



18TH ROAD SAFETY CONFERENCE

9th March 2026, Chambéry

Brisa's Road Safety Approach

Building Resilient Roads

Teresa Zúniga Santo
Brisa Autoestradas

Hosted by



Agenda

01 Road network

02 Building resilient roads

03 Continuous improvement

04 Impact & results

01

Road network



Operation and management of 1.193 km of road network

 **7.3 Mkm**
Road assistance patrol

 **2.7 Mkm**
Road patrol by national authorities (GNR)

 **122.000**
Incidents

 **3.520**
Accidents

 **1.469**
Victims slightly injured

 **87**
Victims seriously injured

 **18**
Fatalities



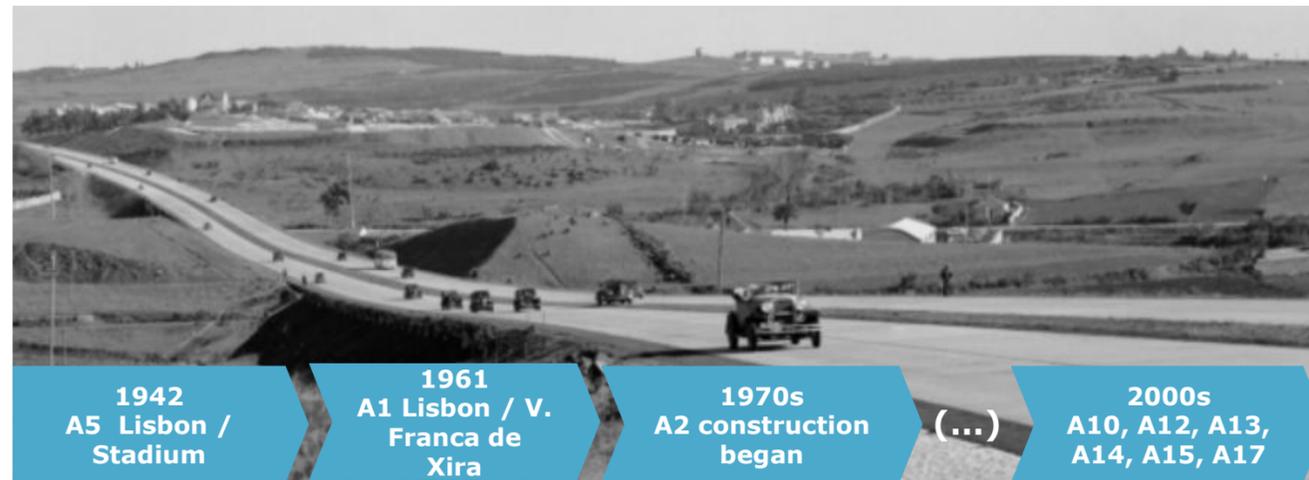
02

Building resilient roads

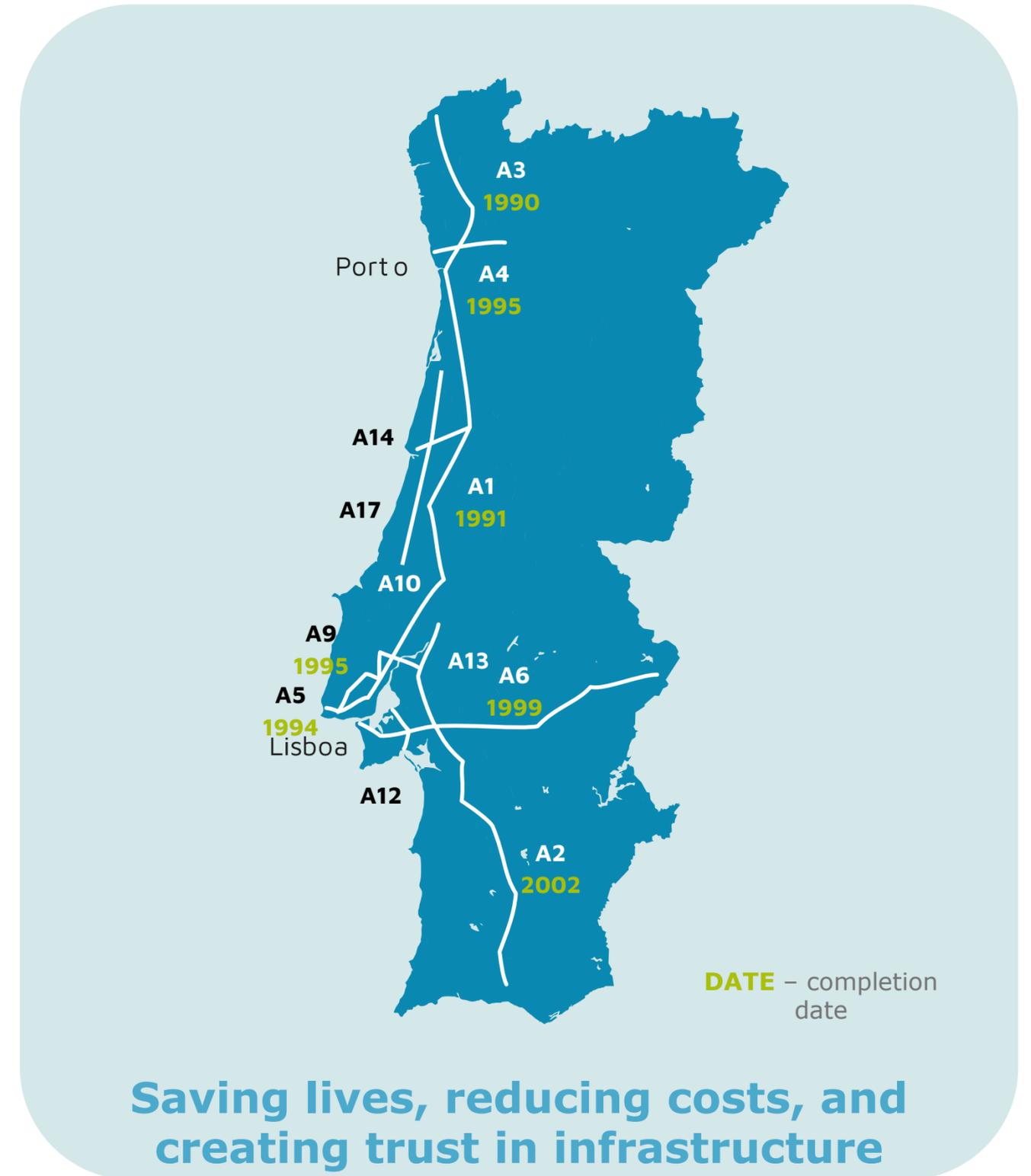


Building resilient roads

From building roads to building resilience



Building resilient roads requires integrating safety, infrastructure and operations from the start, with continuous adaptation **to evolving risks**



Saving lives, reducing costs, and creating trust in infrastructure

Network built across decades, risks are changing faster than infrastructure

Building resilient roads

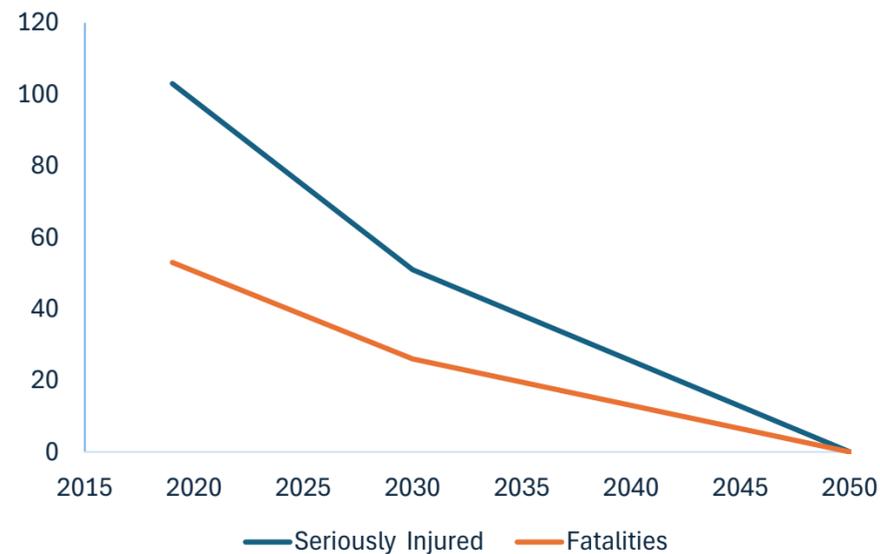
Why resilience matters now more than ever?

