



SECAP

16th ROAD SAFETY CONFERENCE

5th of March 2024

Madrid, Spain

Hosted by

seopan
Asociación de Empresas Constructoras
y Concesionarias de Infraestructuras

WORKING TOGETHER TOWARDS ROAD SAFETY CONTINUOUS IMPROVEMENT

TERESA ZÚNIGA SANTO
BRISA GROUP



Current figures

Our goals

What we are doing

Next steps

The largest concession manager in Portugal

since 1972

Operation and management
of 1.357 km of road network

Figures
2023



8 Mkm

Road assistance
patrolling



2.6 Mkm

Road patrolling by
national authorities (GNR)



150.000

Incidents



3.302

Accidents



1.518

Victims
slightly injured



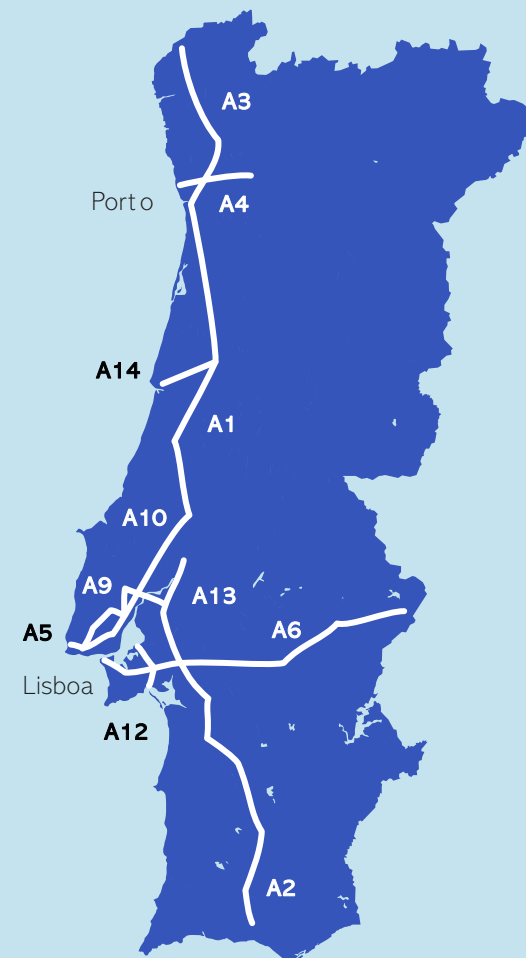
90

Victims
seriously injured



26

Fatalities



Road safety is core to
Brisa Group's
corporate purpose and values

Operation front office
Road assistance /
patrolling by national
authorities (GNR)



