

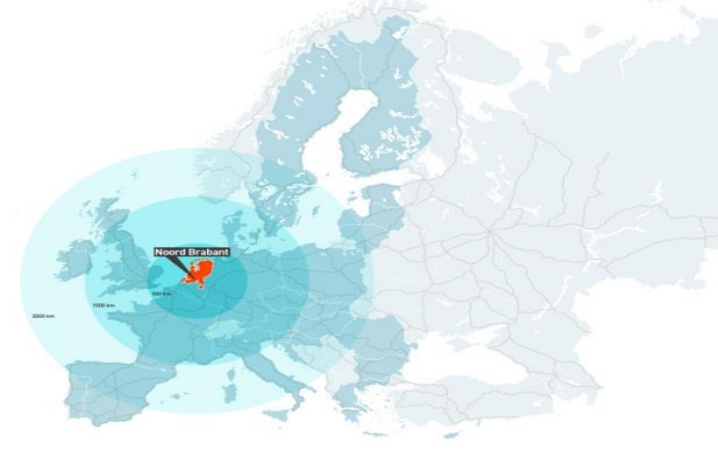
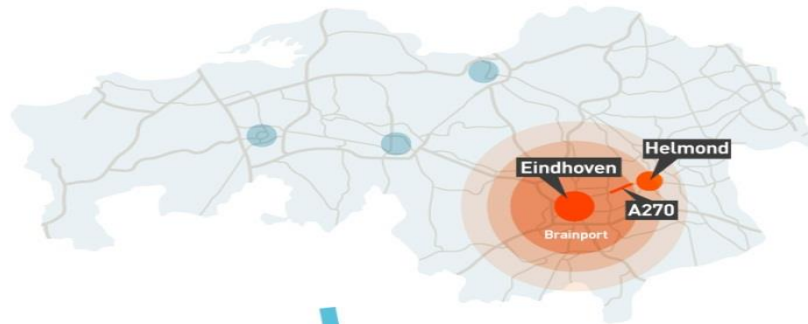
# From ITS technology to mobility solutions Learning by doing, doing by learning ...

Gert Blom  
Strategic Advisor Mobility - city of Helmond  
ITS Innovation Manager – ITS Agency BrabantStad



Helmond, 24 October 2017  
Delegation of TUBITAK and Ministry of Transport of Turkey





