



Autostrada del Brennero SpA
Brennerautobahn AG

AUTONOME
PROVINZ
BOZEN
SÜDTIROL



PROVINCIA
AUTONOMA
DI BOLZANO
ALTO ADIGE



PROVINCIA AUTONOMA DI TRENTO



UNIVERSITÀ DEGLI STUDI
DI TRENTO



Air quality management along the Brenner corridor in the Italian Alps: the BrennerLEC project

Lorenzo Giovannini, Gianluca Antonacci, Roberto Cavaliere, Ilaria De Biasi, Massimo Guariento, Valentina Miotto,
Dino Zardi

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International Mountain Conference



THE PROJECT «BRENNER LOWER EMISSIONS CORRIDOR»

Objectives

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



EXPERIMENTAL POLICIES TESTED

BLEC-ENV - Bolzano North– Rovereto South (approx. 90 km)

Policy Dynamic management of the motorway capacity

Measures Speed limits reduction *Days with heavy traffic flows*

BLEC-AQ - Egna/Ora – S.Michele (approx. 20 km)

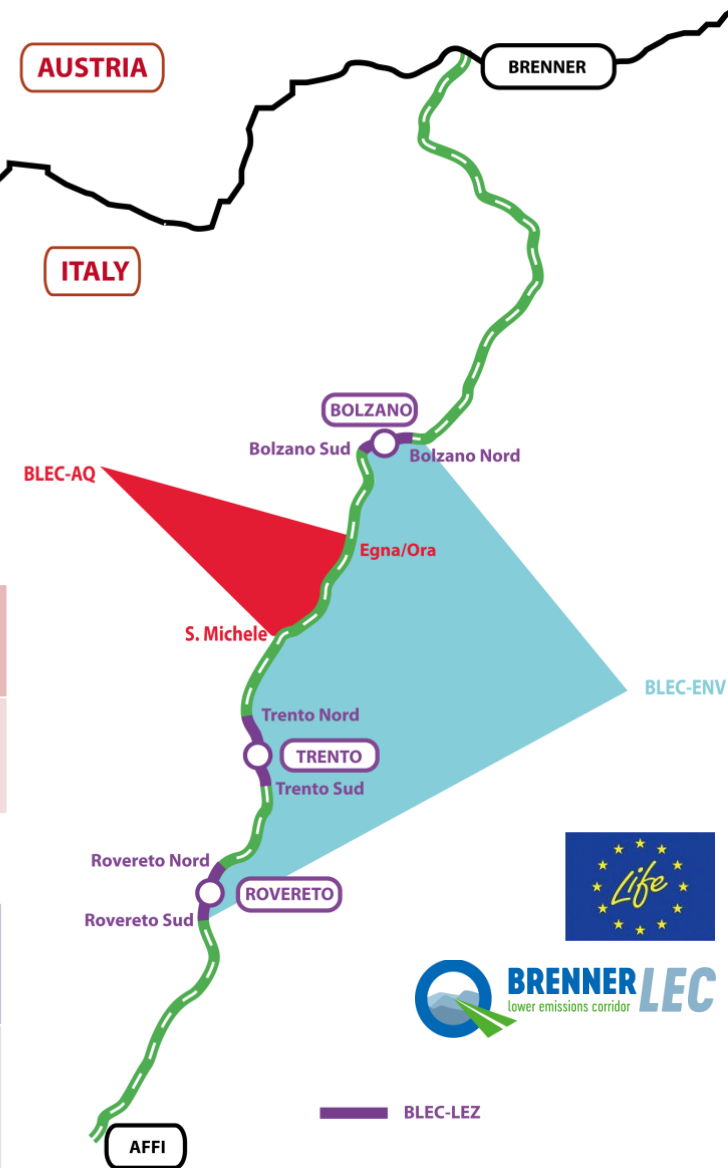
Policy Dynamic management of speed limits for environmental purposes

Measures Speed limits reduction *High pollutants concentrations*

BLEC-LEZ - motorway stretches: Bolzano, Trento and Rovereto

Policy Dynamic integrated traffic management (together with town authorities)

Measures VMS with dynamic suggestions to get access to the city *Traffic disturbances in urban areas*



