INTERNATIONAL ROAD SAFETY CONFERENCE
"ON THE ROAD TO VISION ZERO"

14MAY, 2025, Hyatt Regency Sofia, Sofia

BULGARIAN BRANCH ASSOCIATION
ROAD SAFETY

ERTICO
ITS EUROPE

Director of Strategy & Innovation
ERTICO – ITS Europe

CEDR Conference of European Directors of Roads
MINISTRY OF REGIONAL DEVELOPMENT AND PUBLIC WORKS
ROAD INFRASTRUCTURE AGENCY

BULGARIAN BRANCH ASSOCIATION
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MINISTRY OF REGIONAL DEVELOPMENT AND PUBLIC WORKS
ROAD INFRASTRUCTURE AGENCY

ertico.com
itseuropeancongress.com
itsworldcongress.com

- ✓ Established in 1991 by the European Commission and industry leaders
- ✓ Focus on innovation in the transport and mobility system
- ✓ European projects on research, innovation -> deployment
- ✓ Building bridges with the ITS community worldwide & thought leadership
- ✓ Organiser of ITS congresses

DUBAI
ITS World Congress
16 -20 September 2024
Mobility Driven by ITS

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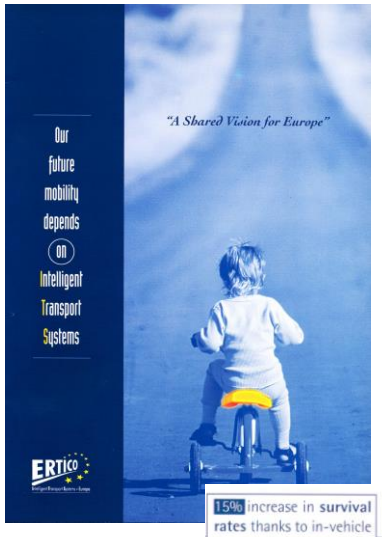
ERTICO VISION & MISSION

ERTICO ITS EUROPE



Source: ERTICO Vision 2017 (from 1997)

VISION

BRINGING INTELLIGENCE INTO MOBILITY TOWARDS:

SUSTAINABLE MOBILITY → REDUCED IMPACT ON THE ENVIRONMENT
EFFICIENT MOBILITY → ZERO DELAYS AND FULLY INFORMED USERS
SAFE MOBILITY → ZERO ACCIDENTS

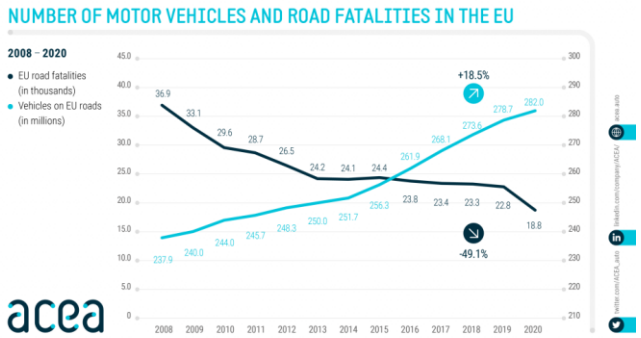
MISSION

ERTICO DEVELOPS, PROMOTES AND DEPLOYS INTELLIGENT MOBILITY SERVICES, BY PROVIDING A MULTI STAKEHOLDER PLATFORM FOR ACTION

15% increase in **survival rates** thanks to in-vehicle automatic emergency call systems

Road safety is dramatically improved; ITS significantly contributes to the reducing trend (50%) in **road fatalities**

