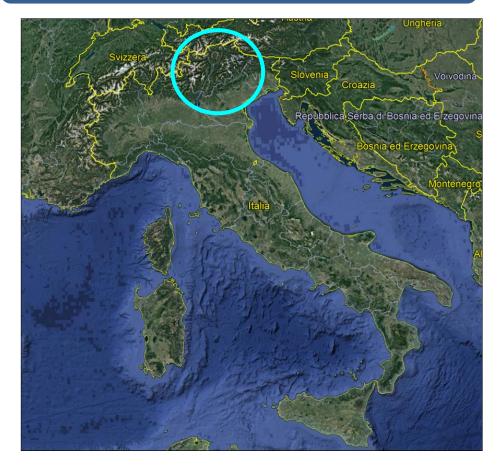
ECO-INNOVATION FOR AIR QUALITY

«Brenner Lower Emissions Corridor»

Project LIFE15-ENV-IT-000281

Laura Pretto Environmental Protection Agency - Autonomous Province of Trento (Italy)

PROJECT AREA: TRENTINO-ALTO ADIGE REGION







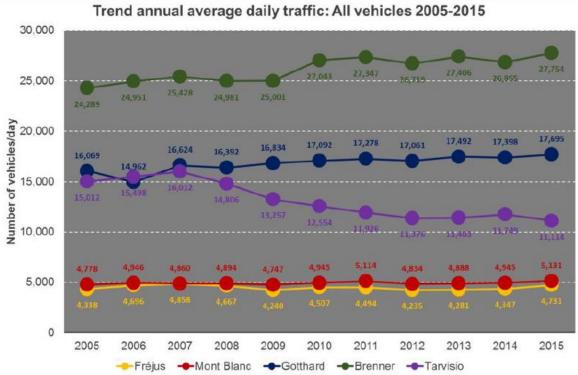


THE BRENNER MOTORWAY

PLAIN SECTION

Length: 314 km

Altitude: 50 - 1375 m above sea level



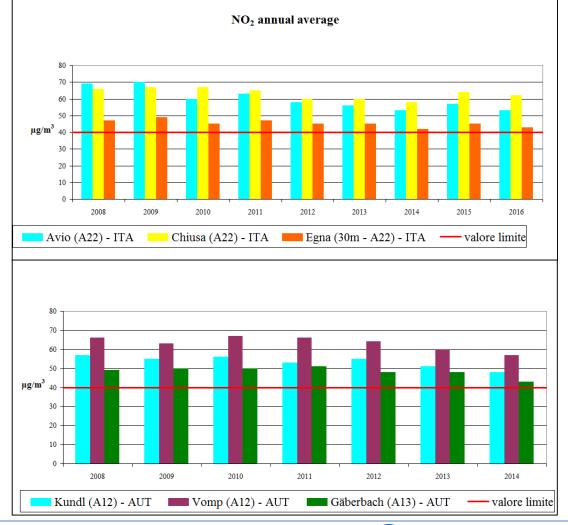


3

THE BRENNER MOTORWAY

An environmental concern







THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT

Partners	Autostrada del Brennero A22 (coordinator) Environmental Protection Agency – Autonomous Province of Bolzano Environmental Protection Agency – Autonomous Province of Trento University of Trento CISMA IDM Südtirol / Alto Adige
Duration	01.09.2016 - 30.04.2021
Overall budget	€ 4.018.005
Eligible budget	€ 3.311.365
LIFE co-financing	€ 1.922.772





THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT



To develop a **«Low Emissions Corridor»** concept to be applied to the Brenner highway [A22] by means of the experimental and scientific study of an integrated set of dynamic policies to manage traffic on the basis of a proactive logic

To define the modalities to exploit the concept to the whole Alpine corridor («Alpine BLEC»)





THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT



maximum environmental benefits,

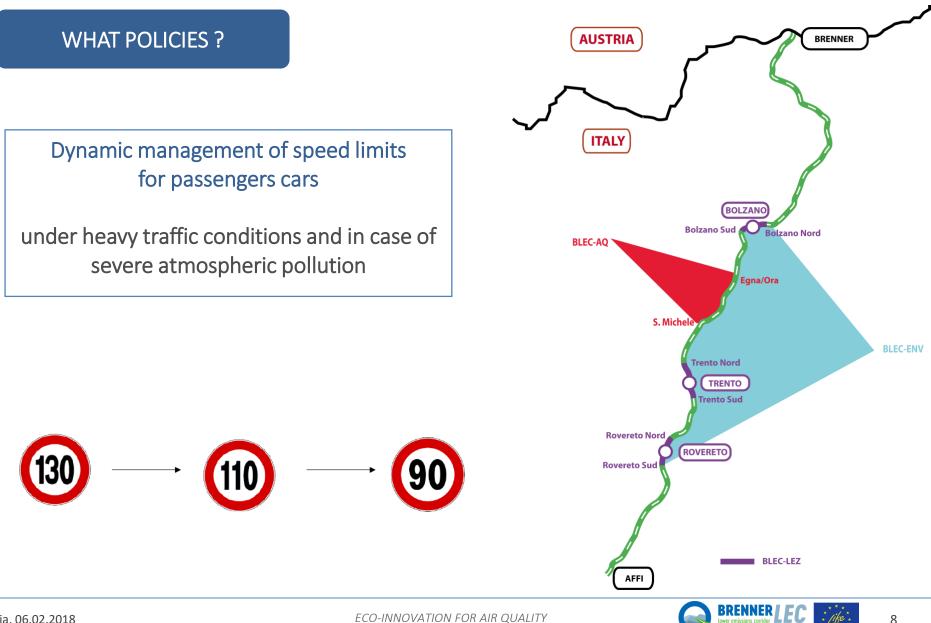
minimum inconvenience for users,

optimal use of the existent infrastructure,

maximum safety level







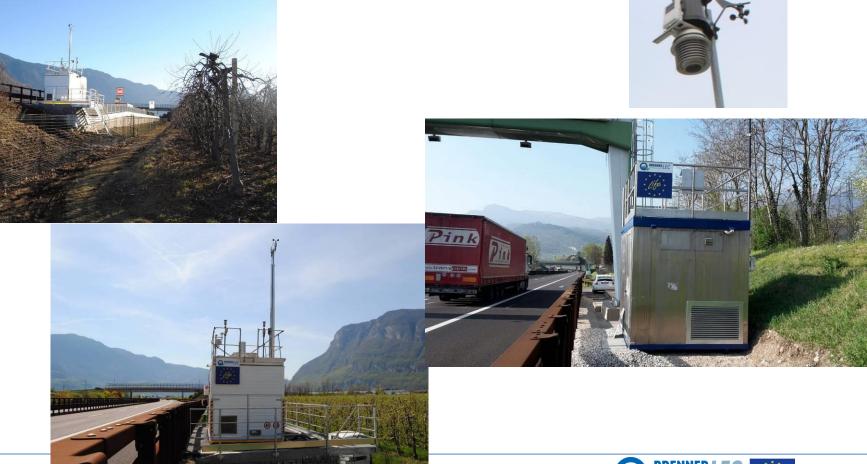
Sofia, 06.02.2018

ECO-INNOVATION FOR AIR QUALITY

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AIR QUALITY MONITORING

3 air quality monitoring stations + meteorological stations





AIR QUALITY MONITORING

Concentration of most relevant pollutants

 $NO - NO_2$

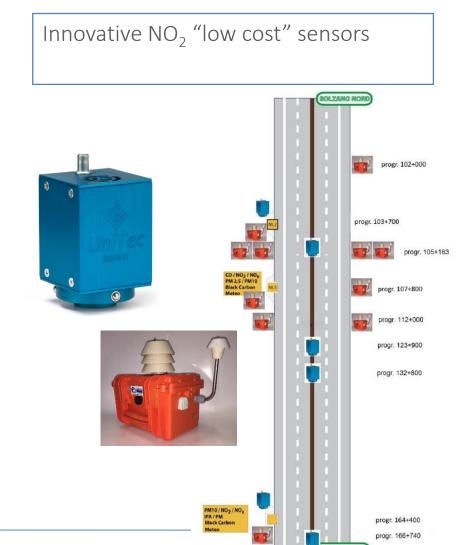
ΡM

