Role of the local government

Helmond Living Lab - from technology to mobility solutions

Gert Blom
Strategic Advisor Mobility - city of Helmond

Helmond, 24 August 2018
Visit Brazilian Delegation on Traffic Management & Safety

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Gemeente Helmond

The challenge for local authorities …

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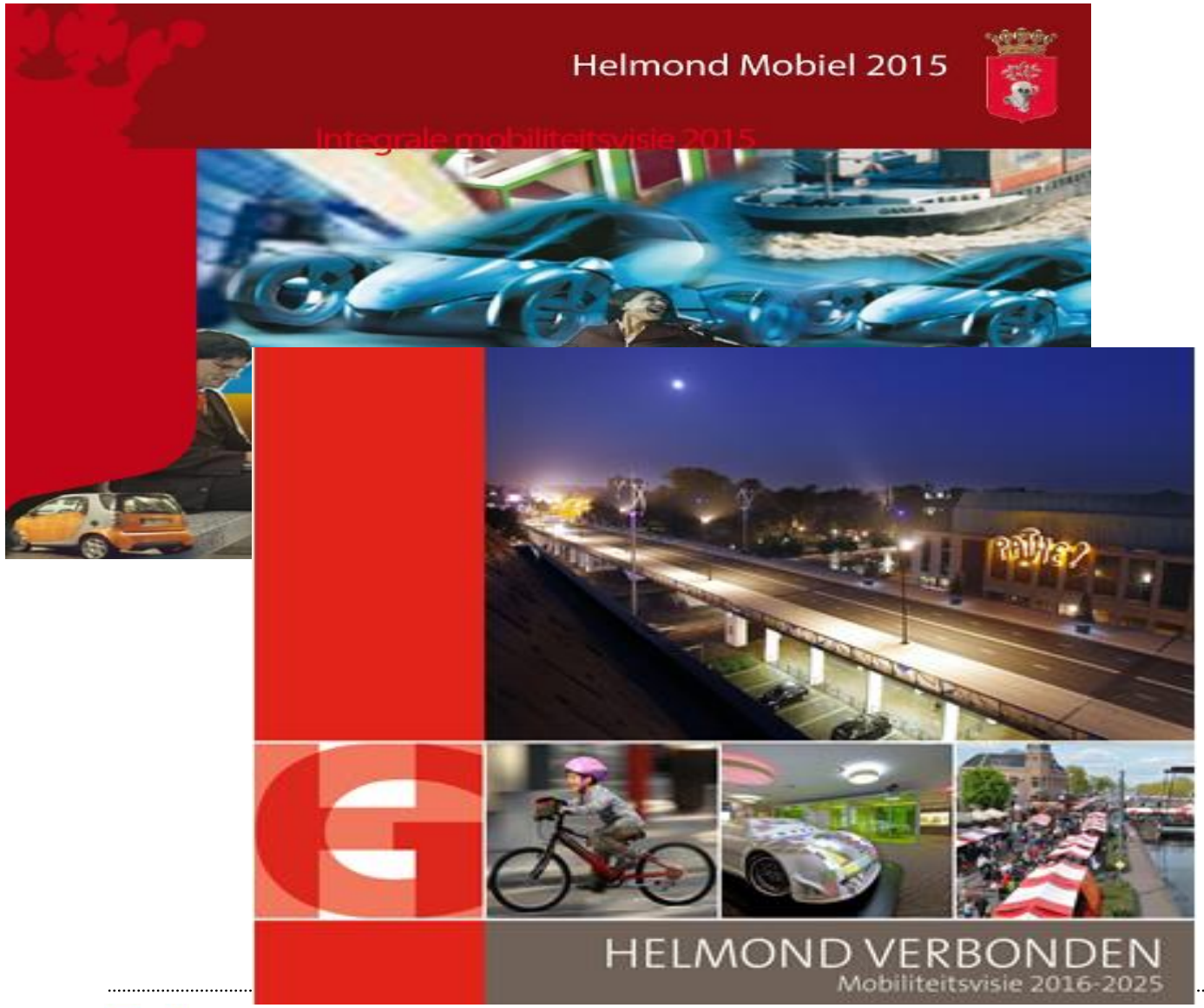
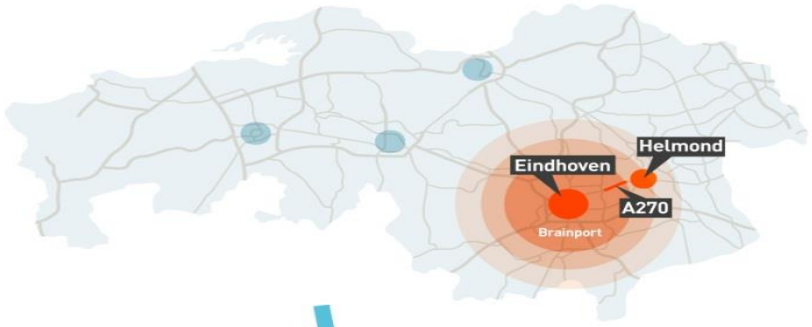
Mobility policy Helmond

