November 6th - 8th, 2013 Hotel Panamericano – City of Buenos Aires, Argentina
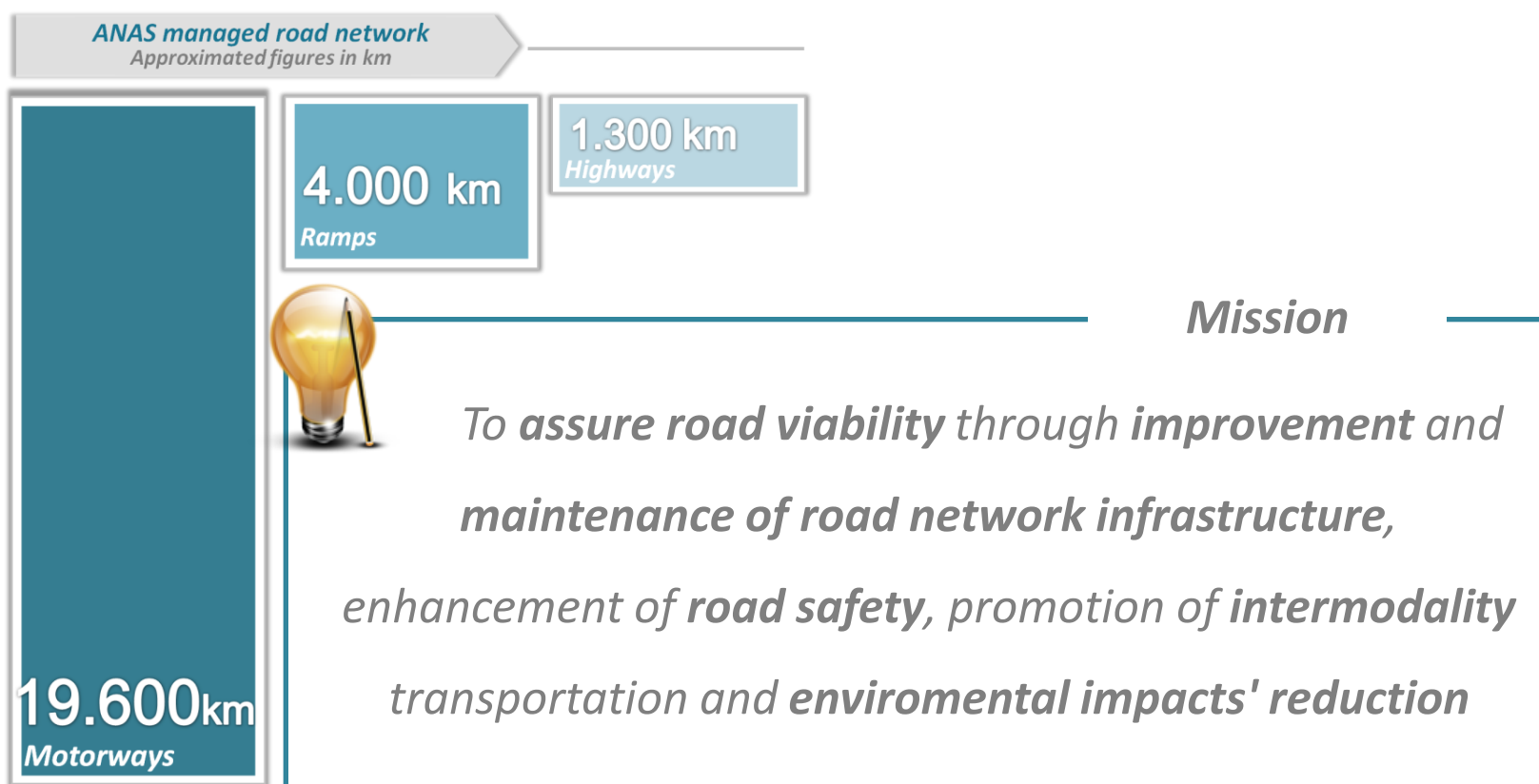**"URBAN MOBILITY, ROADS NETWORK OPERATION AND ITS APPLICATIONS"**

Application of new information system and technologies to road management & control at ANAS S.p.A.