BLEC-ENV

BLEC-LEZ



km 107+800 dir. South

Air quality stations

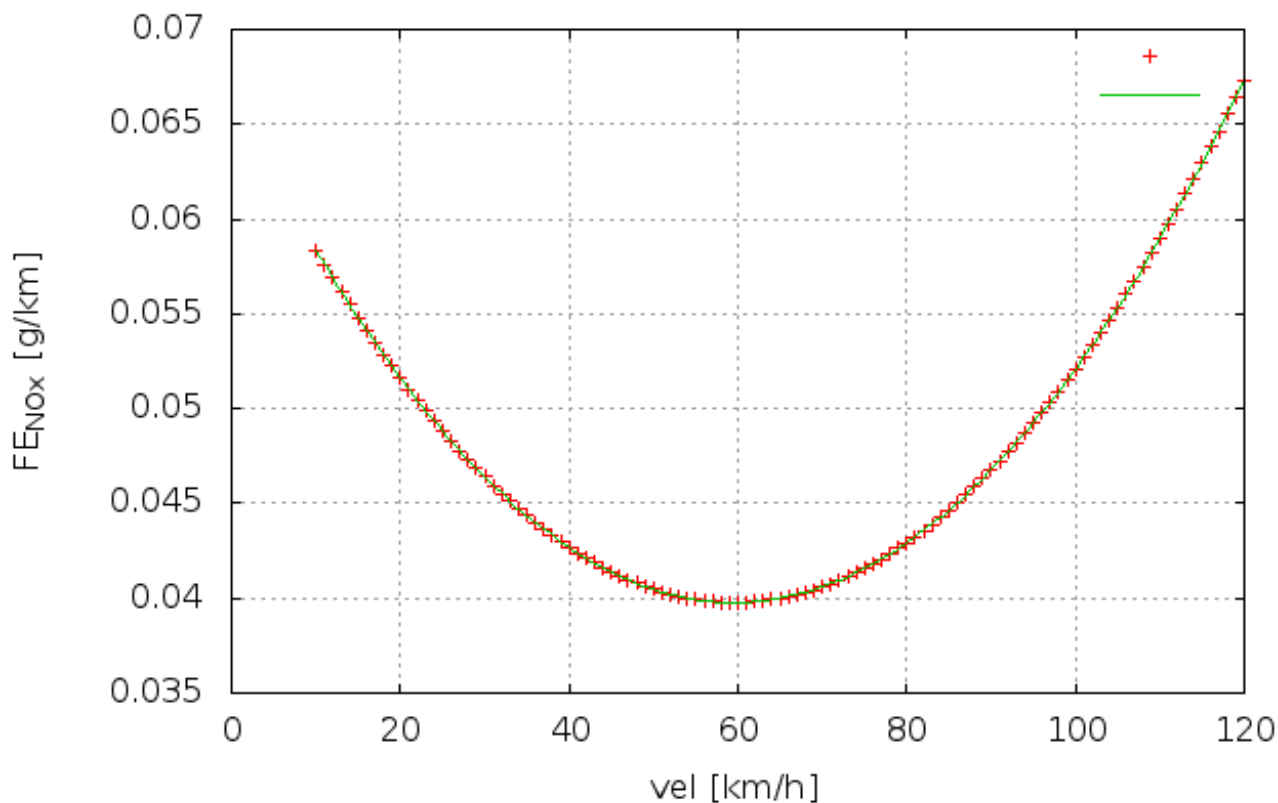


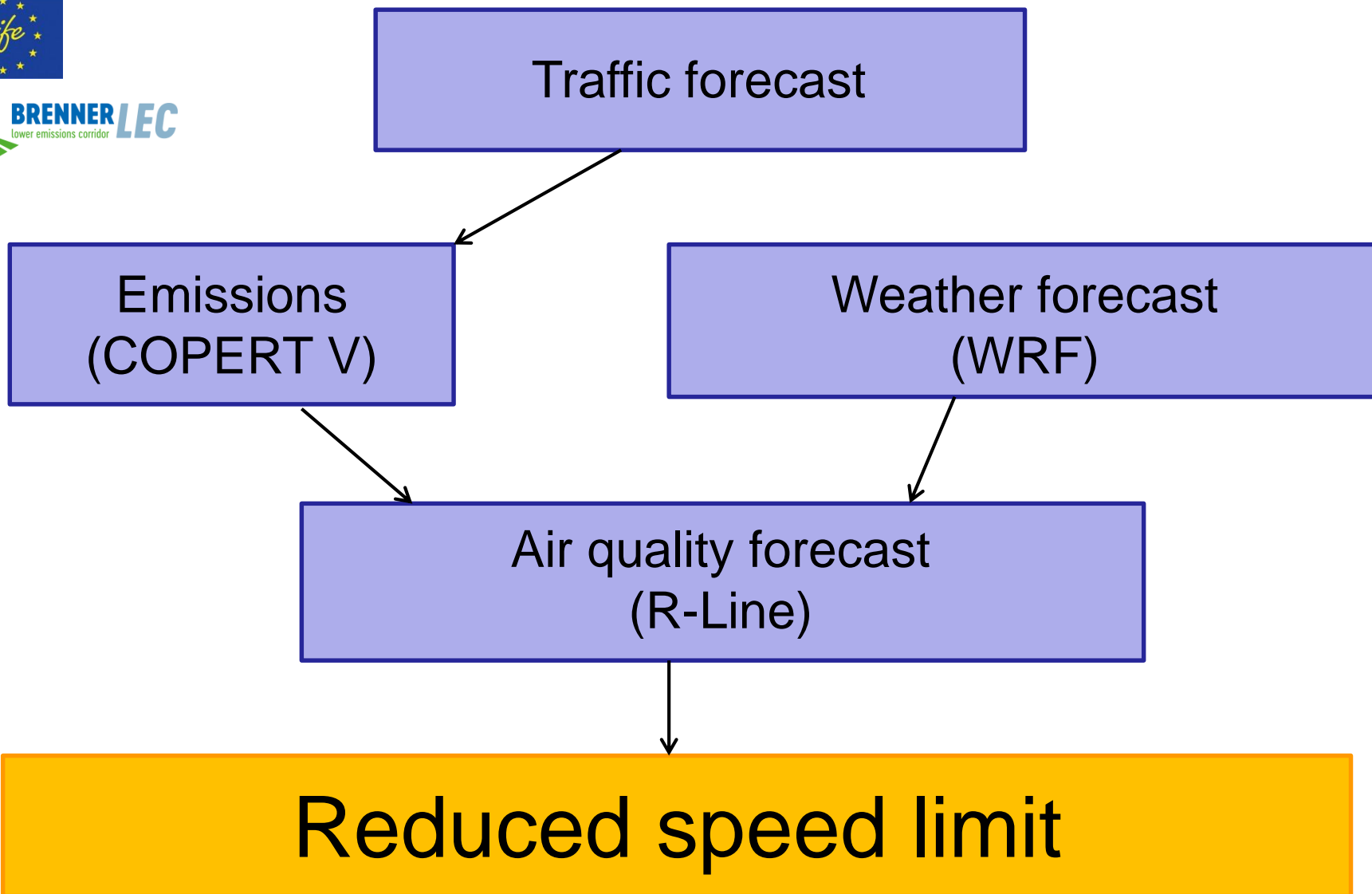
