Fugro's RILA Portal is an intuitive web portal that brings the railway to your desktop. Through it, you can view, inspect and connect RILA datasets, enabling you to manage your data more efficiently and make informed decisions on investments and operations.

**OUR SERVICE**

Fugro's RILA Portal is an online web portal that works for you, providing access to imagery, video, maps, LiDAR datasets and analytics of your rail network. Our unique service consists of a 2D map viewer and a 3D data viewer, seamlessly integrated into one modern user interface, with practical functionality and advanced data visualisation techniques to deliver a dynamic 3D model of the railway corridor.

Its core functionality includes easy data viewing and navigation capabilities, object selection and inspection, basic analysis tools (such as measuring and creating cross sections) and sharing or exporting views to exchange information.

In addition to its core functionality, the portal also offers task-specific modules, with tailor-made tools and information designed to make specialised tasks straightforward. With RILA Portal, you survey once but the data can be used for multiple applications, including engineering services and asset management of railway infrastructure.

**PORTAL FEATURES**

The portal runs in any modern browser on a desktop computer and requires no special plugins. It eliminates the need for terabytes of server space, removing the dependency and risk for in-house sourcing and spatial data management, as well as the associated capital investment and ongoing operational overhead.
RILA Portal services are provided through an annual subscription and include various modules, together with supporting tools, functionality, and visualisation layers.

SITUATIONAL AWARENESS
At the heart of the RILA Portal are the data viewers. The 2D map viewer is a lightweight GIS environment that gives an overview of the region of interest and allows you to quickly identify areas that require closer inspection. The 3D data viewer allows you to view various types of data, such as point clouds, panoramic imagery and videos. Videos can be played in both forward and reverse direction, providing a fast and efficient way to inspect track and objects. A powerful search tool means that you can search for locations using track or station names, geocodes or coordinates.

ASSET MANAGEMENT
The RILA Portal provides the functionality to share intelligence, making it easy for asset managers to overlay information and compare data and GIS files using the RILA video as a reference. Included within the core functionality of the portal are analysis tools for undertaking measurements (both in 2D and in 3D) and creating cross sections. The portal also provides a corporate data link that ties important asset information to the RILA 3D network model and provides the functionality to correct and maintain an accurate schematic of the rail network.

DESIGN & ENGINEERING
The RILA portal offers a 3D model of the railway network with precise asset locations, attribute data and reporting functionality to support design and engineering tasks. Measuring can be undertaken using the RILA 3D video or RILA 360 point cloud data. Users can quickly share information, providing integration across departments, teams and stakeholders.

THE BENEFITS
The RILA Portal service offers the following benefits:

ONLINE PORTAL: providing access to imagery, video, LiDAR datasets and analytics

VIRTUAL WORLD: reducing field visits to plan, scope, inspect and audit

COST REDUCTIONS: through infrastructure management, and improved data processing, storage, and access

OPEN PLATFORM: enabling data to be imported/exported from existing software, integrating content and enabling links to other enterprise systems

SINGLE POINT OF TRUTH (SPoT): removing spatial ambiguities and establishing a common dataset for secure sharing of asset details

CUSTOMISED TOOLS: for asset management and design engineers, based on user base profiles and requirements

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