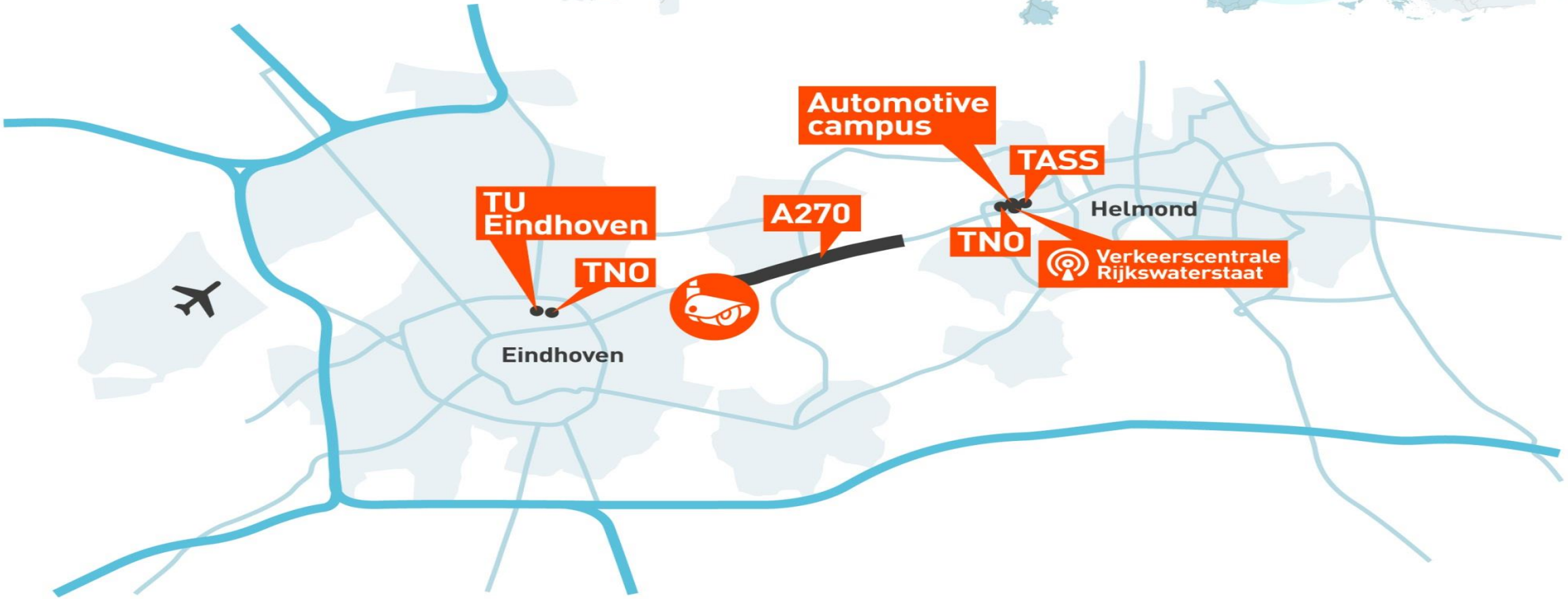


Optimizing the use of existing infrastructure

Urban traffic solutions technology driven: ITS

Active support of smart mobility pilots and showcases





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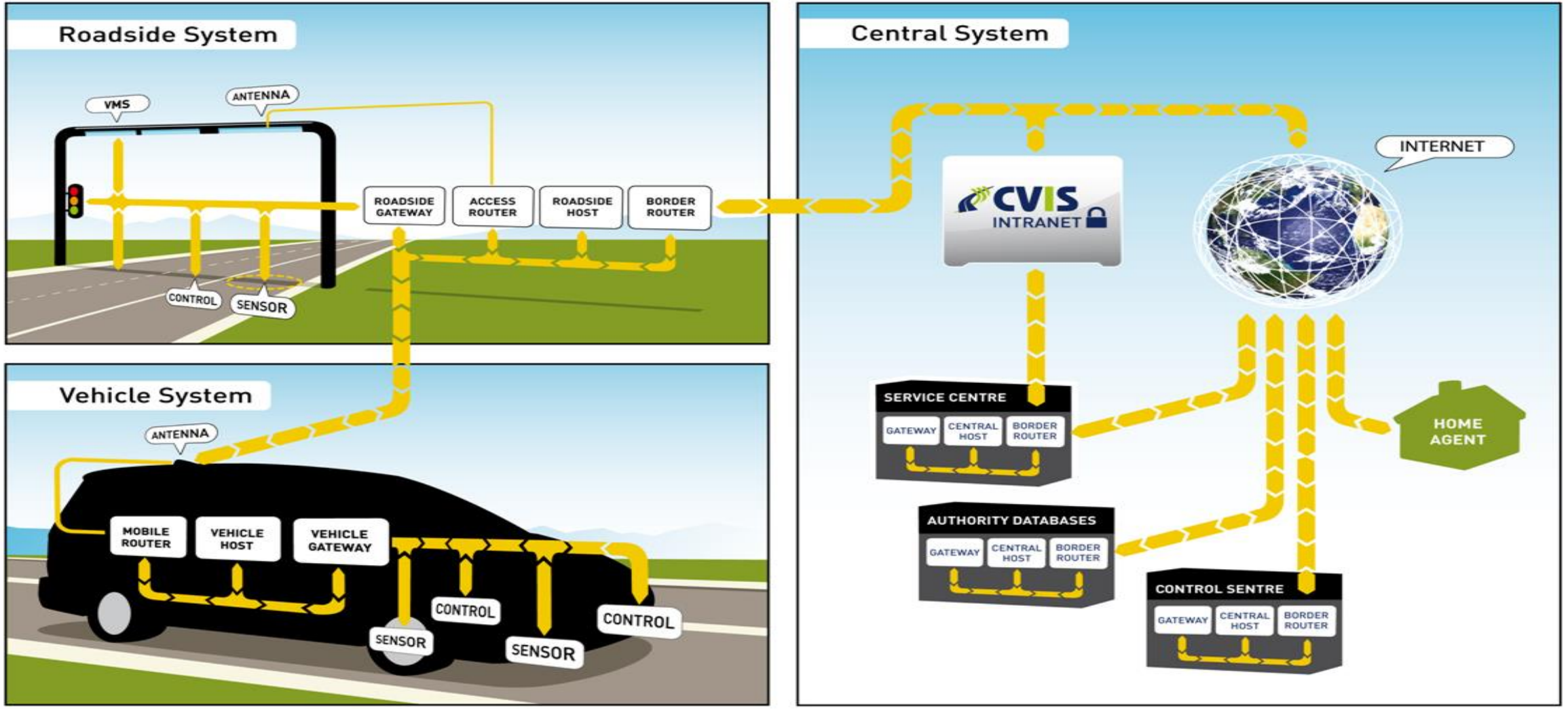
Focus on Cooperative Systems (C-ITS)

Vehicle-2-Vehicle Vehicle-2-Infrastructure



Helmond A270 Living Lab ITS

Grand Cooperative Driving Challenge

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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_2 emissions (g/km)	644	562	-13%
NO_x 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

