



MINISTRY OF MARITIME AFFAIRS, TRANSPORT AND INFRASTRUCTURE

# TEM ROAD SAFETY

Ankara, Turkey – 30 March 2012



# TEM – ROAD SAFETY

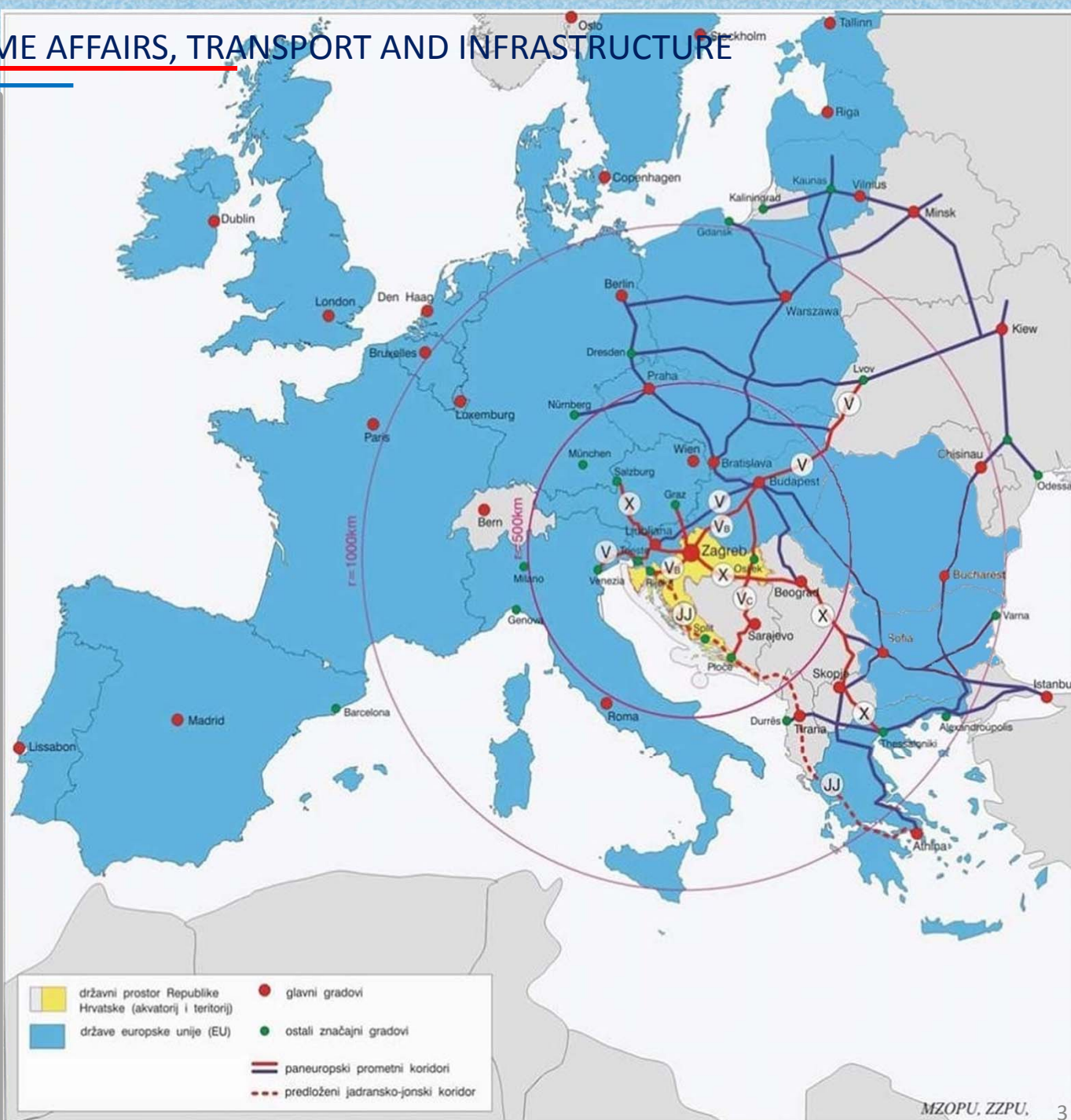
## REPUBLIC OF CROATIA



**Presentation of the Ministry of Maritime  
Affairs, Transport and Infrastructure  
Directorate of Transport Infrastructure**



