Road Safety Monitoring Centres in Italy: the case of the Lazio Region

CENTRO DI RICERCA
PER IL
TRASPORTO E LA LOGISTICA

SAPIENZA
UNIVERSITÀ DI ROMA

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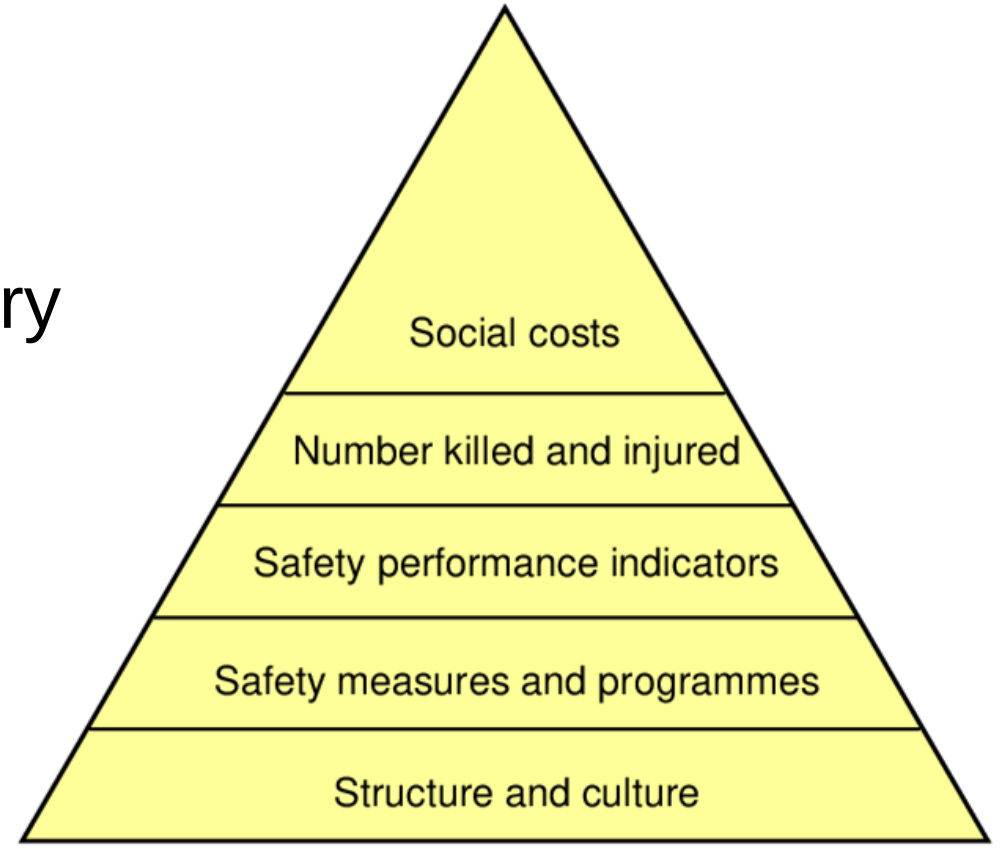
Monitoring Road Safety (RS) performance

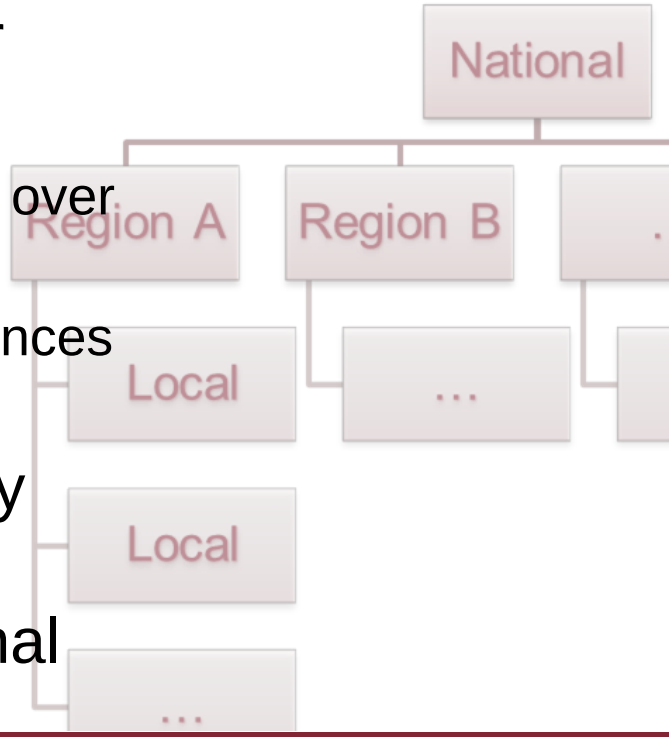
- **RS dimensions**: Risk exposure, Accident risk, Injury risk
- **RS strategy**: targets, implementation, outcomes and impact



