Op weg naar automatisch rijden
Kunnen de steden zelf nog wel sturen ?

Frank van den Bosch – senior traffic engineer
Gert Blom – innovation manager mobility




Nationaal Verkeerskunde Congres 2018

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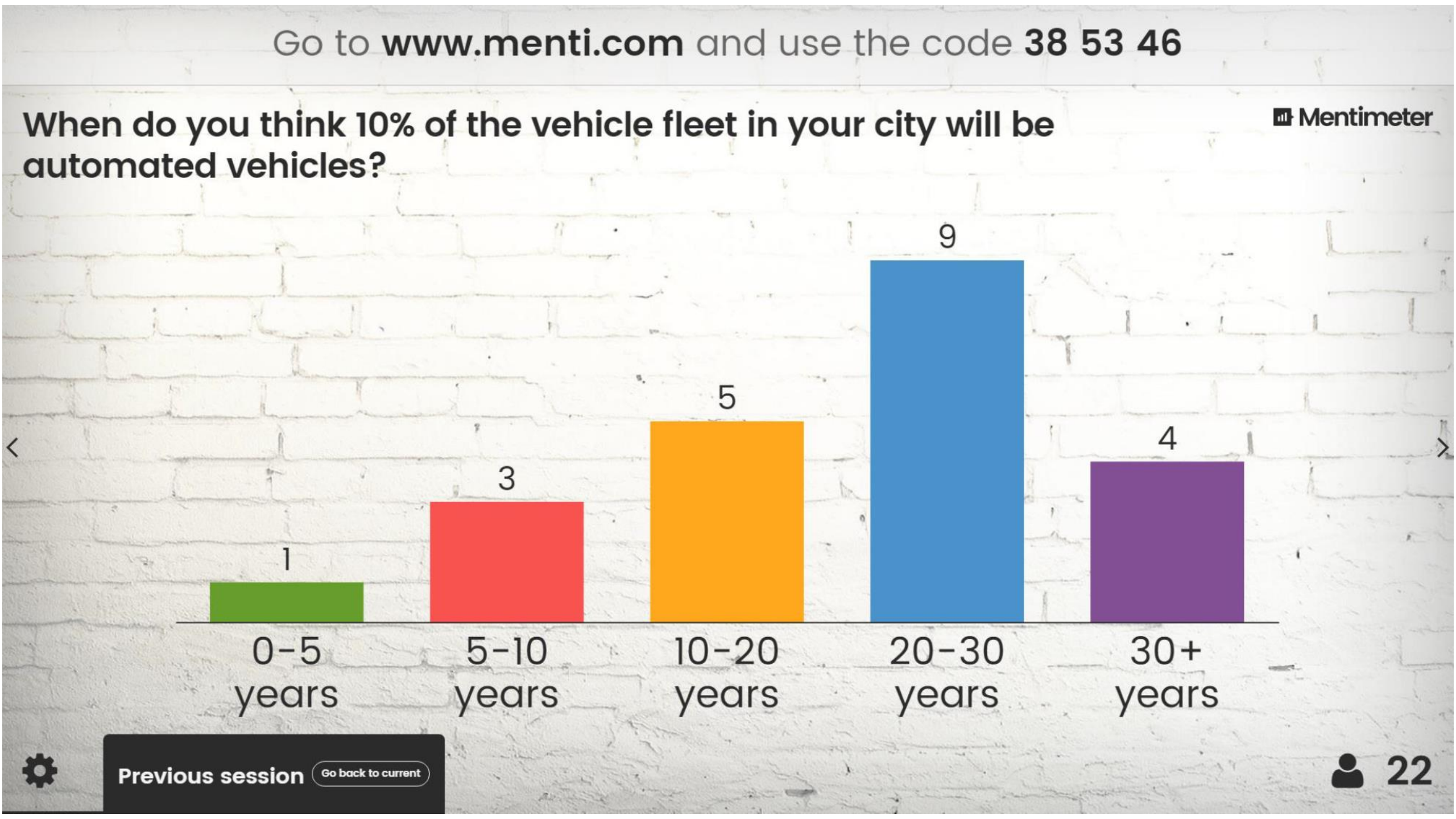
Go to **www.menti.com** and use the code **38 53 46**