# Geographical and transport position of the Republic Of Croatia







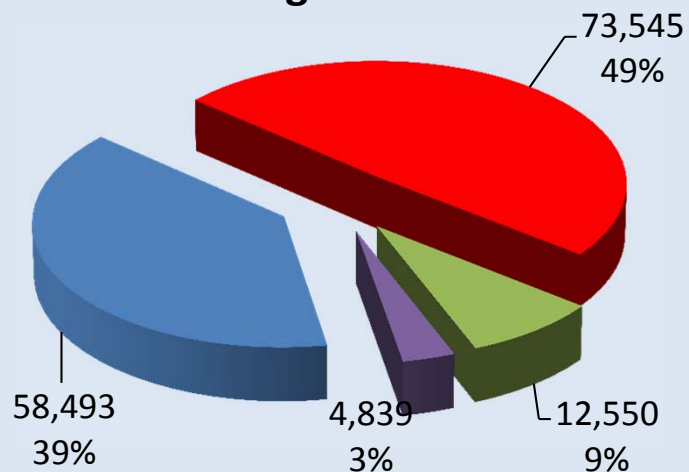
## Comprehensive networks in the Republic of Croatia





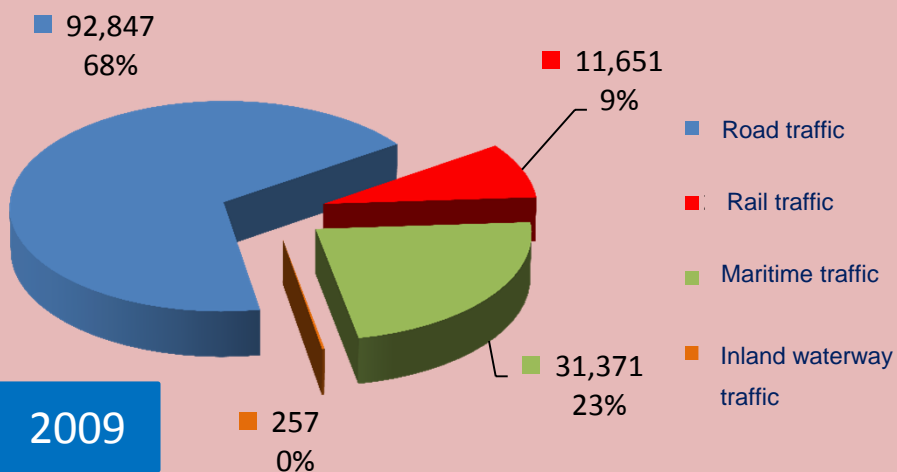
Passenger and traffic structure in the Republic of Croatia

