



16TH ASECAP ROAD SAFETY CONFERENCE. MADRID, 5TH MARCH 2024.

ACTING TO CHANGE DRIVER'S BEHAVIOUR TO REACH VISION ZERO
GOAL BOTH FOR MOTORIST AND STAFF

Elena de la Peña Deputy Director for Technical Affairs Spanish Road Association



CONTENTS

The Spanish Road Association

- 1.- Is "green" hiding safety?
- 2.- Technology and digitalization for the improvement of safety.
- 3.- The role of infrastructure in the framework of stabilized safety figures. Safe system approach.
- 4.- Legal framework, plans and programs.
- 5.- Societal issues.

Conclusions.

Final remarks.



SPANISH ROAD ASSOCIATION



- Non-profit organization focused on the defence, promotion and development of a better and safer road transport. Founded in 1949: 75 years working for a better road mobility!
- Based in Spain, working worldwide.
- Under the umbrella of the program "SAFE, GREEN AND CONNECTED ROADS".



- Areas of specialization: safety, digitalization, sustainability, taxonomy, financing, maintenance, ...
- 4 main lines of activity:





Technical support, consultancy & research.



Networking.



Training.

• Founding members of:











1.- IS "GREEN" HIDING SAFETY?

The situation:

Next Generation EU.

Green Deal.



Make it safe & secure?



And the Safety Deal?

The first climateneutral continent

additional trees to be planted in the

European Commission Policy.



4.1 Infrastructure - safe roads and roadsides

KPI for infrastructure:

Percentage of distance driven over roads with a safety rating above an agreed threshold.



Directive 2004/54/EC on minimum safety requirements for tunnels in the Trans-European Road Network.



Directive (EU) 2019/1936 on road infrastructure safety management.



EU Road Safety Policy Framework 2021–2030 – Recommendations on next steps towards "Vision Zero" (Official Journal of the EU 24.3.2022).



1.- IS "GREEN" HIDING SAFETY?

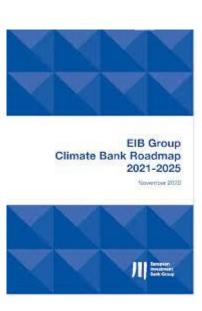
The situation:

- Trans-European network: Connecting Europe Facility.
 - 2022: Program "safe and secure mobility". 4% of total finance of CEF.
 - Results in Spain for road safety: safe and secure parking area in Murcia.



- World-wide vision: Development Banks.
 - Are they all more climate / green oriented?

- WHO 2nd global decade for road safety 2021–2030.
- Is there a global change in priorities?





1.- IS "GREEN" HIDING SAFETY?

Some ideas:

- Safety is one of the key elements of Sustainable Mobility.
- Safety as a priority for Lobbying:
 - Asecap, Smart Transportation Alliance, European Union Road Federation, national associations, etc.
- Climate and safety. Many climate events have an impact on road safety.
- Priority role of safety in ESG, should be more visible?
- Taxonomy: Green taxonomy vs social taxonomy.
 - Safety to play a key role in social taxonomy.



Perceived gaps in environmental Taxonomy

OBJECTIVES IN GREEN TAXONOMY

Climate Change Mitigation

Climate Change Adaptation

Transition to a circular economy

Pollution prevention and control

Sustainable use and protection of water and marine resources

Protection and restoration of biodiversity & ecosystems

EXAMPLES OF WHAT IS MISSING

Human Rights

Governance

Access to healthcare

Decent Employment

Equality

Non-discrimination



Social Taxonomy Ideas for Objectives



Managing Impact

Impact on Workers

Impact on Consumers

Impact on Communities

Governance

Good Corporate Governance*

Anti-Corruption

Transparent and Non-Aggressive Tax Planning

*including responsible lobbying

Promote Adequate Living Conditions for all

Fulfilment of basic human needs

Access to essential economic services/ infrastructure

Creation of decent employment

Peaceful and inclusive societies





2.- TECHNOLOGY FOR SAFETY IMPROVEMENT

The situation:







- · Significant technology deployment in motorways.
 - Motorways as the perfect ecosystem for innovation.







