









### Safety report in the last decade Network of ASECAP members

Austria	2002-2008	-47%
France	2002-2008	-49%
Italy	2002-2008	-48%
Portugal	2004-2009	-21%
Spain	2000-2009	-62%

In the target of the European objective: -50% 2000>2010 Motorway 5 time safer compared to other network(Fr)







Restricted users



Motorway equipment : prevention of accident , reduction of severity





### Action on the infrastructures and equipments according to concession contract

- maintenance services and procedures to preserve and maintain every motorway element in highperformance condition.
- renovating and resurfacing their roadways
- audits and "inspections" by "Owner" Entities and granting Bodies, in order to verify the respect of appropriate standards of service
- Road safety Infrastructure management Directive (2008/96/EC)



### The challenge in the future

- > To optimize the infrastructure
- > To face an increase of Traffic (+ 30-50%)
- To face the objective of zero accident(number of fatalities /2 in next 15 years)
- > To face the objective of zero congestion
- > To face a target reduction of CO2 emission

# Intelligent Transport Systems, a tool for this new challenge: draft ITS Directive



#### Priorities and action of the motorway companies to improve infrastructures and equipments

Supervising the network and acting

- Improve the equipment performance to detect event and act in real time
- Automatic incident detection (less than 20")



 Immediat alert to the emergency services
 Real time traffic information to the driver through motorway radio & variable message signs





#### ITS Deployment at european level with Easyway – 3 phases in 2007-2013

## Nearly all member states:

- Traveller information services
- Freight and logistic services
- Traffic management services
- Supported by monitoring
- (including data exchange between TCC)
- + European guidelines





# Example of ITS application in EW: speed regulation A7 motorway

- Traffic regulation to optimize the traffic flow
  Speed limitation regulation (110, 90, 70 Km/h)
  - ≺esults →Very good acceptation by the drivers
  - ⇒Diminution of 25% up to 50% of accident number
  - ->Diminution of 20 % up 30% of congestion

500 tonnes of CO2 saved during summer 2009



# Example of ITS application: in-car speed limit information

- ≻Permanent speed limit
- ➤Support to automatic enforcement
- ≻Temporary speed limit (real time)
- ≻Safety of users and workers in work zone
- Dynamic speed limit (real time)
- ➤Support to speed regulation



130

**9Ć** 

#### Actions towards the drivers

Example: ASFA carries out an analysis of the factors causing fatal accidents – european safety charter

chanter		
Fatigue and drowsiness	1 accident out of 3	
Excessive Speed	1 accident out of 6	
Alcohol, drugs, medicines	1 case out of 4	
pedestrians	1 accident out of 9	
Under-inflated tyres	1 case out of 20	
Over accidents	1 accident out of 7	
Not wearing a seat belt	1 deaths out of 3	

TSECAP Progue 2010

### Action towards the drivers

In depth Study to better understand drowsiness and fatigue

(ASFA –Medical University of Bordeaux)
 5000 phone calls et 35000 internet

⇒28 % of drivers declare having faced drowsiness at the wheel ⇒4% of drivers had near-miss driving accident (enter the hard shoulder).

TSECAP

### Safety campaign in 2009

In pursuit of their commitment to safety, the motorway companies are developing prevention campaigns



TSECAP

25 000

### Action towards the drivers

Accompanying drivers throughout their trip Provide possibility to stop on a regular basis service areas

rest areas







25 000

# Thank you for your attention

