



#### MAKING ROAD SAFETY AUDITS A EUROPEWIDE TOOL

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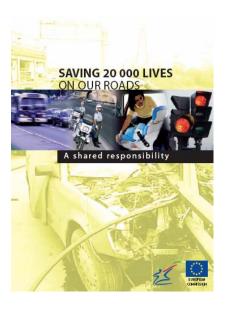
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## Policy ("a shared responsibility")







Brussels, 22/02/2006 COM(2006) 74 final

COMMUNICATION FROM THE COMMISSION

EUROPEAN ROAD SAFETY ACTION FROGRAMME MID-TERM REVIEW

White paper on Transport 2001 Road safety action programme 2003

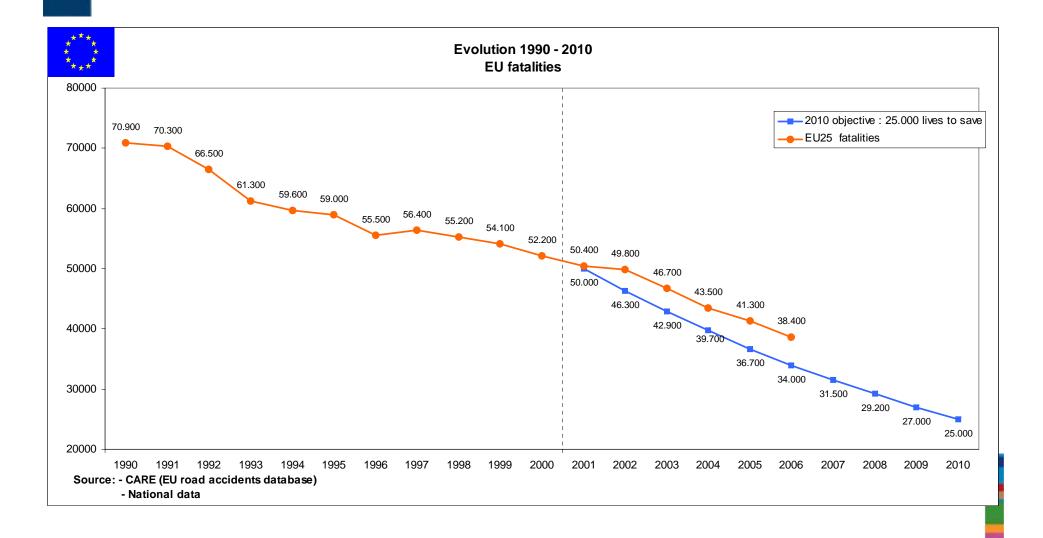
Mid term review of Road safety action programme 2006



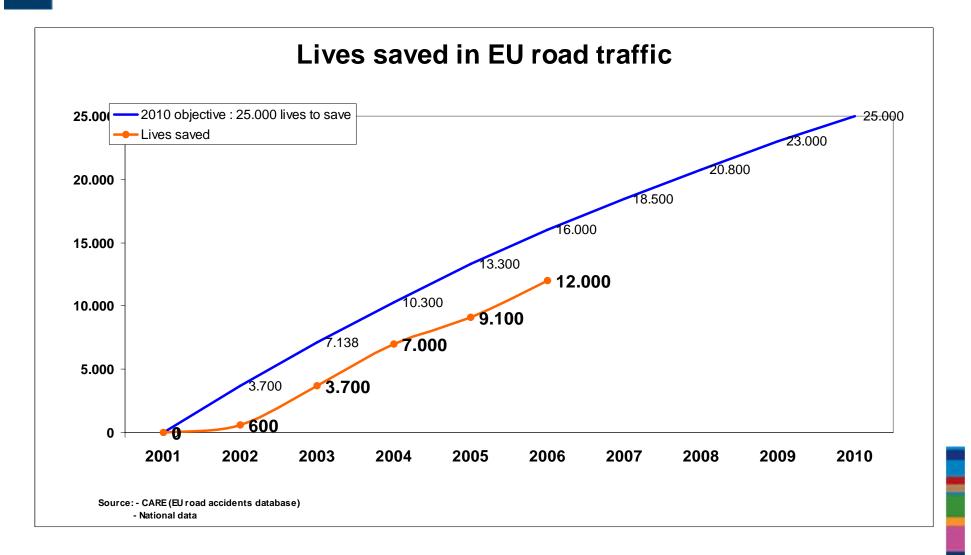
• Over the period 2001-2010: -50% road accident victims (global target)

- A ''shared responsibility''
- Integrated approach at the EU level

## Fatalities - evolution 1990-2010



## Lives saved - evolution 1990-2010



### Main causes of fatalities

Speeding

- : 11 000 / year
- Alcohol : 10 000 / year
- No seat belts : 10 000 / year
- Pedestrians : 2 000 / year
- "Saturday Night Fever" : 2000 / year (pop aged 18-25 on week-end nights)

## Focus on Road infrastructure: Today's main problems

- Decreasing budgets for road infrastructures vs.
   more attention to the level of safety of roads
- Inability of "old" roads to absorb the increasing traffic
- "High risk road sections" (even on modern roads!)
- Various levels of responsibility within each Member State
- Heterogeneous signs, signals, road markings, road side features (even in a single Country!)



