



besafe

Census | Inspection | Monitoring | Predictive analysis



## INFRASTRUCTURE SAFETY BETWEEN DIGITAL AND INNOVATION

BeSafe is AISICO's new integrated platform for managing and assessing the safety of engineering structures.

The **BeSafe** platform is capable of integrating and managing all the information and innovative technologies necessary for safety verification and infrastructure monitoring, from census to predictive analysis.

**BeSafe** is not only a **Bridge Management System**, with which you can view information relating to the census and inspection of infrastructure in accordance with LL.GG.22, but also a tool capable of **objectively and automatically assessing the state of deterioration** and remaining useful life of the inspected works.

Through the **BeSafe** platform, it is possible to **manage the complete digitisation** of the structure, through **continuous monitoring, artificial intelligence, Digital Twin, FEM, BIM and 3D**.



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## DATA ACQUISITION

- Census
- Geomorphological characterisation of the surrounding area
- Qualified bridge inspectors – UAS pilots – Surveyors – Structural engineers

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## POST PROCESSING

- Identification and automatic classification of defects using AI
- 3D Digital Twin and BIM Digital Twin
- Automatic assessment of CdA
- Investigation Plan
- FEM Digital Twin
- Calculation of VAL3 and VAL4

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## CONTINUOUS MONITORING

- Design of logical and analogue IoT sensors with Wi-Fi connections
- Installation and acquisition of sensor data
- Visualisation, management, interpretation and storage of data from sensors
- Model Updating Digital Twin FEM

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## PREDICTIVE ANALYSIS

- Structural intervention priorities
- Statistical and predictive analysis
- Remaining useful life
- Collapse risk anticipation





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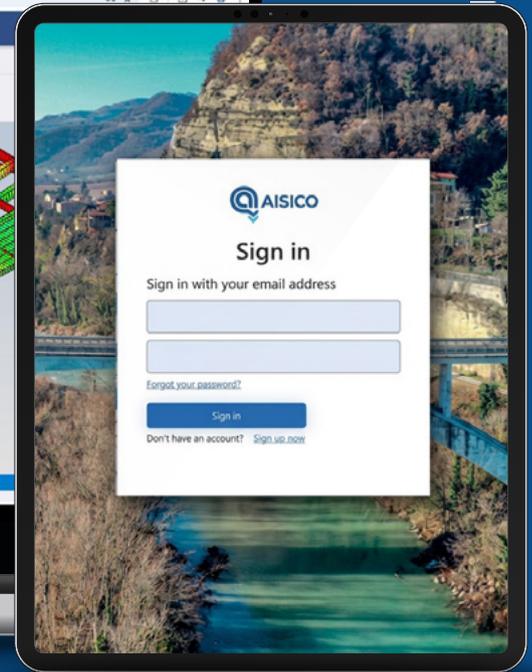
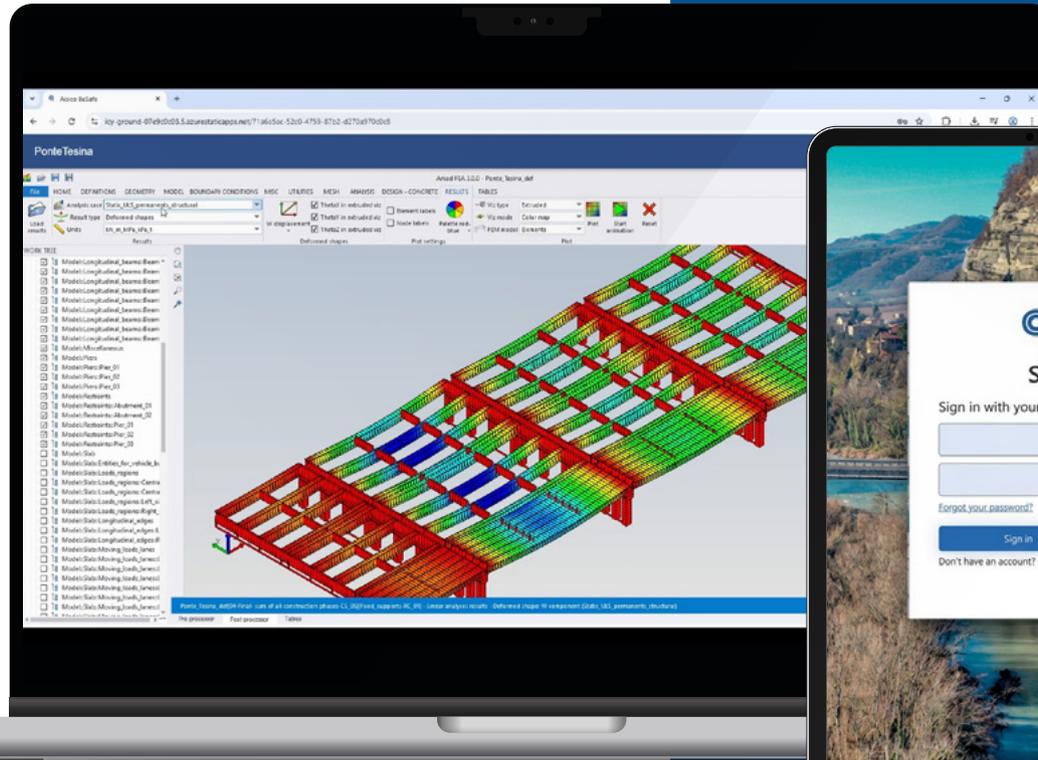
## The integrated **BeSafe** platform, with a single 'management software' allows you to:

- ✓ Have a **BMS** available
  - ✓ Collect the **census** data sheets necessary to understand the state of deterioration of the structure
  - ✓ Identify and catalogue surface defects through the use of **artificial intelligence software**
  - ✓ View the detailed **photographic catalogue**
  - ✓ Perform **automated calculation of CdA**
  - ✓ Calculate the Weighted Degradation Index to establish **intervention priorities**
  - ✓ Archive all technical and administrative documentation
  - ✓ Manage the 3D **Digital Twin, BIM, FEM** and IoT sensors
  - ✓ Obtain **predictive analysis** of the behaviour of the structure
  - ✓ Estimate the **remaining useful life** of the structure
  - ✓ Assess the **priorities** for structural **intervention**
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**BeSafe** is a revolutionary innovation in the maintenance sector for the intelligent inspection and dynamic monitoring of critical infrastructure such as bridges, viaducts and tunnels.

To discover more about  
**BeSafe** scan the **QR-code**.





For over thirty years, AISICO has been committed to road safety, offering testing and verification services, both in the laboratory and on site, for transport infrastructure and street furniture, conformity certification, research and development projects, and training.

SAFER ON THE ROAD,  
SAFER IN LIFE.

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