- Specific solutions for particular problems: fog, heavy rain, etc.
- Technology for safety of staff.



Spain workforce: 14.000 maintenance operators (ACEX). 100 victims yearly.







Since 2022: continuous mobility study by applying Big Data and Artificial Intelligence to cell phone data.





Dirección General de Carret

Transportes licita por 7,9 millones de euros un contrato para obtener y tratar datos de movilidad en la Red de Carreteras del Estado mediante herramientas Big Data





2.- TECHNOLOGY FOR SAFETY IMPROVEMENT

Some ideas:

- Motorways as Living labs for global solutions.
 - Motorway operators are key stakeholders of the innovation value chain. Connected and autonomous mobility.
 - Possibility to extend experience and results to the entire road network. Action!
- Investment in innovative solutions for road safety.
- Autonomous mobility: not only vehicles, but also optimal intelligent and connected road infrastructure.
- EU: lobbying for a major participation of road infrastructure in Horizon Europe and following programs.
 - STRIA: Strategic Transport Research & Innovation Agenda roadmap on infrastructure, focus on safety.
 - Input for Research & Innovation EU programs.
- Spain: INNOVATION PUBLIC PROCUREMENT ON ROADS.
 - Launched 2022 by Ministry of Transport, 10 challenges.
 - Road design, construction, sustainability, safety, energy efficiency, autonomous vehicles, Ai for road asset inspections, tunnel management, pavements, advanced road safety management, vulnerable users, wildlife.











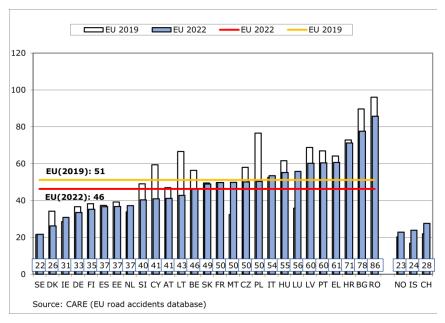


APPROACH

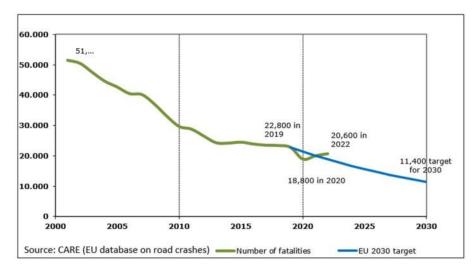
The situation:

• Stabilized safety figures across Europe.

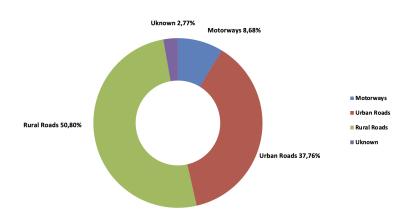
Road fatalities per million population, 2019-2022

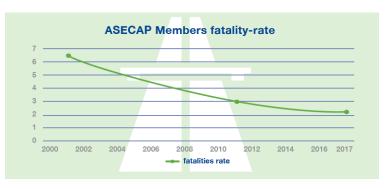


Evolution of fatalities in EU



Fatalities by road type in EU (2021)





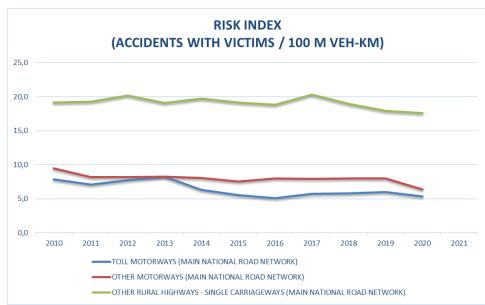
Source: European Union Road Federation with data from Eurostat



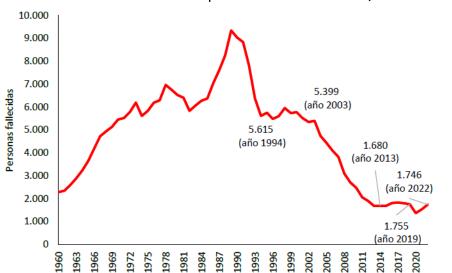
APPROACH

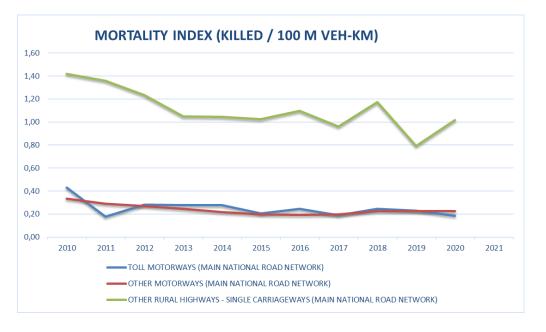
The situation:

Stabilized safety figures across Spain.



