

# ARGO

## TOMORROW'S TECHNOLOGY ON TODAY'S ROADS

An aerial photograph of a multi-lane highway winding through a landscape of fields and trees. A glowing white network of nodes and lines is superimposed over the road, representing a digital or autonomous infrastructure. A large white semi-truck and a smaller car are visible on the road. The overall color palette is a mix of natural greens and blues with the white glow of the network.

**MOVYON**  
Tech the Future

ARGO is the extended platform for **managing and monitoring infrastructure life cycles**.  
All the potential of Digital Engineering in a single solution:

Complete **digitization**  
of infrastructure assets

**Mobile APP** and **Digital  
Twin** to support on-site  
and remote inspections

**Database** for management,  
governance and control of  
data and processes

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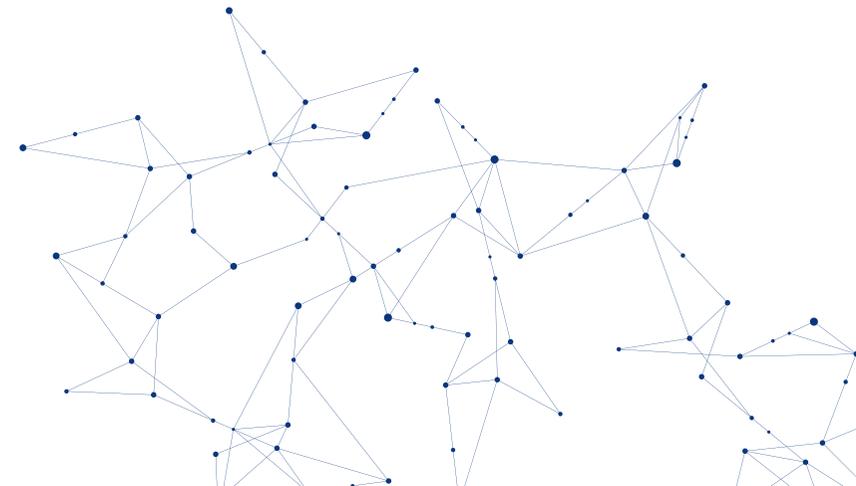
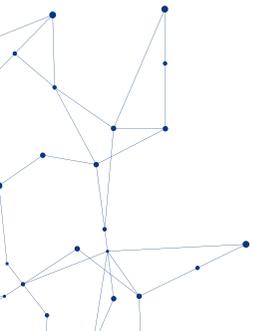
**Artificial Intelligence**  
for image recognition  
and defect analysis

Integration of data  
collected by **IoT sensors**  
for structural monitoring

**PARTNERS**



**IBM**



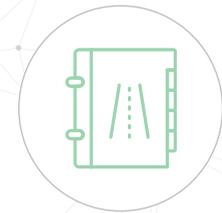
## ARGO'S BENEFITS



Digitization of assets



Transparency and data control



Analytics and reporting on assets and their defects



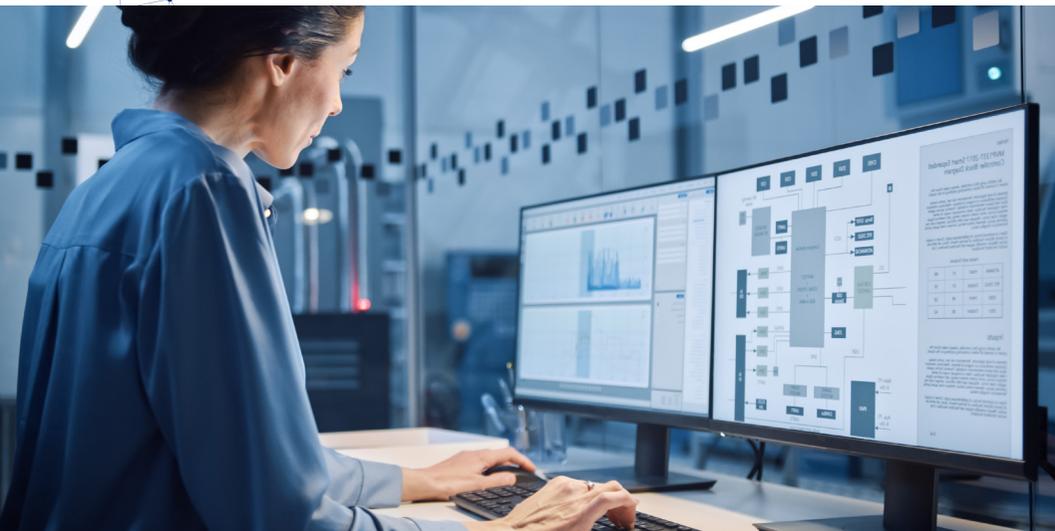
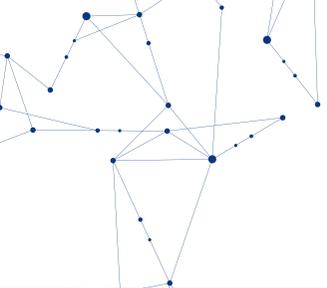
Increased productivity and efficiency of inspection processes