km 164+400 dir. South

km 103+700 dir. South



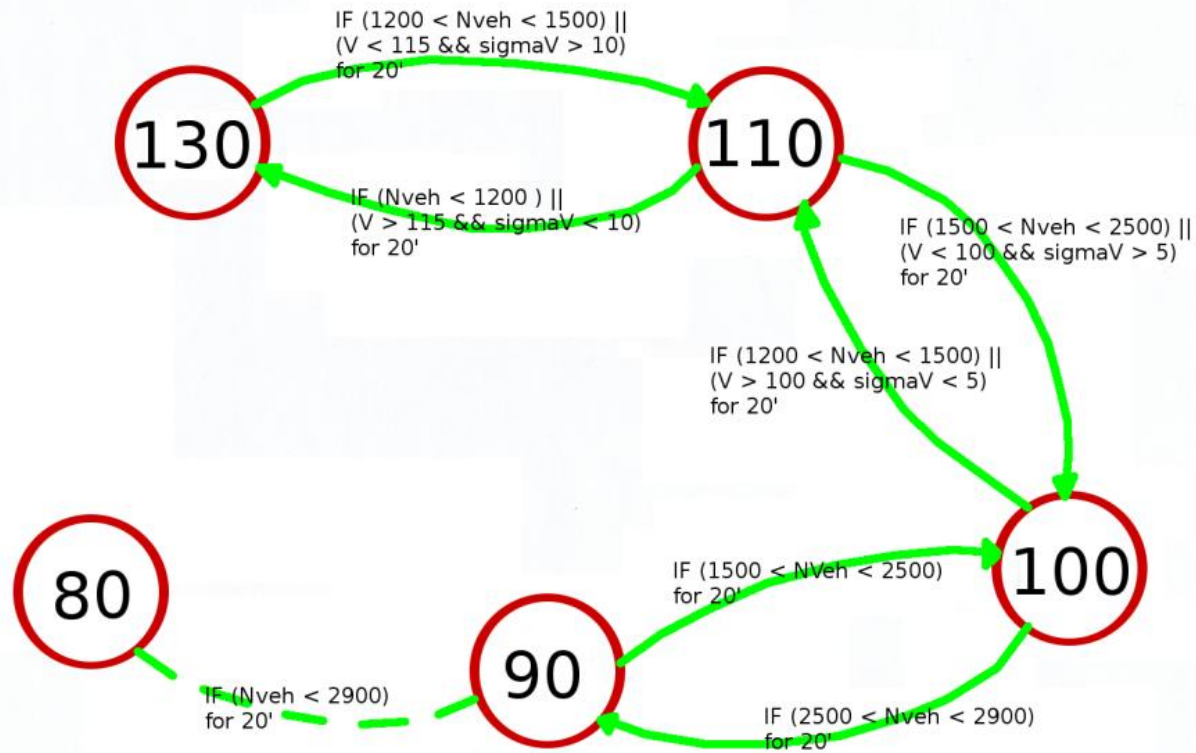
Dependence of the COPERT emission factor of a EURO 4 gasoline LV on average speed