- gravimetric
- ultrafine

Black Carbon



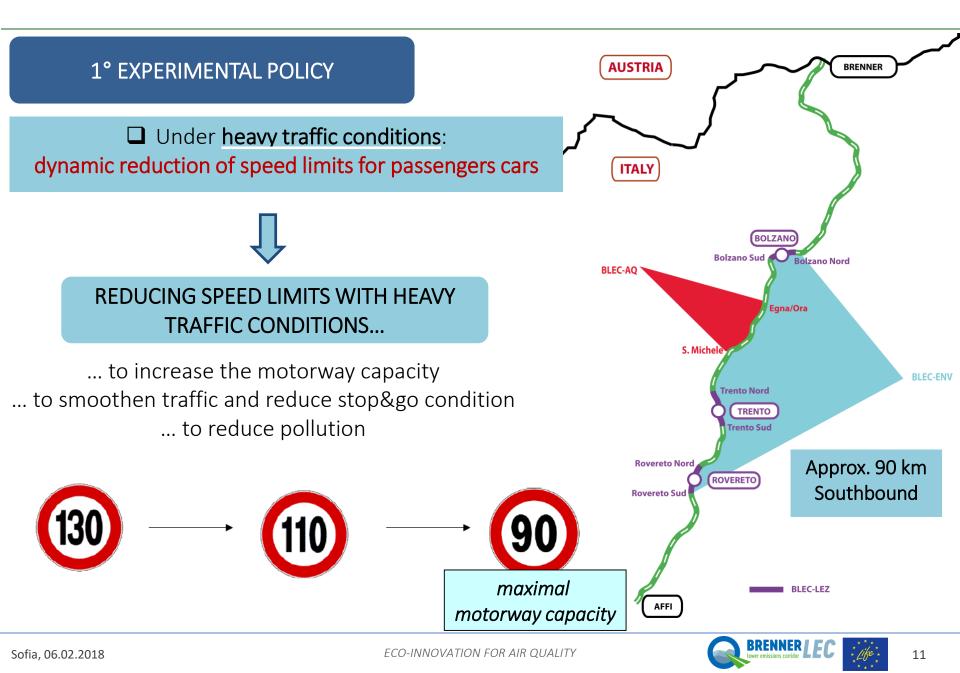




Sofia, 06.02.2018

PAH

CO

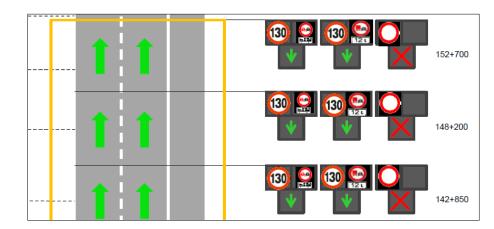


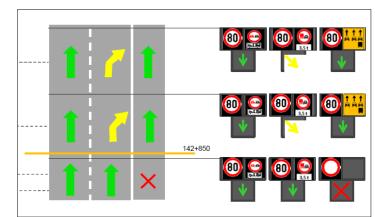
1° EXPERIMENTAL POLICY

Under almost saturated conditions:
temporary use of the hard shoulder
as additional transit lane



- In order to increase the motorway capacity from 3,000 vehicles/hr to 4,000-4,200 vehicles/hr
- Already infrastructured motorway section
- According to a special regulation







INFRASTRUCTURES

- Gantries and variable message signs
- Inductive loops to detect traffic
- Videocameras