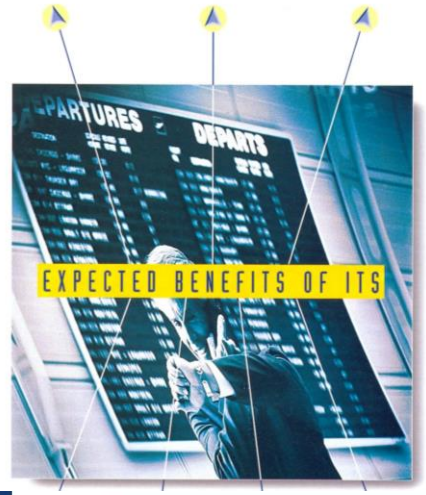
ITS reduces **travel time** by 25%, improving the overall quality of life



Source: ACEA https://www.acea.auto/figure/road-fatalities-and-motor-vehicles-in-eu/

1997: 45,000

2017: 23,400



Some examples of the ERTICO projects

ERTICO ITS EUROPE

data for road safety

CCAM

5GMETA, FAME, GUIDE, ENSEMBLE, IN2CCAM, napcore, CulturalRoad, PODIUM, SINFONICA, SUNRISE, V4SAFETY, wetransform

Clean & Eco-Mobility

eBRT 2030, eCHARGE4DRIVERS, LeMesurier, NextETRUCK, solutions plus, ZEV-UP

Transport & Logistics

Ploto

Urban Mobility

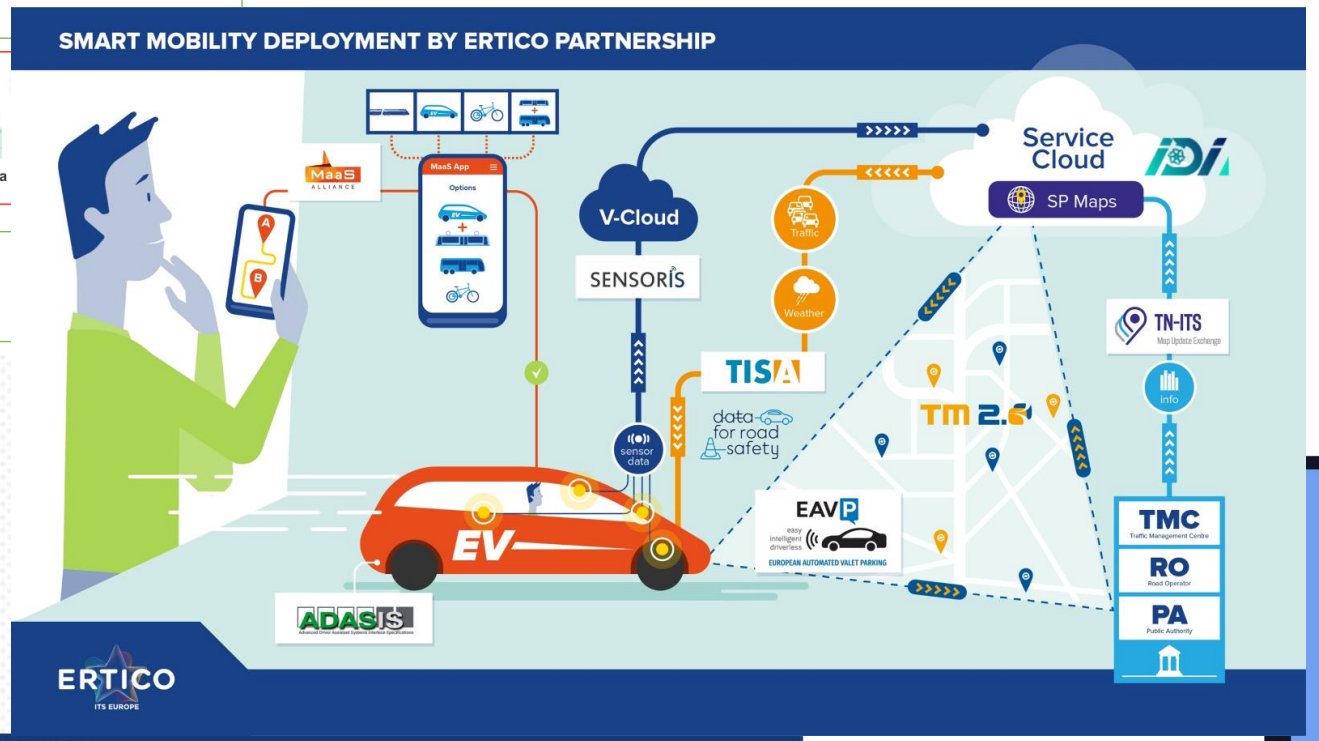
REAL LOCATE, SHOW, SUM, MaaS Konya

Cross sector

deploy EMDS, JULIA, PRIVATEER Privacy-first Security Enablers for 6G networks, STREnGth_M Strengthening EU Road Transport R&I

EVORDADS

camber



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EVOROADS

Digitalising Infrastructure, Engineering Safety

EvoRoads defines safety assessment criteria and quantification methodologies covering the entire spectrum of the "Safe System" approach. A digitalized platform enables dynamic monitoring of the infrastructure condition and road safety.

EvoRoads development is structured alongside a **Safety Assessment Framework**, a **cyber-physical Digital Twin, Advanced Monitoring Safety Systems, Proactive Safety Warning Systems**, and a **Safe Mobility Data Space** combining all project solutions.