# Mobility policy Helmond

Helmond Mobiel 2015



Integrale mobiliteitsvisie 2015



Active support of smart mobility pilots and showcases



HELMOND VERBONDEN  
Mobiliteitsvisie 2016-2025



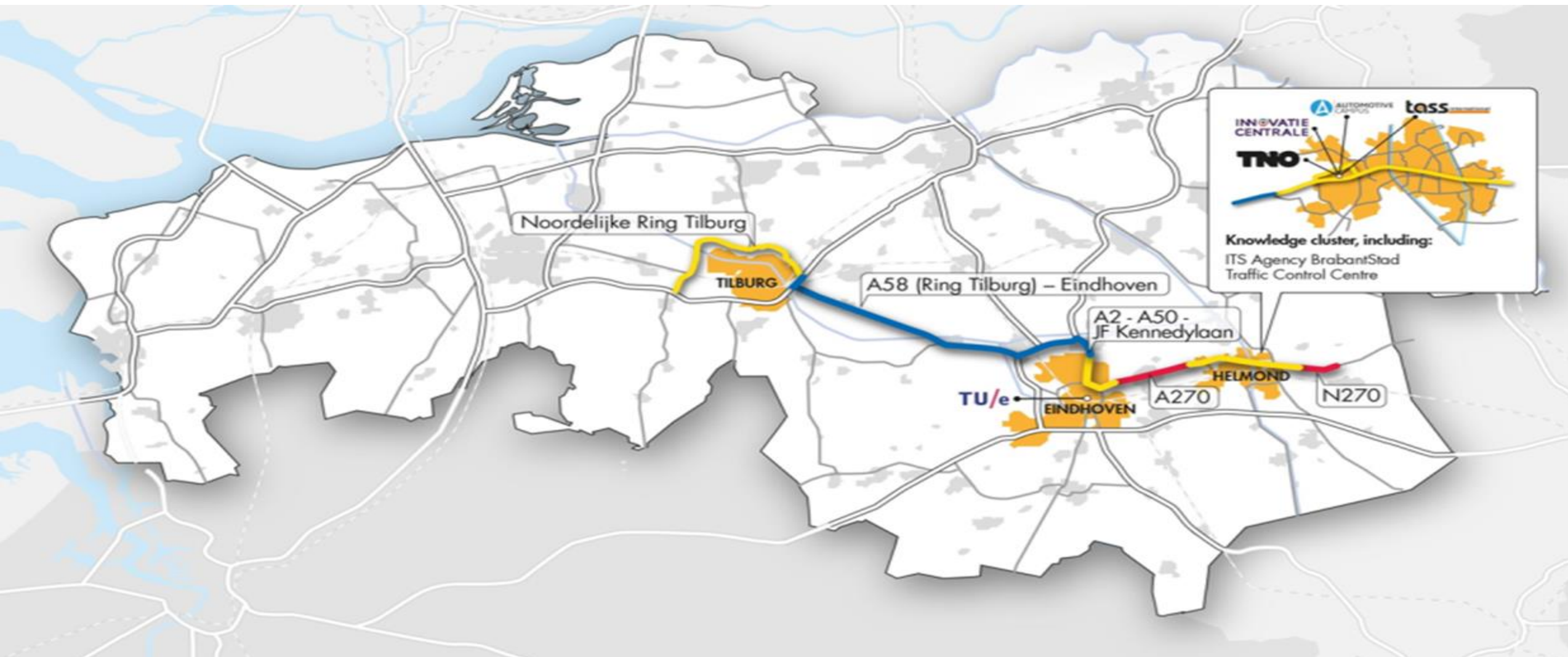
# Helmond A270 Living Lab ITS



## Grand Cooperative Driving Challenge



# MobilityMoveZ.NL Living Lab Brabant





# FREILOT Energy Efficient Intersection Service Helmond

Priority at intersections – speed & time-to-green advice



# FREILOT: Energy Efficient Intersection Service

## The example of Helmond (NL)

Source: FREILOT project



14 equipped intersections in urban zone

| Period   | Number of crossings | Number of stops | % of stops |
|----------|---------------------|-----------------|------------|
| Baseline | 408                 | 52              | 13%        |
| Pilot    | 343                 | 20              | 6%         |

Number of crossings and stops in both periods

|                                  | Baseline | Pilot | Rate of change |
|----------------------------------|----------|-------|----------------|
| CO <sub>2</sub> emissions (g/km) | 644      | 562   | -13%           |
| NO <sub>x</sub> emissions (g/km) | 3.87     | 3.33  | -14%           |
| Fuel consumption (l/100km)       | 24       | 21    | -13%           |
| Speed (km/h)                     | 35       | 36    | +2.6%          |

Emissions, consumption and speed variations

## From C-ITS- technology to mobility solutions the deployment challenge



- ? **Know-how /knowledge sharing**
- ✓ **Technology**
- ✓ **Policy**
- ✗ **Business-models: economies of scale**
- ✗ **General Acceptance**
- ✗ **Proof of Evidence**
- ✗ **Cyber Security**



## Learning by doing, doing by learning ...

*The CAPITAL online training platform assists public and private stakeholders in developing their knowledge, skills, and abilities to build technical, business and policy making proficiency of ITS deployment while furthering their career paths*