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

Mentimeter



Previous session Go back to current

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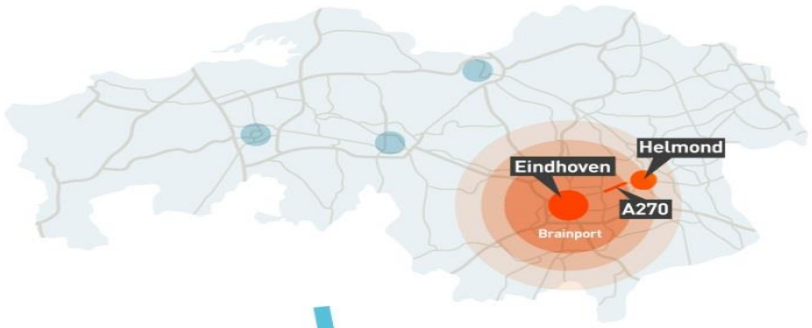

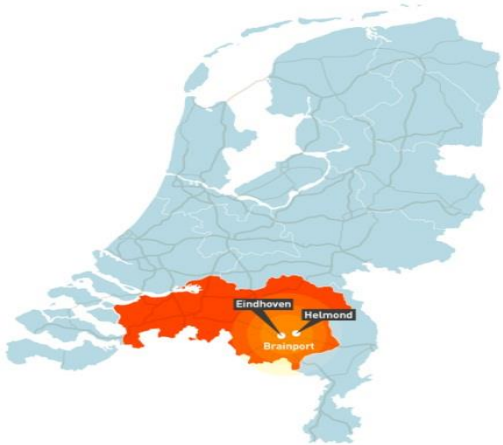

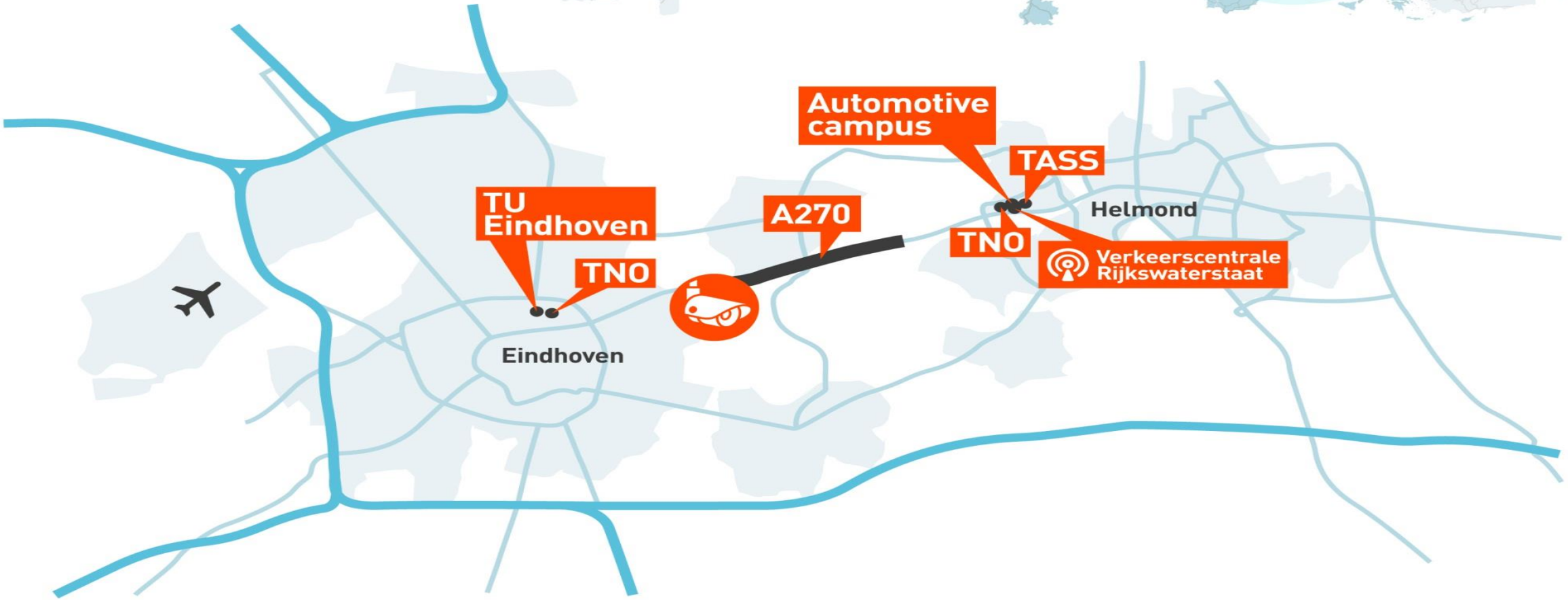

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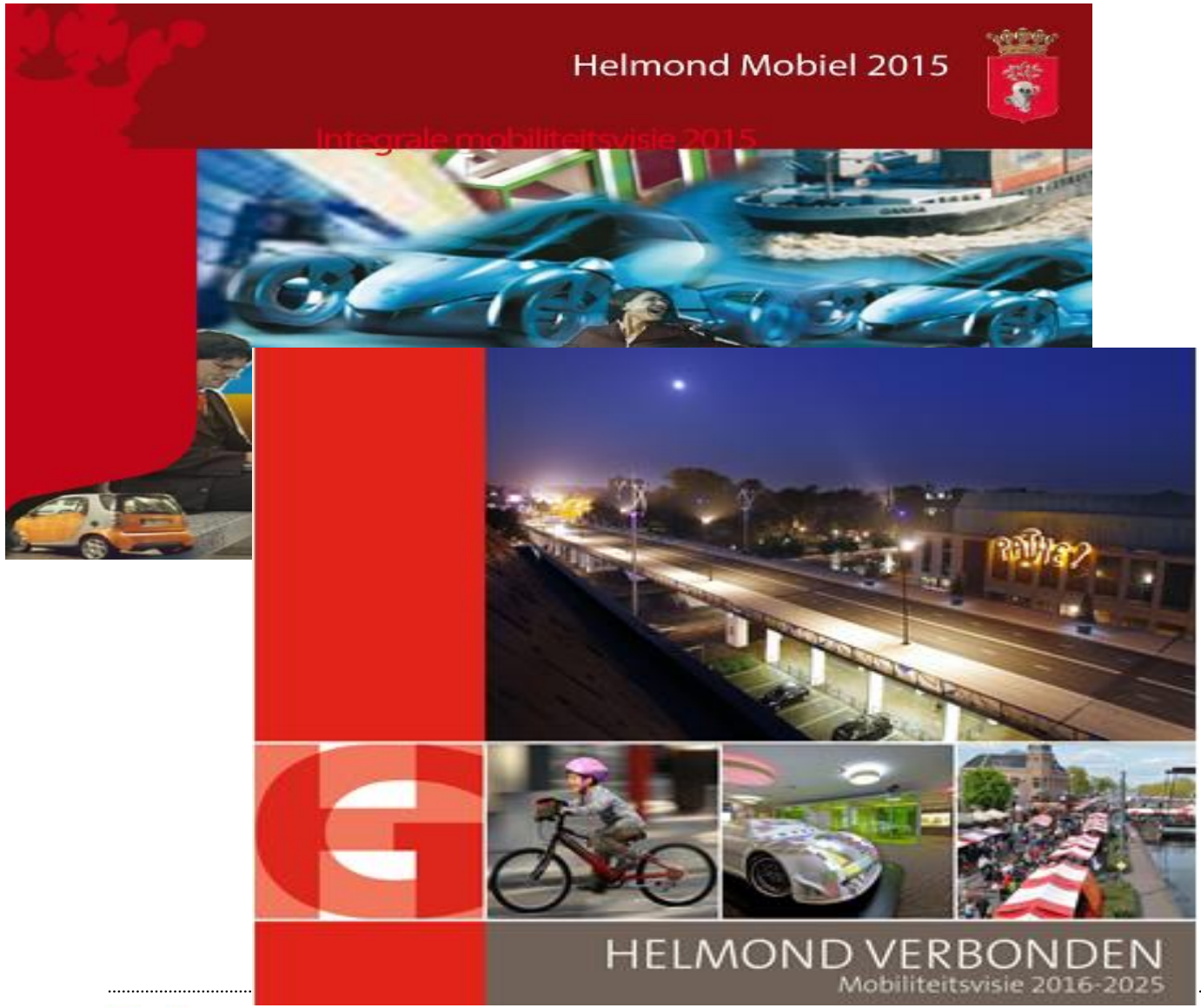
Mobility policy Helmond



