

Carlo Polidori – Italian Association of Road Safety Professionals

44TH ASECAP STUDY & INFORMATION DAYS 2016

The Path Towards an Integrated And Sustainable Mobility in Europe

Intercontinental Hotel 23-25 May 2016

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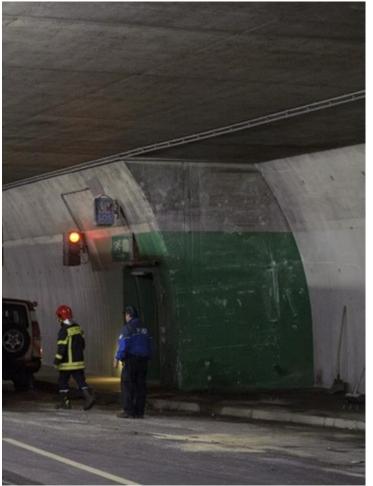


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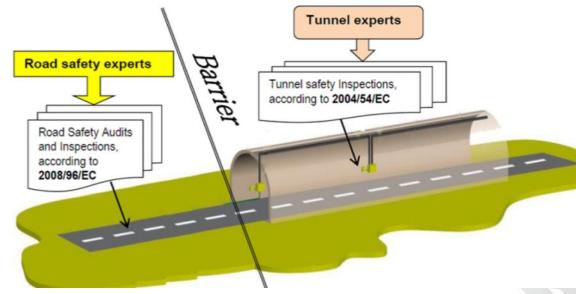


BACKGROUND





The ECOROADS project is the follow-up of a debate that was initiated as a result of the coach crash in Switzerland (Sierre Tunnel - 2012) that caused more than 28 fatalities, including 22 children.







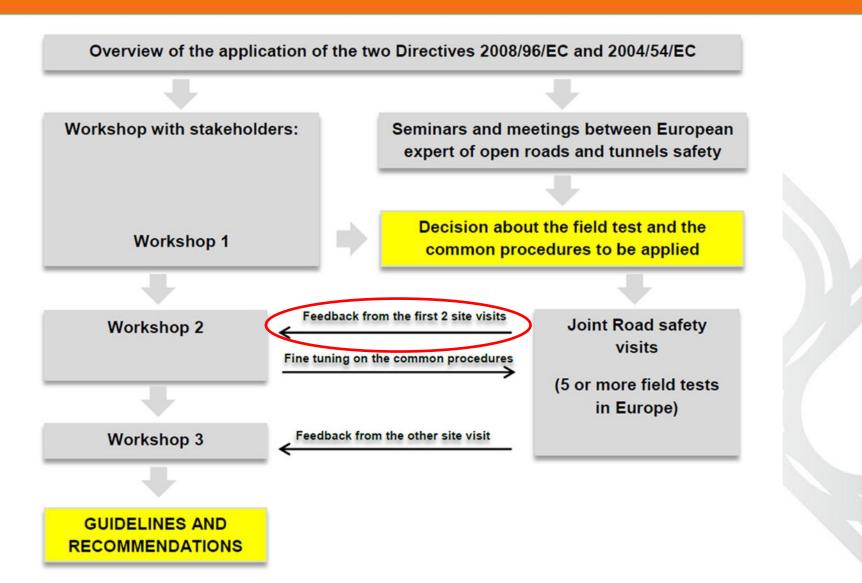


- encouraging uniform safety measures to be planned and implemented both on open roads and in tunnels;
- exchanging of experiences and cross-fertilisation between the two disciplines of tunnel safety and road safety and better implementation of all safety operations on road infrastructures;
- common agreed approach for applying the concepts of the Directive 2008/96/CE on road infrastructure safety management in tunnels and in the transition areas between tunnels and open roads, without affecting the usual tunnel safety management operations.