Zero fatalities is our goal

Road Safety goals

Reduce by **50%** the number of **fatalities and serious injuries** by **2030** (vs 2019)

Towards **zero by 2050**



Emerging risks



Climate → unpredictable



Traffic → more complex



Human → behaviour challenge

What is resilience?

-  Anticipate
-  Prevent
-  Respond
-  Adapt
-  Learn

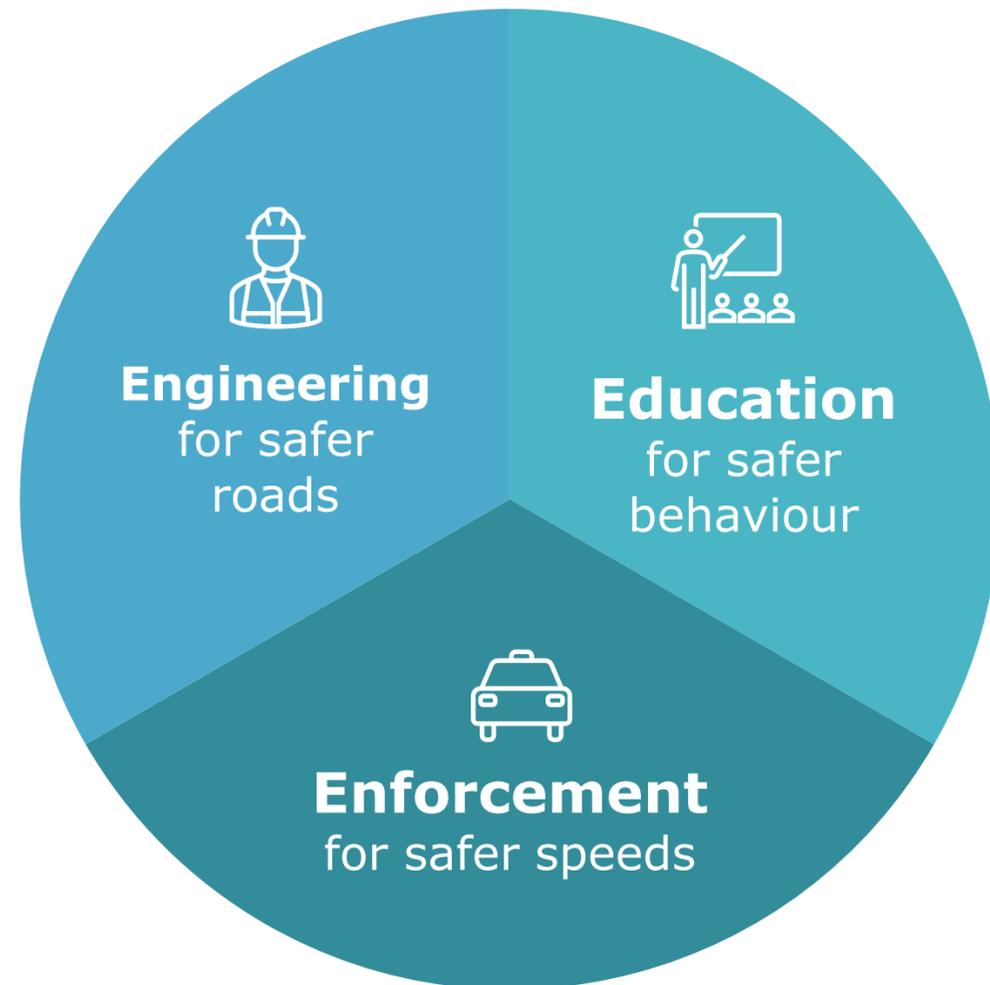
Infrastructure alone is no longer enough to ensure safety

Building resilient roads

Brisa's Road Safety Action Plan



Safe System



- Risk Prevention
- Risk Exposure Reduction
- Human-Centered Resilience
- Communication & Safety Culture

Road safety is no longer only infrastructure. It's a system.