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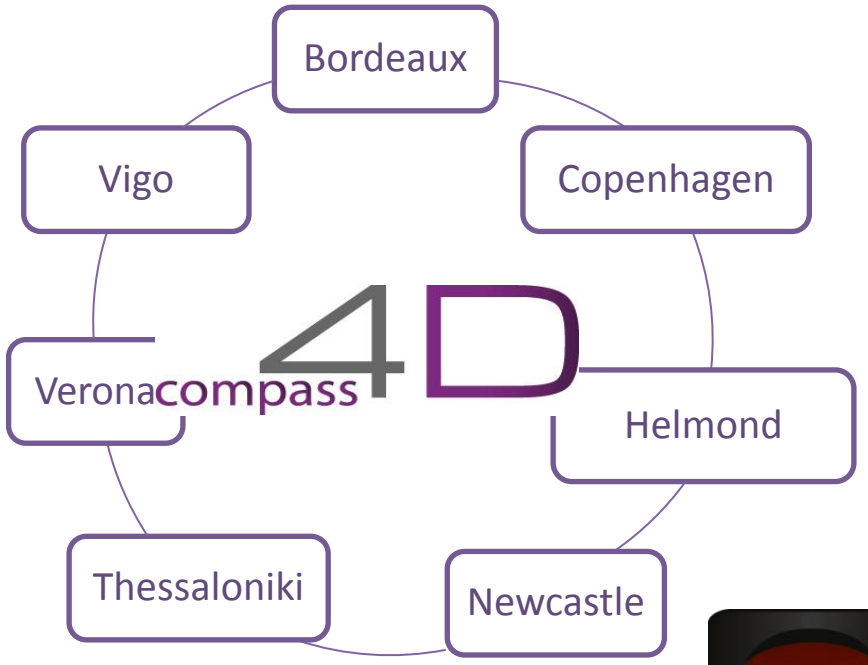
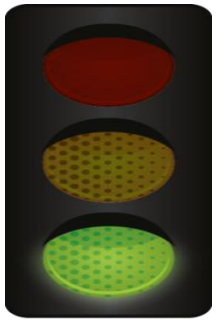
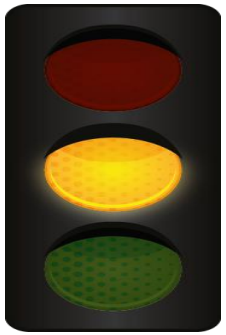
Involving other potential users

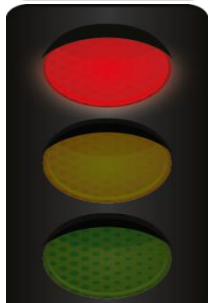
Compass4D -overview



Compass4D pilot sites







Services:

Energy Efficient Intersection

Road Hazard Warning

Red Light Violation Warning

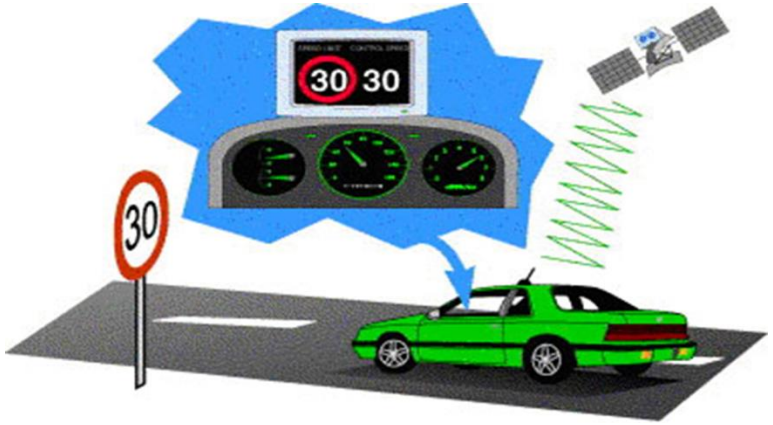
> 600 vehicles, > 1200 drivers

Vehicles / pilot site	Bordeaux	Copenhagen	Helmond	Newcastle	Thessaloniki	Verona	Vigo	Total
Trucks	40		7	5 vans				**52**
Cars	34		25 electric	5 electric	7	10	10	**91**
Buses		100	5			10	20	**135**
Emergency vehicles	6		5				2	**13**
Taxis					35		8	**43**
Total vehicles	**80**	**100**	**42**	**10**	**42**	**20**	**40**	**334**