## **Infrastructure Safety?**





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## **Infrastructure Safety?**



## Road Infrastructure Safety Management: Objectives

- To bring about a common high level of safety of roads in all EU Member States
- To ensure that safety is integrated in all phases of planning, design and operation of road infrastructure
- To use the limited funds for more efficient construction and maintenance of roads

## Focus on Road Infrastructure: A coherent package of measures

- Regulatory actions necessary on:
  - Safety Impact Assessment (new roads predesign phase)
  - Safety Audits (new roads design, construction & early operational phases)
  - Network Safety Management management of "High accident concentration sections" (existing roads)
  - Safety Inspections (existing roads)
- Package of measures recommended by the High Level Group on Road Safety

## **Road Safety Audit**

### Definition

Independent detailed systematic and technical safety check relating to the design characteristics of a road infrastructure project and covering all stages from planning to early operation

#### **Objective**

To identify and rectify dangerous road elements at the different stages of a project

# Diffusion of the procedures in the Member States

A High Level Expert Meeting on "Infrastructure Safety" was organised in Vienna on 24-25 January 2006

The table summarises in which of the 25 Member States the instruments are already in use

Road Safety Impact Assessment	AT	BE	СҮ	CZ	DE	
	DK	EE	EL	ES	FI	
	FR	HU	IE	IT	LT	
	LU	LV	MT	NL	PL	
		510	51	JA	011	
Road Safety Audits	AT	BE	СҮ	CZ	DE	
	DK	EE	EL	ES	FI	
	FR	HU	IE	IT	LT	
	LU	LV	MT	NL	PL	
	PT	SE	SI	SK	UK	
Network Safety + High-Risk Road Section Management	DK	EE	EL	ES	FI	
	FR	HU	IE	IT	LT	
	LU	LV	МТ	NL	PL	
	LU PT	LV SE	MT SI	NL SK	PL UK	
	РТ	SE	SI	SK	UK	
Road Safety Inspections	PT AT	SE BE	SI CY	SK CZ	UK DE	
Road Safety Inspections	PT AT DK	SE BE EE	SI CY EL	SK CZ ES	UK DE FI	
	Road Safety Audits twork Safety + High-Risk Road	boad Safety Impact Assessment DK DK LU LU AT AT DK FR LU LU PT DT DK DK UVOrk Safety + High-Risk Road	boad Safety Impact Assessment PR HU DK EE DK EE FR HU LU LV AT BE DK EE DK VV DV	hoad Safety Impact Assessment PR HU IE DK EE EL FR HU IE LU LV MT AT BE CY DK EE EL CY DK EE EL ILU LV MT DK EE SI LU LV MT EE EL DK EE SI	had Safety Impact Assessment I	had Safety Impact Assessment I

## Road Safety Audit: participants

- Mostly, three different parties are involved in the audit process:
  - Client: The organisation responsible for the project. This is often the road authority or local stakeholders but also private investors.
  - Designer: A person or team commissioned by the client to develop the road schemes. The design team can be part of the client's organisation.
  - Auditor: A person or team commissioned by the client to carry out the audit. The auditors should be independent from the designer's organisation.

## Road Safety Audit: requirements

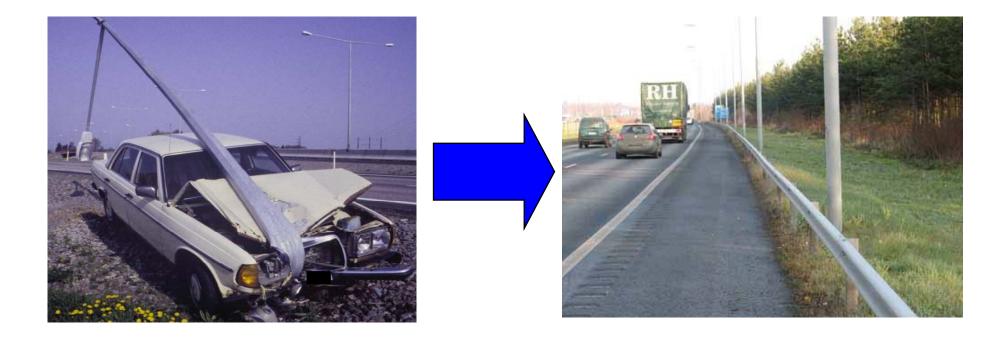
- The audit shall form an integral part of the design process of the infrastructure project
- Auditors shall:
  - have experience in road design, road safety engineering and accident analysis
  - o undergo an initial training and follow periodic re-training
  - o not be involved, at the time of the audit, in the conception or operation of the infrastructure project