Modular and scalable platform



Health monitoring of infrastructures in real time

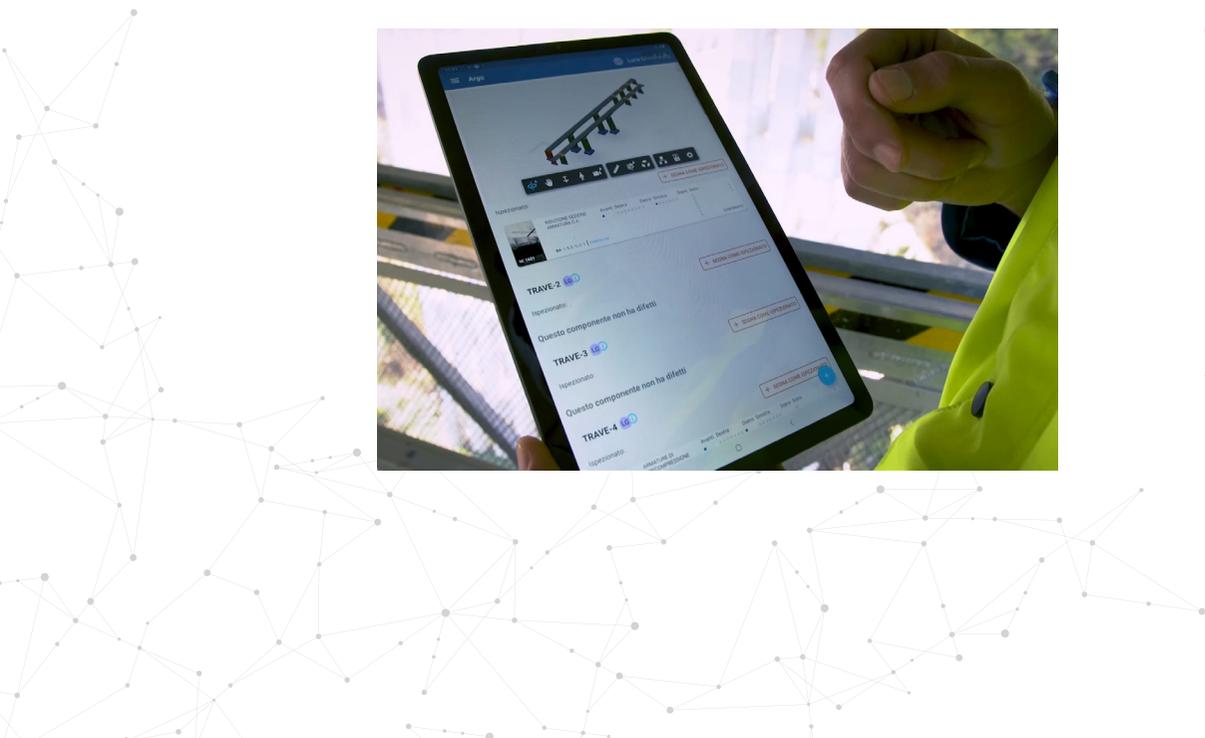


## ASSET MANAGEMENT AND DIGITIZATION

All infrastructures just a click away

The digital inventory is an archive based **on IBM Maximo technology**. It allows the **collection, management and control** of structural data concerning the individual components of bridges, overpasses, viaducts and tunnels, information and process quality, while simultaneously defining the Data Governance tools **in real time**.

Based on data stored in the digital inventory, the system generates simplified **Building Information Modeling (BIM) of the infrastructure**: crucial support for the operator when navigating the asset during the inspection process.



## THE MOBILE APP

In operators' hands, standing by their side

During on-site or remote activity, the user is fully supported by the Mobile App, which allows to **browse the infrastructure and enter all the inspection information** for each individual component: from the detected defect (or its absence) to the precise location on individual components, and photographs.

