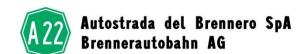


47TH ASECAP STUDY & INFORMATION DAYS



C-Roads Italy: first steps towards the deployment of C-ITS technologies

Ilaria De Biasi - Autostrada del Brennero SpA



Costa Navarino, Messinia, Greece – 29-31 May 2019







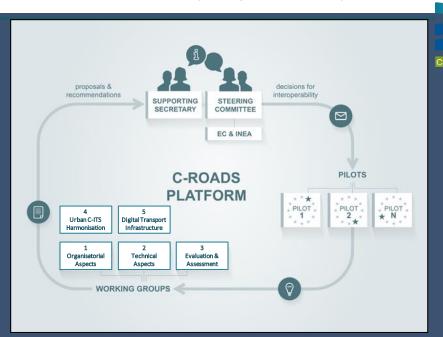


31.12.2020

Implementation of Day-1 services (V2X communication) in real-traffic conditions to evaluate the real impact on **safety**, traffic efficiency and environment

08.02.2017

Ilaria De Biasi





ASECAP DAYS





Joint initiative of European Member States and road operators for testing and implementing C-ITS services in light of cross-border harmonisation and interoperability

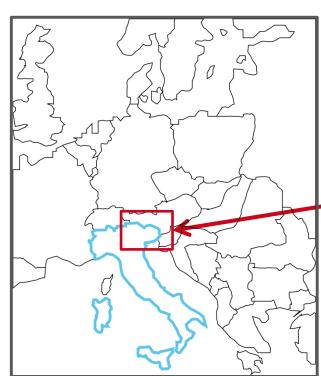




LOCATION OF THE ACTION

C-Roads Italy pilots
will be mainly carried
out along the
Brenner motorway

Cross-border tests with Austria are planned by 2020





	Road Works Warning	Clo
Jay-1 SERVICES	Hazardous Location Notification	

COSTA NAVARINO 2019
Closure of part of a lane, whole la
lanes
Alert planned road works -
Accident Zone
Traffic Jam Ahead
Stationary Vehicle

ane or several OK mobile planned OK



TRUCK PLATOONING

OK

OK

OK

OK

OK

OK

OK

HIGHWAY CHAUFFEUR

In-Vehicle Signage

OK OK Weather Condition Warning

Embedded VMS «Free Text»

Other Signage Information

Temporarily Slippery Road Animal or Person on the Road Obstacle on the Raod Dynamic Speed Limit Information

Autostrada del Brennero SpA Brennerautobahn AG



IVECO



Truck Platooning concept

Two or more trucks travelling with reduced gap at cruising speed, taking advantage of drag reduction and reducing road impact

Highway Chauffeur concept

Automated function, in which vehicles autonomously perform both the side control (lane) and the longitudinal control (speed, acceleration) in a motorway scenario





Cross-border tests with Austria

both for Truck Platooning and Highway
Chauffeur

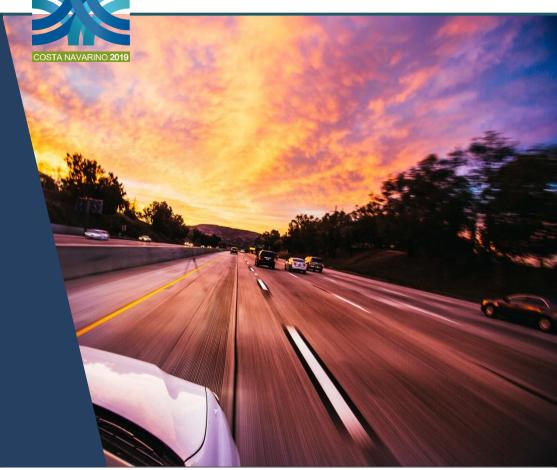
"seamless driving" → interoperability

Tests with ITS-G5 and 4G LTE connection

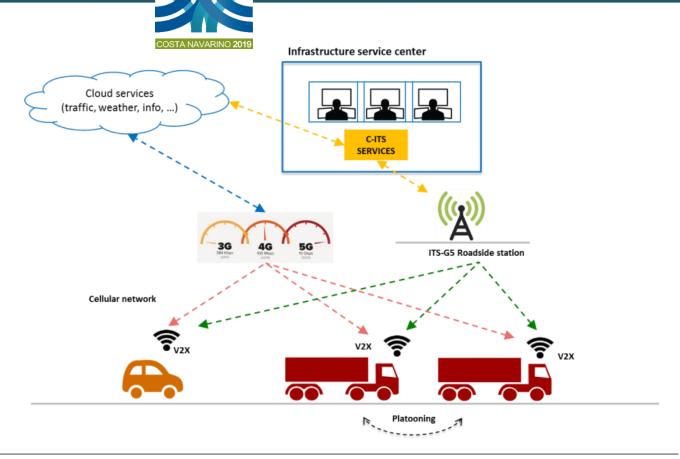


Expected benefits

- V2I communication system development based on ITS-G5 technology and on cellular technology
- C-ITS services integration with platoon technology
- Platooning impact evaluation, with a specific focus on Safety
- Evaluate the interaction with Highway Chauffeur functions
- Collect elements for Platooning technology real life deployment