## Road Safety Audit: process

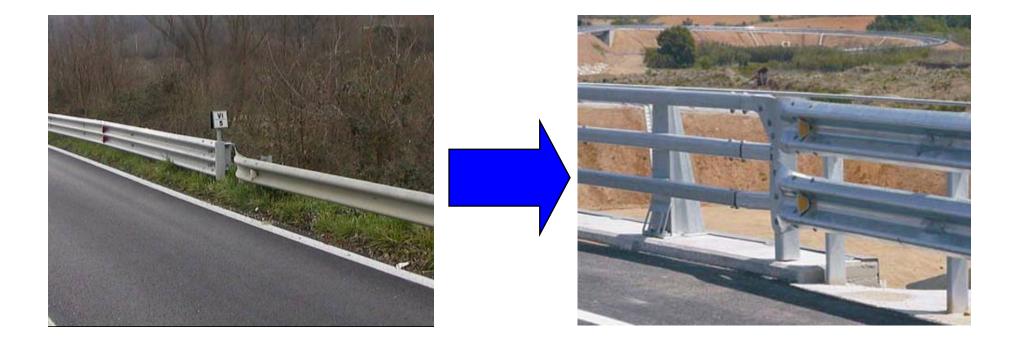
- Auditors shall set out safety critical design elements and prepare an audit report
- Only <u>safety relevant aspects</u> shall be part of the audit report
- The audit report shall describe the potential hazards and result in relevant <u>recommendations</u> on how to solve the problem
- The <u>decision</u> whether or not a recommendation is accepted is in any case <u>taken by the client</u>

## Road Safety Audit: process

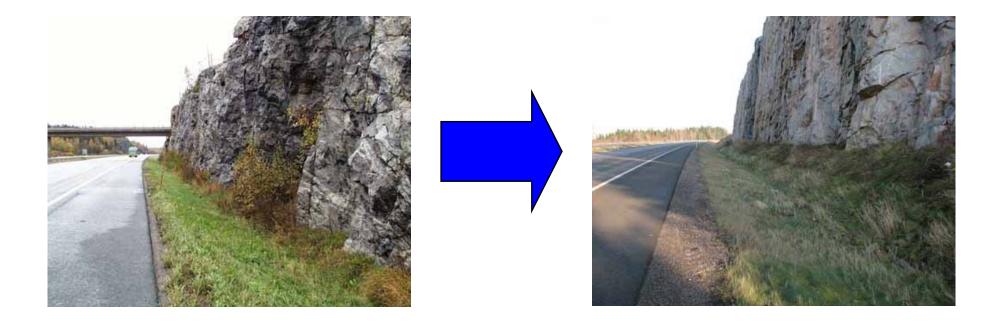
- In case of acceptance of the recommendations, the client shall instruct the designer to <u>make the</u> <u>changes</u> in the design
- It is advisable that possible solutions are <u>concertedly worked out</u> by auditor and designer
- In the case of a refusal of the recommendations, reasons shall be stated by the client
- The audit process should be an active, selfenhancing process, <u>involving all participants</u>



**Protected light columns** 



#### Safe and effective safety barriers transition



Safety zone before unprotected rock



**Protected bridge poles** 

# Thematic networks funded by EC in the field of Infrastructure Safety

- EuroRAP II European Road Assessment Programme www.eurorap.org
- RISER Roadside Infrastructure for Safer Roads www.erf.be/section/ep/riser
- ROSEBUD Road Safety and Environmental Benefit-Cost and Cost-Effectiveness Analysis for Use in Decision-Making partnet.vtt.fi/rosebud/
- IMPROVER Impact Assessment of Safety Measures for Vehicles and Road Equipment

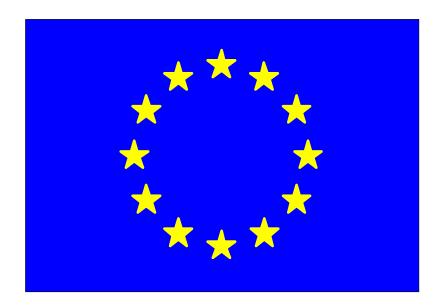
# Thematic networks funded by EC in the field of Infrastructure Safety

- FORMAT Fully Optimised Road Maintenance www.rws.nl/rws/dww/home/format/
- RIPCORD/ISEREST Road Infrastructure Safety Protection www.ripcord-iserest.com/
- IN-SAFETY Infrastructure and Safety www.insafety-eu.org/
- RANKERS Ranking for European Road Safety www.erf.be/section/ep/rankers
- IASP Identification of Hazard Location and Ranking of Measures to Improve Safety



- Commission transport website
   ... transport/index\_en.html
- Road safety section

   transport/roadsafety/index\_en.htm
- CARE (the EU road accident data base)
   ... transport/care/index\_en.htm
- Charter
  - ... transport/roadsafety/charter.htm



### Thank you for your attention!