The project solutions provide urban and rural road infrastructure owners with a clear representation of their roads' safety level, raise critical safety issues and pro-actively communicate warnings to different road users in real time.

Road authorities can manage more effectively safety risks across various transportation modes and make informed decisions on infrastructure upgrades and road safety investments.

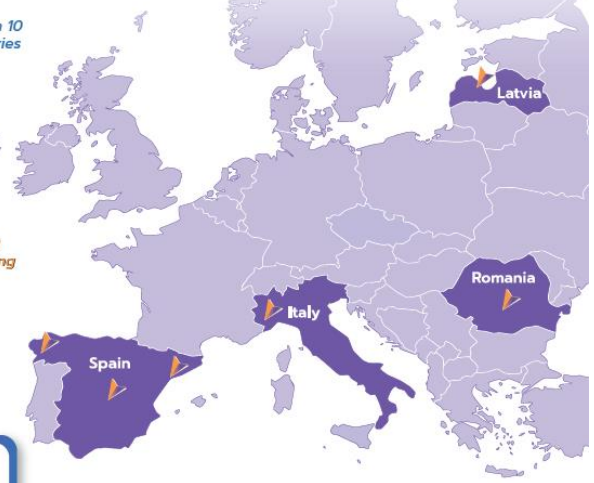
These solutions are deployed and tested in 6 pilots across Europe covering various urban and rural contexts, road safety quality levels and social conditions.

Funded by the European Union

Partners

ALBA IULIA · Beia · C2a · Cefriel · CSI · CTAG · dots. · DTU · ERTICO · eurecat · frontier innovations · Applus IDIADA · indra · inlecom · IRF · links · RIGA · University of Cyprus KOIOS · vti

Living Labs



20 partners from 10 European countries

1 May 2024 – 30 April 2027

Budget: € 4.9 Million EU funding

www.evoroads-project.eu

info@evoroads-project.eu

EvoRoads Project

CONTACT US

info@evoroads-project.eu

EvoRoads Project

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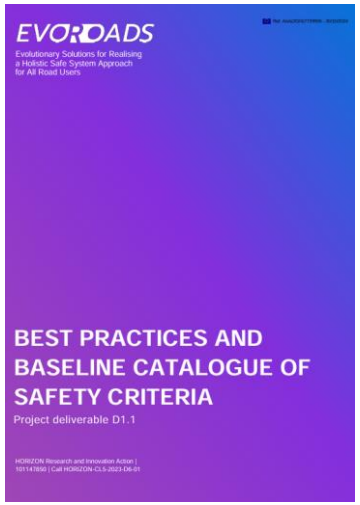
Key Innovations

The EvoRoads developments are structured alongside 5 axes covering different research and technological domains: a Safety Assessment Framework, a cyber-physical Digital Twin, Advanced Monitoring Safety Systems, Proactive Safety Warning Systems, and a Safe Mobility Data Space combining all project solutions.

