

GOVERNMENT POLICIES ON AIR QUALITY AND CLIMATE CHANGE

LIFE15 IPE IT 013 PREPAIR - LAUNCH CONFERENCE

«Brenner Lower Emissions Corridor»

Project LIFE15-ENV-IT-000281



THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT

Partners	A22 (coordinator) APPA - Provincia Autonoma di Bolzano APPA - Provincia Autonoma di Trento Università degli Studi di 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 (approx. 60% of the eligible budget)



THE BRENNER MOTORWAY



ALPINE SECTION



PLAIN SECTION

Length: 314 km

Difference in altitude: 50 - 1375 m above sea level

145 overpasses

131 bridges and viaducts

30 tunnels

DIFFERENT CLIMATIC AND MORPHOLOGICAL CONDITIONS



THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT



To develop a «**Low Emissions Corridor**» concept to be applied to the 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**»)



AlpineBLEC: Kufstein (A) - Affi (I)



THE «BRENNER LOWER EMISSIONS CORRIDOR» PROJECT



maximum environmental
benefits,
minimum inconvenience for
users,
optimal use of the existent
infrastructure,
maximum safety level



AlpineBLEC: Kufstein (A) - Affi (I)



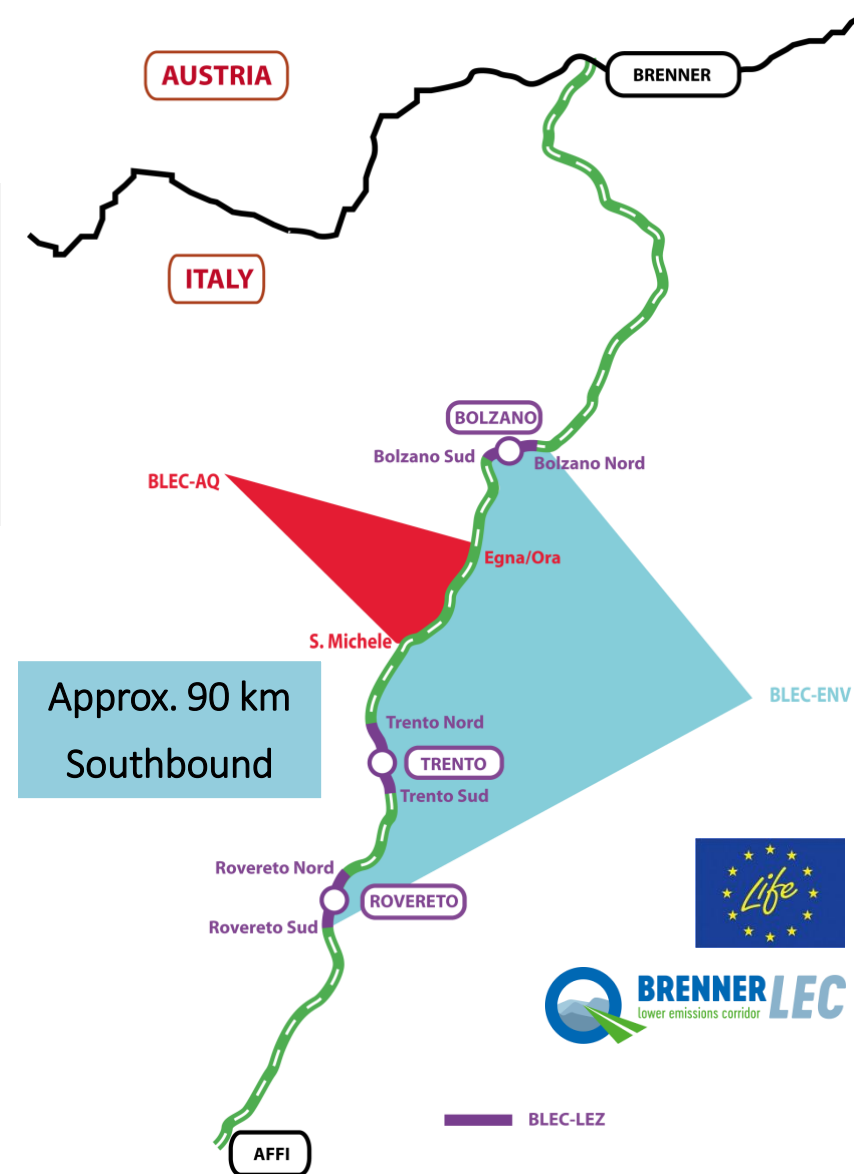
EXPERIMENTAL POLICIES APPLIED WITHIN THE PROJECT