Working on smart
highways for
a safer reality

Operation back office
Operational coordination
center



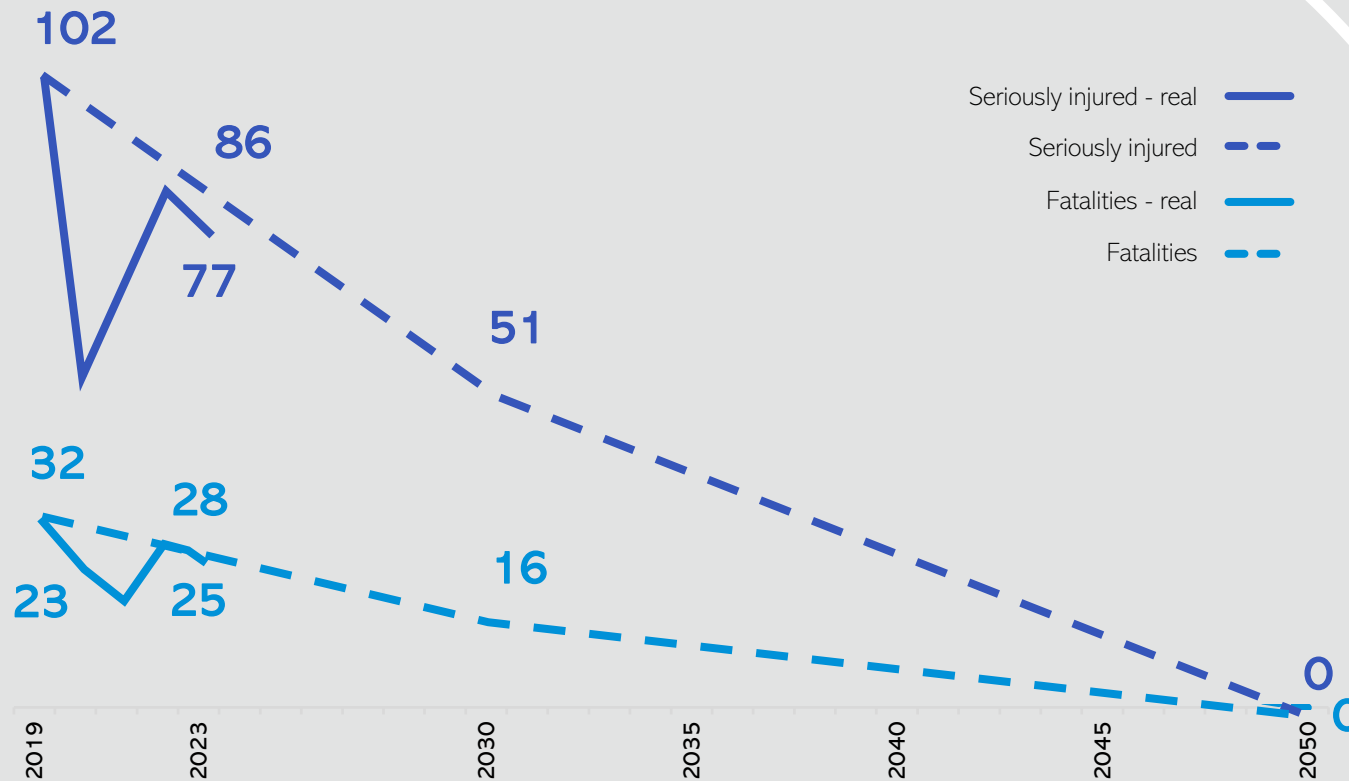
Road safety management
Immediate response
to incidents



Focused on Vision Zero

aligned with ESG goals

In December 2023, Brisa Autoestradas was the first to sign up to the national initiative *Compromisso Visão Zero 2030* launched by ANSR, adding to its already 20 years long commitment to EU Zero fatalities.



Reduce by 50% the number of fatalities and serious injuries by 2030 (vs 2019) towards zero by 2050



What are we doing to achieve such ambitious goals

Vehicle layout uniformization



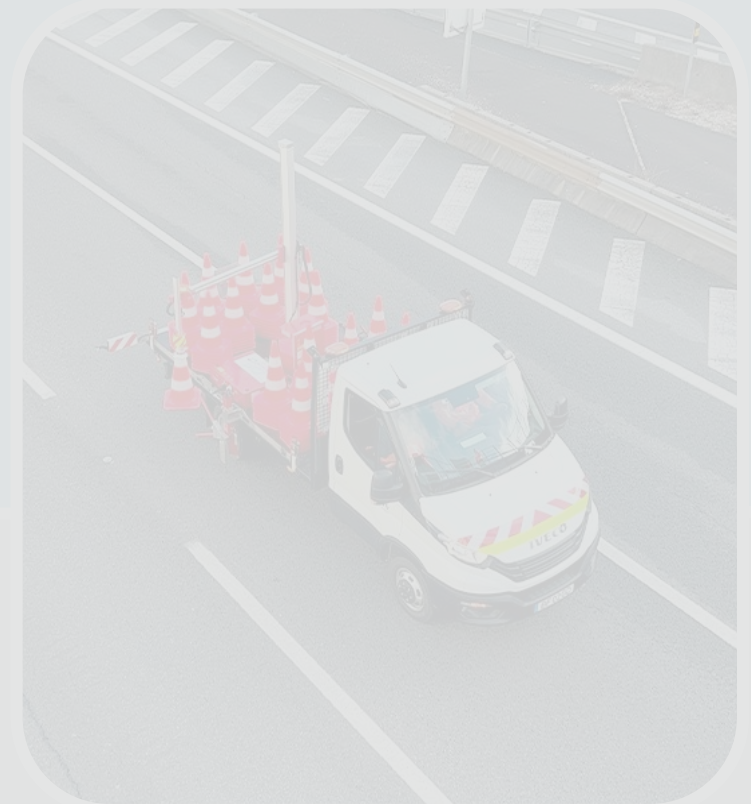
Vehicle layout uniformization



TMA



X-Cone





Fleet visibility update

How do we communicate to raise public awareness to **protect all the road system intervenients** and to **ensure road safety**?