EvoRoads solutions leverage data on infrastructure defects and risk prone locations to provide infrastructure owners with a clear representation of the safety level of their roads. They also ensure that critical safety issues are raised in real-time and pro-active warnings are communicated to different road user types to prevent safety hazards.

EvoRoads innnovations enable road authorities to manage safety risks more effectively across various transportation modes and make informed decision making on infrastructure upgrade and road safety investments.

- User Behaviour elicitation and nudging tools
- Micro-vehicle sensory kit
- Safe Mobility Data Space
- Policy adaptation & Roadmap
- Safety Assessment Criteria Catalogue
- Models
- Road Asset & Safety Management Digital Twin
- Road Maintenance Management Platform
- On-the-edge integrated platform
- Infrastructure Monitoring Platform



EVORDADS

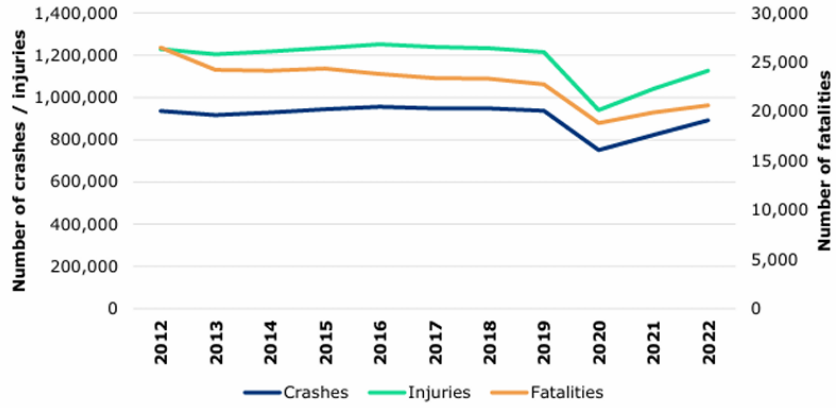


Figure 3 – Decade of Action 2021-2030 European middle term trends [7].

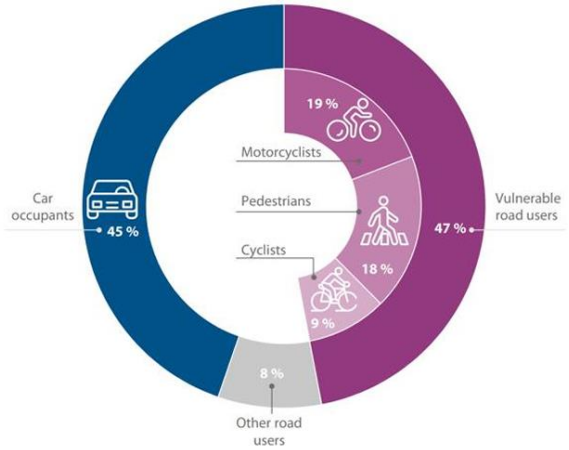


Figure 15 – EU road fatalities by road user (2021) [50]