- ❑ Under heavy traffic conditions: **dynamic reduction of speed limits**
- ❑ Under almost saturated conditions:
temporary use of the hard shoulder as additional transit lane

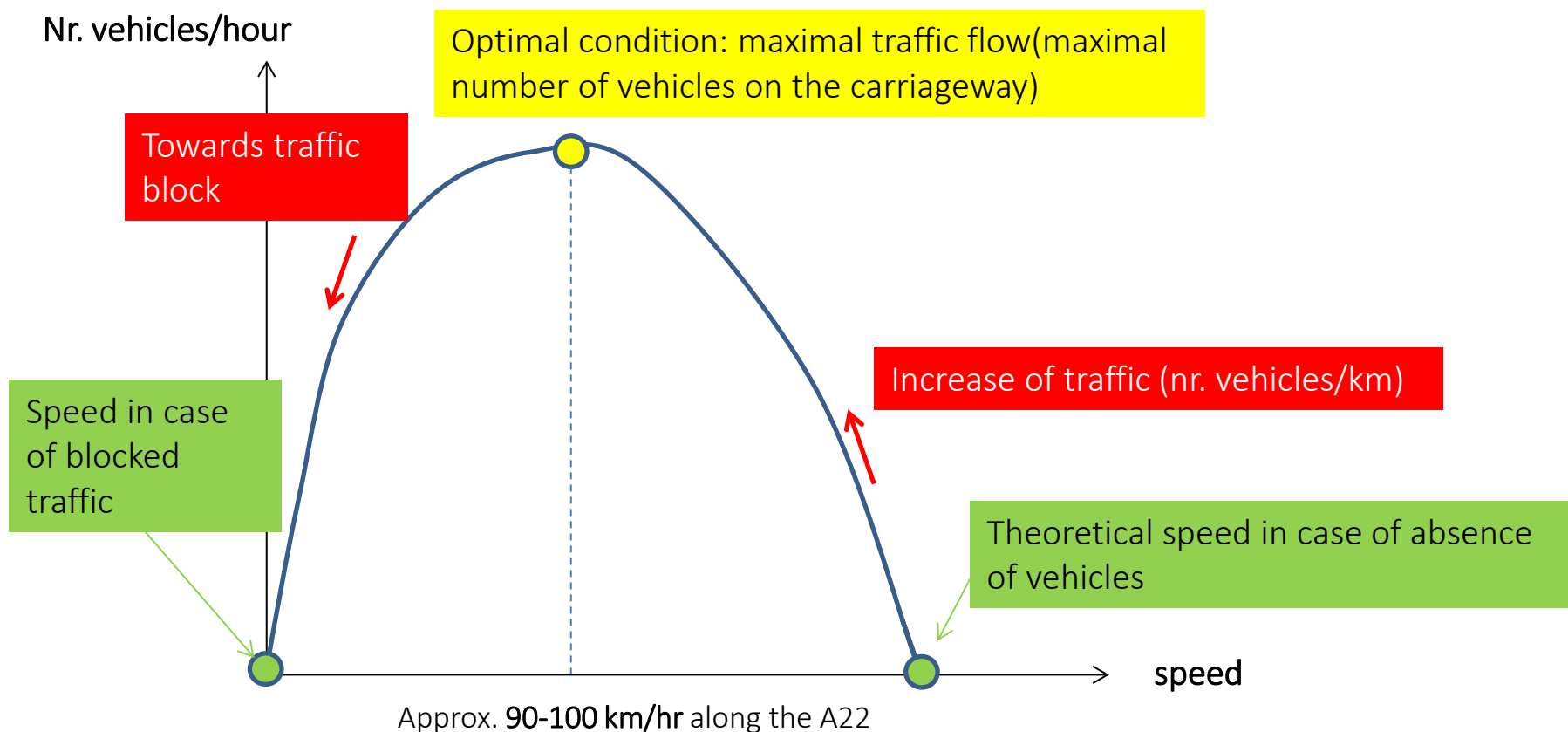


REDUCING SPEED LIMITS WITH HEAVY TRAFFIC...

- ... to increase the motorway capacity
- ... to smoothen traffic
- ... to reduce pollution



WHY REDUCING SPEED LIMITS WITH HEAVY TRAFFIC?