Evolution of victims killed in Spain in road accidents (Source: DGT)



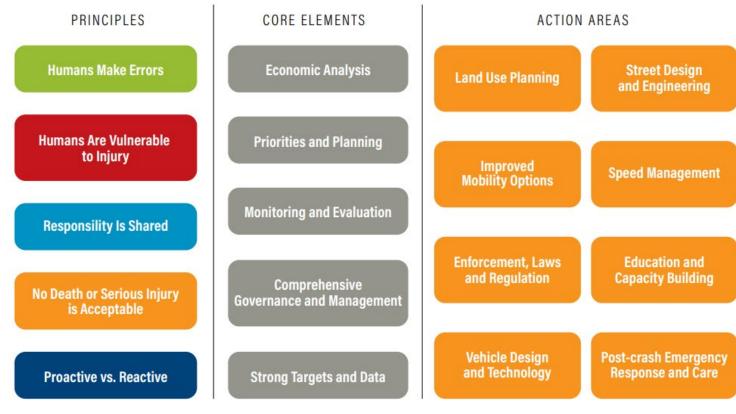




APPROACH

The situation:

• Safe System approach:



Source: Sustainable and Safer (World Resources Institute).

Vision Zero with Zero investment?



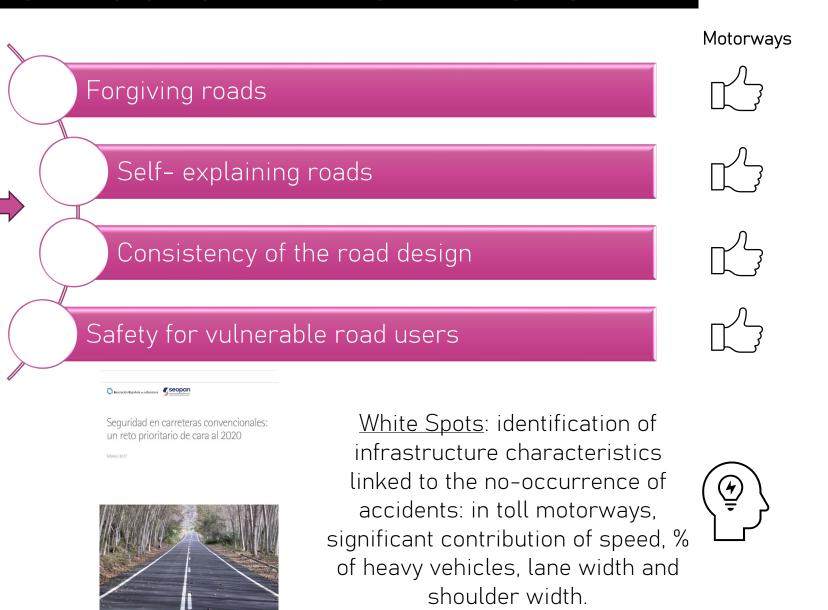
Certainly NOT!



APPROACH

Some ideas:

- Priorities for Safe System in road infrastructure.
- Focus on disperse accidents:
 - Preventive tools: road safety inspections.
 - Road sections with high potential for improvement (if any)
- Additional research programs Seopan-AEC on road safety improvements.





4.- LEGAL FRAMEWORK, PLANS AND PROGRAMS.