The Mobile App makes sure everything has been inspected and only does it authorize the final stage of the process, with **maximum precision** and **safety**.

## DIGITAL TWIN

Each asset has its digital twin

Equipped with very high-resolution video cameras and LIDAR lasers, the drones provided by Fincantieri Next Tech perform a **3-dimensional scan**.

The **millions of geo-referenced points** generated are associated with the **related real photographs of the asset** and are transformed into an **accurate and completely digital reconstruction**.



## ARTIFICIAL INTELLIGENCE

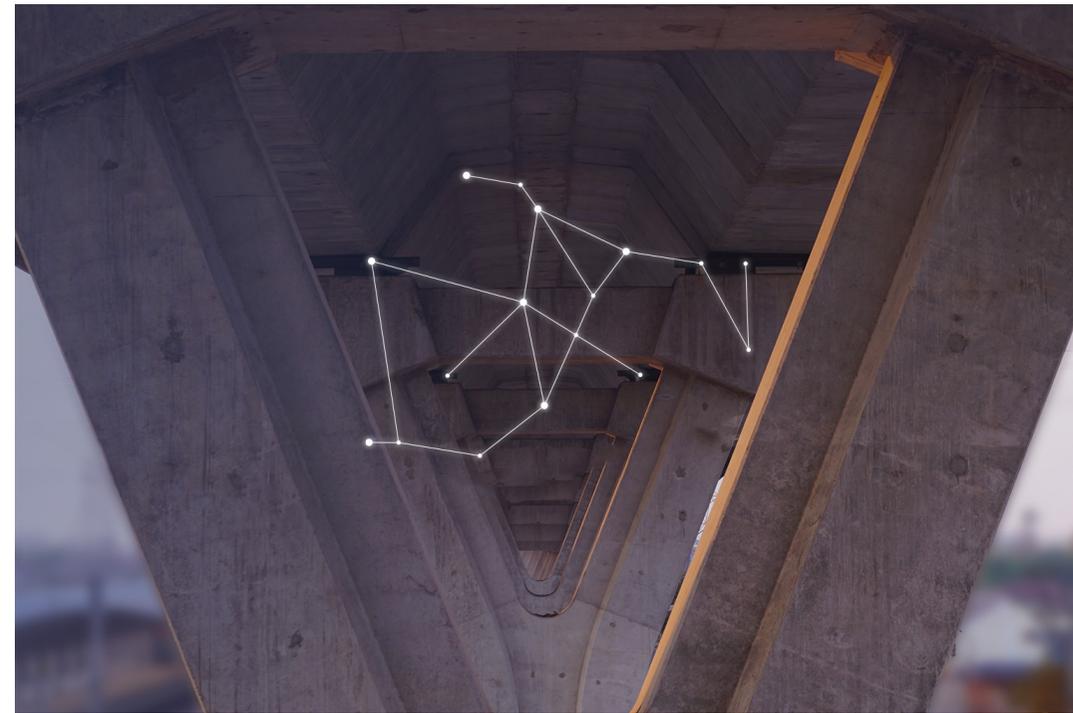
Algorithms supporting decisions

The **detection and analysis of defects** and their evolution is **assisted** by the application of **AI. Image Recognition algorithms** support operators' decisions through prompt analysis of photographs taken in the field and by drones and the identification of defects associated with the infrastructure components.

## IoT SENSORS

To monitor infrastructures

The installation of **IoT sensors** on infrastructures allows the collection of a large amount of data to perform **assessments and health checks** on them. The data is measured automatically on the platform and flows into the system in aggregate form, providing precise indicators for evaluation.





**ARGO'S FIGURES ON AUTOSTRADA  
PER L'ITALIA'S NETWORK**

**1,940+**  
bridges  
and viaducts

**1,800+**  
overpasses

**570+**  
tunnels

**3,000**  
km road  
network

**650,000**  
components

## ABOUT US

We are leaders in the development and integration of **Intelligent Transport System solutions** and Autostrade per l'Italia's centre of excellence for research and innovation.

We are **digital engineering for mobility**: we design, integrate and implement **innovative solutions to design the future**, which, for us, is already intelligent, sustainable and powered by an invisible but ever-present technology.

We operate in **Italy and abroad**, developing systems for monitoring and managing infrastructures, for controlling and managing road conditions and road safety, for toll payment, smart roads and smart cities.

We work with our customers - **public administrations, distributed infrastructure providers, large companies, and service providers** - to make the travel experience more convenient, easier and safer for the community.

We are committed **to improving operational processes and finding innovative and technologically advanced solutions.**





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