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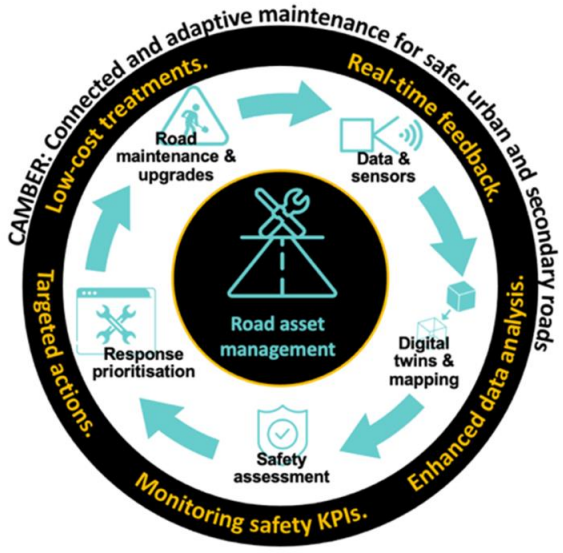
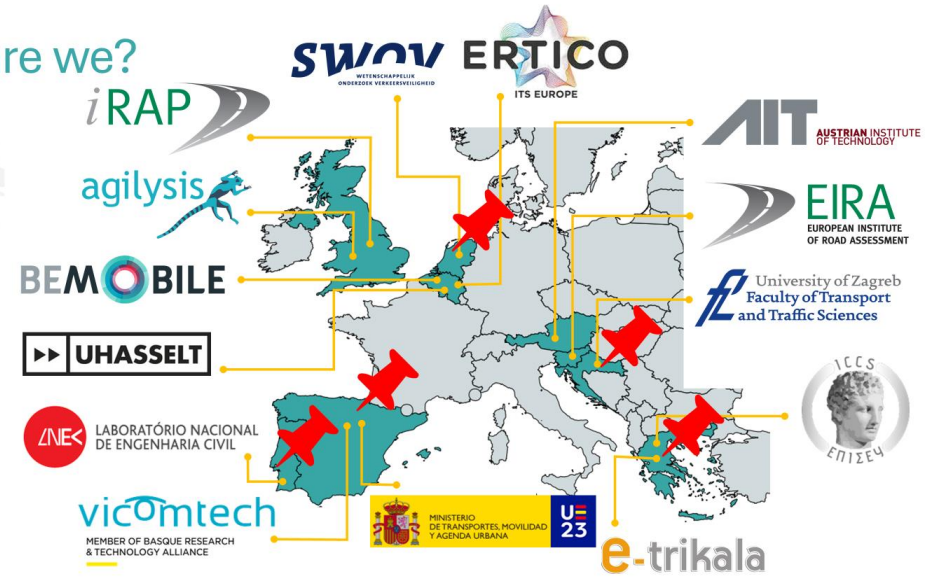
Connected and
Adaptive
Maintenance for
Safer Ur**b**an and
Se**c**ondary
Roads

CAMBER | Research and innovation actions



camber

Who are we?



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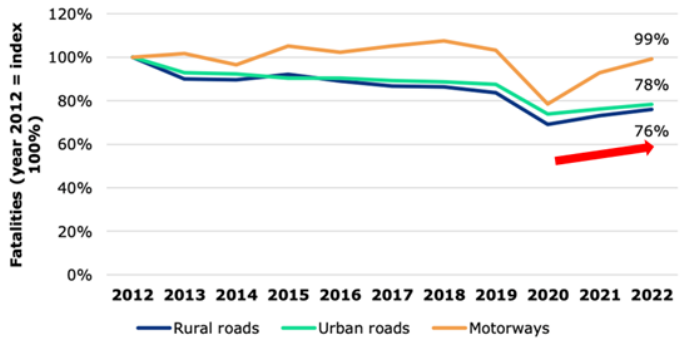
What challenges are we aiming to address?

1. There is a huge secondary road network in Europe (±725,000 km!)
2. It has a big safety problem. >90% of traffic fatalities in Europe occur on rural and urban roads, compared to 8% on motorways.
3. 1 in 3 are VRUs.
4. There is a target to halve traffic deaths and injuries by 2030, and eliminate them by 2050.
5. The trend is going in the wrong direction.