# CAPITAL Consortium



***austriatech***



**TTS**  
**ITALIA** Italian ITS Association



**IRU**  
**PROJECTS**



**CERTH** THE CENTRE FOR RESEARCH & TECHNOLOGY 1991-03 RESEARCH & TECHNOLOGY THE CENTRE FOR

**CAPITAL**



## CAPITAL Training sessions

- ☐ October 2017 - Italy – Mediterranean cluster
- ☐ February 2018 Finland – Nordic cluster
- ☐ June 2018 Austria - Croatia– Central Eastern cluster
- ☐ October 2018 UK – West European cluster (Ireland + Iceland)
- ☐ December 2018 Greece – Balkans cluster + Turkey
- ☐ June 2019 The Netherlands – Central European cluster
- ☐ September 2019 Brussels – 3° Generation ITS Guidance – Train the trainee programme –All clusters

# The Difference

## Beyond Traffic Jam C-ITS urban pilots

- Project assigned by EC DG MOVE
- October 2016 – September 2018
- Building on recent experience with urban C-ITS pilots
- European C-ITS front runners
- Dissemination and communication across Europe

### Cities



### Technology & Service providers



### Research & Consultancy





| Pilot Site<br>C-ITS services                    | List of proposed C-ITS services to be piloted and evaluated in C-The Difference pilot project |         |
|---|---|---------|
|   | Bordeaux  | Helmond |
| Emergency vehicle approaching                   | X   | X       |
| Road works warning                              | X   | X       |
| Weather conditions                              | X   |         |
| In-vehicle speed limits                         | X   |         |
| Probe vehicle data                              | X   |         |
| Signal violation / Intersection Safety          |   | X       |
| Traffic signal priority for designated vehicles |   | X       |
| Green Light Optimal Speed Advisory (GLOSA)      | X   | X       |



