Asociación Argentina de Carreteras

WORLD ROAD ASSOCIATION MONDIALE DE LA ROUTE AIPCR PIARC

Vialidad Nacional

November 6th - 8th, 2013 Hotel Panamericano – City of Buenos Aires, Argentina

"URBAN MOBILITY, ROADS NETWORK OPERATION AND ITS APPLICATIONS"

ANAS Road Management Tool

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Objectives

The system introduced by ANAS for road network management has been specifically developed according to ANAS road managers needs, as:

- *Control of all operations and activities on the road network by one single system*
- *Monitor current events on the network and promptly manage road operations.*
- *Integrate information coming from different sources and visualize them on map*

Results

Thanks to the introduction of The Road Management Tool system ANAS has achieved the following main results:

1. *enhancement of efficiency in road surveillance and in case of emergency response by real-time knowledge of vehicles' localization (over 1,000 vehicles currently in use)*
2. *improvement of mobility management for road users, by the control that the system applies on the network and by the introduction of dedicated innovative applications*
3. *development of a specific system for mobility monitoring and analysis on the road network, based on data recorded by measurement stations*

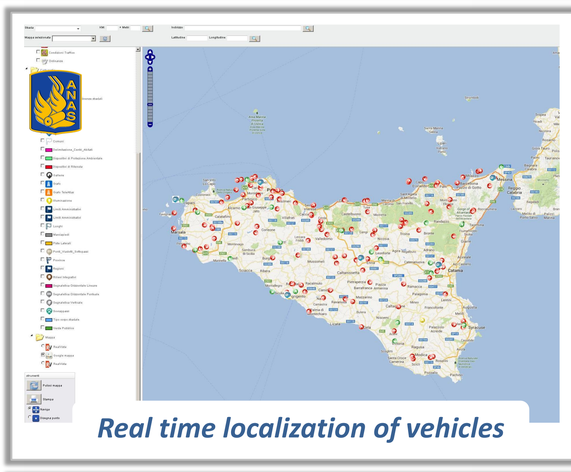
The future is…APP

The integration of modules for traffic monitoring and travel times' forecasts along the road network is currently being implemented and it will lead straight to:

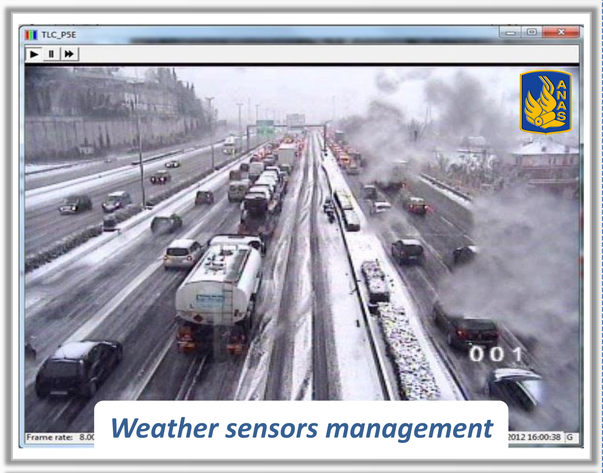
- *immediate activation of each needed action **in case of emergency*** — *safety*
- ***interaction between Operational Control Rooms** to properly manage ANAS road network* — *Proactive control*
- ***real-time view on map** of each ANAS vehicles' localization* — *monitoring*

Technical Aspects

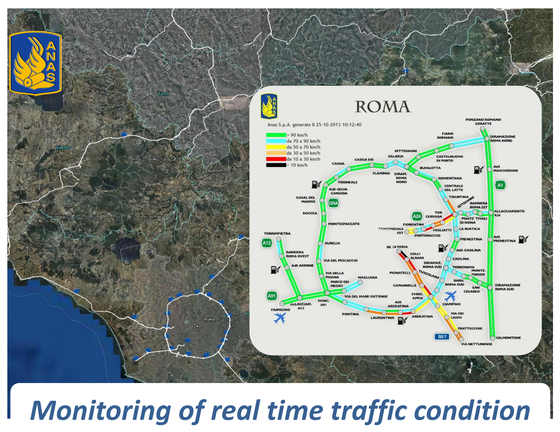
Main features



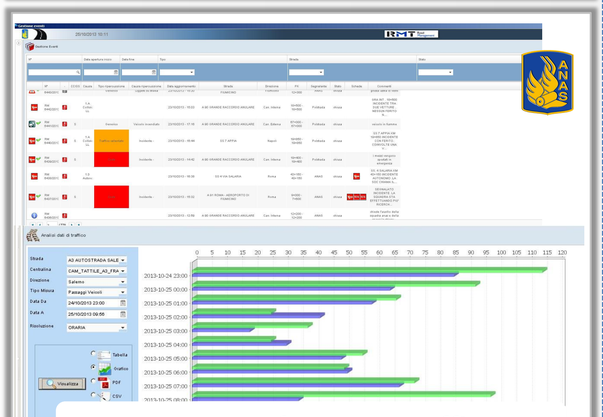
Real time localization of vehicles



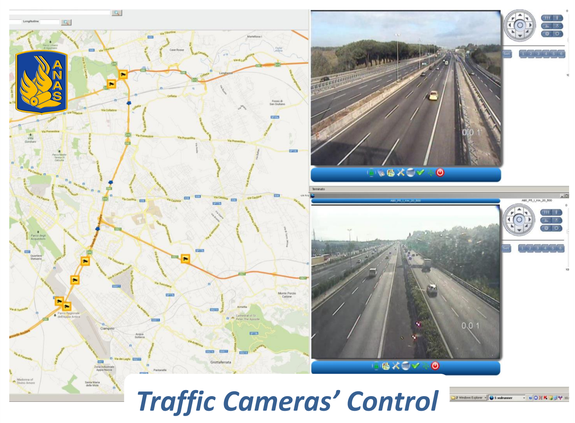
Weather sensors management



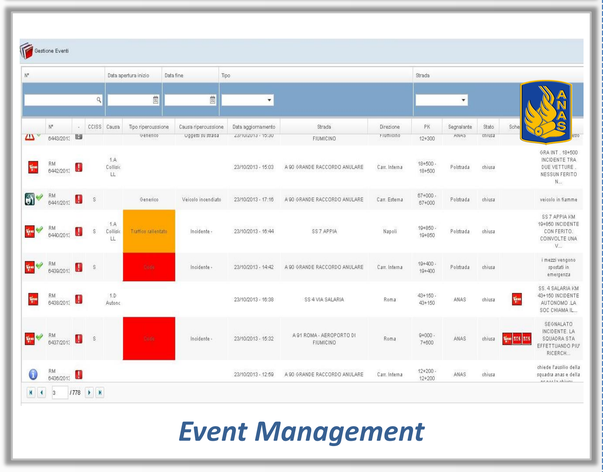
Monitoring of real time traffic condition



Measurement of average traffic rates



Traffic Cameras' Control



Event Management

*RMT has been designed and implemented starting from **a simple and essential idea**: **integrate different road monitoring systems in a single one**, despite their differences and heterogeneousness, in order to have a single data base. Its main features are:*

- ***Road network monitoring** through data collection, traffic flows control, video surveillance both fixed and mobile*
- ***User information**: management of Variable Message Signs and lighting signal devices*
- ***SOS system** for help requests from road users*
- ***Monitoring of tunnel's equipments** to guarantee safety conditions*
- ***Monitoring of the weather conditions** and their impacts on road conditions*
- ***Monitoring of vehicles' location**, road operators and external contractor involved in activities on the infrastructure*
- ***Integration of VoIP features** from road users aimed at collecting useful information related to events occurred on the network*

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