



Looking at future synergies to improve **road safety** in Western Balkans

TC Road Safety Technical Committee, 18 May 2021

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- **Non-profit organisation** based in Brussels representing the sector of the **road infrastructure** and defending the importance of the road network as essential part of Europe's economy and society:
 - ✓ In the EU, towards the EU institutions and NRA
 - ✓ Outside the EU
- Acts as a **platform for dialogue and research on mobility issues**
- 71 Members in 2021 (**in EU and global**) representing **National Road Associations** and **Industry Stakeholders**: construction and maintenance companies, manufacturers (signs, markings, barriers), test houses, research centres and academia)

Four major programmes with specific Working Groups to develop different activities with EU institutions, member states and relevant stakeholders:

- Sustainable Roads
- Infrastructure & Financing
- Smart Roads
- **Road Safety:**
 - ✓ **WG Road Restrain Systems**
 - ✓ **WG Markings**
 - ✓ **WG Signs**
 - ✓ **WG Work Zones Safety**

Technical Papers

ERF RECOMMENDATIONS ON ROAD MARKINGS

ERF technical recommendations to adapt CAVs - Road Markings

On 17 May 2018, the European Commission released the third set of actions to modernize the European transport sector by stressing the role of road infrastructure as key element of the road safety triangle complemented by users and vehicles¹. New actions of the mobility package include the revision of the General Safety Regulation and especially the Road Infrastructure Safety Management Directive with measures such as²:

- Properly designed and maintained markings and signs, which can be easily and reliably recognized by both human drivers and vehicles equipped with driver assistance systems or higher levels of automation.
- Development of general performance requirements to facilitate the recognition of road markings and road signs



1 https://ec.europa.eu/transport/modes/road/news/2018-05-17-europe-on-the-move-3_en
 2 <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32018R0274>



Improved Signage for Better Roads

An ERF Position Paper towards improving Traffic Signs in European Roads



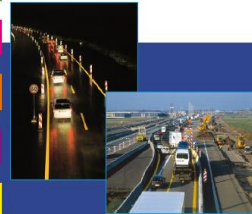
MARKING THE WAY TOWARDS A SAFER FUTURE

An ERF POSITION PAPER ON HOW ROAD MARKINGS CAN MAKE OUR ROAD SAFER



TOWARDS SAFER WORK ZONES

A CONSTRUCTIVE VISION OF THE PERFORMANCE OF SAFETY EQUIPMENT FOR WORK ZONES DEPLOYED ON TEN-T ROADS



ROAD ASSET MANAGEMENT

An ERF POSITION PAPER FOR MAINTAINING AND IMPROVING A SUSTAINABLE AND EFFICIENT ROAD NETWORK



European Projects



[WhiteRoads](#) white spots of at least 15 Kms with zero fatalities



[Rainvision](#): road safety impact of markings in wet, rainy, night conditions



[ECORoads](#): synergies between RISM and Tunnel Directives



[ROSA](#): infrastructure guidelines for PTW safety



[FORESEE](#): methodology to improve rail and road infrastructure resilience in case of extreme events (Natural and man-made)

Cooperation with the European Commission

- **EC Sub-Group on Markings and Signs (EGRIS)**

Within the framework of the RISM Directive, sharing technical knowledge with EC & Member States on safety performance for markings and signs (level of maintenance, contrast, reflectivity, materials) for machine vision and human eye perception

- **EU High Level Group on Road Safety**

Dialogue with public authorities & stakeholders providing infrastructure vision

- **CCAM Single Platform / European Partnership on CCAM**

Initiative to advice and support the EC & MS on future deployment of cooperative, connected and automated mobility

Technical cooperation with national authorities and stakeholders

- **CEN TC226 / WG12:** adaptation of current ENs in road infrastructure to ADAS/Automated vehicles ensuring minimum levels of safety
- **World Road Association (PIARC):** participation in working groups linked to Road Asset Management
- **US:** sharing expertise with counterparts involved in the adaptation of the Manual of Uniform Traffic Control Devices for Streets and Highways (MUTCD) to CAVs
- **Safer Engineering Workshops** in different locations (new MSs, Malta, Russia, Middle East) with public authorities and relevant road stakeholders sharing EU legislation and good practices to promote safer road infrastructure

Technical cooperation with Western Balkans Authorities and TC Secretariat

- Complement **TC Road Safety Action Plan**:
 - ✓ Actions to promote safer infrastructure
 - ✓ Actions to enhance cooperation and exchange of experience
- **Capacity Building Trainings** to exchange technical knowledge and share good practices on road infrastructure elements
- Current standards used in road infrastructure: technical assistance from ERF experts in road **markings, signs, barriers, work zones safety**
- Implementation of **EU acquis** related to road safety (RISM Directive)
- Adaptation of road infrastructure elements to **ADAS and automation**



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