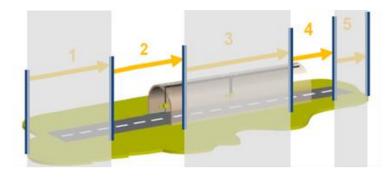


IMPLEMENTATION

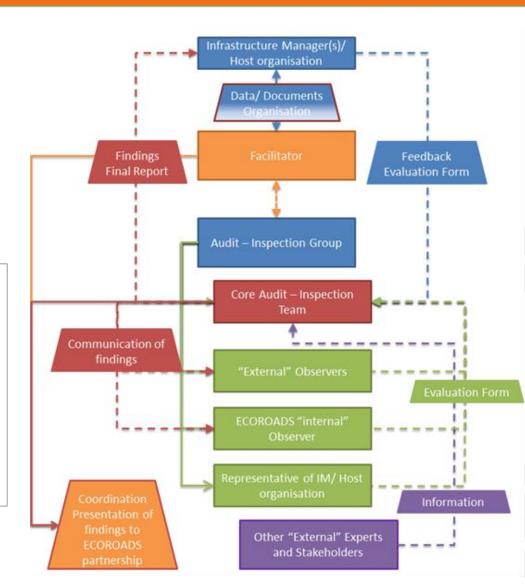




IMPLEMENTATION 3 COMMON PROCEDURES



- Definition of open road, transition area and tunnel section
- Definition of roles and responsibilities during the visits
- Structure of the reports
- Feedbacks



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IMPLEMENTATION – 4



Site visit in Kennedy Tunnel – Antwerpen,

Belgium and in Krrabe Tunnel – Albania (also RSA on one tube still under construction)







FIRST OUTCOMES

Road side features and passive safety installations

Finding Number	1.3.1	1.3.1			iber 24.6						
Finding:	Inappropriate transition between different types of safety barriers. Risk of severe injuries/ fatalities			_	The sidewalk at the tunnel portals ends with a ramp that can cause the launch of an errant vehicle.			3.2.1	23	\$. C	
Risk:	in case a vehicle collides with the barrier transition section. Control method: Visual Lot3, Direction Tirana to Elbasan, at the end of the bridge located after the tunnel right side of the roadway.		_	Risk of vehicle launching and /or overturning in case the	Control method:	Visual	High dismissive sidewalk				
Location			-	vehicle runs over the ramps, with possible severe injuries and/ or fatalities.			Risk of increased accident severity caused by vehicles	Control method:	Visual - Measured in the field		
GPS Location:	n/a Chainage: 19+390 The transition between the bridge safety barrier (at the right of the photo) and the				Lot1, Direction Tirana to Elbasan, at both sides of the road. Lot3, Direction Tirana to Elbasan, at the left side of the road. Lot3, Direction Elbasan to Tirana, at both sides of the road.			hitting the sidewalk are field			
	shoulder safety barrier that follows is not appropriate. The horizontal beam indicated with the red arrow could cause serious or fatal injuries to vehicle occupants in case of a collision.			ation:	Lots, Direction Elbasan to Tirano	a, at both sides of the road. Chainage:	15+610 & 18+225	n/a	Chainage:	n/a	
Pictures and Description: Proposed short, medium and long- term measures				and on:	<text></text>						

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lotes and Comments:





- 2nd Workshop and presentation of the feedbacs from the two first visits – 02 June 2016
- Fine tuning of the procedures and further 3 visits from July 2017
- > Preliminary version of the Guidelines and Recommendations
- > 3rd Workshop end 2016 early 2017
- Final version of guidelines and recommendations May 2017 (end of the Project)

FUTURE ACTIONS



ECOROADS 2 (project submitted on January 2016, first stage passed, deadline for the full proposal September 2016) addresses:

- Integrated safety assessment
- > Innovative design solutions
- Urban tunnels and vulnerable road users
- > Embedded monitoring systems for predictive maintenance
- Vehicle-infrastructure bi-directional communication: pilot site looking at the future automated vehicles

Thank you for your attention!



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