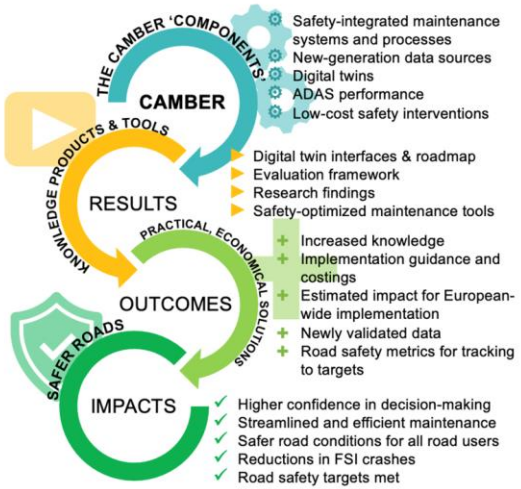
Figure 5. Trend of fatalities on motorways, rural roads and urban roads in the EU27 (2012-2022). Source: CARE

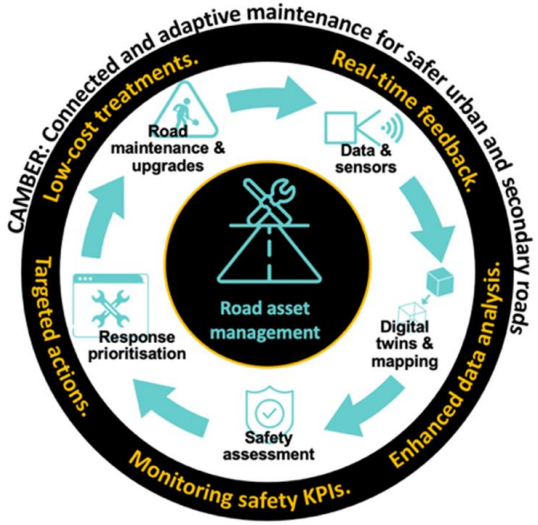


CAMBER methodology

The CAMBER components	Pillar 1: Expand and replicate	Pillar 2: Consult and collaborate	Pillar 3: Evaluate and extrapolate
Safety-integrated maintenance systems and processes New-generation data sources Digital twins ADAS performance, and Low-cost safety interventions.	Draws on deep expertise of the CAMBER partners to expand on existing cutting-edge technologies and models which have been proven to work, and further developing them to meet the specific needs of road managers. The enhanced components will then be replicated and tested in real-world pilot locations to demonstrate their application and evaluate their suitability.	The development process of all technical solutions will involve close consultation and collaboration (the second 'pillar') with local partners, experts, and stakeholders. Ensures the gaps and needs experienced by a broader range of road managers are properly understood and addressed.	All technical solutions developed will be subject to a rigorous evaluation guided by a comprehensive evaluation framework to evaluate the effectiveness of the proposed solutions against the objectives and anticipated impacts of the project.

WP	WP Title	Lead	Start month	End month
1	Project Management	EIRA	M1	M36
2	Methodological and Technical Approach	SWOV	M1	M12
3	Data Collection, Fusion and Provision	AIT	M6	M36
4	Solutions Investigation and Digital Twins	UH	M6	M36
5	Pilot testing and evaluation	ICCS	M10	M36
6	Dissemination, Exploitation and Stakeholder Involvement	ERTICO	M1	M36





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Introduction

- All European Transport Ministers, the European Commission and current industry partners established the Data for Road Safety during the High-Level Meeting on Connected and Automated Driving on 15 February 2017 in Amsterdam.
- The mission of the European Data for Road Safety is to improve road safety by maximizing the reach of safety-related traffic information powered by safety data generated by vehicles and infrastructure.
- The DFRS ecosystem supports the implementation of existing EU laws on access to safety data. By prioritising access to safety data and enabling collaboration between vehicle manufacturers and countries, the DFRS ecosystem aims to enhance traffic safety for all road users.

DFRS Partners

DFRS is made up of 22 partners

Key Principles

The DFRS is based of the following Key principles:

Free of charge…
Data is exchanged within the SRTI Ecosystem for the sole purpose of road safety, without any financial compensation between the parties and within the agreed data privacy policy.

…on the basis of reciprocity…
The reciprocity principle simply means that if you get something - you give something. Each role brings a value to the Ecosystem.