Pierluigi De Marinis, ANAS, Italy

ANAS Facts Sheet: our capabilities

- **ANAS** is Italian **National Road Authority** with a road network of more than **25.000 km**

ANAS managed road network
Approximated figures in km

4.000 km
Ramps

1.300 km
Highways

19.600 km
Motorways

Mission

*To **assure road viability** through **improvement** and **maintenance of road network infrastructure**, enhancement of **road safety**, promotion of **intermodality** transportation and **enviromental impacts' reduction***

ANAS Strategy in Innovation

- Three **objectives for technology** are:

First Prover

Use the latest and brightest technology to survey the roads and correlate all collected data

Innovator

Provide services to citizens through an ecosystem of public and private enterprises
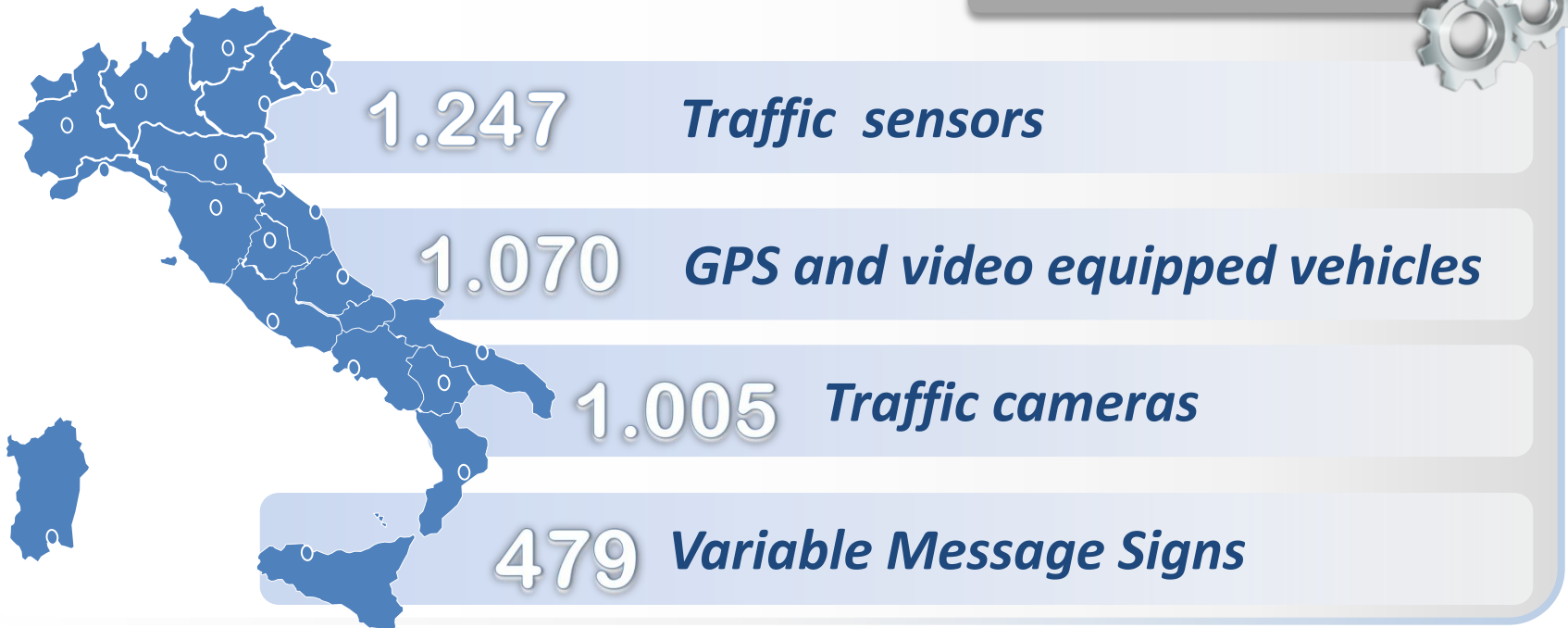
Fast Follower

Run best in class for traffic management and collect all relevant information from all sensors and devices

ANAS Road Management Tool

- **ANAS** has recently rolled-out a new system **Road Management Tool** for its 21 Traffic Control Centers (**TCCs**) across peninsula and main islands.