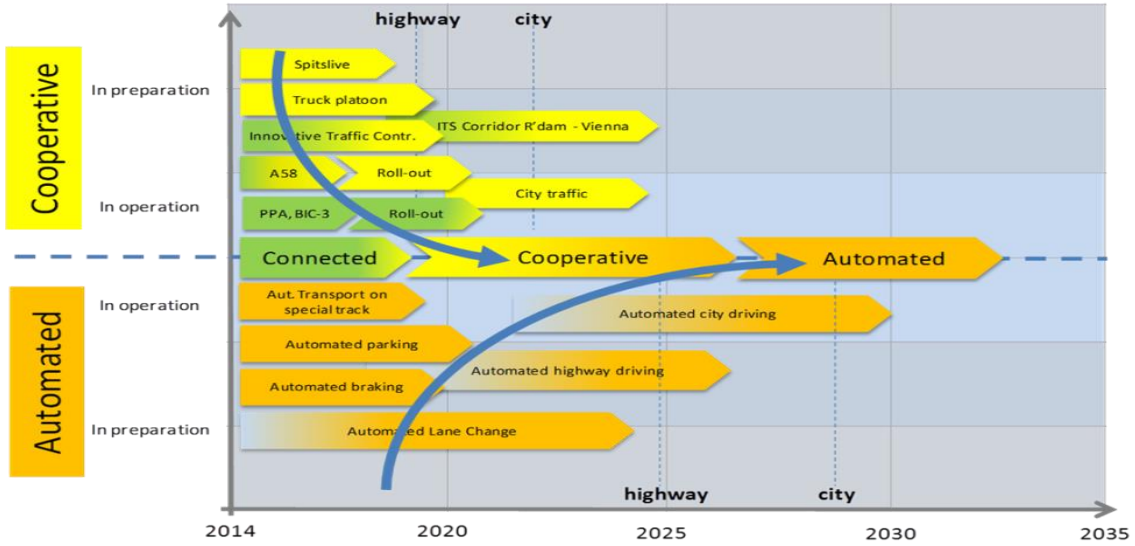
From C-ITS- technology to mobility solutions the deployment challenge

- ✔ Technology
- ✔ Policy
- ✘ **Business-models: economies of scale**
- ✘ General Acceptance
- ✘ Proof of Evidence
- ✘ Cyber Security

