Network Inspections

- c.9,000 Inspections executed in 2023 on tunnels, bridges, viaducts and overpasses in compliance with a risk-based approach set out in the new guidelines

New guidelines[1]

- o The guidelines propose a multi-level approach (from 0 to 4)

- o To each level corresponds an increasing level of commitment, frequency of inspection and planning of maintenance activities
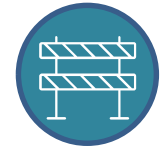
595 Tunnels

Ordinary + advanced inspection

Frequency as per the new guidelines on tunnels issued in 2022

1,979 Bridges and viaduct
1,802 Overpasses
605 infra with span 6-10m

Ordinary + advanced inspection

Frequency as per the new guidelines on bridges issued in 2020

9.834 km Safety barriers

Inspections are carried out every 2 years c. 5,000km in 2023

ARGO
Digital Twin

- Complete digitalization of infrastructure assets (bridges, viaducts, overpasses and infrastructures with span >6m covered)
- Database for data management, governance, and control
- APP to support field inspection, IoT sensors for monitoring infrastructures and Artificial Intelligence algorithms to analyse and recognise defects

(1) Guidelines for risk's classification and management, safety assessment and monitoring of existing bridges issued by the Superior Council for Public Works and subsequently updated as well the additional guidelines included in the specific operational instructions.

autostrade per l'italia