Bordeaux Workshop 21 November 2017



**“Beyond Traffic Jam”: C-The-Difference Pilot  
From C-ITS- technology to mobility solutions**

Bordeaux, November 21<sup>st</sup> 2017

Venue : Bordeaux Métropole Hall

<http://c-thedifference.eu/>

Registration before





Helmond Workshop 26 October 2017

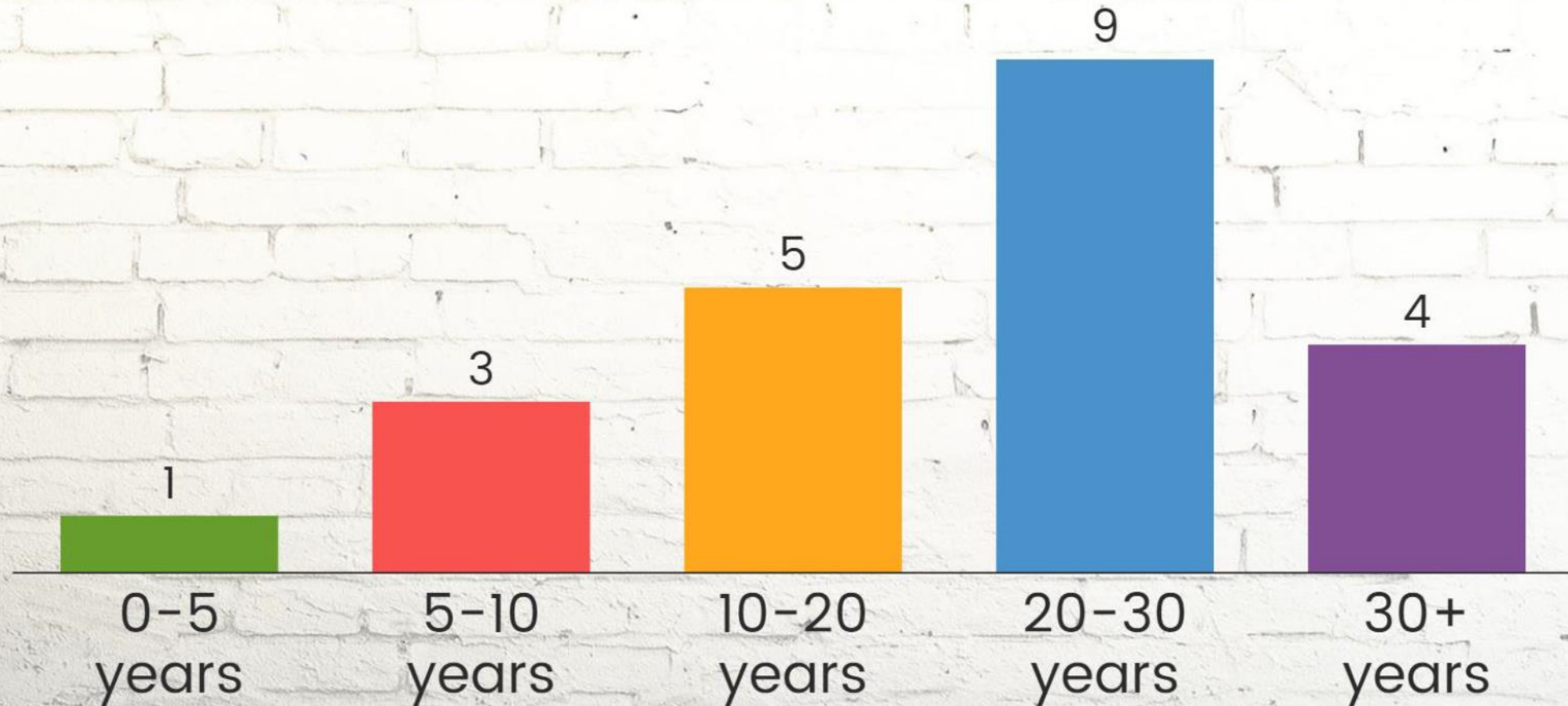


**CITY TWINNING WORKSHOP HELMOND PROGRAM**  
**From C-ITS- technology to mobility solutions;**  
C The Difference: the solution for city mobility goals?  
Helmond, October 26th 2017  
Venue: Hotel West-Ende  
<http://c-thedifference.eu/>  
Registration before October 1st 2017

Go to [www.menti.com](https://www.menti.com) and use the code **38 53 46**

 Mentimeter

**When do you think 10% of the vehicle fleet in your city will be automated vehicles?**



**Previous session**

[Go back to current](#)

 **22**



## CoEXist : the mission

Aim of the project: to assist cities to prepare for the transition phase :

Shared network of conventional vehicles & increasing number of automated vehicles

- AV-ready framework (policy): transition roadmap
- Traffic simulation tools

## Project Partners



University of Stuttgart  
Germany



### More Information

RUPPRECHT CONSULT - Forschung & Beratung GmbH

[www.rupprecht-consult.eu/coexist](http://www.rupprecht-consult.eu/coexist)  
Tel +49 221 60 60 55 0

Bernard Gyergyay,  
[b.gyergyay@rupprecht-consult.eu](mailto:b.gyergyay@rupprecht-consult.eu)

Siegfried Rupprecht,  
[s.rupprecht@rupprecht-consult.eu](mailto:s.rupprecht@rupprecht-consult.eu)