Next ITS steps for Helmond …



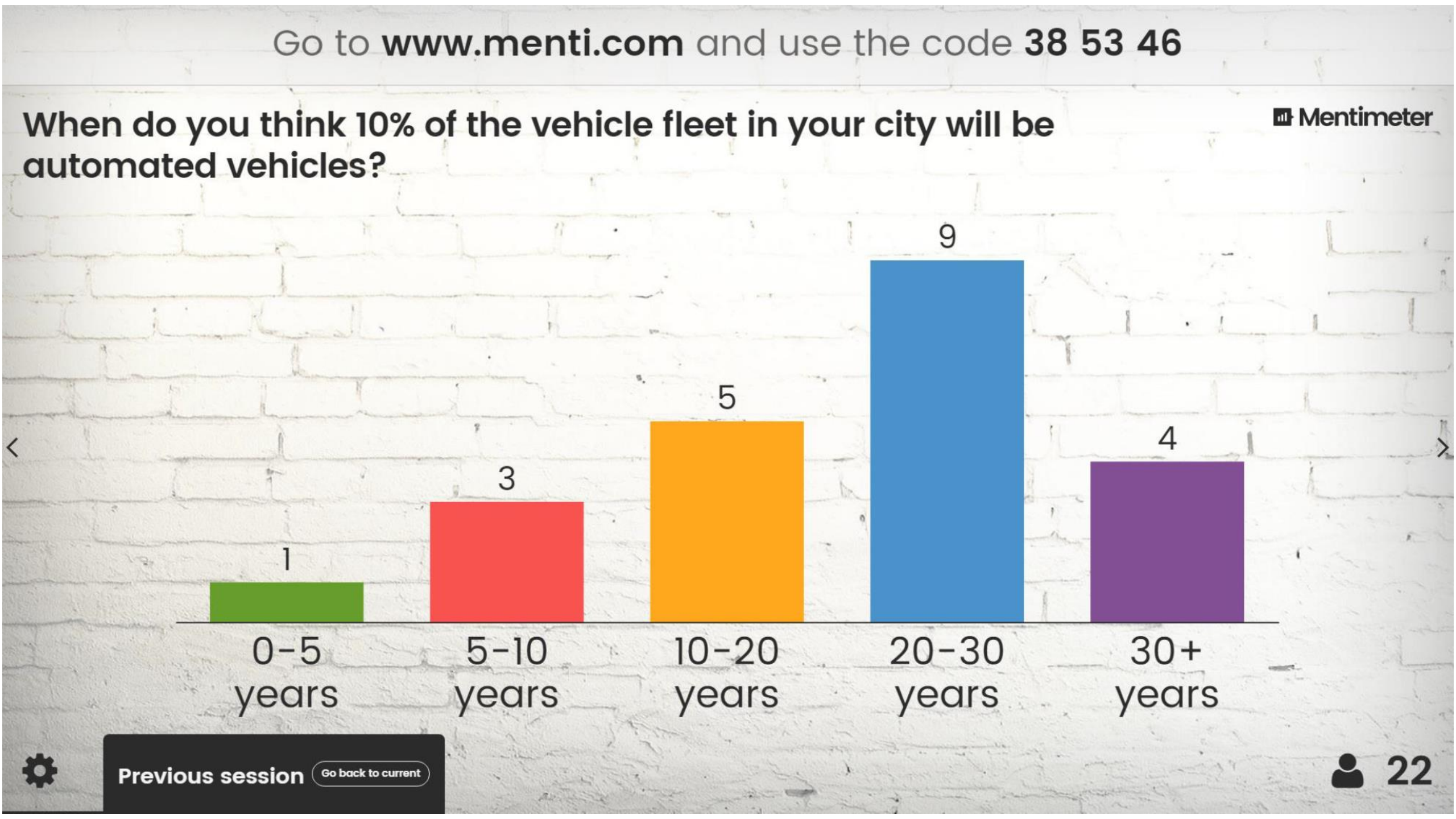
- ITS for Road Safety : ISA Initiative
- Contribute to large scale deployment of C-ITS
  - EU- Projects ***Compass4D***, ***C-Mobile, C-TheDifference, CAPITAL***
- Prepare for introduction and transition towards automated vehicles
  - EU- Projects ***MAVEN, AUTOPILOT, CoEXist, FABULOS, SECREDAS***