Passenger traffic structure

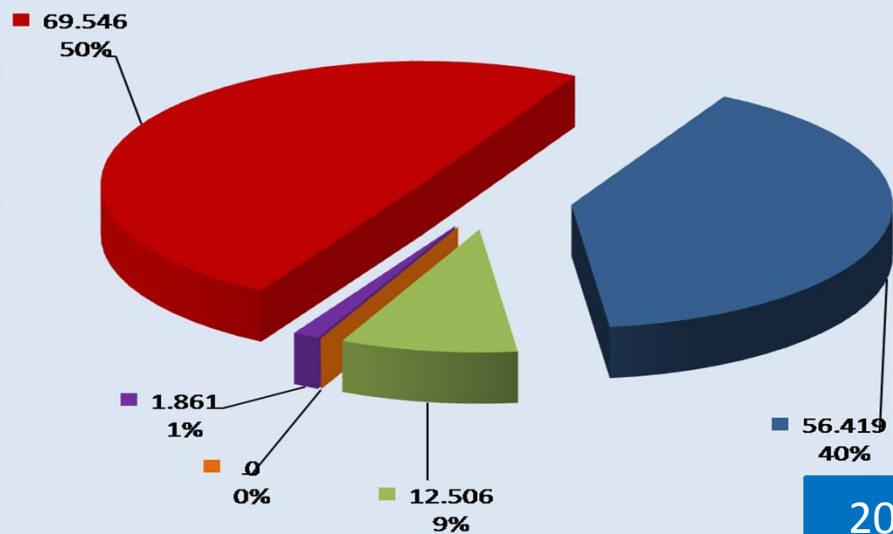


2009

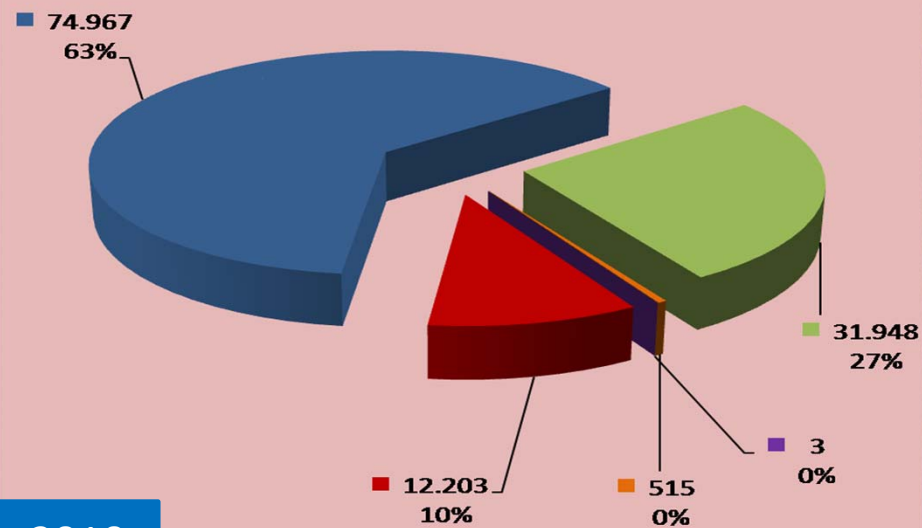
Cargo traffic structure - 000/t



2009



2010



2010





# **SAFE INFRASTRUCTURE**

**Actions taken at the  
national level**





## LEGISLATION

The Spatial planning Strategy was passed by the Croatian State Parliament in June 1997

Under the provisions of the Spatial Planning Act, which is the fundamental spatial planning document which constitutes the basis for passing decisions with regard to measures in space, as well as for the preparation of spatial plans of smaller entities and plans at the local level.





## **Transport Development Strategy of the Republic of Croatia**

- Based on the Spatial Planning Strategy, the Croatian State Parliament passed a Transport Development Strategy in November 1999. which is the basis for laws enacted concerning the road safety.
- In preparation is a new Transport Development Strategy and Traffic model





• In the **ROAD ACT (2011)** public roads are classified into 4 groups

- Motorways
- State roads
- County roads
- Local roads

Act provides management, construction and maintenance through a four-year plan adopted by the Croatian Government.





## Public Roads

- **Motorways** - 1.250,70 km - Croatian motorways Company
- **State roads** – 6.819,70 km - Croatian roads Company
- **County roads** – 10.867,40 km - County Road Departments
- **Local roads** – 10.297,20 km - County Road Departments

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**Total: 29.235,00 km**

- **Unclassified roads** – over 30.000,00 km – managed, built and maintained by local authorities.





