



SEQUANTA

Public Rail Transport (Subways & Tramways)

Regional train networks, trams, metro, trolleys are subject to degradation, wear or events that could deteriorate the reliability and quality of service. The problem does not only concern aging rolling stock, but also the most recent equipment.

While service level objectives on these networks could lead to a tendency for over-investment and redundancy of equipment to ensure continuity, the productivity and financial stakes encourage to maximize use, profitability and the useful life of the existing rolling stock fleet. It is therefore to anticipate for less / better maintain and repair, eliminate all unnecessary interventions impacting the operations and users, better understand the reality of the service, to meet the best level of service expected.

This is where SEQUANTA solutions take their full advantage!

■ DISRUPTIVE SOLUTIONS, DECISIVE DATA

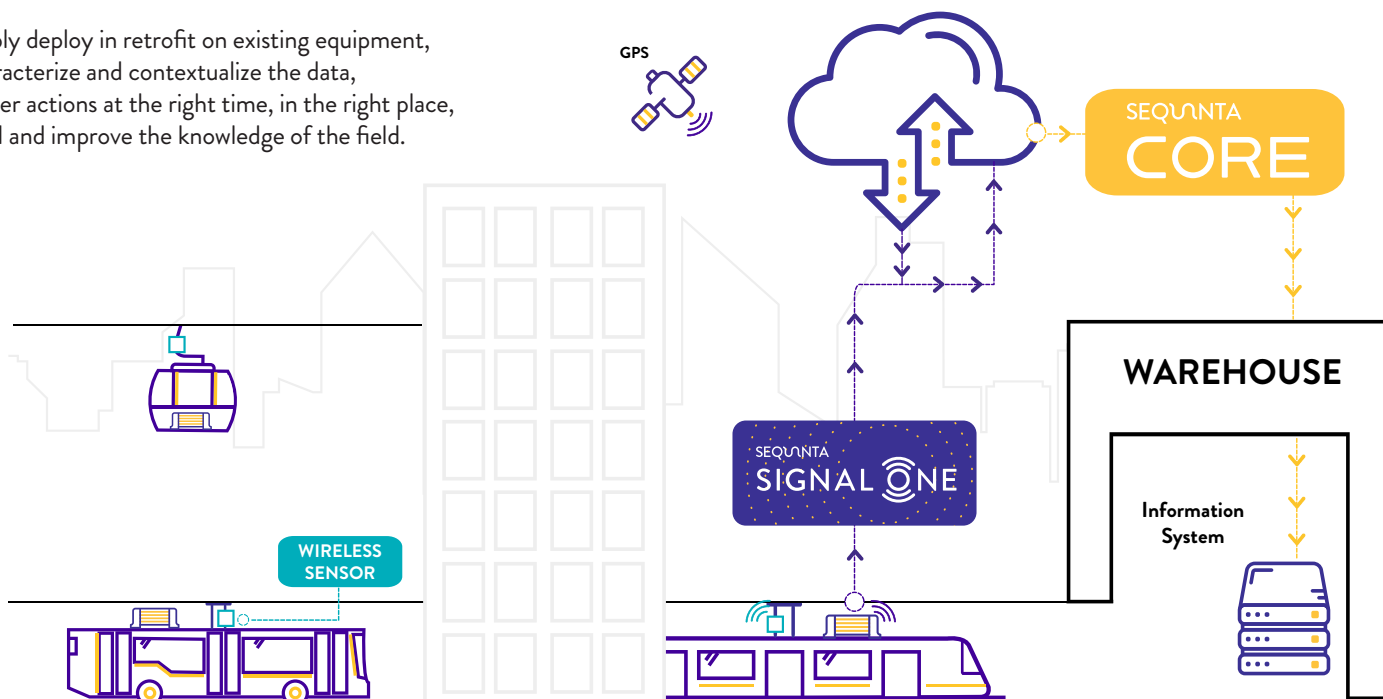
SEQUANTA brings knowledge and vision of the field to an unparalleled level. Its low power Edge Computing solutions provide data acquisition, processing and embedded intelligence directly on mobile equipment and assets in the operational context.

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 public transport infrastructure components as well as the vehicles 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 vehicles and rolling stock, hard to access, such as pantographs, bogies, skates, rotating / vibrating equipment, etc... 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!