Go to **www.menti.com** and use the code **38 53 46**

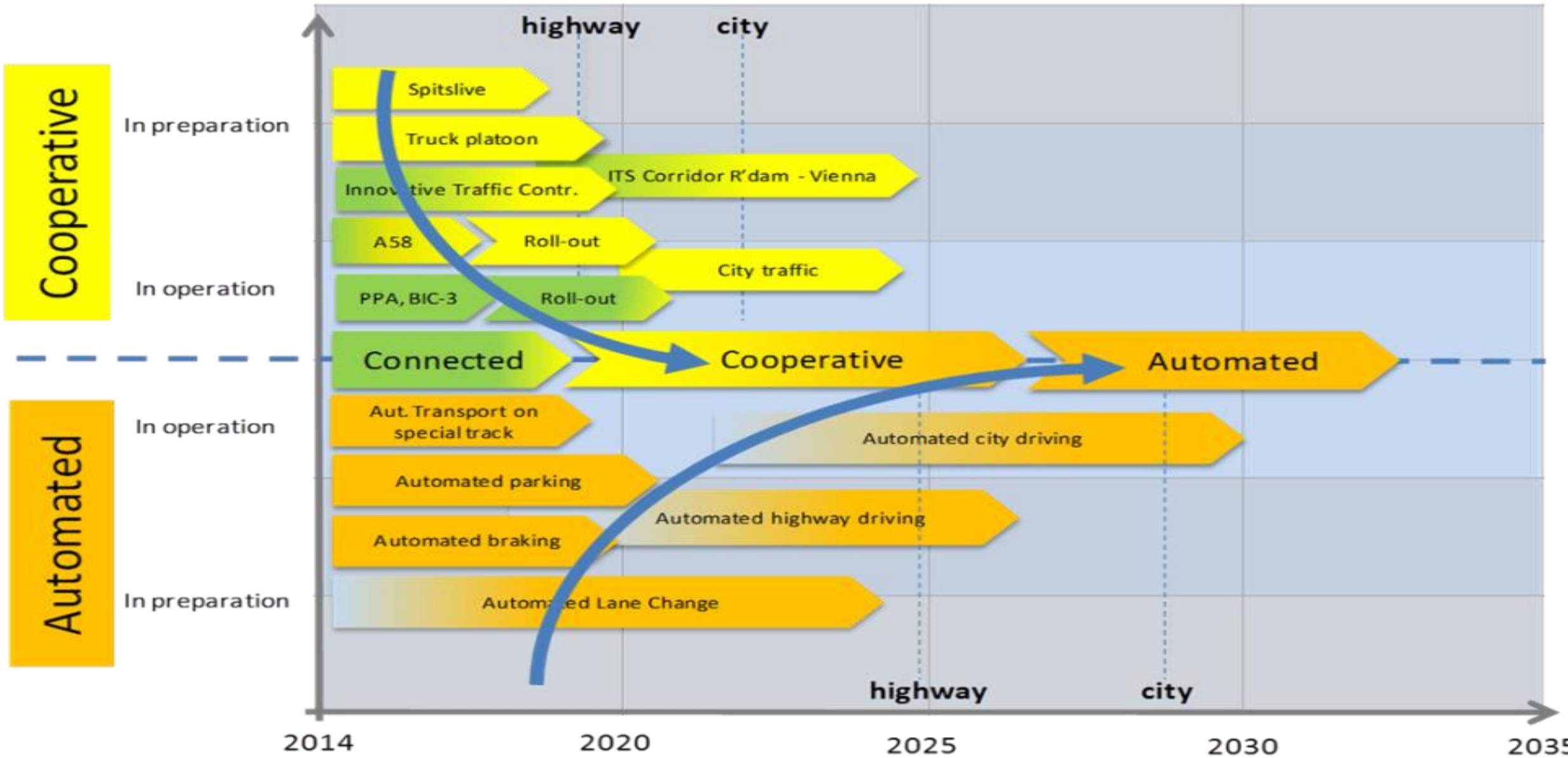
When do you think 10% of the vehicle fleet in your city will be automated vehicles?

Mentimeter



Previous session Go back to current

22



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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)
- Traffic simulation tools

Project Partners

RUPPRECHT CONSULT Forschung & Beratung GmbH
INSTITUT VEDECOM DU VÉHICULE DÉCARBONÉ ET COMMUNICANT ET DE SA MOBILITÉ
PTV GROUP the mind of movement
University of Stuttgart Germany
iD for CAR
vti
GROUPE RENAULT
tass international
UNIVERSITÀ DEGLI STUDI FIRENZE
TRL
POLIS
FEHRL
City of Gothenburg
STUTTGART
MILTON KEYNES COUNCIL
Gemeente Helmond

More Information

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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