EXPERIMENTAL POLICY APPLIED WITHIN THE PROJECT - BLEC-ENV

PHASE 1 (da marzo 2017 a maggio 2018)

Tests with dynamic speed limits and temporary use of the hard shoulder on a short experimental section (Trento South – Rovereto South)

Speed limit reduction:

12 days / year (almost 40% of all critical events)

Dynamic lane activation:

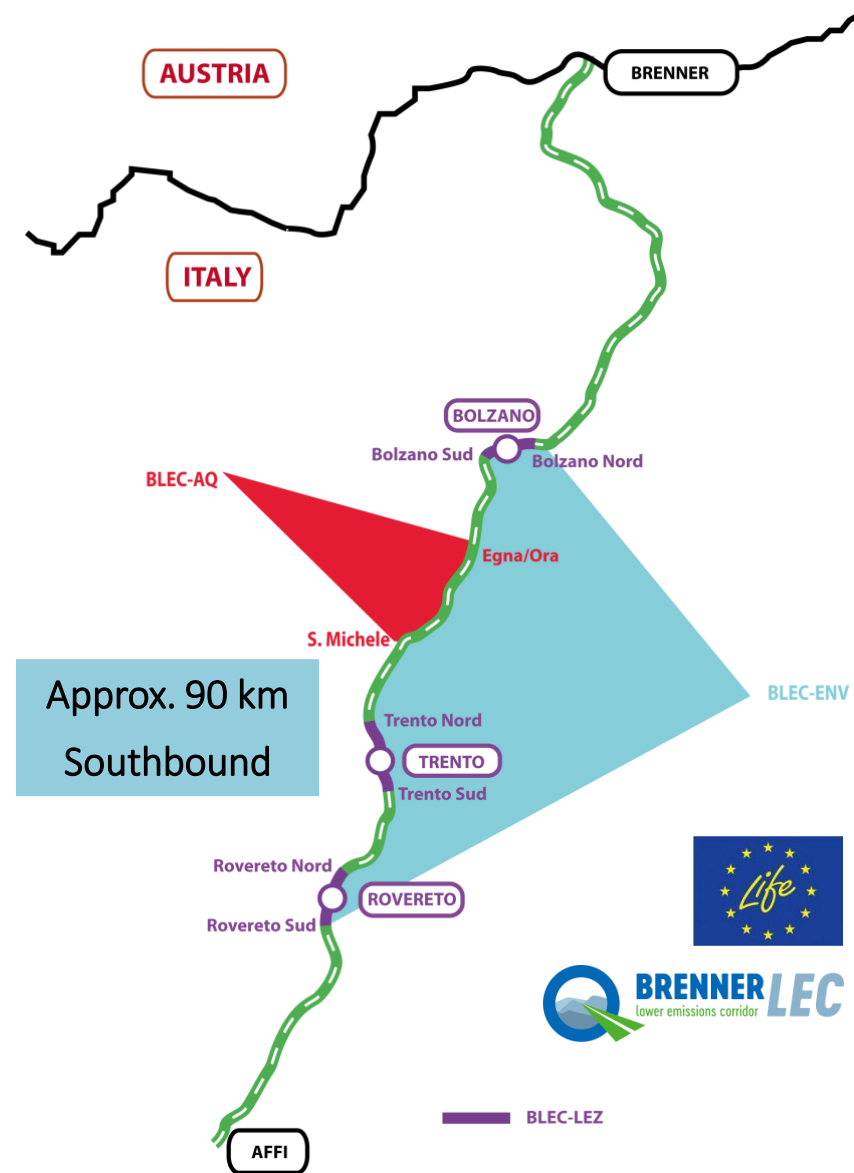
3 days / year

PHASE 2 (from March 2018 to December 2019)

Assessment of dynamic speed limits on the whole project section

PHASE 3 (from October 2019 to April 2021)

Optimization of combined policies



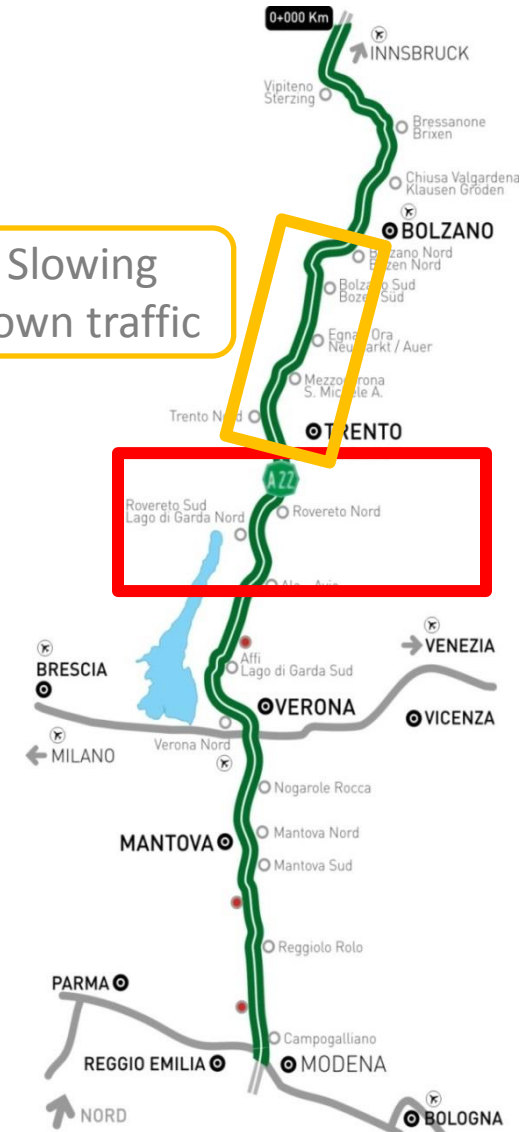
HOW ARE SPEED REDUCTION MEASURES APPLIED?



