

Services Overview



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Value proposition

Technological solutions for security, resilience and sustainability of infrastructure and territory

Combining advanced research and technological development, NHAZCA creates state-of-the-art solutions that protect and monitor the environment and critical assets.



About us



NHAZCA (Natural HAZards Control and Assessment) is an international leader in the analysis and monitoring of natural hazards and large infrastructures for the management and mitigation of risks.

We are passionate geologists, civil engineers, project managers, and technicians, offering a unique blend of expertise from both the private and academic sectors.

Since 2009, our ambition has been relentless: to transform geological and geotechnical data into action for the prevention and management of natural hazards, ensuring the sustainability of structures and infrastructures, with a single, globally applicable protocol.



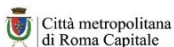
Our mission

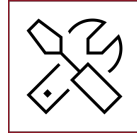
To empower clients with comprehensive solutions for analyzing and monitoring natural hazards and structural health. Through a combination of expertise, innovation, and dedication, we deliver consultancy services and technological tools that enhance safety, optimize performance and minimize risks.

Our vision

To become the premier provider of efficient, reliable, innovative, high-quality products and services for the analysis & monitoring of natural hazards and structural health.

Clients





Services



→ Structural Health Monitoring



NHAZCA's Structural Health Monitoring (SHM) is an approach that allows us to assess and manage the health of infrastructure over time. We do this by using a variety of structural integrity investigation techniques to monitor and analyze the conditions of bridges, buildings, dams, and other relevant structures.

Our vision of structural monitoring helps us detect early signs of deterioration or damage, while providing data to organize predictive maintenance and make more strategic decisions.

Who is SHM useful for?



Operators and/or owners of road, rail and infrastructure assets

NHAZCA's SHM is a tool for ensuring the safety and efficiency of critical infrastructure. Using advanced technologies, we constantly monitor the status of assets, minimising risk and optimising maintenance.



THE ADVANTAGES OF STRUCTURAL HEALTH MONITORING

Continuous maintenance support

The SHM service constantly monitors the infrastructure, enabling proactive maintenance and reducing the risk of sudden failures.

Risk minimisation

Using advanced technologies such as SAR interferometry and Photomonitoring™, NHAZCA identifies potential risks at an early stage, protecting the integrity of assets.

Large-scale characterisation

NHAZCA uses innovative technologies to survey and monitor vast networks of infrastructure, providing a comprehensive and detailed view of their condition.



Public administrations and local authorities

The SHM service helps public sector organisations to effectively manage and protect their infrastructures. We provide accurate data and in-depth analysis for informed and timely risk management.



THE ADVANTAGES OF STRUCTURAL HEALTH MONITORING

Detailed information on infrastructure

We provide public authorities with accurate data on the condition and safety of the infrastructure under their responsibility, enabling informed and responsible management.

Identification of risk areas

The SHM system is useful for identifying potential risk areas, helping administrations to plan targeted interventions and reducing the need for manual inspections.

Innovative technologies for continuous monitoring

Using advanced tools such as SAR interferometry and UAV systems, NHAZCA provides non-invasive, large-scale monitoring.



Construction companies

NHAZCA supports construction companies with a structural monitoring service to guarantee the quality and safety of the work at all stages of the project.



THE ADVANTAGES OF STRUCTURAL HEALTH MONITORING

Accurate damage assessment

During the construction phase, the SHM service allows real-time monitoring of any damage or structural defects, ensuring the quality of the work.

Infrastructure testing support

NHAZCA supports construction companies during the testing phase, using advanced technologies to verify the correspondence with the design parameters.

Large-scale monitoring

Using technologies such as SAR interferometry and Photomonitoring™, NHAZCA can give you a comprehensive view of structures, ensuring targeted and timely intervention.



Superintendencies

NHAZCA helps authorities to preserve and monitor buildings of historic and artistic interest using non-invasive technologies. Our Structural Health Monitoring service provides continuous monitoring to ensure the preservation and safety of cultural heritage.



THE ADVANTAGES OF STRUCTURAL HEALTH MONITORING

Conservation of historical assets

NHAZCA assists the Superintendencies in the monitoring and maintenance of buildings of historical and artistic interest in order to preserve their integrity over time.

Non-invasive monitoring

Using advanced technologies such as Photomonitoring™ and TInSAR, we provide accurate monitoring without compromising the original structure of buildings.

Environmental risk protection

The SHM service enables the early identification of environmental risks that could affect the stability of cultural assets, with fast and effective solutions.

Contacts

**Get in touch with us now and
revolutionise the security of
your area with high
technology**

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