

# Structural Health Monitoring | Customer Case Study

Move Solutions integrate ION geophones into state-of-the-art, high-precision structural health monitoring systems.



## THE CHALLENGE:

- Following the events in Genoa on August 14<sup>th</sup>, 2018, the Italian Government legislated that road and motorway bridges be dynamically monitored to ensure public safety
- Delivering high-precision structural monitoring solutions that are low in cost, small and easily installed: connecting the structural world to the Internet of Things (IoT)

## THE SOLUTION:

- Move Solutions developed a complete solution comprising wireless sensor packages plus software for data visualization and sensor management
- Sensor package has ION geophones as its core
- Proven track record in precision geophones manufacturing since 1967
- All sensors manufactured and tested under ISO 9001:2015 certification

The Morandi bridge tragedy in 2018 shook the civil engineering world's confidence in concrete bridge construction techniques. The following year, the Italian state passed a requirement that road and motorway infrastructures be subject to dynamic monitoring, using modern, reliable techniques to ensure the safety of the public. With over 1.5 million bridges in Italy, many of them built of concrete between the 1950s and 1980s, the task of monitoring them is a daunting one.

Move Solutions, an Italian company, focused on the design and production of innovative devices for monitoring large structures. Their solution, Deck, is a system that measures the amplitude of the displacement, with an accuracy of one hundredth of a millimeter, of any structure to which it is applied.



For more information visit: [www.movesolutions.it/en/](http://www.movesolutions.it/en/)

### About ION

ION is a technology leader with a strong history of innovation. Leveraging innovative technologies, ION creates value through data capture, analysis and optimization to enhance companies' critical decision-making abilities and returns. Our offerings are focused on improving E&P decision-making, enhancing reservoir management and optimizing offshore operations.