Speed reduction to 90 km/h (maximal motorway capacity) in two steps



Slowing
down traffic



Tests start when traffic begins slowing down north of Trento – before traffic congestions take place – to smoothen traffic flows

HOW IS DYNAMIC LANE ACTIVATION APPLIED?

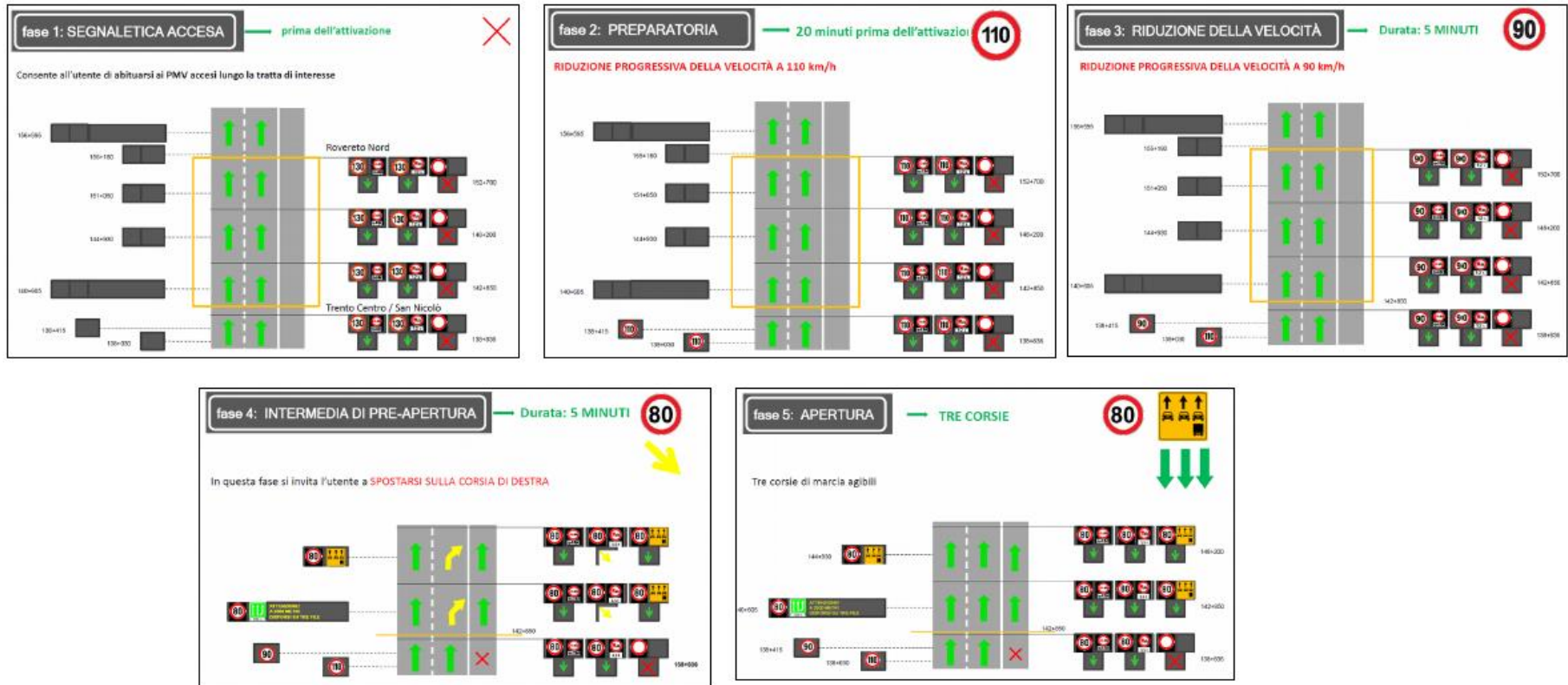
Dynamic lane activation – in order to increase the motorway capacity from 3,000 vehicles/hr to 4,000-4,200 vehicles/hr



Already infrastructured
motorway section

HOW IS DYNAMIC LANE ACTIVATION APPLIED?