Reinforcement of signaling and visibility

Fleet signaling

- ⬆ Increase the visibility of work vehicles
- ⬆ Ensure fleet homogeneity



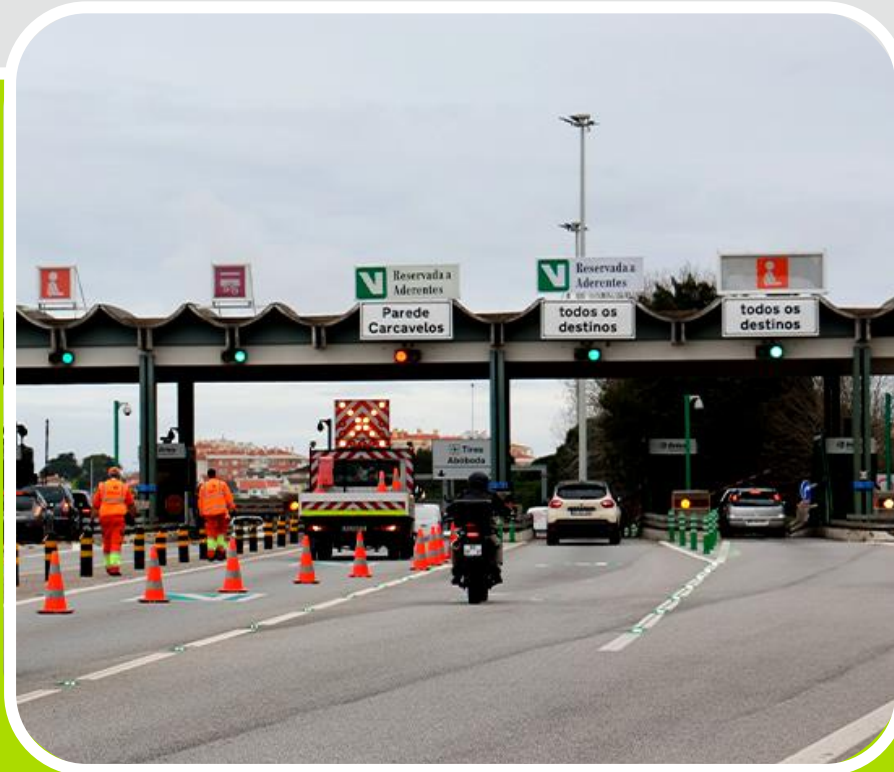
Fleet visibility update

How do we communicate to raise public awareness to **protect all the road system intervenients** and to **ensure road safety**?

Reinforcement of signaling and visibility

Dynamic lighting signage

- ▲ Dynamic information panels
- ▲ Warn and advise road users during incidents or road works



What are we doing to achieve such ambitious goals



Vehicle layout uniformization



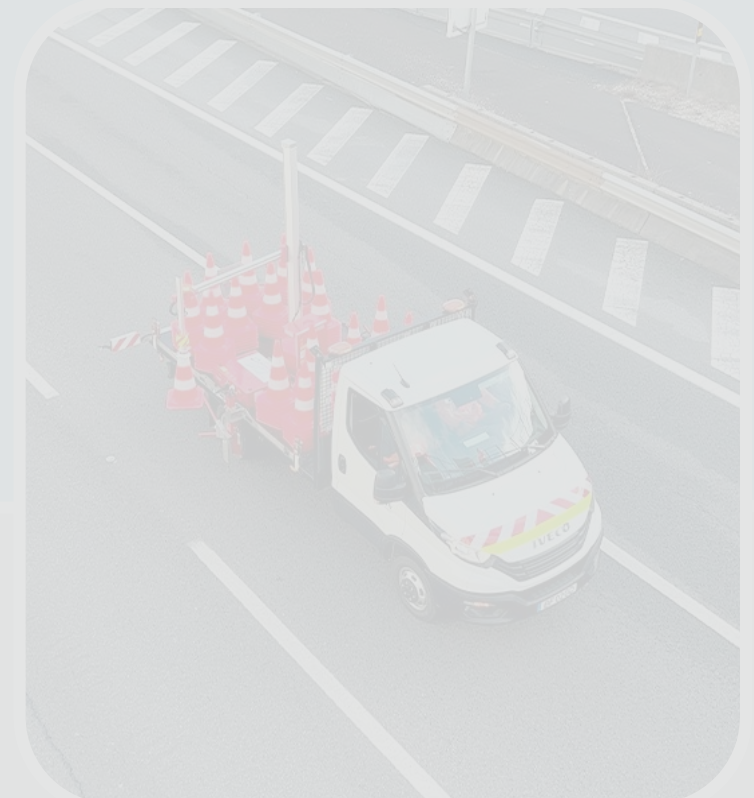
TMA



TMA



X-Cone





Truck Mounted Attenuators (TMA)

