



Public transport (Buses & Coaches)

In passenger transport activities, the level of strain supported by buses and coaches fleets requires efficient and responsive maintenance. Vehicles must be available and reliable during service hours to ensure the highest level of service and safety for travelers. Due to the driving style, the state of the roads, works, traffic jams, troublesome parking and traffic incidents, many critical elements are subject to stress and / or events that could damage them and have a direct impact on the reliability and quality of the service to users. An incident on a vehicle causing a service outage, even of very short duration, has important consequences on the operation of the network and the level of service.

Monitoring the reality of the operating and driving conditions of vehicles is a key success factor. It enables on the one hand, to understand how and under what conditions they are actually used to anticipate the maintenance of the critical elements as soon as possible, but also to act on the level of service by reducing avoidable outage; and finally, to characterize abnormal events impacting safety.

■ DISRUPTIVE SOLUTIONS, DECISIVE DATA

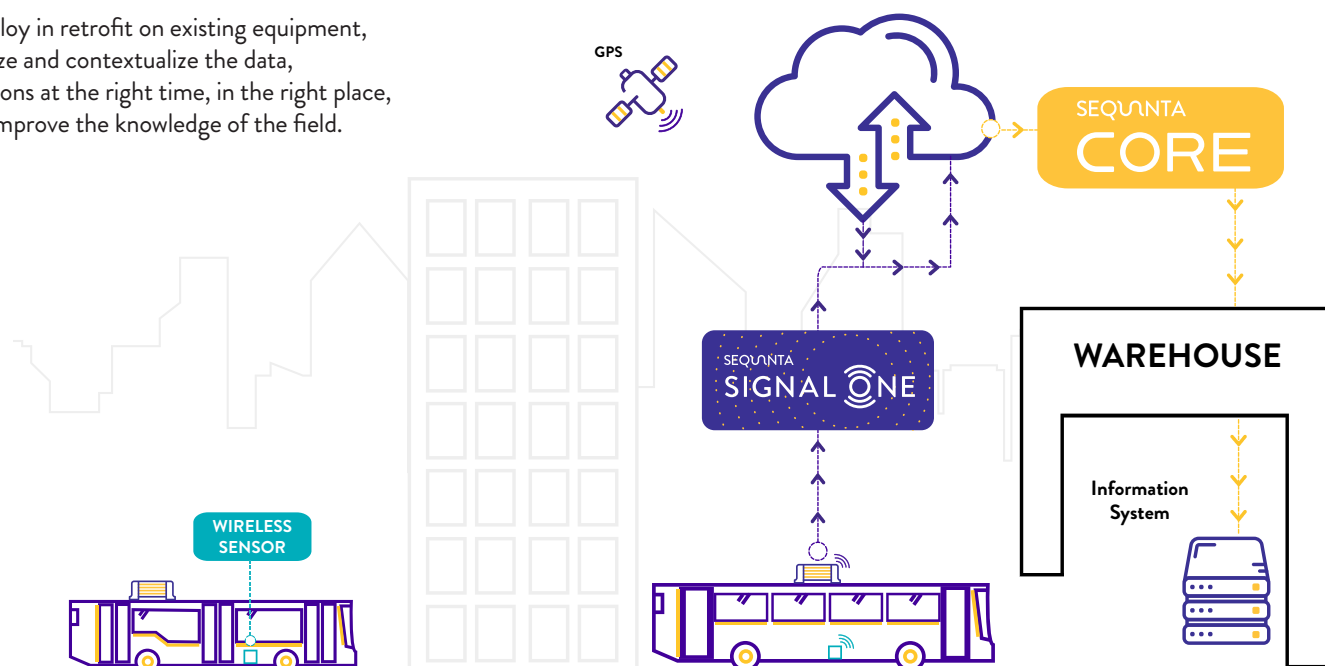
SEQUANTA brings knowledge and vision of the field to an unparalleled level. Its low power Smart data solutions provide data acquisition, processing and embedded intelligence directly on vehicles in operational context.

In these 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 vehicles critical components and 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.





NEW VISION OF THE FIELD, EASED OPERATIONS

In the field, at the edge, close to critical parts of coaches and buses, hard to access, (engine, gearbox, axle, axles, braking, pneumatic circuits ...) 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

- Detect, characterize and geolocate extraordinary events on vehicles and sensitive organs.
- Process the data in situ to operate local control / command equipment.
- Feed the information system and operating and maintenance processes in smart data.
- Manage the periodic transmission of smart data to the cloud via a telecom / IoT network.

BENEFITS

- Characterize and locate the damages, incidents and abnormalities (stopping time, speed, emergency braking ...).
- Trigger corrective actions at the right time and in the right place.
- Increase operational agility and act effectively on the operation.

MONITORING OF DRIVING CONDITIONS & COMFORT

- Detect, characterize and geolocate the data as close as possible to the critical elements to monitor the parameters (vibrations, shocks, accelerations, pitch, roll, etc.) necessary to characterize the real conditions of transport.
- Power smart data monitoring operation (speed, acceleration, use of brakes, engine speed, idle time ...).

BENEFITS

- Build a precise knowledge of the driving styles of vehicles.
- Obtain an exact vision of the type of land covered; and traffic conditions.
- Objectify the comfort of journeys.
- Complete programming models of preventive maintenance actions.
- Guide the improvement of travel times and service comfort.

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!