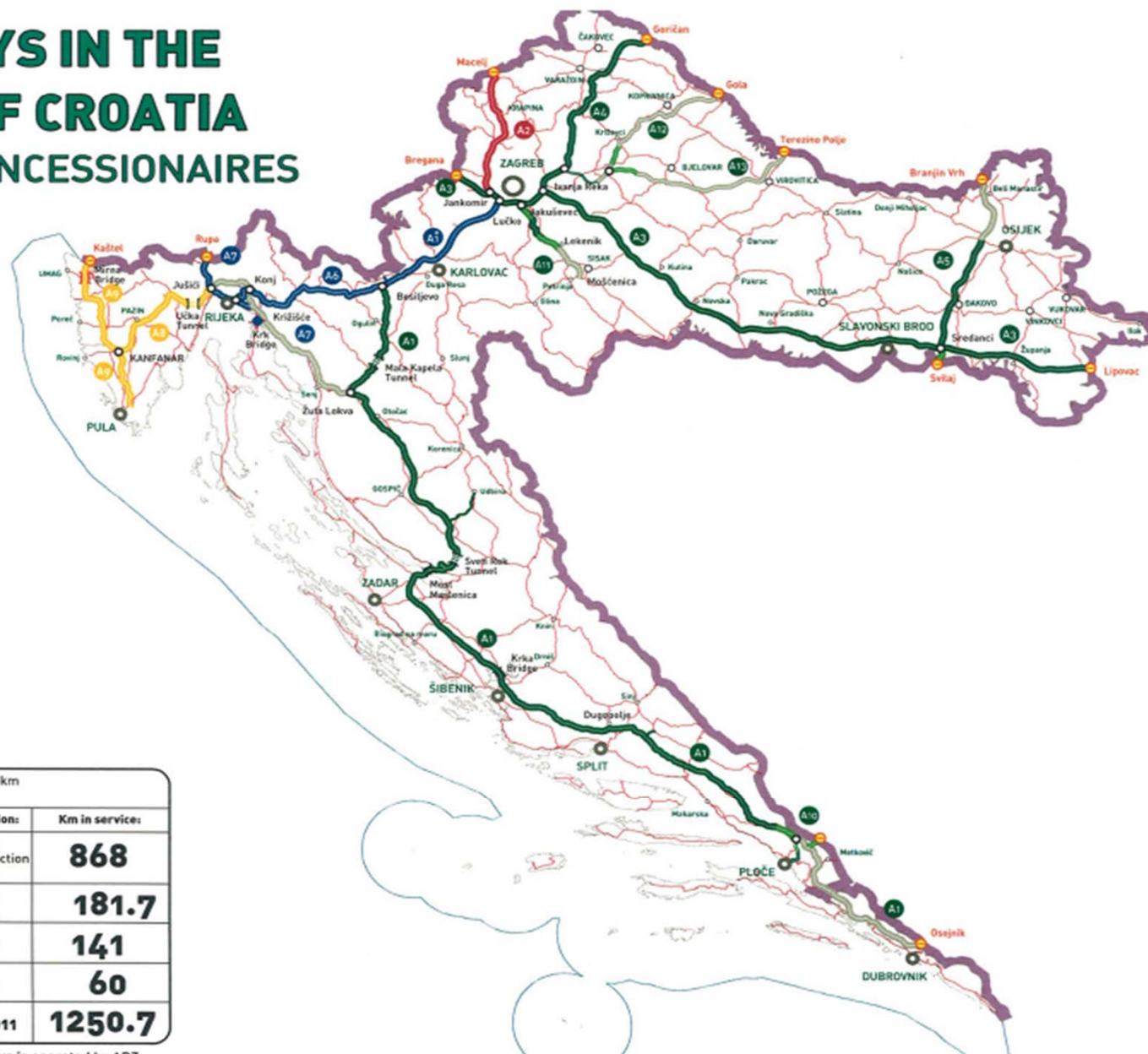
# Motorways and other main roads in Croatia







## MOTORWAYS IN THE REPUBLIC OF CROATIA NETWORK AND CONCESSIONAIRES



Key:

HUKA		Tunnel over 5 km Tolled bridge	
Concessionaires:	Motorways:	Status of construction:	Km in service:
	A1 A2 A3 A4 A5 A10 A11 A12 A13	In service In construction In project	<b>868</b>
	A1 A6 A7	In service In project	<b>181.7</b>
	A8 A9	In service	<b>141</b>
	A2	In service	<b>60</b>
Total in service: November 2011			<b>1250.7</b>





## ROAD ACT

- Supervision over the implementation:  
Ministry of Maritime Affairs, Transport and Infrastructure
- Inspection tasks are carried out by the Inspection of road and they include following activities:
  - control the concessionaires and the companies which manages the roads
  - road maintenance plan
  - safety measures for special transports
  - removal of broken down vehicles
  - checking the status of roads (technical documentation)