Optimizing the use of existing infrastructure

Urban traffic solutions technology driven: ITS

Active support of smart mobility pilots and showcases

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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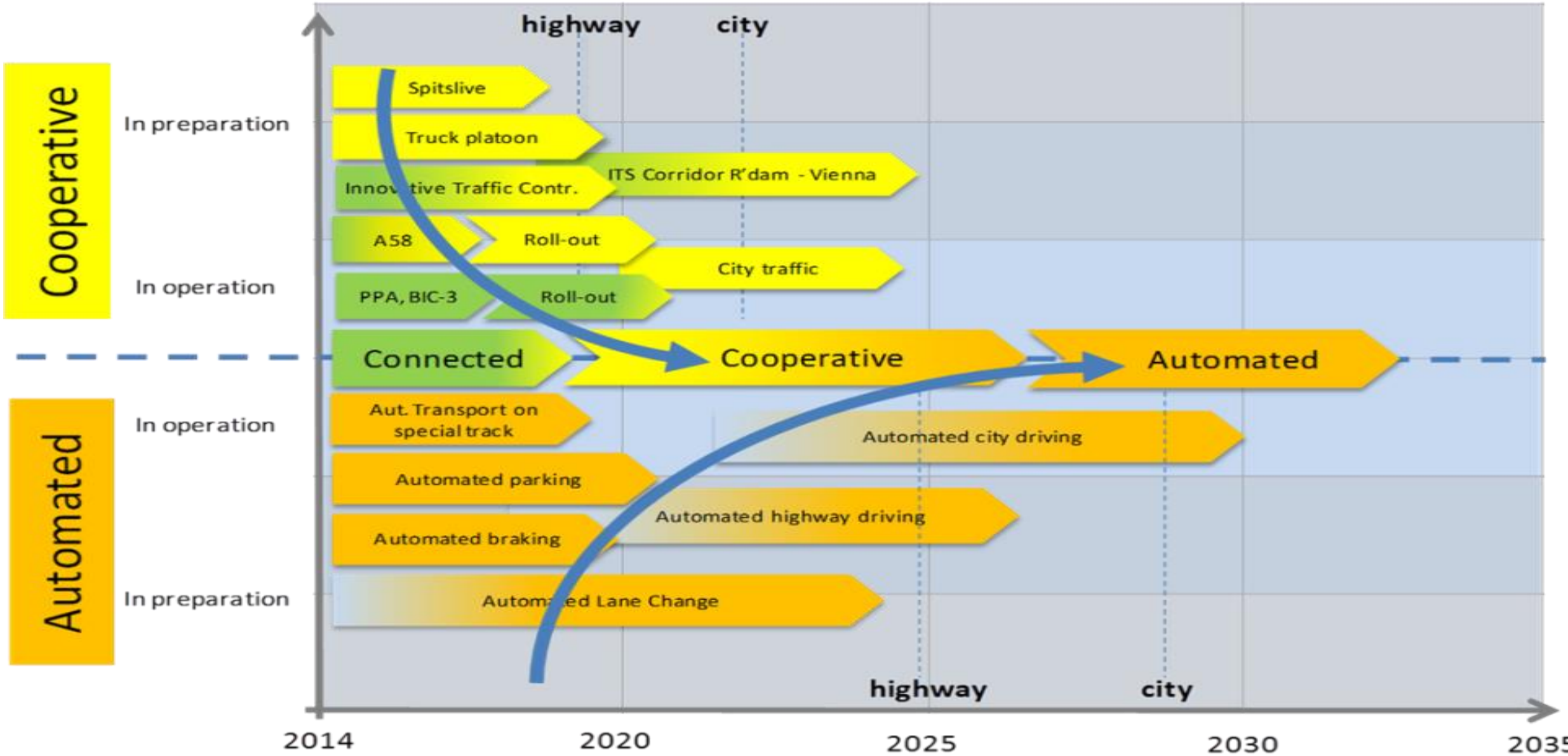

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CoEXist : the mission

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

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

More Information

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Managing Automated Vehicles Enhances Network

MAVEN

The MAVEN project aims to provide solutions for managing automated vehicles in an urban environment (with signalized intersections and mixed traffic).

This will be achieved through platoon organization and negotiation algorithms, which extend and connect vehicle systems for trajectory and manoeuvre planning and infrastructure systems for adaptive traffic light optimization.

Consortium Partners:

TomTom, MAP Traffic Management, POLIS, Royal Borough of Greenwich, Hyundai Motor Group, DLR, dynniq, Gemeente Helmond, CTU Czech Technical University in Prague

More information? www.maven-its.eu

Objectives

Develop, test, demonstrate and evaluate the MAVEN system for signalized intersections and signalized corridors, including local level routing strategies, traffic light optimization and trajectory planning, by means of a real-world prototype vehicle and traffic simulation studies.

Contribute to the development of C-ITS communication standards, in particular message sets for vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) interactions to support vehicle platooning and negotiation and scheduling algorithms.

Develop a generic multi-level system for the guidance of highly automated vehicles, applied to dynamic platoons at signalized intersections and signalized corridors.

Develop and integrate ADAS techniques to prevent and/or mitigate dangerous situations taking into account vulnerable Road Users (e.g. pedestrians and/or cyclists).

Produce a roadmap for the introduction of future traffic management systems.

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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13th ITS EUROPEAN CONGRESS

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