SERCEL


# S-lynks

CONTINUOUS STRUCTURAL MONITORING

# S-lynks

S-lynks is a complete solution for continuous infrastructure monitoring including bridges, dams, stadiums, tunnels, etc.

S-lynks analyzes the behavior of the structure and detects anomalies which makes it a great tool to meet the growing requirements for predictive maintenance programs.

This fully integrated system can be installed permanently on the structure and the data collected is immediately transmitted to a secure software platform.

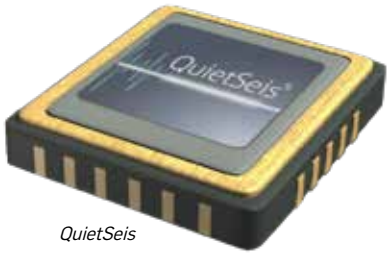
Thanks to S-lynks' class leading ultra-sensitive embedded sensor, it is no longer necessary to restrict access to the structures in order to carry out a real-time analysis of their integrity. Moreover, each maintenance operation can now be correctly scheduled extending the service life of each structure.


*S-Lynks unit*

# FULL MONITORING WITH UNINTERRUPTED USE OF THE STRUCTURE

## QuietSeis®: the MEMS accelerometer

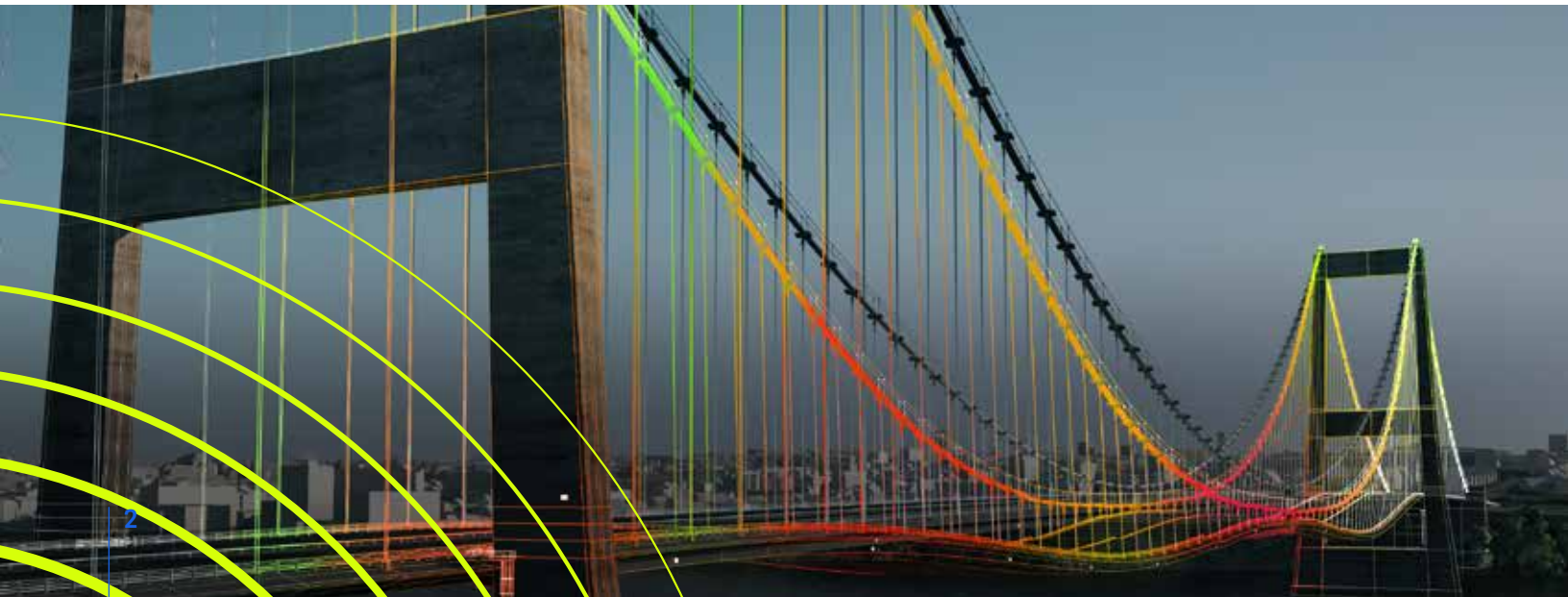
The QuietSeis sensor is the most sensitive MEMS accelerometer on the market. With best-in-class performance in terms of noise level, QuietSeis can measure the structure's natural environmentally induced vibrations (vehicle traffic, wind, micro-earthquakes) and thereby eliminate any need to shut down the structure.




