

**46TH ASECAP STUDY & INFORMATION DAYS** 

# The Role of the Infrastructure Investments in the New EU Road Mobility Package

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TITLE: Autostrade per l'Italia initiatives for Monitoring of Bridges and Management of Exceptional Transit

COMPANY: Autostrade per l'Italia SPEAKER: Gianmarco Angeletti

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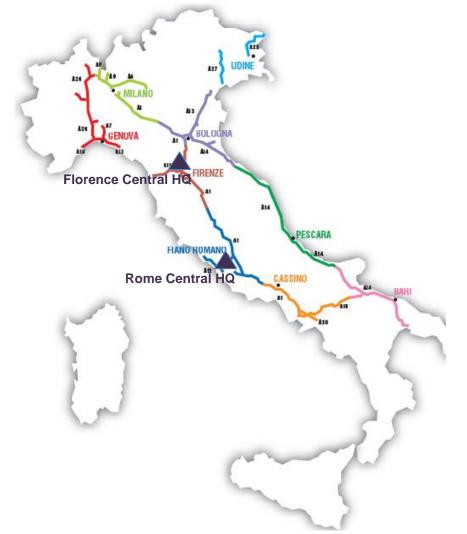






#### Introduction to ASPI







- 2,854.6 km of road network
- 4M customers per day
- > 47Bn km travelled per year
- > 5,000 employees



- 9 Regional HQ
- 2 Central HQ
- 234 Tolling Station
- 83% Automated Tolling



- > 1,900 Viaducts and Bridges
- > 1,900 Overpasses
- 568 tunnels (including 22 with a length > 2000 m)

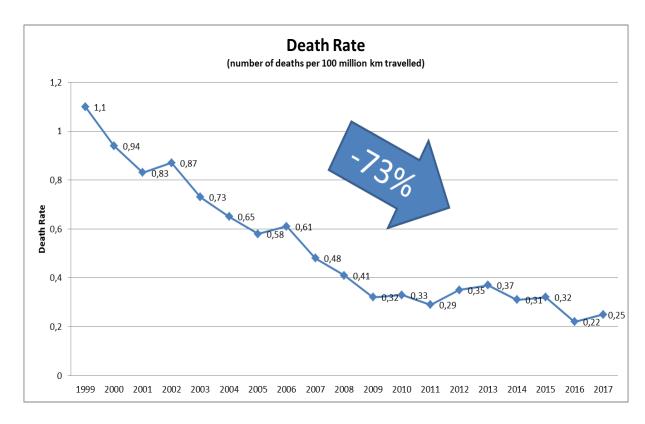
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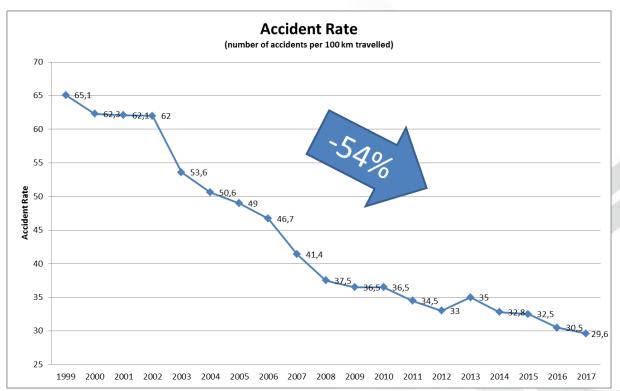


- 49,160 Average Daily Vehicles
- > 380 TE authorization in 2017
- 1,669 VMP
- 3,308 CCTV

### Safety Records







### Agenda





### Classification of Bridges





Two different typologies of bridges:

- 1° category: carriageway's width ≥ 5m, with «free traffic» for those vehicles having a total weight and a shape according to Italian Road Code;
- 2° category: bridges made before 1990 (secondary roads) which can be crossed only by vehicles which weight is < 12 tons.

**ASPI** network:

ONLY **1° category** of bridges

Bridges crossing ASPI network (managed by «Third Party»):

1° & 2° category of bridges



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**TEonLine**: a web tool to keep track of TE authorization and itinerary through the whole Italian Highway network

Standards of Monitoring to be developed

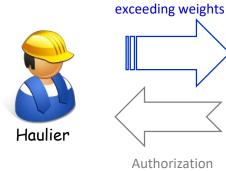
### Exceptional Transit "TE" on bridges crossing ASPI network



**Awareness Campaign since 2014** towards the owners of bridges crossing ASPI network, to remind:

- Technical characteristics and load limits of ASPI bridges
- Procedure to authorize TE that exceed the collapse load of the infrastructure → ASPI technical "go-ahead"
- The installation of vertical signs to forbid TE over bridges

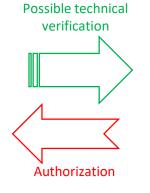
Improving the service time of the infrastructure



Transit request for

with traffic requirements







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### Pilot Project



#### First steps...

Meetings with road hauliers' association

Meetings with «Third Party» managing bridges crossing ASPI network

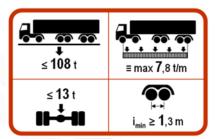
International Benchmarking

#### PILOT PROJECT STRUCTURE

- ✓ Deployment of a specific database for bridges crossing ASPI network considering:
  - Technical & Geometrical analysis
  - Identification of load limits
- ✓ Deployment of an Informatic tool able to streamline request and release authorization process
- ✓ Sharing of light procedures to manage the whole process







- ✓ Applied on 70 bridges with high priority due to the higher number of TE;
- ✓ Vehicle classification, with load limits, subdivided into cranes and normal convoy;
- ✓ Web Portal «TE Crossing» developed by ASPI which allows to:
  - consult the qualified map of the bridges;
  - formalize the request for permission;
  - facilitate the payment of any technical verification charges;
  - request and obtain, via internet, the authorization in digital format.

### Future Applications





"TE Crossing" to be extended to the whole ASPI network



≈ 1900 bridges





#### **AGE Project (Autostrade Google Earth)**

• Creation of a register containing all the bridges and overpasses of ASPI network, which could be viewed through On-Line portal or Application (My Way / My Way Truck).

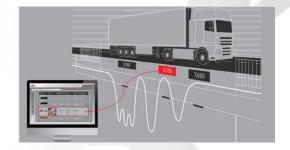






#### **Smart Monitoring Project**

 Real time monitoring system for exceptional transit in order to observe total weight, axle weight and speed





#### **Additional Improvement**

Identification of TE's itinerary along non-highway routes, whose structures (bridges, overpasses, etc.) will have to be upgraded in order to guarantee a safe passage for those vehicles



## Thanks for your attention

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