How do we communicate to raise public awareness to **protect all the road system intervenients** and to **ensure road safety**?

Severity mitigation in case of accident

- ⬆ Increase road works visibility
- ⬆ Mitigate the consequences of a collision
- ⬆ Increase protection of the work team

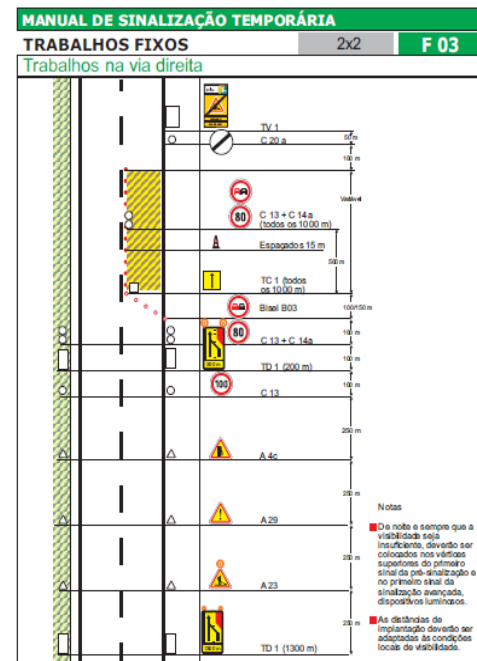




At the end of 2021, **Brisa Autoestradas** has defined that highway crossings for the installation/ uninstallation of vertical signs are forbidden.

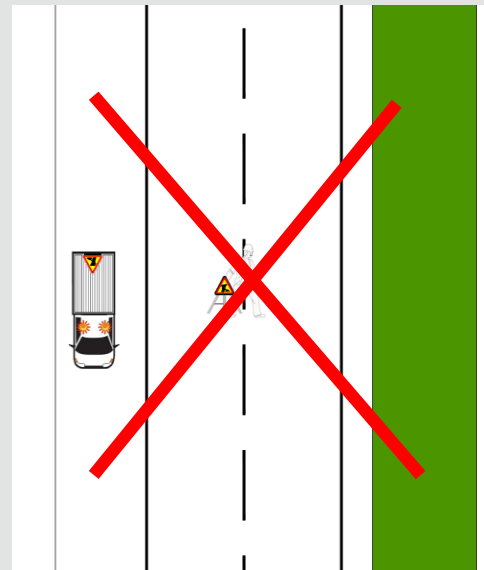
Methodologies for installing temporary signage

Present procedures

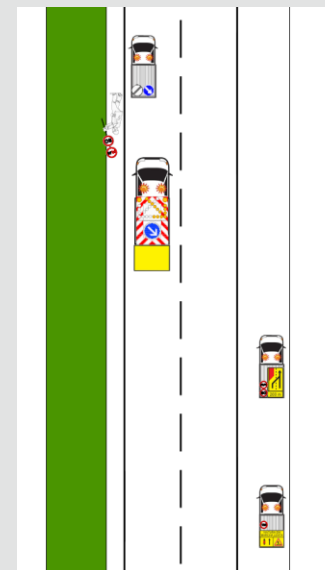


Elaborado por:
Brisa Autoestradas

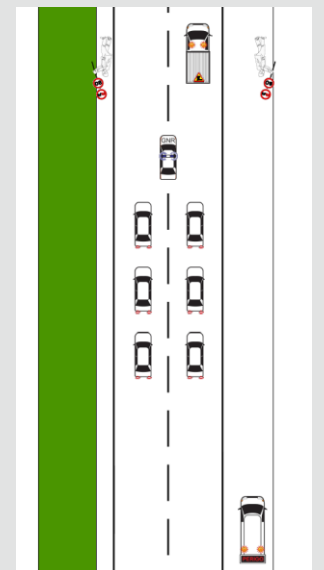
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Highway crossings by pedestrian workers
(Not allowed since Oct 2021)



Movable cuts with Truck Mounted Attenuators (TMA)



Occasional traffic slowdowns with authority's vehicle

Schemes of the Temporary Signaling Manual (MST) with ground-supported signaling

Truck Mounted Attenuators (TMA)

In 2022, new procedures for assembling and disassembling of temporary signage schemes were defined.

