



SEQUANTA

Railway Transport

A well-maintained and reliable infrastructure and rolling stock are two key levers for the rail sector to ensure the safety, level and continuity of service expected by the community while anticipating the new needs of travelers.

However, the right data or information is still needed to trigger corrective actions at the right time and in the right place to increase operational agility and have a positive effect on operations.

This is where the SEQUANTA solutions change the game!

■ DISRUPTIVE SOLUTIONS, DECISIVE DATA

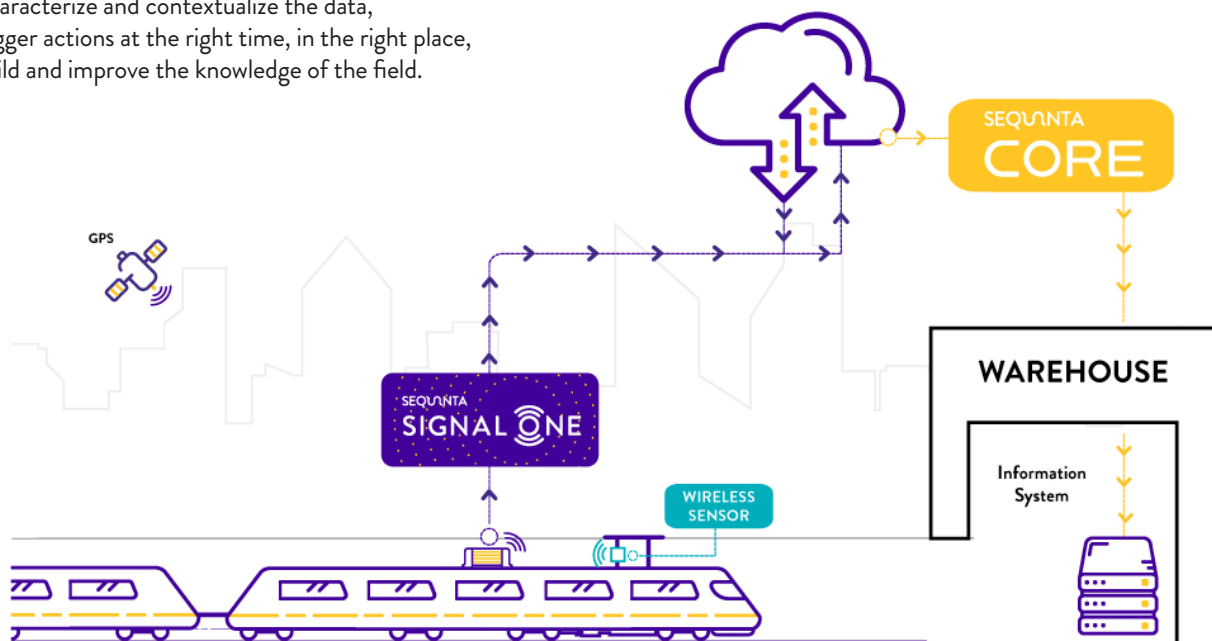
SEQUANTA brings knowledge and vision of the field to an unparalleled level. Its low power Edge Computing solutions provide data acquisition, processing and embedded intelligence directly on mobile equipment and assets in the operational context.

In the most complex scenarios combining spatial and temporal dimension and requiring continuous monitoring over time, SEQUANTA solutions provide the flow of the required smart data. These are decisive for the efficiency of operations and maintenance, and are a real booster for the innovation process and the development of quality of service.

Based on the **SEQUANTA Signal One** appliance, complemented by the **SEQUANTA Core** application platform, SEQUANTA's customized solutions reveal new and decisive information on the health and conditions of use of the railway infrastructure components and rolling stock organs.

SEQUANTA solutions enable to:

- Simply deploy in retrofit on existing equipment,
- Characterize and contextualize the data,
- Trigger actions at the right time, in the right place,
- Build and improve the knowledge of the field.



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■ NEW VISION OF THE FIELD, EASED OPERATIONS

In the field, at the edge, close to critical parts of the rolling stock, hard to access, such as pantographs, hitches, bogies, rotating equipment / vibrators, ... not to miss anything from the context, SEQUANTA Signal One transforms data into smart data and transmits it to SEQUANTA Core applicative platform to extract the full value of it.

■ ABNORMALITIES DETECTION

- Identify, geolocate and characterize extraordinary events (degradations, incidents and abnormalities).
- Conditionally trigger the automatic actions of local control / command equipment (camera ...).
- Manage the periodic transmission of smart data via a telecom / IoT network to the cloud, supplying smart data to the information system and the operating and maintenance processes.

BENEFITS

- **Trigger corrective actions at the right time and in the right place.**
- **Increase operational agility and act on operating efficiency.**
- **Boost continuity of service.**

■ MONITORING OF OPERATING CONDITIONS

- Monitor the parameters (vibrations, shocks, accelerations, pitch, roll, pendulum movement, noise pollution, temperatures, etc.) required to characterize the real conditions of transport.
- Manage the periodic transmission of smart data to the information system and the operating and maintenance processes.

BENEFITS

- **Develop knowledge of operating and comfort conditions.**
- **Complete preventive maintenance programming models with unprecedented and relevant data.**
- **Provide the smart data that will be used to improve the performance and comfort of the service.**

■ A TURNKEY OFFER, QUICK BENEFITS

We designed a turnkey offer including:

- **The integration of your personalized solution, adapted to your context and assistance in its commissioning,**
- **SEQUANTA Signal One equipment, peripheral sensors and related equipment required,**
- **Access to your smart data via SEQUANTA Core for the required duration.**

New cards in hand to help you optimize your mobile assets.

To make their operation and maintenance safer, more efficient and more profitable!