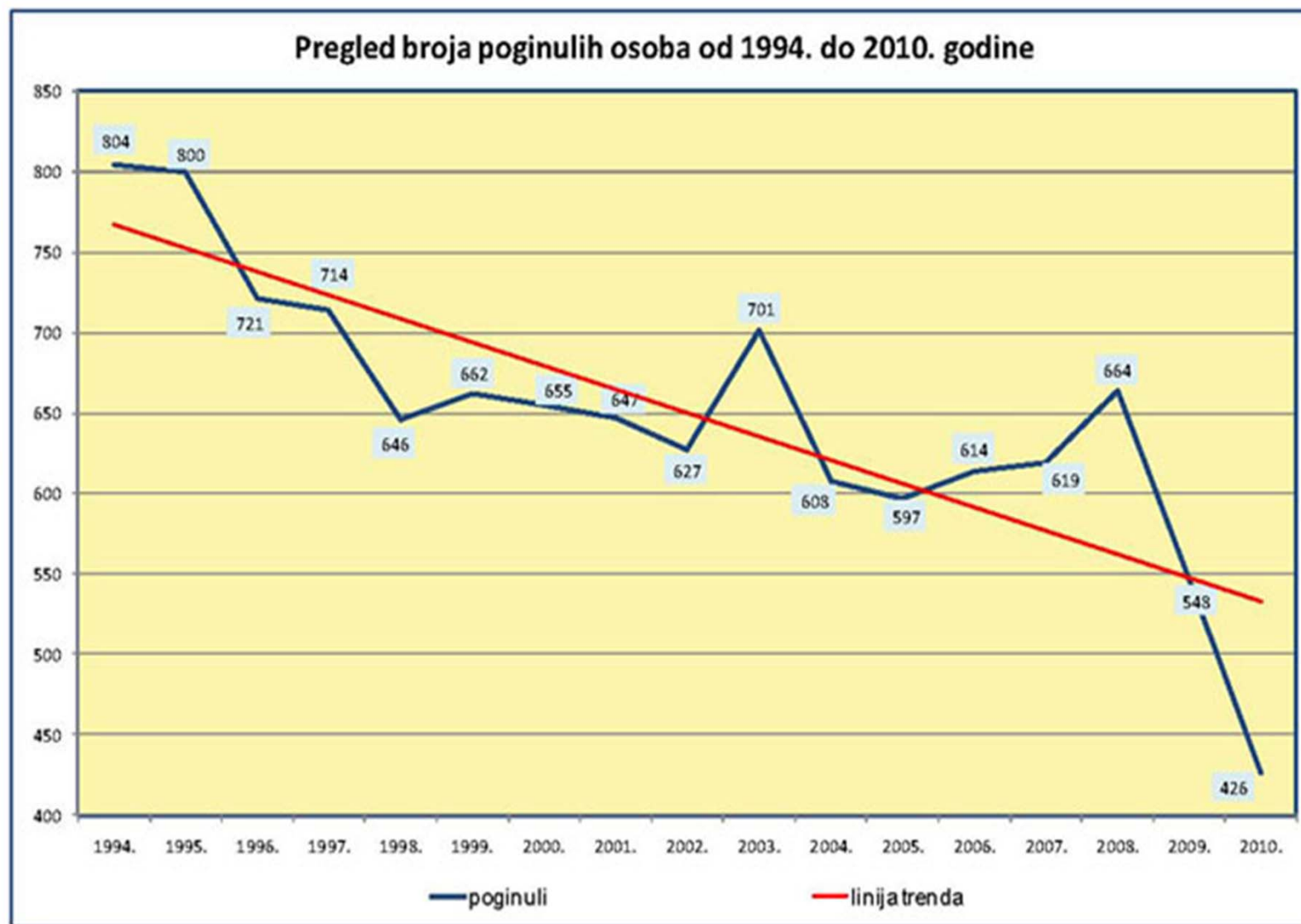
## **Act on Road Traffic Safety (2008)**

- regulates the safety of traffic on roads
- implementation -Ministry of Internal Affairs
- monitoring traffic on the roads
- behavior of participants and other entities in traffic on the road
- basic conditions to be met with regard to road traffic safety
- system of traffic signs
- rules of the Road Traffic