According to a **special regulation**



EXPERIMENTAL POLICY APPLIED WITHIN THE PROJECT - BLEC-AQ

Under conditions of high pollution: **dynamic reduction of speed limits for passengers cars**

PRE-PHASE (from February 2017 to April 2017)

Testing the correct functioning

PHASE 1 (from May 2017 to April 2018)

Comparison of speed limits 130 km/h - 100 km/h

PHASE 2 (from May 2018 to April 2019)

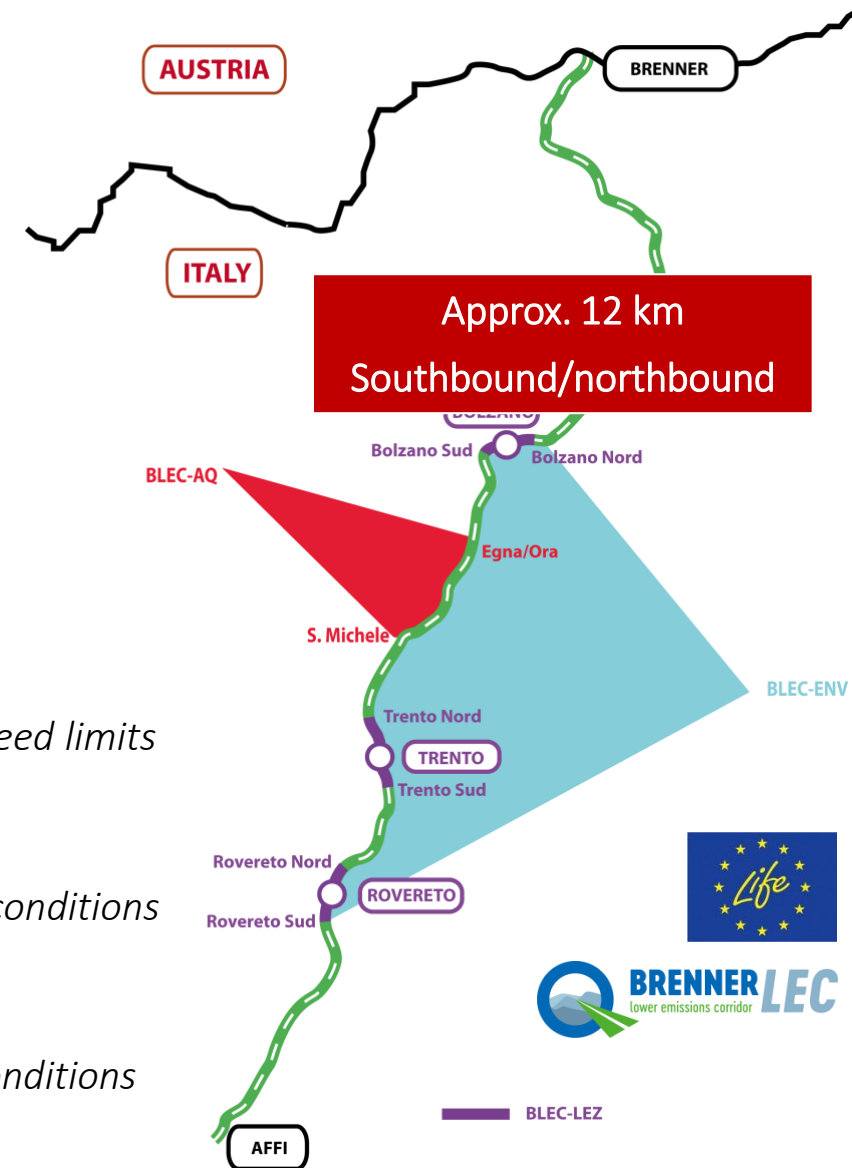
Comparison of speed limits up to 90 km/h (even variable speed limits within the same motorway stretch)

PHASE 3 (from May 2019 to December 2019)

Speed management according to the measured air quality conditions (reactive system)

PHASE 4 (from October 2019 to April 2021)

Speed management according to the foreseen air quality conditions (proactive system)



EXPERIMENTAL POLICY APPLIED WITHIN THE PROJECT - BLEC-LEZ

Under traffic conditions in urban areas:
**integrated use of information channels (VMS,
apps, etc.)**

