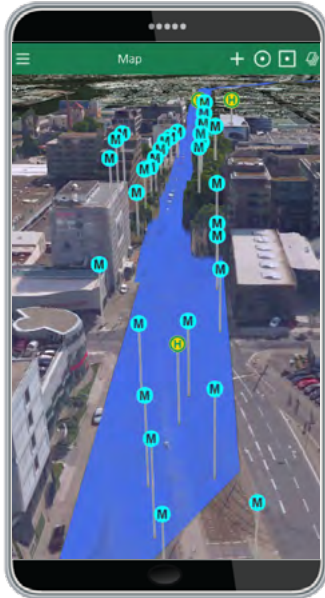
Analyze, monitor and predict infrastructure status

HxGN Mass Transit’s spatio-temporal dashboards provide executive management with the most accurate and up-to-date information on weather predictions, the status of construction projects, and other relevant traffic data. The dashboard’s cross-filtering capability allow information consumers to explore data using multiple charts simultaneously, leading to deeper insights. Map data can be visualized both in 2D and 3D and measured accurately.

Artificial intelligence algorithms are also available for image classification, feature extraction and predictive maintenance.

Share infrastructure data with multiple stakeholders

HxGN Mass Transit lets you share relevant information across the enterprise, with government agencies and with the public.



Modules

Network



The network module contains the fastest Linear Reference System (LRS) on the market for building and maintaining a digital network model of your transportation system. The line and route management component defines lines and graph models based on switches and stops. With the network definition component, you can set and adjust nomenclature, historize network segments and import networks created in CAD programs.

Track characteristics



The track characteristics module helps you to check and maintain the quality of the track's super- and substructure, control points and switches. You can map all attributes such as the track panel (sleepers, rail age and quality), trackbed layers and the lubricated length via LRS to the underlying network to evaluate, monitor and predict the rail and wheel wear.

Station management



Map, connect and share all station-related information such as accessibility, timetables, ticket machines a cleaning areas, platforms, and stops from and to other systems in the station management module, as well as comply with industry standards.

Electrification



The electrification module gathers all data about masts, poles, hooks, cable ducts, overhead lines and catenaries, allowing for easy capture and repair of damage or incidents. All voltage items on the track can be mapped via LRS to the underlying network.

Construction / Buildings



The construction and buildings module gathers, manages and shares all planned constructions in a spatio-temporal context. It allows you to adjust and merge plans, permits and technical documents.

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About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous - ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates solutions that deliver a 5D smart digital reality with insight into what was, what is, what could be, what should be, and ultimately, what will be.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.3bn USD. Learn more at hexagon.com and follow us @HexagonAB.

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