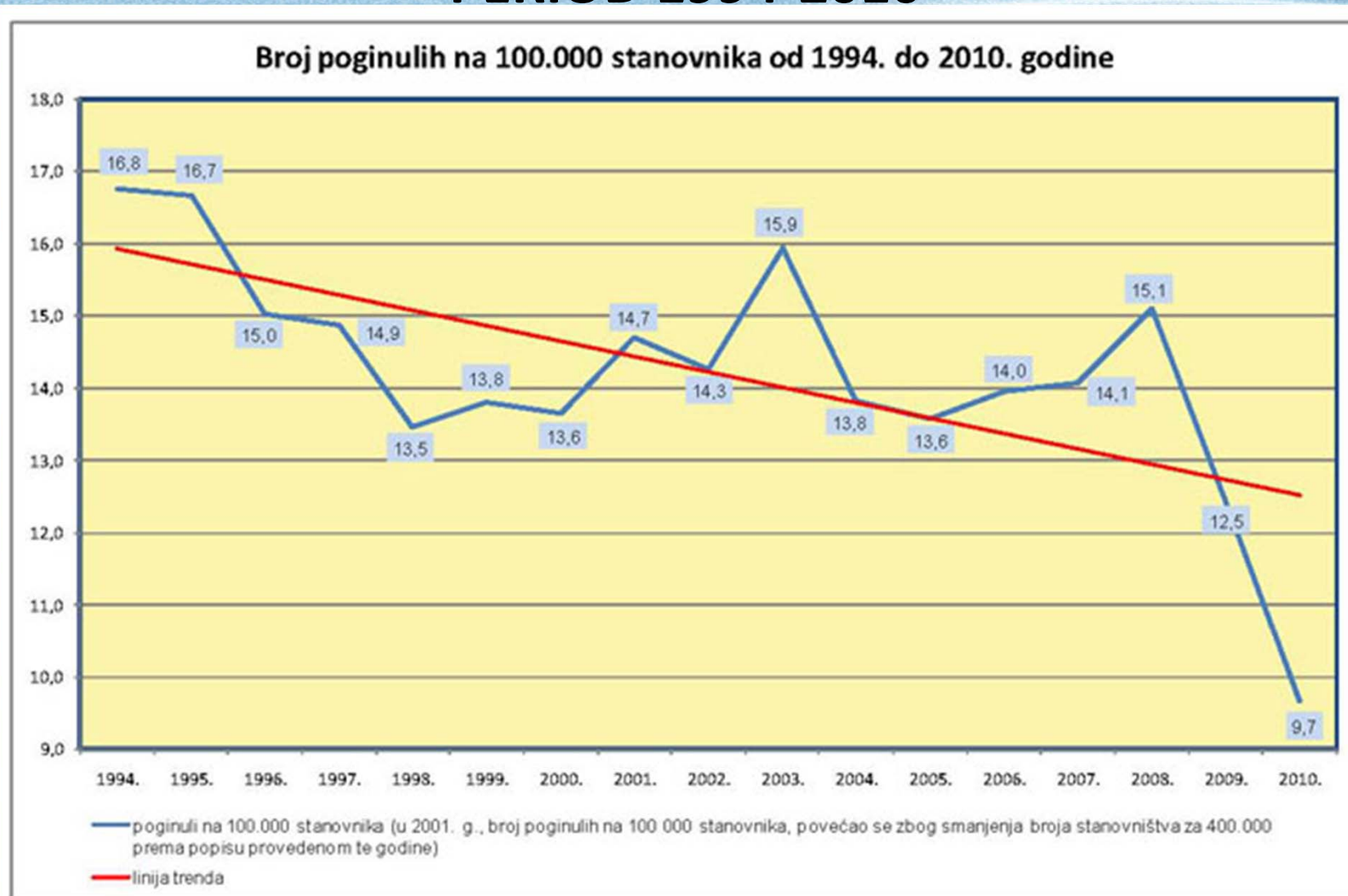
# NUMBER OF FATALITIES 1994-2010







## NUMBER OF FATALITIES PER 100 000 INHABITANTS IN PERIOD 1994-2010







## **IMPLEMENTATION OF EUROPEAN AND WORLD TRENDS IN NATIONAL PROGRAM**

- The European Commission adopted in July 2010, 4th Program of Action for Road Safety for the period 2011 - 2020, which should be the framework for national strategies of all countries of the European Union.
- Summary of the key priority measures:
  - Behaviour
  - Infrastructure
  - Vehicle technology





- In view of Croatian membership in the European Union as of 2013, the Croatian Government adopted the National Programme for Road Safety 2011-2020
- Summary of national key measures:
  - Change in behaviour of all traffic participants,
  - Improvement of road infrastructure,
  - Safer vehicles,
  - More effective medical care after the accidents
  - Other areas of activity.



## Means of road safety interventions

- **Enforcement:** speed, alcohol, seat belt etc.
- Improving **vehicle safety**
- Implementing ITS on roads (intelligent transport systems)
- **Education** in schools
- Road safety **audit**
- **Accident data** collection and processing (very essential to decide targeted actions)
- **Black Spot** projects
- **Information** campaigns (TV, bill boards ..)





## IMPLEMENTATION

On every internet page of road management company there are advices on safe driving practices for:

- preparing for journey, things to do during and after the journey
- safety in the tunnels
- winter conditions
- strong wind conditions
- accident procedures
- help on the roads
- safety distances between vehicles
- others (works on the roads, safe overtaking, etc..... )





## IMPLEMENTATION

Motorways are constructed with:

- two level junctions
- motorway gradient and curve radius are done by the modern motorway construction standards
- safety lines for broken down vehicles
- fire-fighting service stations
- crash barriers
- other services (service stations, rest areas, SOS phones, meteorological stations, closed system of drainage)





The Brinje tunnel, which is integral part of motorway A1, was declared to be the safest tunnel in Europe in 2007







The Sveti Rok tunnel, which is integral part of motorway A1, was declared to be the third safest tunnel in Europe in 2010







## Sveti Rok tunnel reward criteria



Very good standards:

- Evacuation exits
- Lightning
- Traffic radio
- Vidio surveillance
- Emergency lay-bys
- Emergency telephones
- Fire protection systems
- Trained personnel





**Thank you for your attention!**

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