Real-time analysis of **travel times** along the **National Road 12** and monitoring possible dangers of high traffic flows from the motorway to the suburban road network

PHASE 1 (from September 2017 to March 2018)

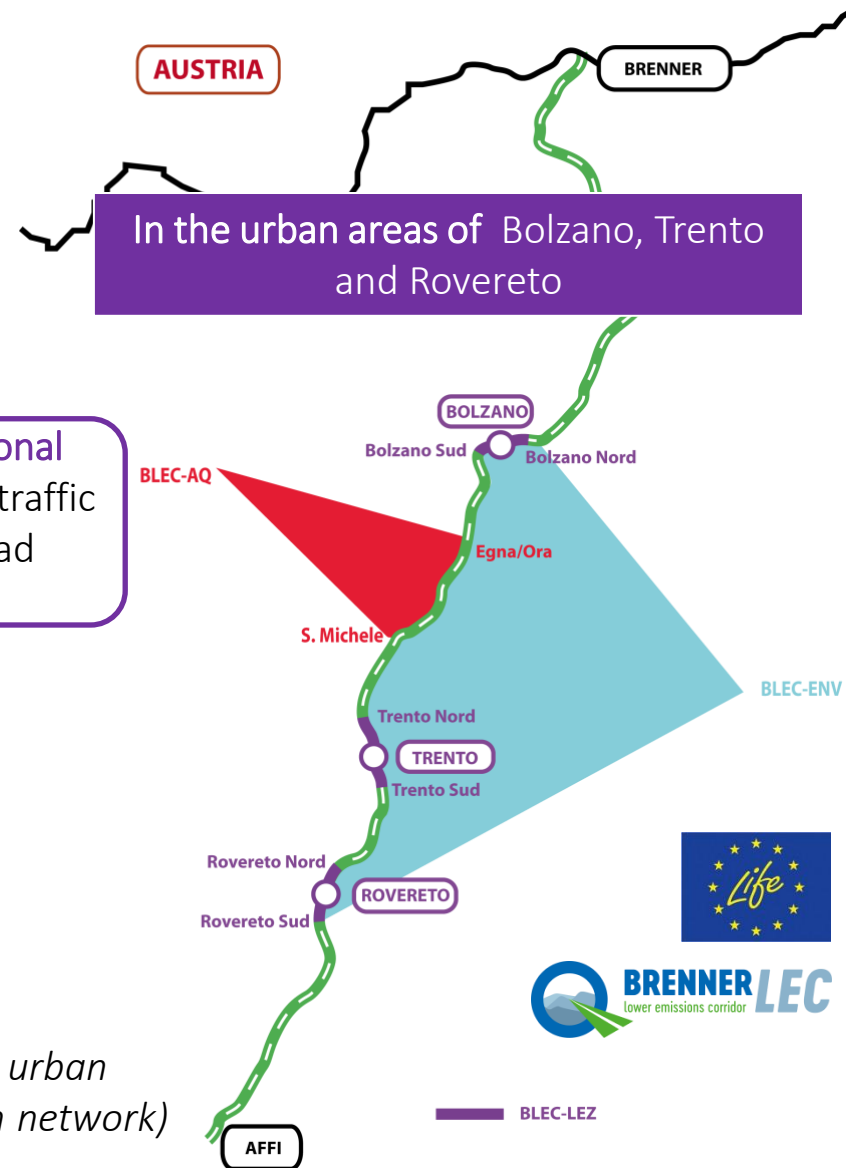
Operative interaction between traffic management centers

PHASE 2 (from April 2018 to October 2019)