C-Roads Italy: Project architecture



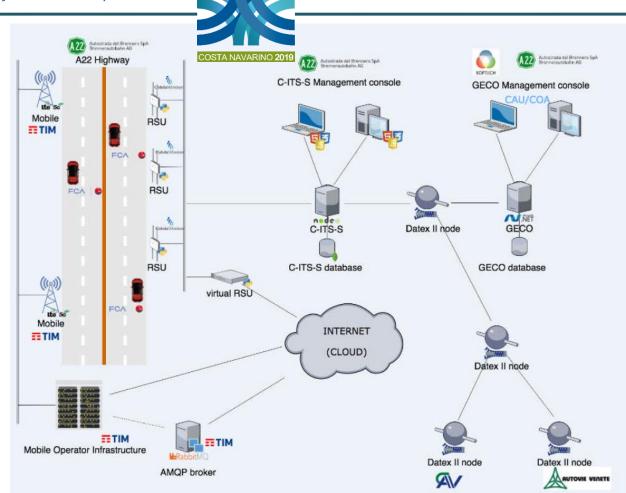


ITS-G5





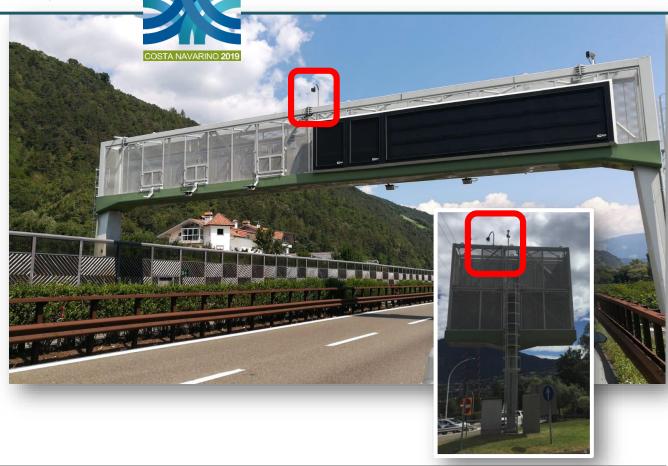
Cellular Communication



State of the art

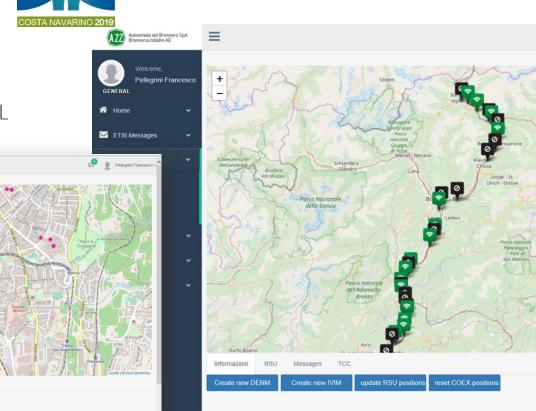
53 RSUs INSTALLED AND CONNECTED

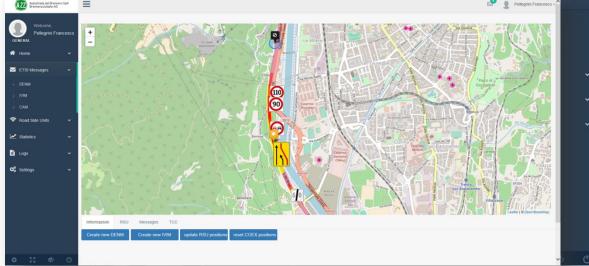






SOFTWARE FOR THE MANAGEMENT OF EVENTS OPERATIONAL





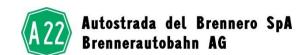


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Thank you for your attention!

Ilaria De Biasi - Autostrada del Brennero SpA



Costa Navarino, Messinia, Greece – 29-31 May 2019