…for road safety
Data received through the SRTI Ecosystem can only be used to create Safety Related Traffic Information. It is strictly prohibited to use the data in the SRTI Ecosystem for any other purpose, as the members consider other usage to be commercial use cases.

These principles and other agreements are part of the Multi Party Agreement signed by the partners, and are valid within the SRTI Ecosystem. Joining the SRTI Ecosystem by signing the Multi Party Agreement alters however in no way any rights and obligations parties have, including the European Delegated Regulation on the exchange of Safety Related Traffic Information.

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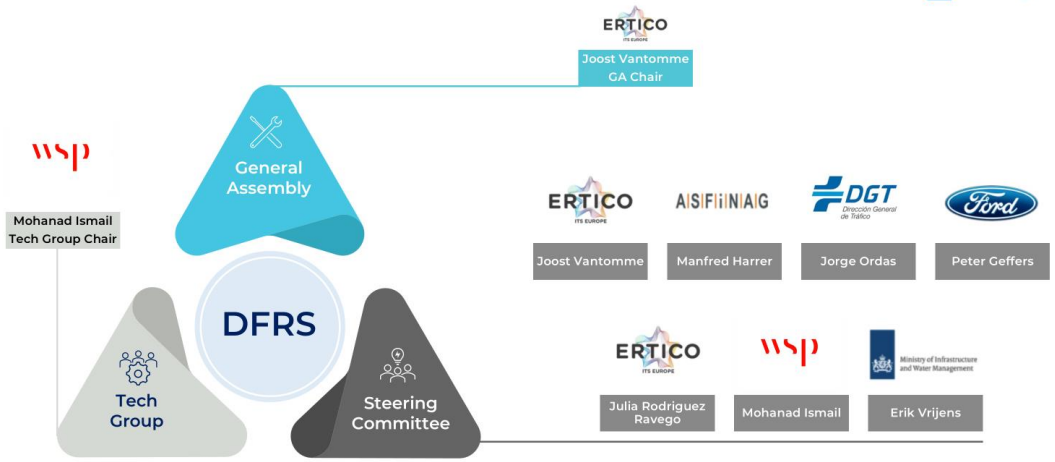
DFRS SETUP