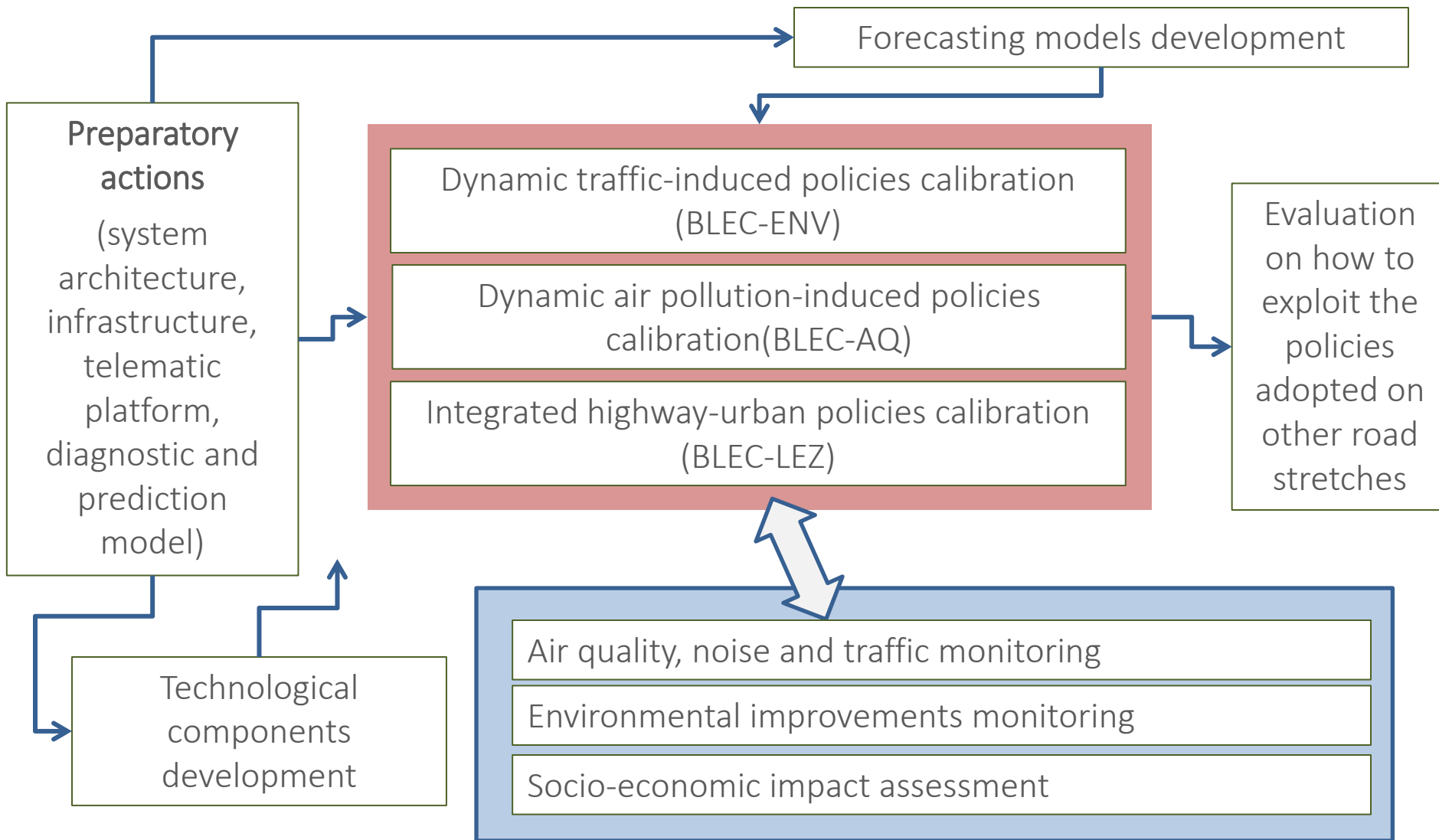
Technological integration of traffic management centers

PHASE 3 (from November 2019 to April 2021)