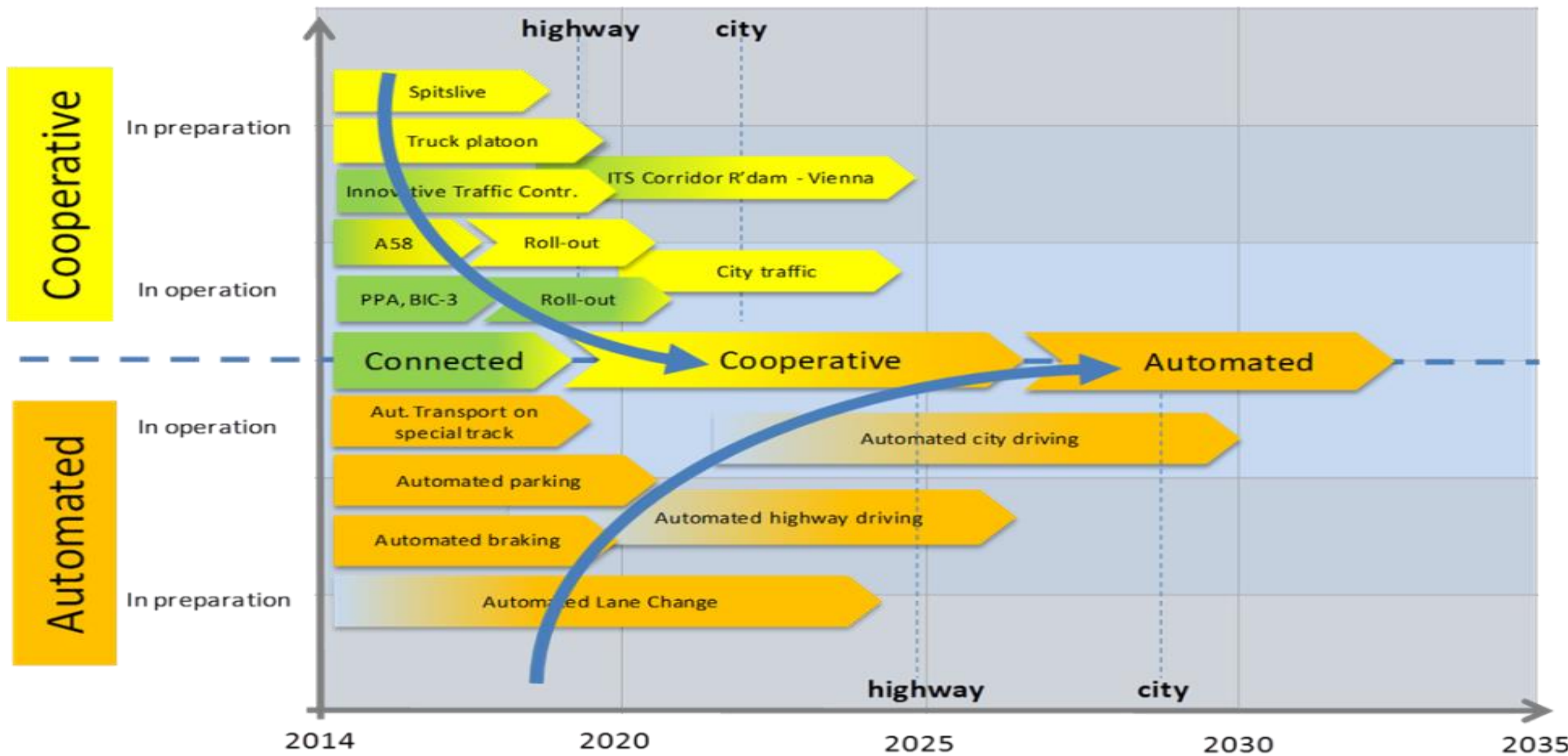


Funded by the Horizon 2020  
programme of the European  
Union

## CoEXist



"AV-ready" transport models and  
road infrastructure for the  
coexistence of automated and  
conventional vehicles



# The real challenge for ITS ...





## From ITS Technology to mobility solutions our (very humble) view

- Learning by doing (it is now officially allowed) ...
- Commitment of local stakeholders is key for success
- Policy base and political support is important
- ITS should give answers to real local problems
- Not “one size fits all “
- Think global, but act local
- Seeing is believing

**For more information  
please contact**

[www.drivenbyhelmond.nl](http://www.drivenbyhelmond.nl)

[g.blom@helmond.nl](mailto:g.blom@helmond.nl)

Mobile: + 31 6 53 21 48 51