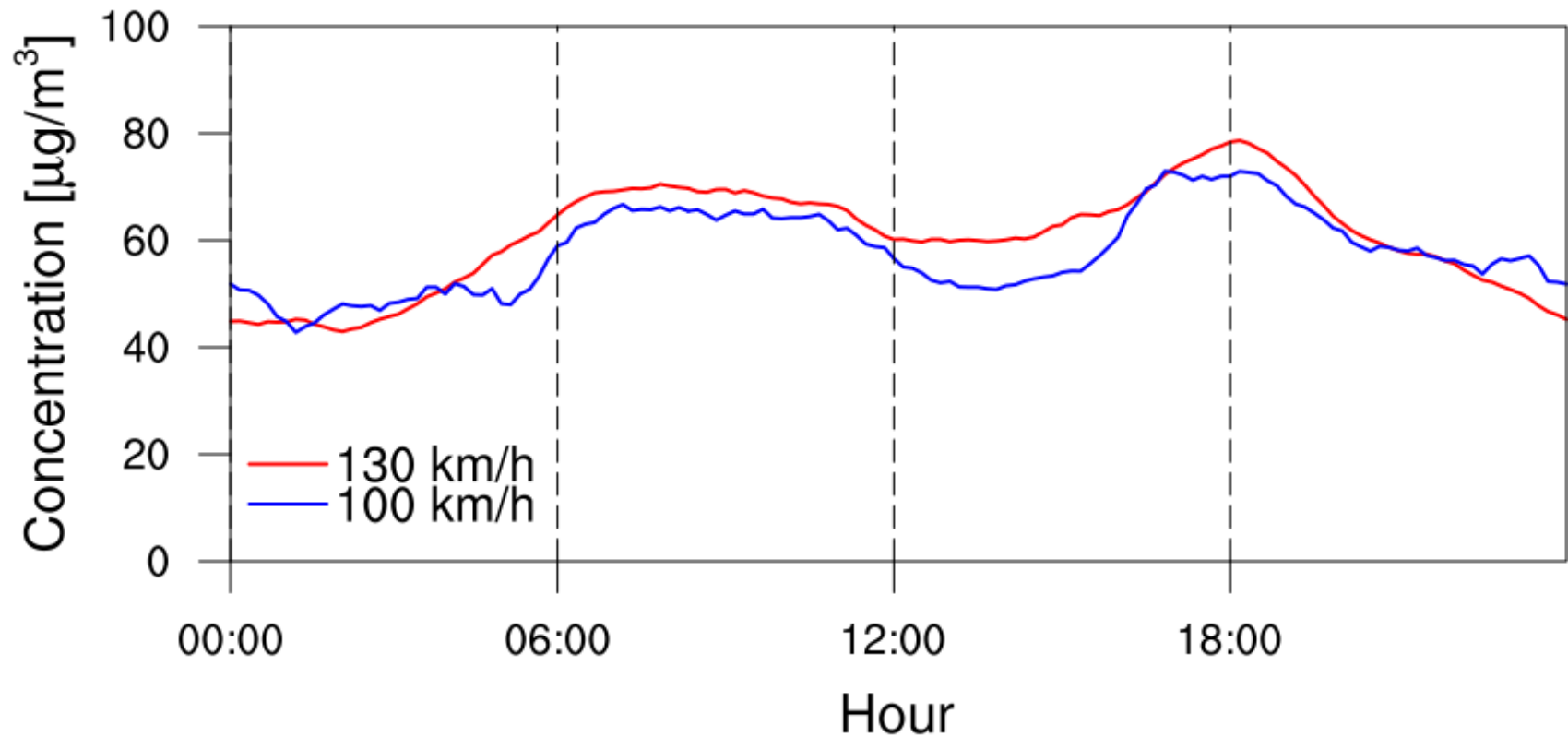


SPEED LIMIT TRIGGER

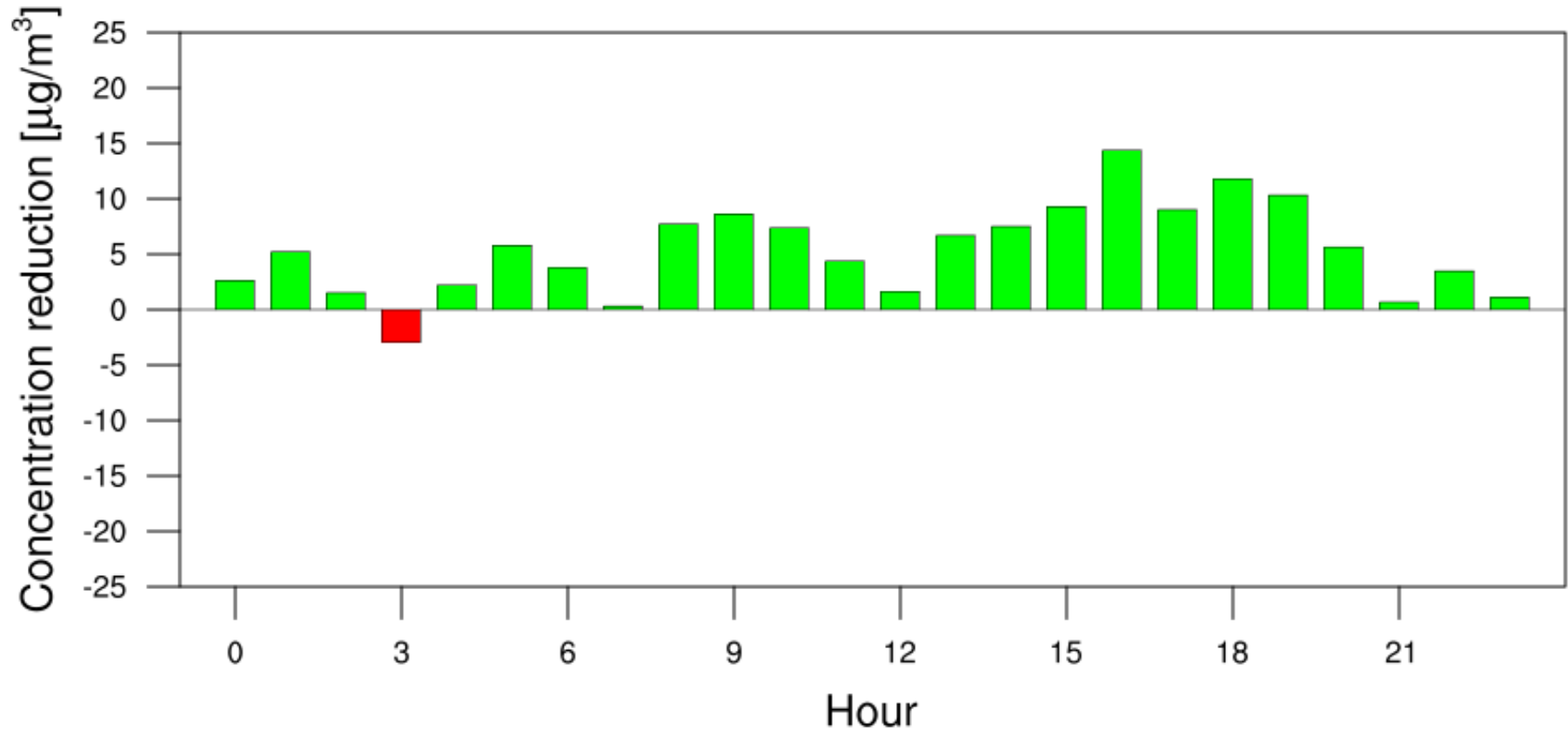
for each carriageway