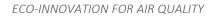


PMV IN ITINERE KM 140+605 - 156+565 - 164+300 SUD

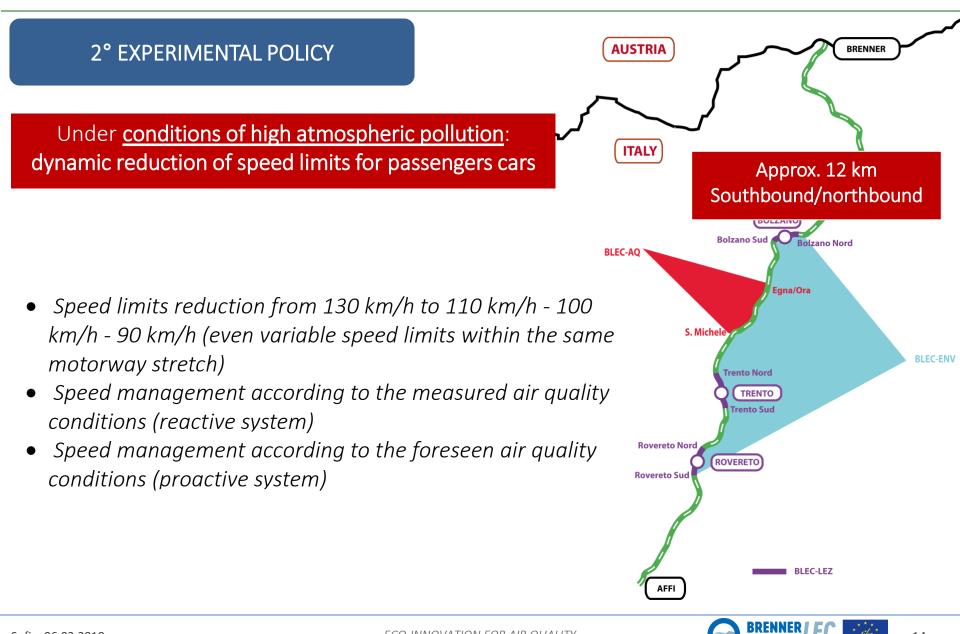


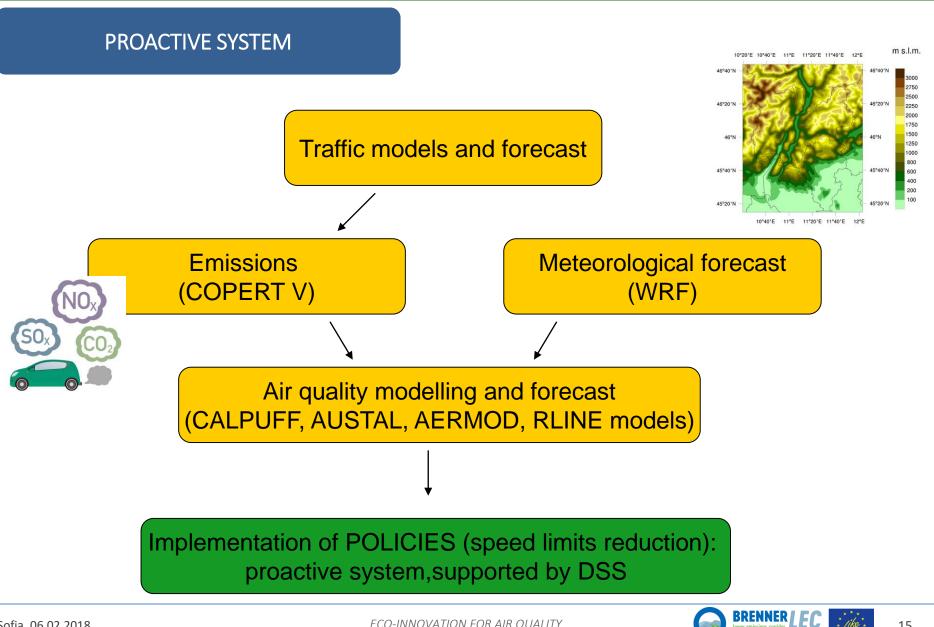


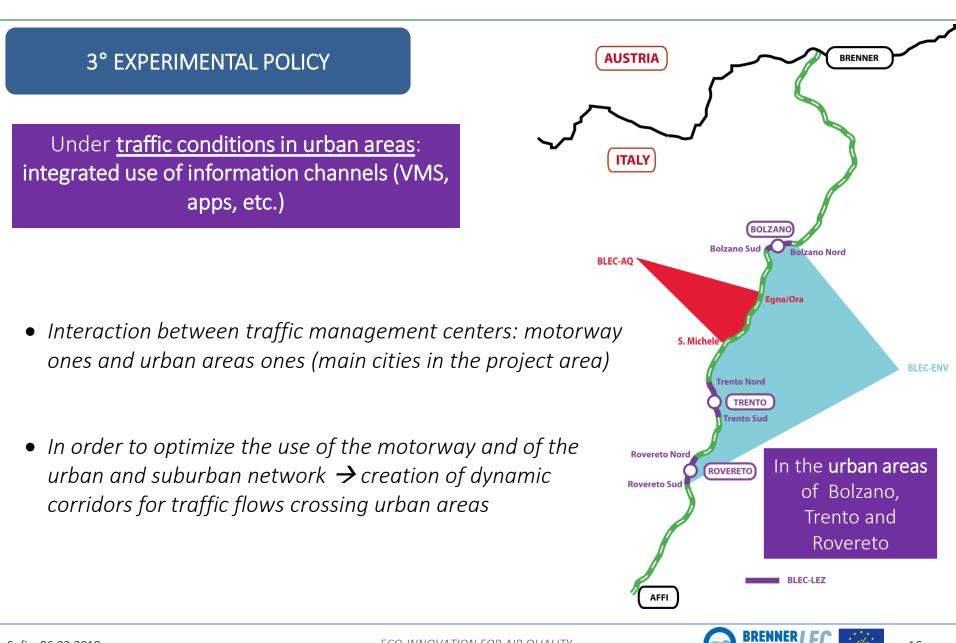


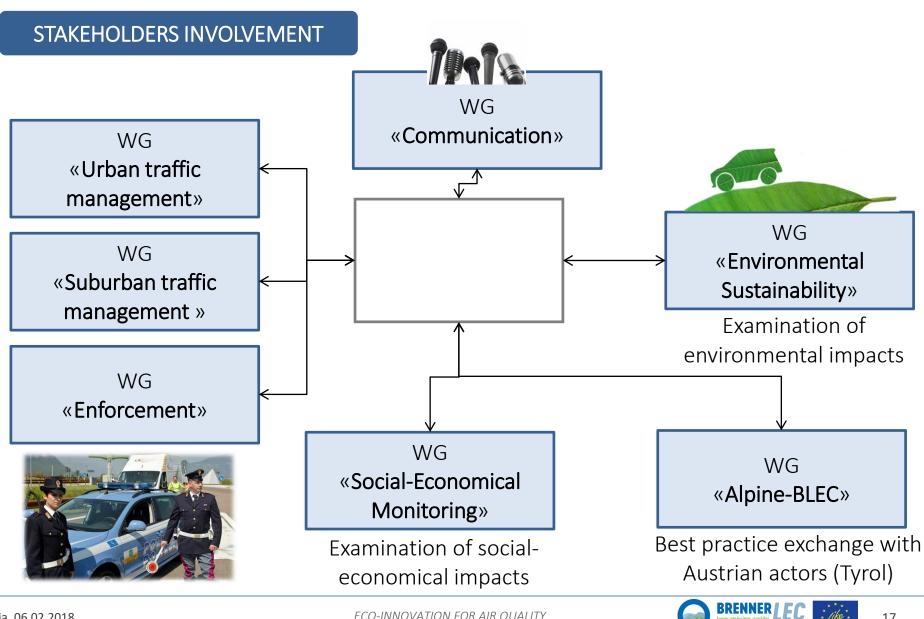












ECO-INNOVATION FOR AIR QUALITY

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DISSEMINATION

Website www.brennerlec.life



FURTHER DISCUSSIONS ON ...

Policies and tests carried out so far

Data analysis and correlations

Preliminary results







THANKS FOR THE ATTENTION