The SUNflower model (Wegman et al., 2005)

The Italian context (1)

- The Italian Road Safety Plan was instituted in 2001
- The Plan has been put into effect through Implementation Programs and calls for tenders issued by the Regions.
  - Five annual Implementation Programs and over 70 regional calls for tenders.
  - Financing over 1.600 interventions in Provinces and Municipalities.
- How to monitor the implementation? By the establishing of **Road Safety Monitoring Centres (RSMC)** at regional level.



The Italian context (2)

- Crash data collection involves 3 Police forces
- National survey coordinated by ISTAT to uniform crash data
- Before the RSMC implementation:
  - poor accuracy (no localisation, frequently not digital), not timely provided, incomplete
  - Road and Traffic volume data poorly available and not integrated

Functions and characteristics of regional RSMC according to the National RS Plan (1)

1. Support the creation of **local RSMCs** and the verification of the **implementation of the National Plan** at the local level by the Provinces and Municipalities and develop measures for guiding, coordinating and enhancing these RSMCs
2. Allow the direct **participation of Provinces and Municipalities** in the management of the RSMC
3. Adopt **standards** defined by the National Government to ensure full consistency of data and analysis/evaluation procedures throughout the country

Functions and characteristics of regional RSMC according to the National RS Plan (2)

4. Ensure the preparation of a regional overview of the **state of road safety**, the implementation of the (National) Plan, and the results progressively achieved in terms of reducing the number of victims of road accidents
5. Identify the **most effective interventions** to be proposed as good practices at regional and national level
6. Encourage, support, carry out study and research on the **risk factors and causes** of road accidents
7. Promote the drafting and implementation of provincial and municipal **road safety plans and programmes**.

The Lazio region
RSMC: CEREMSS

CEREMSS
Centro Regionale Monitoraggio Sicurezza Stradale LAZIO

- **CEREMSS** was established in 2017 by a consortium lead by Sapienza University of Rome
- CEREMSS is managed by **ASTRAL Spa**, the regional road authority with the support of Sapienza
- Strong cooperation with academia from the beginning

CEREMSS system

https://ceremsslazio.astralspa.it

CEREMS
Centro Regionale Monitoraggio Sicurezza Stradale LAZIO

Istat

Data collection, management, validation

Accident DB | Traffic DB | Road DB | Intervention DB

RSMC system

Planning

Dissemination

SafetyManager

Reports, videos, surveys, events, app

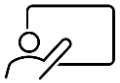
Accident data collection, management, validation