*QuietSeis*

## Operational modal analysis

The S-lynks solution includes an advanced software technology from an Inria-UGE research team providing an automatic operational modal analysis that meets all civil engineering control requirements for infrastructure. It offers a global vision of the entire structure by supplying accurate data iabout the mode frequencies and related distortion.



# SIMPLIFIED INSTALLATION AND MANAGEMENT

## Wireless and energy self-sufficient equipment

S-lynks consists of several compact wireless recording units designed to operate on a stand-alone basis for up to 5 years.

The units can be adapted to all types of structures, whether contemporary or more traditional, and can be installed easily without any electrical connection.

## Ease of setup

Any unit tilt from vertical is corrected automatically thanks to the three-axis QuietSeis sensor. Each unit can therefore be attached to any surface of the structure, whatever the mounting angle.

## Support service in operational conditions

The S-lynks solution offers a maintenance service which guarantees full functionality at all times. A dedicated Sercel team monitors the system status remotely (battery level, data transmission, performance, software revision, etc.). In case of failure or in the event that a critical threshold is reached, you will be notified immediately by one of our experts such that all measures can be taken to quickly correct the situation.

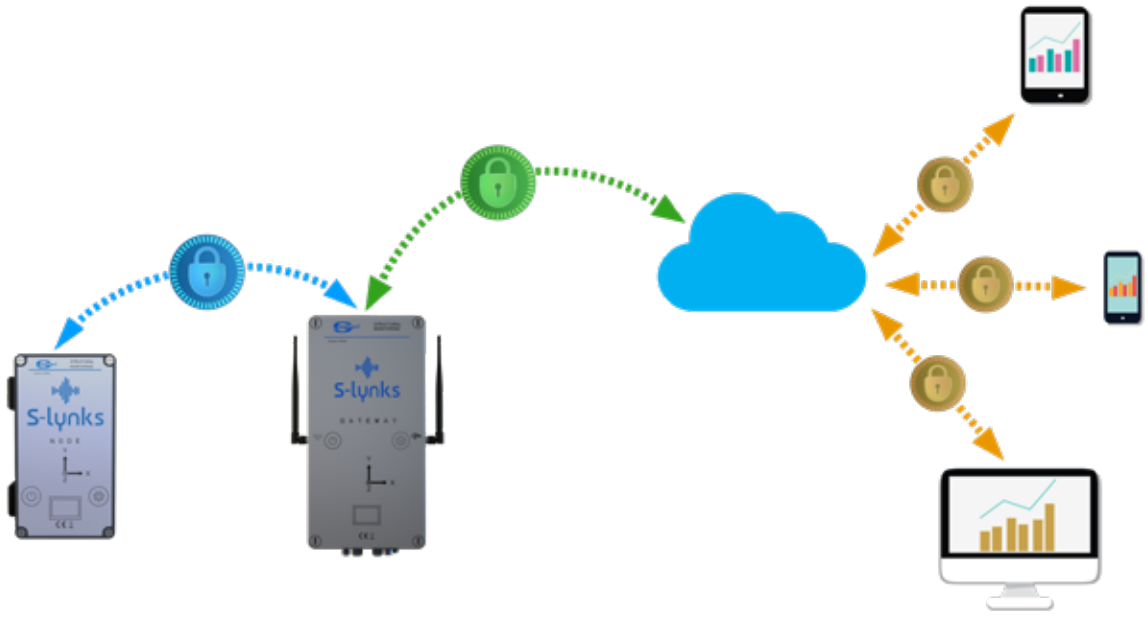
# REAL-TIME DATA ACCESS

## Secure data storage

After collection and on-site processing, the structural data is immediately available and can be accessed remotely via a secure platform. The S-lynks solution can therefore be used to verify the integrity of a structure at any time and from any device. Security is guaranteed as the solution also provides for the transmission of encrypted data over the entire communication chain.

## Remote control

Lastly, the S-lynks solution allows for the remote control and activation of on-demand modal analysis to check for changes in the integrity of the structure following specific events (traffic accidents, micro-earthquakes, adverse weather conditions).



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