The situation:

- Adequate representation of road infrastructure in laws / policies / budgets for safe and sustainable mobility?
 - Specific program on Road Safety Strategy for road infrastructure, enough actions on infrastructure?
 - Different programs and investments of road administrations.
 - Law on sustainable mobility, recently approved in Spain.
 - February 2024, Spain: Creation of the Independent Authority for the Technical Investigation of Transport accidents, covering aviation, railways and maritime. Road accidents?
- · Safety improvement on Next Generation EU Spain.
 - From 11,300 M€ in the Ministry of Transport:
 - 858 M€: urban roads, tunnel upgrade in accordance to Directive, vulnerable users, animal runover, protection against noise.
 - 56 M€ for secure parking, ITS, hydrogen and sustainable pavement.
 - ITS in toll motorways was included!
 - Safety improvement in road infrastructure: not for other road administrations (regional or local).
- European Commission.
- Is this enough for a transport mode with almost 90% of goods and passengers?





4.- LEGAL FRAMEWORK, PLANS AND PROGRAMS.

Some ideas

- Recognise and support the role of roads:
 - In multimodal and combined transports, roads are key for modal shift.
 - In last-mile.
 - In climate change adaptation: roads are linked to the concept of redundancy, to avoid isolation of areas after climate events.
 - For demographic challenge (depopulated areas): roads not mentioned in the specific Spanish plan.
 - Under special circumstances (e.g. COVID-19).
 -
- Lobbying activities.
- And investments.



5.- SOCIETAL ISSUES.

The situation:

Negative concerns of toll motorways.



- Case of Spain:
 - End of concession contracts, free motorways received enthusiastically by governments and citizens.
 - Pay-per-use debate seems to be delayed, until when?
- Lack of:
 - Recognition of positive impacts of toll motorways.
 - Social concerns about safety improvement and other benefits.





5.- SOCIETAL ISSUES.

Some ideas:

- Focus on communication.
- Motorways are much more than a toll:
- Maintenance Safety Fuel CO₂ emissions. Vehicles wear. Tax revenues performance. level. consumption.

- Social rentability of motorways.
- Every week / weekend there is an opportunity to show high performance of motorways.

• ESG, we now safety is a priority: remark to the society.



KPI for infrastructure:

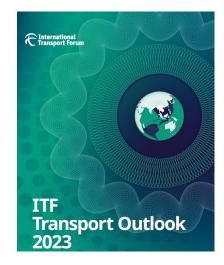
Percentage of distance driven over roads with a safety rating above an agreed threshold

CONCLUSIONS

- The society and decision takers need a major concern of the role motorways play in safe and sustainable mobility.
- Do not consider road safety as something we already got over. It was a challenge of the past, but it is still a challenge of the present and future!
- Road infrastructure: enormous potential for accident reduction.
 - Technology is key, but also "hardware" solutions.
 - Investments required.
- Potential of technology in mobility, but also risks linked to distractions, coexistence of different vehicles, etc.
- Lobbying actions.
- Communication actions, internal and external.
- Motorways as perfect living-labs.

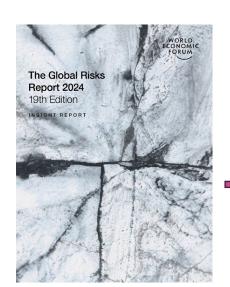


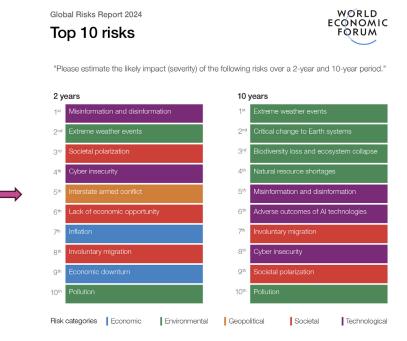
FINAL REMARKS



The High Ambition scenario: The necessary pathway to decarbonisation

Only one reference to safety, on urban areas.





Policy recommendations

Develop comprehensive strategies for future mobility and infrastructure Implement mode shift and demand-management policies where they are most effective

Accelerate the transition to clean vehicle fleets Consider the additional benefits for urban areas when evaluating policies

Reform vehicle taxation to capture external costs of new vehicle fleets

Extreme weather events

Cyber-insecurity

Pollution

Biodiversity loss and ecosystem collapse

. . . .

And safety!



THANK YOU FOR YOUR ATTENTION