Local Police

Road Police, Carabinieri

CEREMSS staff

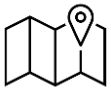
Help Desk

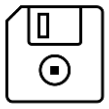


Training

Control & Validation

CEREMSS tools



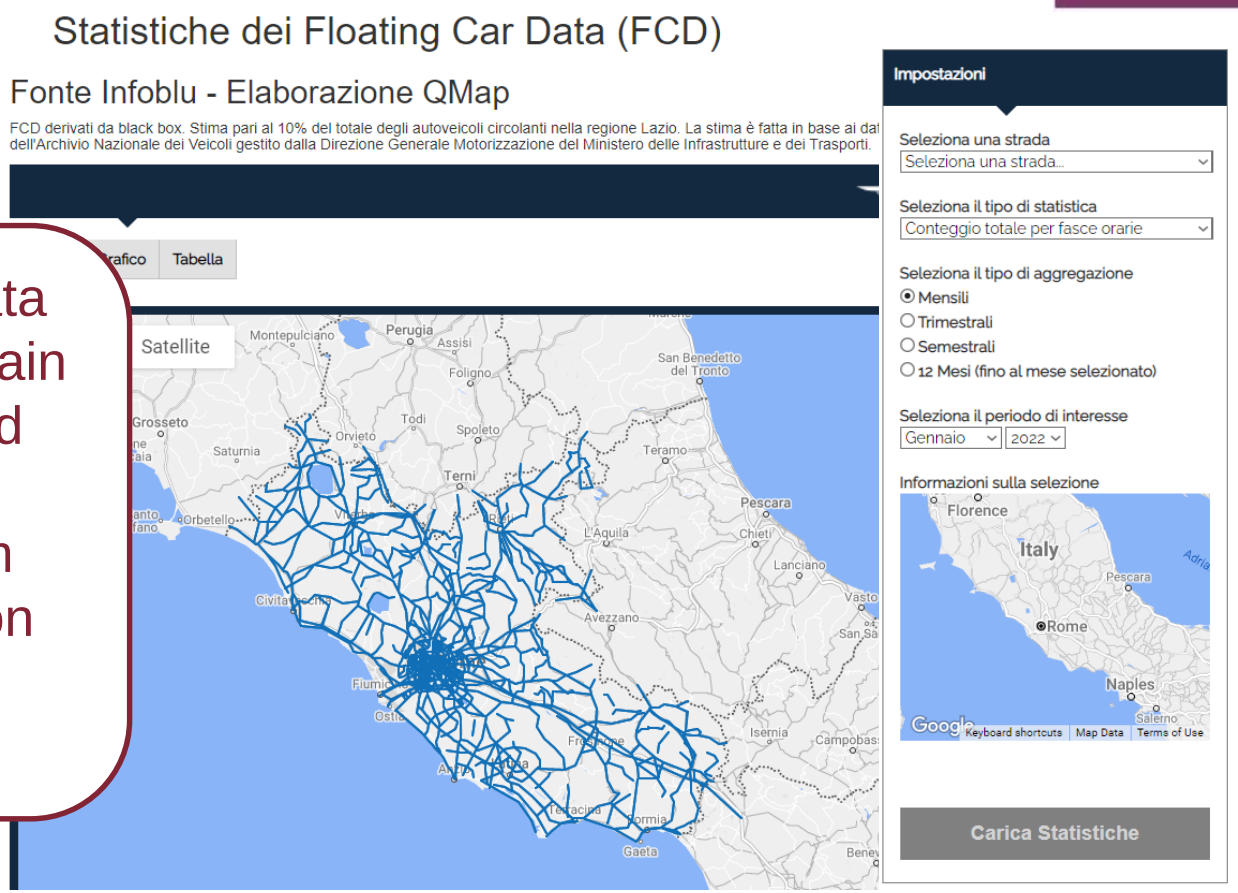


National standard format

CEREMSS Accident DB

Monitoring Traffic: FCD & fixed cameras

- Floating Car Data (FCD) on the main network updated regularly
- Traffic data from fixed cameras on the regional network