03

Continuous improvement



Network capacity upgrade A3 Famalicão interchange



Problem

- High congestion at the motorway exit, with queues extending back to the previous interchange
- Queues reaching up to 4 km



Solution

- Exit reconfiguration from 1 to 2 lanes
- Installation of collapsible signposts (EN 12767 compliant)
- Removal of hazardous elements from the run-off area



Impact

- Increased exit capacity
- Improved traffic flow
- Reduced queue length
- Enhanced safety and user comfort

Completed
Nov 2024

Improving capacity at critical points enhances the performance of the entire network

Strengthening gantries for structural resilience



Problem

- Increasing frequency of severe storms
- Wind as the governing load for gantry structures
- Risk of structural failure impacting safety and network availability



Solution

- Structural assessment of 1,200 gantries
- Reinforcement and design upgrades for extreme wind loads
- Preventive interventions to ensure structural resilience



Impact

- No structural failures across the network
- Structures withstood recent severe storms



Completed
2025

Ensuring structural resilience is essential to guarantee safety and network continuity

Strengthening critical viaducts on the main Lisbon access

Problem

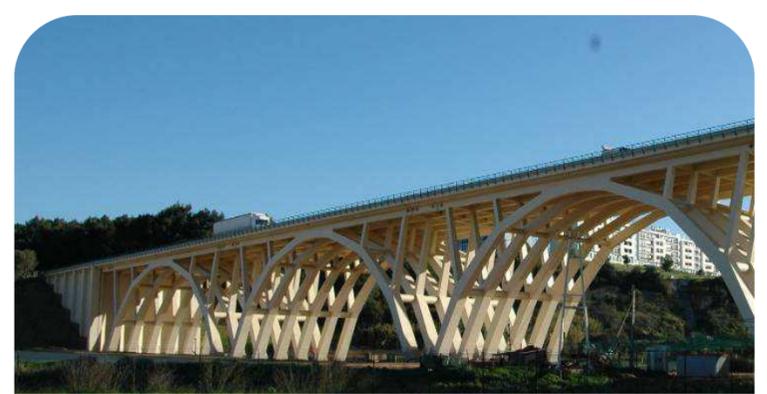
- Ageing infrastructure
- Strategic A1 corridor
- Essential for service continuity

Solution

- Assessment of critical assets
- Targeted strengthening of key viaducts
- Preventive interventions to ensure long-term performance

Impact

- Improved structural safety under extreme events (earthquakes)
- Reduced risk of disruption to traffic and emergency services



Trancão River Viaduct



Alhandra Viaduct



Vila Franca de Xira Viaduct

Completed by 2026

Ensuring continuity of a strategic corridor

Operational response



Work processes

- New procedures for **installation of temporary signage** were defined
- Adoption of **automated solutions**, including bush pruners for central dividers



New equipment

- **Truck Mounted Attenuators** for visibility and protection
- **X-cone** vehicle for automatic cone placement
- Trailers with **Variable Message Signs** for dynamic signage



Temporary Road Signaling

High-visibility signage to improve traffic management and road availability

Impact

- 80% reduction in risk exposure time
- Improved safety and reduced worker exposure on the road









Education & communication

Training and Education

- Defensive driving training by the **Brisa Driving Academy**
- **Continuous training** through classroom sessions, hands-on practice and e-learning
- Road safety education through **school programmes**



Communication

Raising awareness and fostering a **safety culture**

- Communication campaigns
- Brand activations
- Participation in national and international road safety campaigns



Creating a shared responsibility for safety among all stakeholders



Innovation

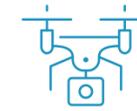
Partnerships

Partnerships with **startups** and **academia** to test proof-of-concept technological solutions aimed at:

- Reducing risk exposure
- Improving incident detection
- Promoting safer infrastructure and driving behaviour



Key projects



Drones

to enhance road monitoring and incident detection



LiDAR

to enable predictive infrastructure maintenance



Always On

to detect incidents in real time



SmartDriver

to identify risky driving behavior

By driving innovation with a structured, forward-thinking vision, Brisa Group is shaping safer and smarter mobility

ÉTICA EXCELÊNCIA
PESSOAS
INOVAÇÃO
SUSTENTABILIDADE

04

Impact & results





Brisa Group achievements

Governance

- Signed the 2nd Vision Zero 2030[®] commitment with the National Road Safety Authority for 2026-2027
- Active participation in national and international road safety associations