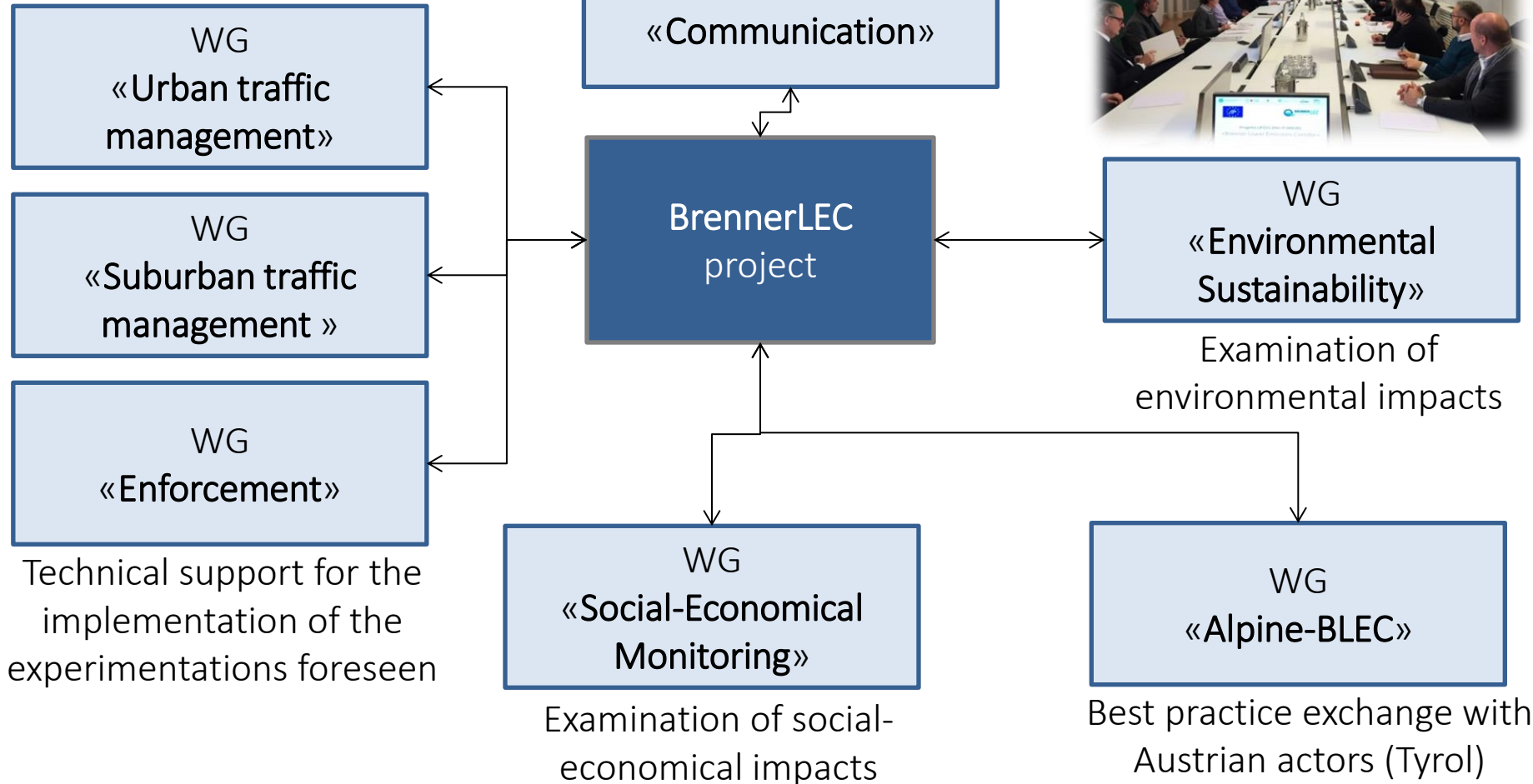
Creation of joint dynamic corridors for traffic flows crossing urban areas (optimized use of the motorway, urban and suburban network)



ACTIONS PLAN – technical part

BRENNER LEC
lower emissions corridor

STAKEHOLDERS INVOLVEMENT



USERS' INVOLVEMENT



28.11.2016
Press conference

Project factsheet

BrennerLEC
EU-LIFE Projekt "Brenner Lower Emissions Corridor"
(Emissionsarmer Brenner-Korridor)
LIFE15 ENV/IT/000281

Zusammenfassung des Projekts

Dauer: 01/09/2016 - 30/04/2021
Budget: € 4.018.005,00
EU-Betrag: € 1.922.772,00

Projektpartner:
Brennerautobahn – Trient (Project Leader)
Landesagentur für Umwelt – Bozen
Landesagentur für Umwelt – Trient
Universität Trient
IDM Südtirol / Alto Adige – Bozen
CISMA – Bozen

FAQ

BrennerLEC
EU-LIFE Projekt "Brenner Lower Emissions Corridor"

Fragen und Antworten zum Projekt
Pressekonferenz vom 28. November 2016

BrennerLEC Fragebogen

NEXT Page 1 of 9

Never submit passwords through Google Forms.

This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Additional Terms

Google Forms

Questionnaire

Project page on the A22 web site
<http://www.autobrennero.it/it/la-rete-autostradale/ricerca-tecnologica/brennerlec/>

USERS' INVOLVEMENT

hell

MARKETING & PUBBLICITÀ



www.brennerlec.life



USERS' INVOLVEMENT

Posters

**BRENNER LEC**
lower emissions corridor

ALZA IL PIEDE! PER EMISSIONI RIDOTTE FUSS VOM GAS! FÜR WENIGERE EMISSIONEN



low emissions
improve air
quality

www.brennerlec.life

Flyers

[illegible]

Large-scale dissemination

- ☐ Notice boards
- ☐ Web site
- ☐ Media activities and public events
- ☐ Dissemination material
- ☐ Advanced Traveller Information Services + questionnaires for users
- ☐ Short technical reports



GOVERNMENT POLICIES ON AIR QUALITY AND CLIMATE CHANGE

LIFE15 IPE IT 013 PREPAIR - LAUNCH CONFERENCE

«Brenner Lower Emissions Corridor»

Project LIFE15-ENV-IT-000281