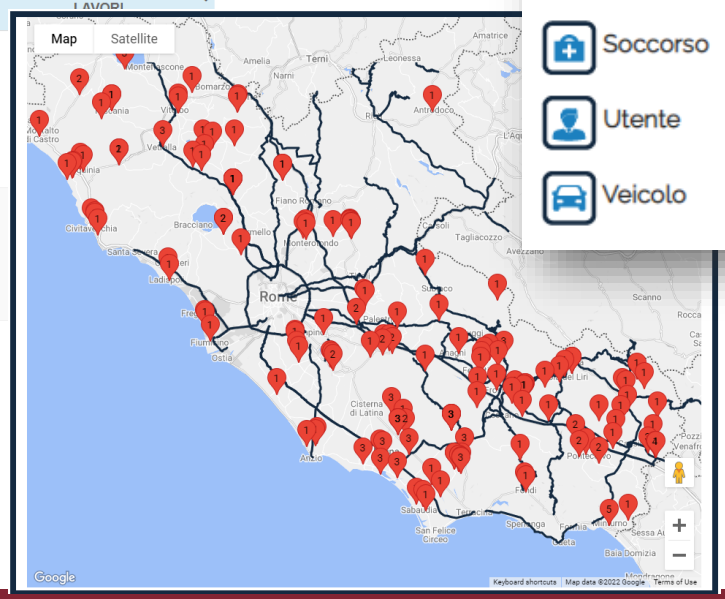
Monitoring Plan/Program implementation

- National Road Safety Plan measures
- Works on Regional Road Network

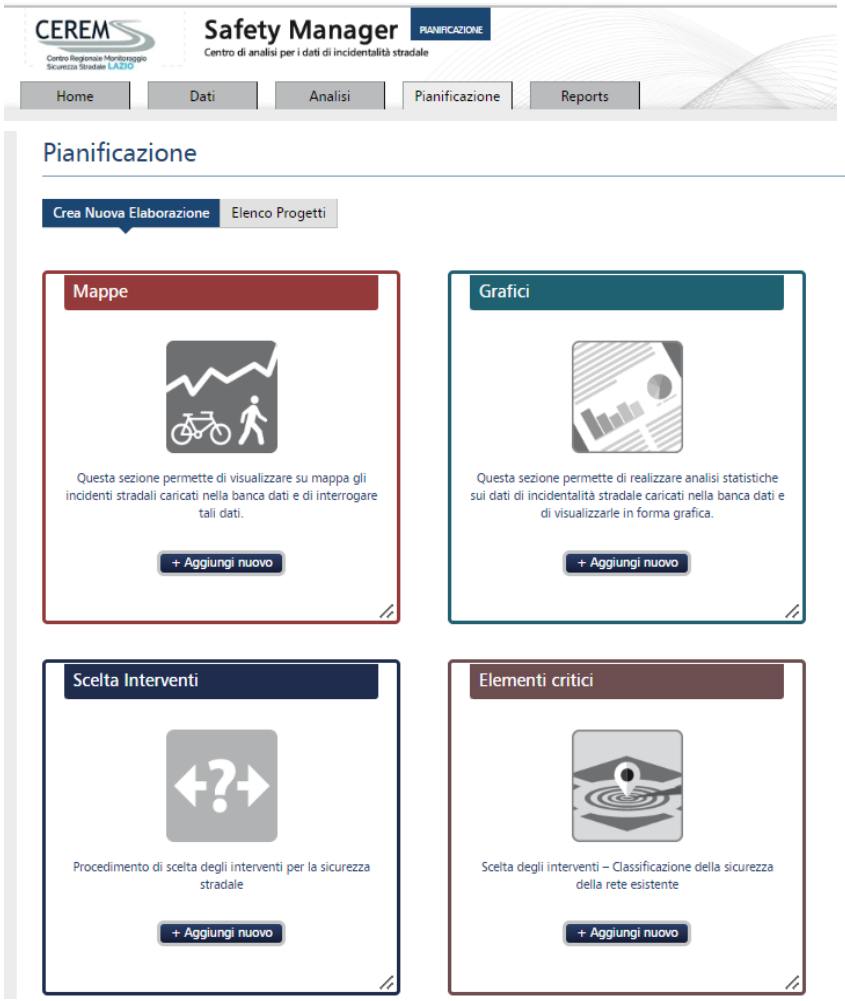
Visualizza 35 elementi

Cerca:

N.	ENTE - STRADA REGIONALE	OGGETTO DELL'INTERVENTO	IMPORTO DA QUADRO ECONOMICO	STATO AVANZAMENTO LAVORI
1	SR 156 DEI MONTI LEPINI	Barriere di sicurezza e barriere antirumore varie tratte - Rifacimento giunti e piano viabile su tre viadotti - Lavori di messa in sicurezza varie tratte - Messa in sicurezza intersezione con SP 277 - OPERE COMPLEMENTARI	€ 790.000,00	
2	S.R. 148 PONTINA	S.R. Pontina (exSS 148) - Risanamento acustico presso le unità immobiliari di proprietà della Comunione Consorzio Tenuta di Decima dal km.17+853 al km.19+176	€ 2.380.000,00	
3	S.R. 630 AUSONIA	S.R. Ausonia - Realizzazione di golfi di fermata bus CO.TRA.L. e attraversamenti pedonali in località Penitro nel comune di	€ 240.000,00	



Planning Road Safety



Reports, Studies

Tools supporting:

- Critical sites selection
- Analysis of accident causation
- Countermeasure selection
- Cost-Benefit Analysis
- Countermeasure evaluation

Training activities

Dissemination

"Safety in ... game“ app: interactive questionnaire aimed at youngsters

Collection of road safety campaign videos

Events & Workshops

"Regional, National and International road safety 'Good Practices'

Conclusions

- Cooperation with academia → Evidence based policy making
- Tools+HelpDesk → Active involvement of multiple actors in the region
- Integration of multiple data sources → Sound road safety analyses
- Training and Dissemination → Road safety culture

Thank you for your attention!

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