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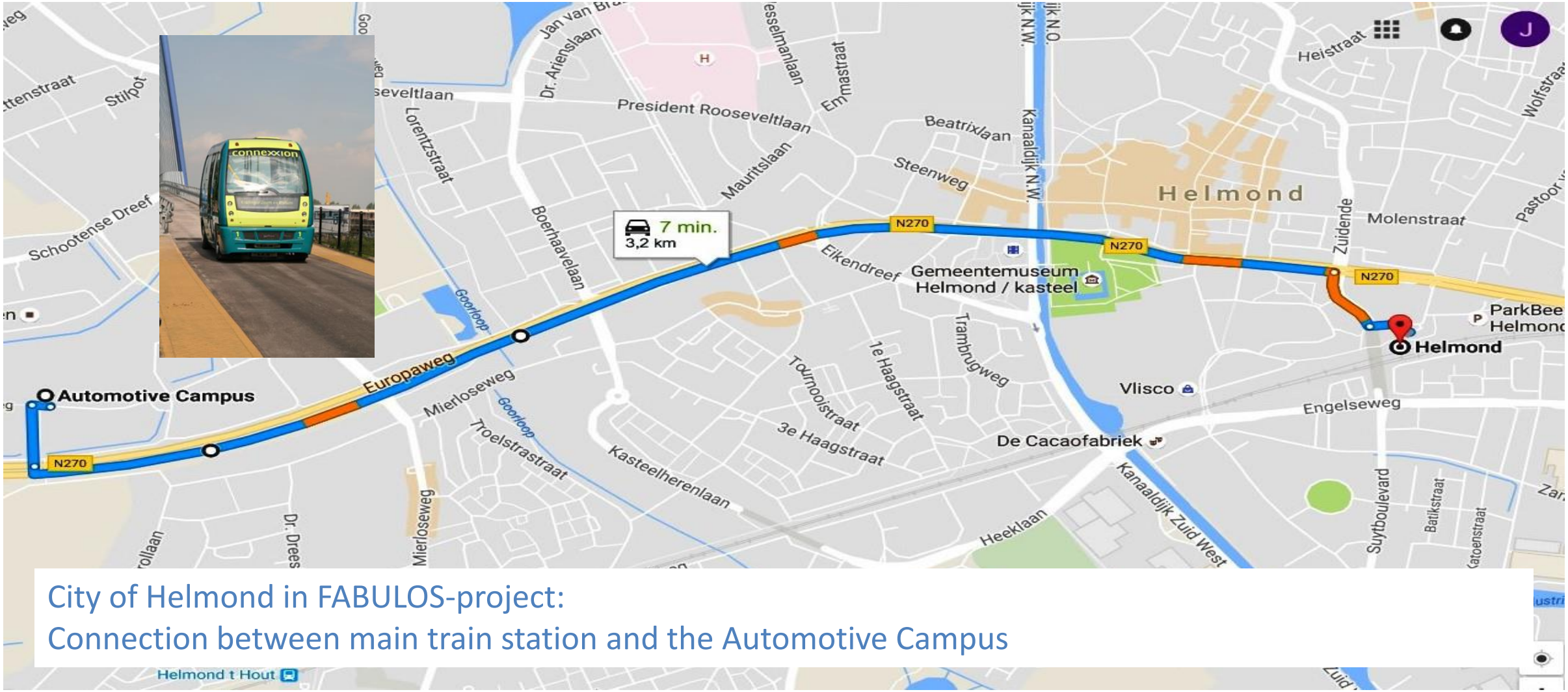
FABULOS

Automated shuttles for
Last-Mile, Flexible, On-Demand Public Transport

This project has received funding from the European Union's Horizon. 2020 research and innovation programme under grant agreement No. 780371.

MAKING AUTOMATION WORK FOR (small) CITIES



City of Helmond in FABULOS-project:
Connection between main train station and the Automotive Campus

From ITS technology to mobility solutions and Vision Zero our (very humble) view

- Vision Zero needs smart vehicles AND smart infrastructure AND smart people
- Learning by doing and doing by learning , small steps can make the difference
- Commitment of local stakeholders is key for success
- Policy base and political support is important
- ITS should give answers to real local problems
- Think global, but act local
- Seeing is believing

ITS EUROPEAN CONGRESS 3-6 JUNE 2019

13th ITS EUROPEAN CONGRESS

FULFILLING ITS PROMISES

Brainport, the Netherlands | 3-6 June 2019

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TOPLINE
TNO 1

Disclaimer: ITS just a tool …

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FULFILLING ITS PROMISES

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