

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

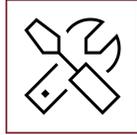
To empower clients with comprehensive solutions for analyzing and monitoring natural hazards and structural health. Through a combination of expertise, innovation, and dedication, we deliver consultancy services and technological tools that enhance safety, optimize performance and minimize risks.

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



→ SGAM



SGAM is a unique model for improving the financial resilience of the geotechnical assets of large linear infrastructure networks to optimise facility management and predictive maintenance.

The heart of SGAM is its technology: through the use of artificial intelligence, SGAM is able to build its analyses by **combining information from satellite platforms**, global and regional geohazard **databases**, field survey data, and ground-based structural and geotechnical/geomorphological monitoring systems.

Unlike traditional GAM, which focuses on monitoring limited areas that are already exposed to event risks, SGAM works by monitoring large infrastructure networks, not just selected segments, for more effective management of geotechnical assets.

Who is SGAM for?



SGAM for transportation companies

SGAM helps you identify landslide-prone areas along road routes, ground deformation, seismic hazard and geotechnical hazards for predictive maintenance and costs optimization.



THE ADVANTAGES OF SGAM

Zero interruptions

It minimises downtime and economic loss by anticipating risks along the transport route.

Responding to natural hazards

It identifies areas at risk from different geohazards by leveraging multiple sources of information.

Advanced monitoring

It detects geological, geotechnical and geomorphological clues to ensure the safety of roads, highways and railways.

Operational optimisation

Enhances asset operations through historical data and multi-source analysis, enabling a better understanding of territorial processes

Strategic maintenance

It supports owners and managers of infrastructure networks in the identification of priorities for maintenance programs.



SGAM for Electricity Transmission Infrastructure

SGAM is a resource to prevent customer disruption and avoid economic loss due to network failure.



THE ADVANTAGES OF SGAM

Service guarantee

SGAM prevents disruption and ensures business continuity at a local and regional level.

Reducing economic risks

It minimises economic losses due to network outages, protecting the interests of your customers and the security of your infrastructure.



SGAM for water transport infrastructure

SGAM allows you to assess the vulnerability of transmission structures by monitoring ground deformation and seismic risk.



THE ADVANTAGES OF SGAM

More stability

With SGAM, you can manage the constant monitoring of ground deformation to prevent damage to water infrastructure.

Flood prevention

It provides early identification of risk areas that could adversely affect pipes and transmission lines.

Seismic safety

Know your seismic vulnerability and ensure uninterrupted operations by protecting your assets.



SGAM for Oil & Gas companies

By choosing SGAM, you can prevent environmental disasters by controlling geological hazards and scheduling asset maintenance to prevent leaks and fires.



THE ADVANTAGES OF SGAM

Environmental protection

SGAM helps prevent environmental disasters by carefully monitoring risk areas around infrastructure.

Fire prevention

It provides early detection of potential leaks that could lead to accidental fires, creating a safer environment.

Contacts

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

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