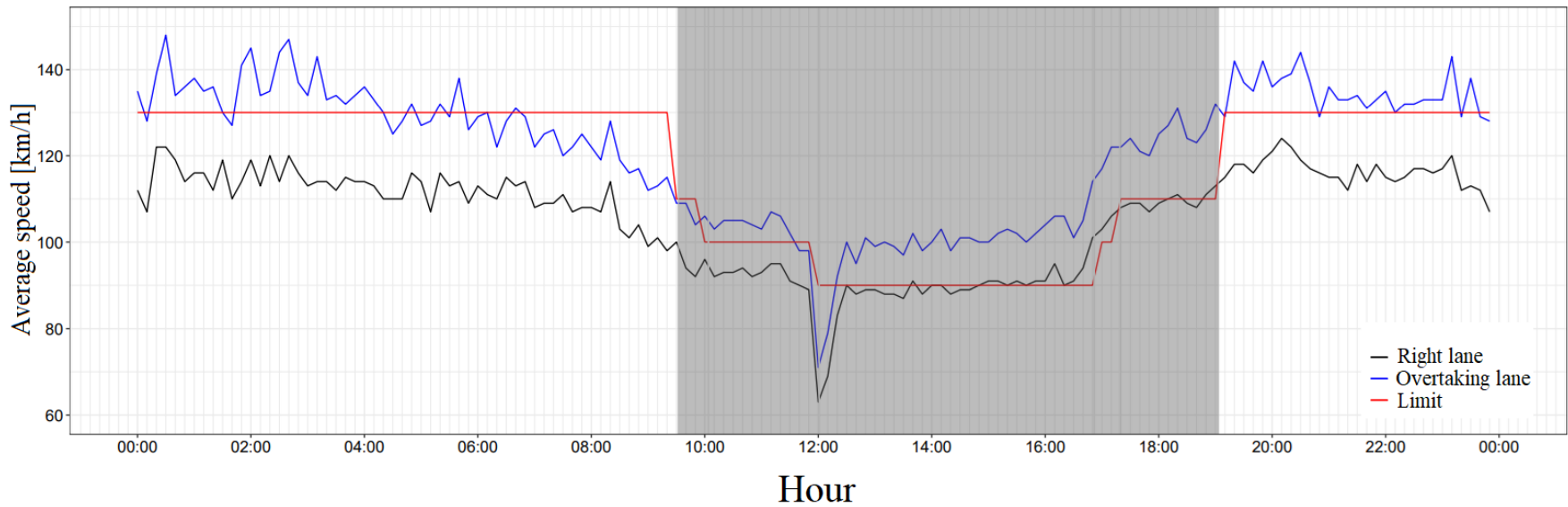


Nitrogen dioxide



Nitrogen dioxide







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THANKS FOR YOUR ATTENTION!

low emissions
improve air
Quality

Progetto LIFE15-ENV-IT-000281 «Brenner Lower Emissions Corridor»