Main Tools

1.247 — *Traffic sensors*

1.070 — *GPS and video equipped vehicles*

1.005 — *Traffic cameras*

479 — *Variable Message Signs*

ANAS Road Management Tool (1/4)

1.247 traffic sensors and *1.005 traffic cameras* **have been installed on the road network and are controlled by our RMT available in each TCC and in the** *National Control Room.*

1.070 GPS **and** *video equipped vehicles* **are connected to the TCCs and allow for widespread monitoring of the territory.**
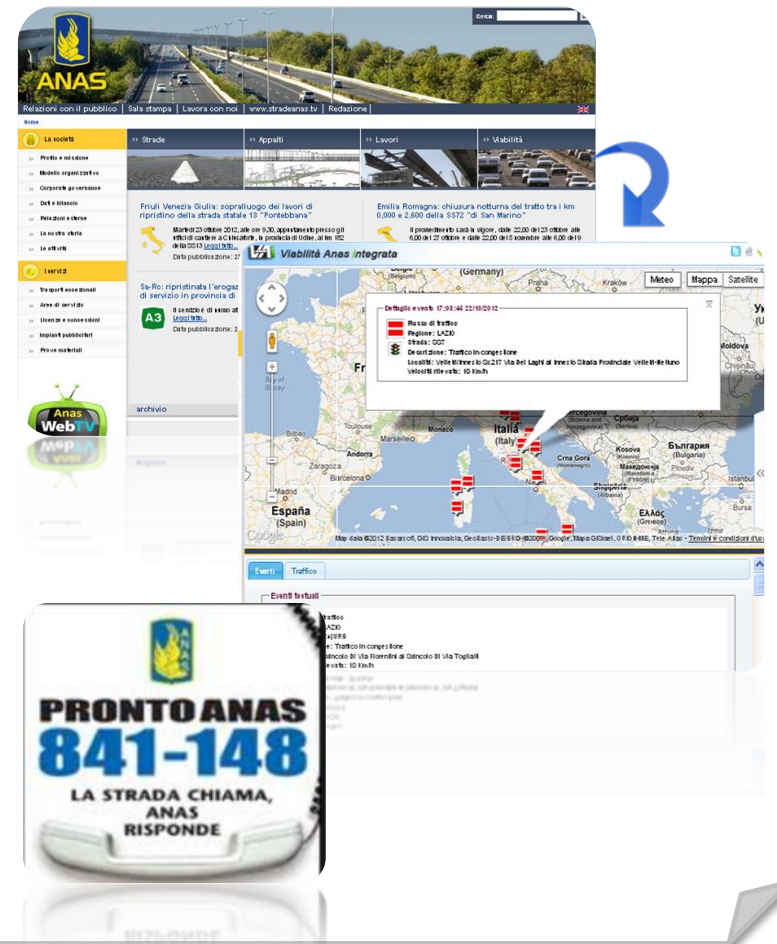
ANAS Road Management Tool (3/4)

479 Variable Message Signs

are scattered on ANAS roads and motorways network to continuously improve travelers' information.

ANAS Road Management Tool (4/4)

ANAS public website offers

real time information on

traffic conditions and a **24-**

hours call center offers

assistance throughout the

entire National territory.

