

Response to ETSC's Recommendations on Single Vehicle Collisions

Infrastructure

João Lourenço Cardoso (Laboratório Nacional de Engenharia Civil)



Roadside safety Infrastructure design approach







Roadside safety Infrastructure design – Portuguese CBA supporting tool







Roadside safety

Restraint systems and supporting structures

- European standards provide tools (common criteria) for engineers to decide on equipment for specific design problems
- Issues
 - Related to incompleteness of existing standards
 - Due to novel application of the standards







Infrastructure Safety Management Directive Outcomes and improvements

- At the Portuguese level
 - Increased awareness of RS issues
 - Roadside safety engineering has improved considerably
 - Difficulties in formal training auditor is a new profession
 - Clarification of requirements for RSI procedure (response) and inspectors (training & responsibilities)
 - Double standard: Directive on Tunnel Safety vs. Directive on RSM
- At the EU and Portuguese levels
 - RSM application to be extended to all motorways, all EU (co-)financed roads and to main rural and urban roads
 - Reports made public and publicized through annual road safety reports