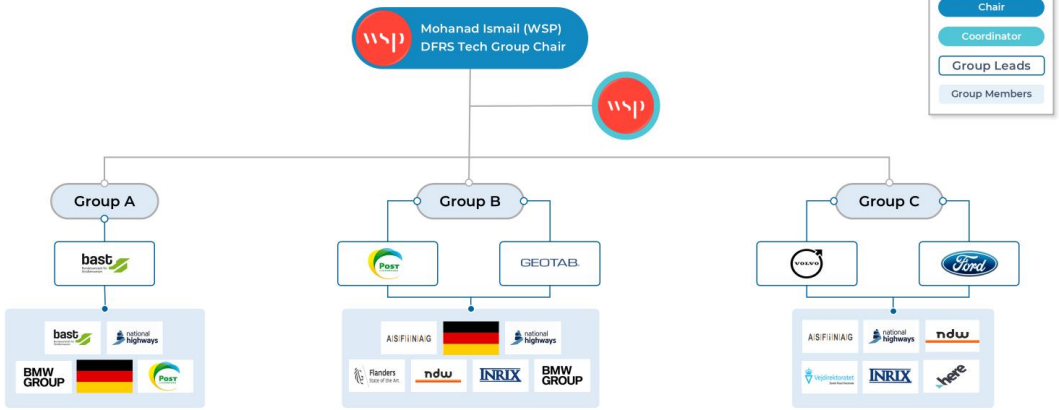
data for road safety



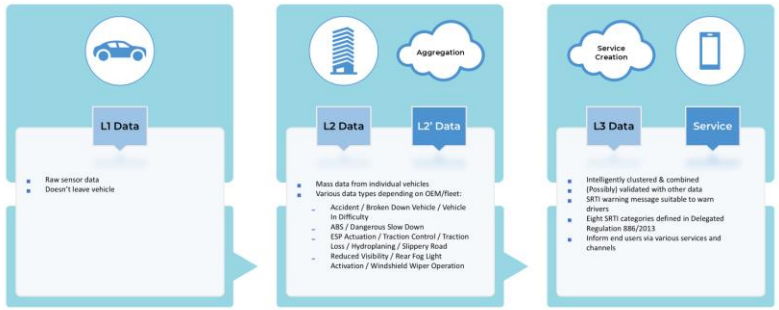
Tech Group Structure

data for road safety

The Tech Group is made up of three Groups



Types of Data



Tech Group Community Platforms

data for road safety

SharePoint

SharePoint Site containing news and information pertaining to the DFRS Tech Group.

WhatsApp

WhatsApp Group offer a space for the DFRS Tech Group to discuss any informal topics around the subject of DFRS

LinkedIn

Bringing together vehicle manufacturers, traffic information service providers, automotive suppliers and public authorities to significantly improve road safety across Europe.

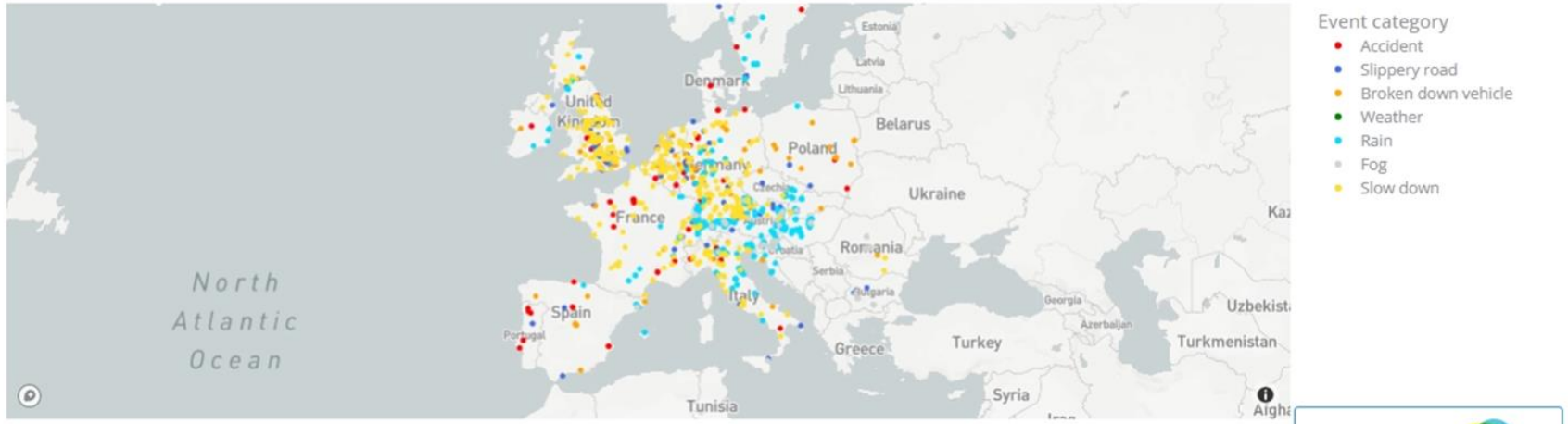
https://www.linkedin.com/company/dfrs-data-for-road-safety/

Note: Access to the DFRS SharePoint and WhatsApp Community platform is reserved for official members of the DFRS consortium.

DFRS Live Map

data for road safety

The DFRS live map is a tool that provides a holistic view of safety-related events occurring in the past 48 hours. The dashboard features an interactive map displaying several incidents.



The DFRS live map is not contractually binding real-time data (delayed by 48 hours for presentation purposes).
Join DFRS for live data streams

Live Map is available from the DFRS website: https://data-intelligence.post.lu/dfrs/

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