ISO 39001 certification

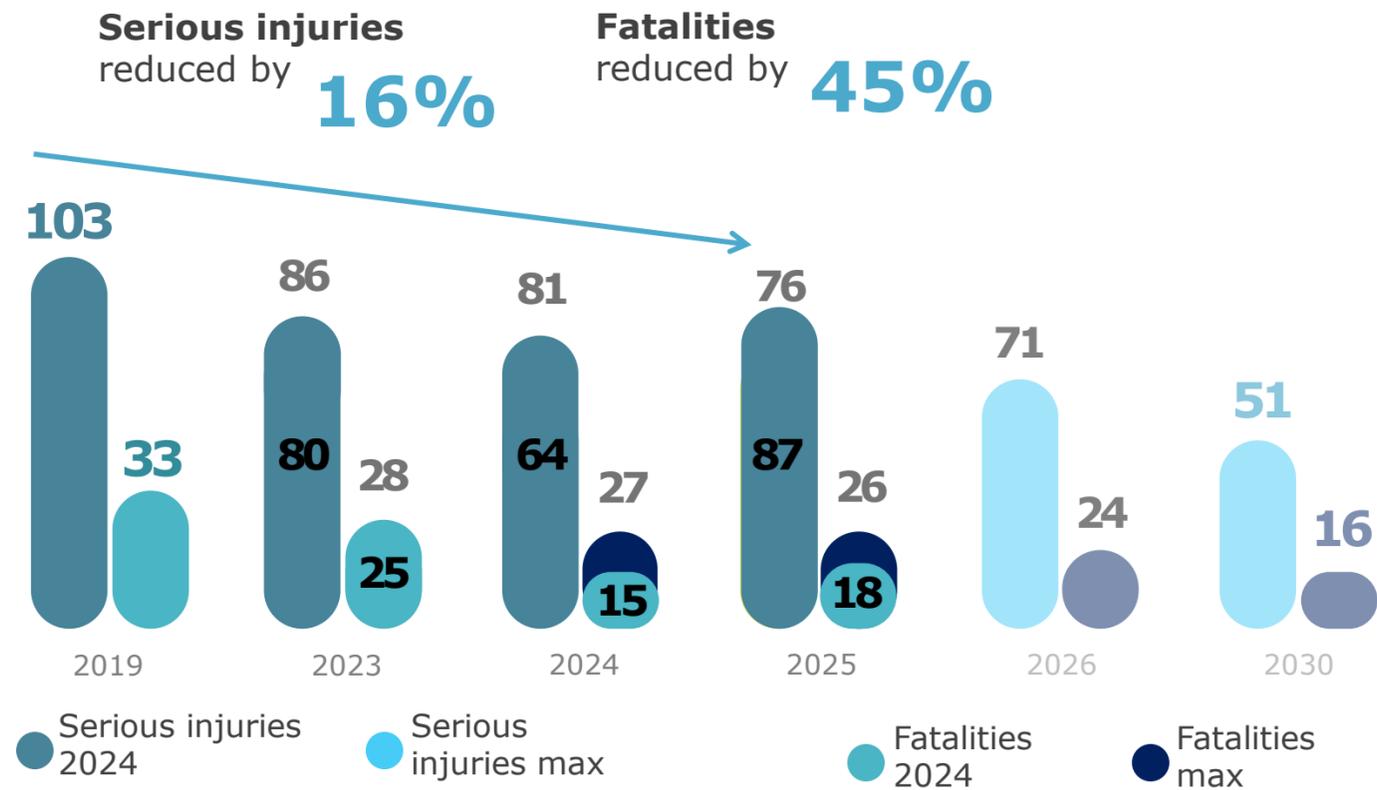
The international standard for Road Traffic Safety (RTS) management systems helps **improve road safety** and reinforces our **commitment to continuous improvement**



A systemic approach to safety delivers results

Brisa Group achievements

Road Safety impact: 2025 vs 2019



Brisa's Road Safety approach delivers consistent and measurable results

THANK YOU

Presented by:

Teresa Zúniga Santo
Brisa Autoestradas



+351 961 687 275



teresa.santo@brisa.pt



Quinta Torre da Aguilha
Edif. Brisa, Aptd.250
2785-599 São Domingos de Rana

Viajar é mais do que
fazer um percurso.
É ir onde nos esperam e chegar
onde somos queridos.

Até amanhã!



 **Briso**
Autoestradas

 **Briso**
Autoestradas

**Conduza como se
houvesse amanhã.**

Saiba como fazer uma viagem
mais segura e cómoda



Com o apoio de

 **ANSR**
AUTORIDADE NACIONAL
SEGURANÇA RODoviÁRIA