ANAS RMT: Benefits

- **The RMT brought about:**

Benefits

A ***single source of truth*** *with regard to traffic conditions, status of the road network, etc.*

Direct access to each ***safety feature****, information sharing equipment and to all cameras along the network from any TCC*

Harmonized traffic management *procedures in all TCCs*

A ***single operational model*** *for all TCCs*

An ***increased flexibility*** *in traffic monitoring*

Future Scenarios

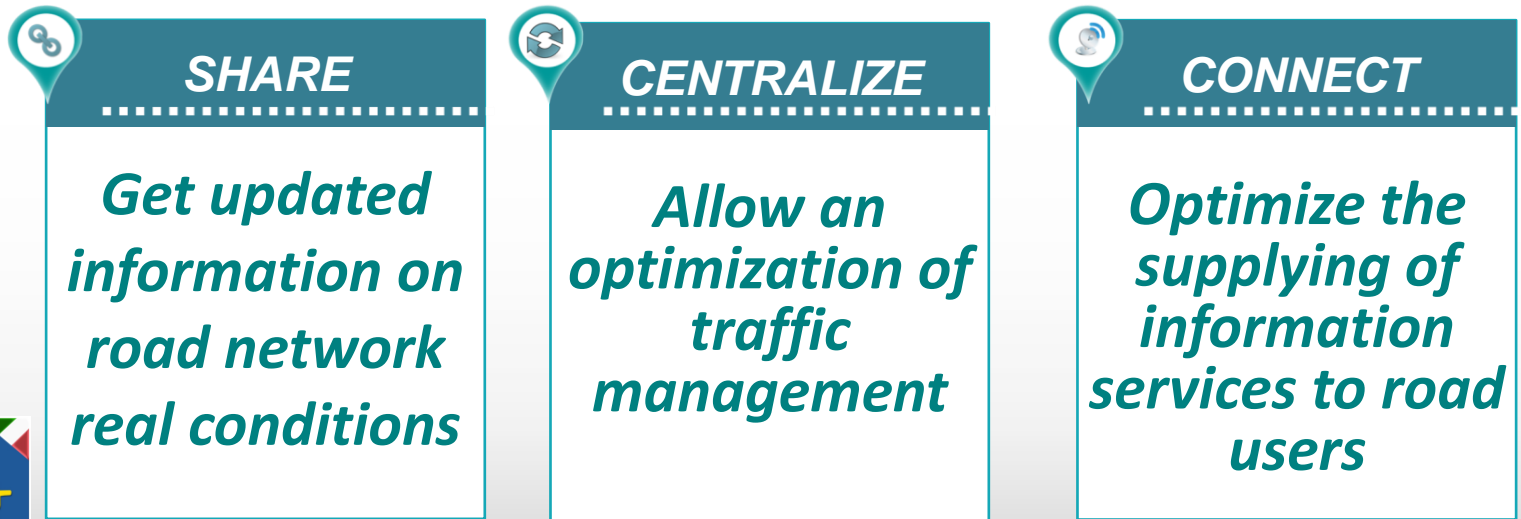- We shall adopt what we could call the "**smartphone paradigm**".

Data and information on the transport networks could be compounded, correlated and used in ever innovative ways as we continue to develop and implement ITS technologies.
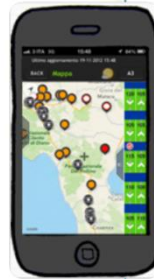
VAI Plus

- VAI+ is an app for providing road users data related to traffic: it is possible to **check for delays, queues and driving restrictions on whole Anas road network**.

SHARE	CENTRALIZE	CONNECT
Get updated information on road network real conditions	*Allow an optimization of traffic management*	*Optimize the supplying of information services to road users*

VAI Plus: User Experience

- **Slow Traffic**
- **Congested Traffic**
- **Chain on board required**
- **Closed Road**
- **Cameras display available**
- **Work in progress**
- **Orders**

three traffic modes have been defined:

- *Regular traffic*
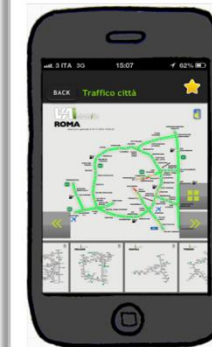- *Slow traffic*
- *Congested traffic*

Users can interact with event details an informative pop-up that shows different section for geographic information

Distance from events: it shows the main events from user location

Map filters: it was conceived also the chance for users to apply filters

Roma   Torino   Milano   Napoli

Firenze   Bologna   Bari   Venezia
         Modena   Padova

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Thank you for your attention

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