Since then, any severe accidents have been reported.



Operation Data

December 2021



TMA Number

15 TMA in operation
(+5 TMA awaiting approval)



Number of Working Hours

14 thousand hours

Any severe accidents



A41

May 2023

Accident in the left-lane, 1 slight injury
Cause: distraction



A33

June 2023

Accident in the left-lane, uninjured
Cause: distraction



A1

July 2023

Accident in the right-lane, uninjured
Cause: distraction



A1

August 2023

Accident in the right-lane, 2 slight injured
Cause: fatigue



A10

December 2023

Accident in the right shoulder, uninjured
Cause: unknown

What are we doing to achieve such ambitious goals

X-Cone



Vehicle layout uniformization



TMA



X-Cone





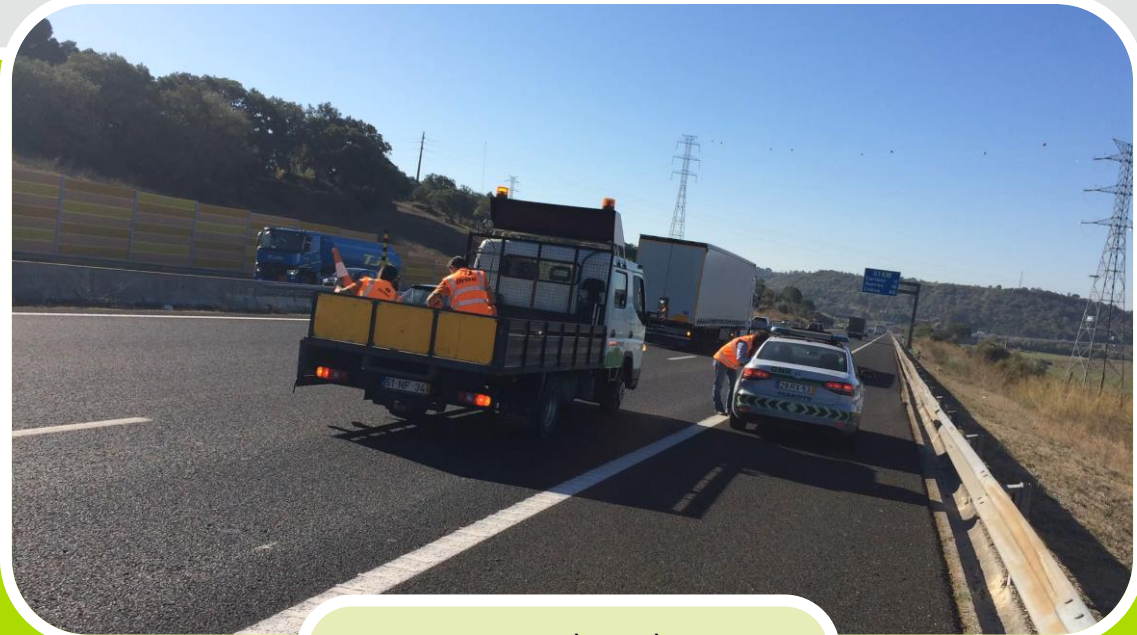
Traffic Cone Management System (x-cone)

How do we communicate to raise public awareness to **protect all the road system intervenients** and to **ensure road safety**?

Reduction of risk exposure

- ▲ Fully automated cone placement system
- ▲ Maximum efficiency in marking road cuts
- ▲ Automatic placement and removal of cones
- ▲ Capacity of 180 traffic cones (2,7km road cut)

Higher level of safety for workers



New technology



What are we doing to achieve such ambitious goals



Vehicle layout uniformization



TMA



X-Cone



This is what we are doing
**in terms of
technology**



**walk
the talk**

culture/
markcom

And we want to empower
**customers
to do their
part**



***Thank you for your
attention***

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