

From ITS technology to mobility solutions

Helmond Living Lab

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Helmond, 8 November 2017
iRAP Conference



Mobility policy Helmond

Helmond Mobiel 2015



Integrale mobiliteitsvisie 2015

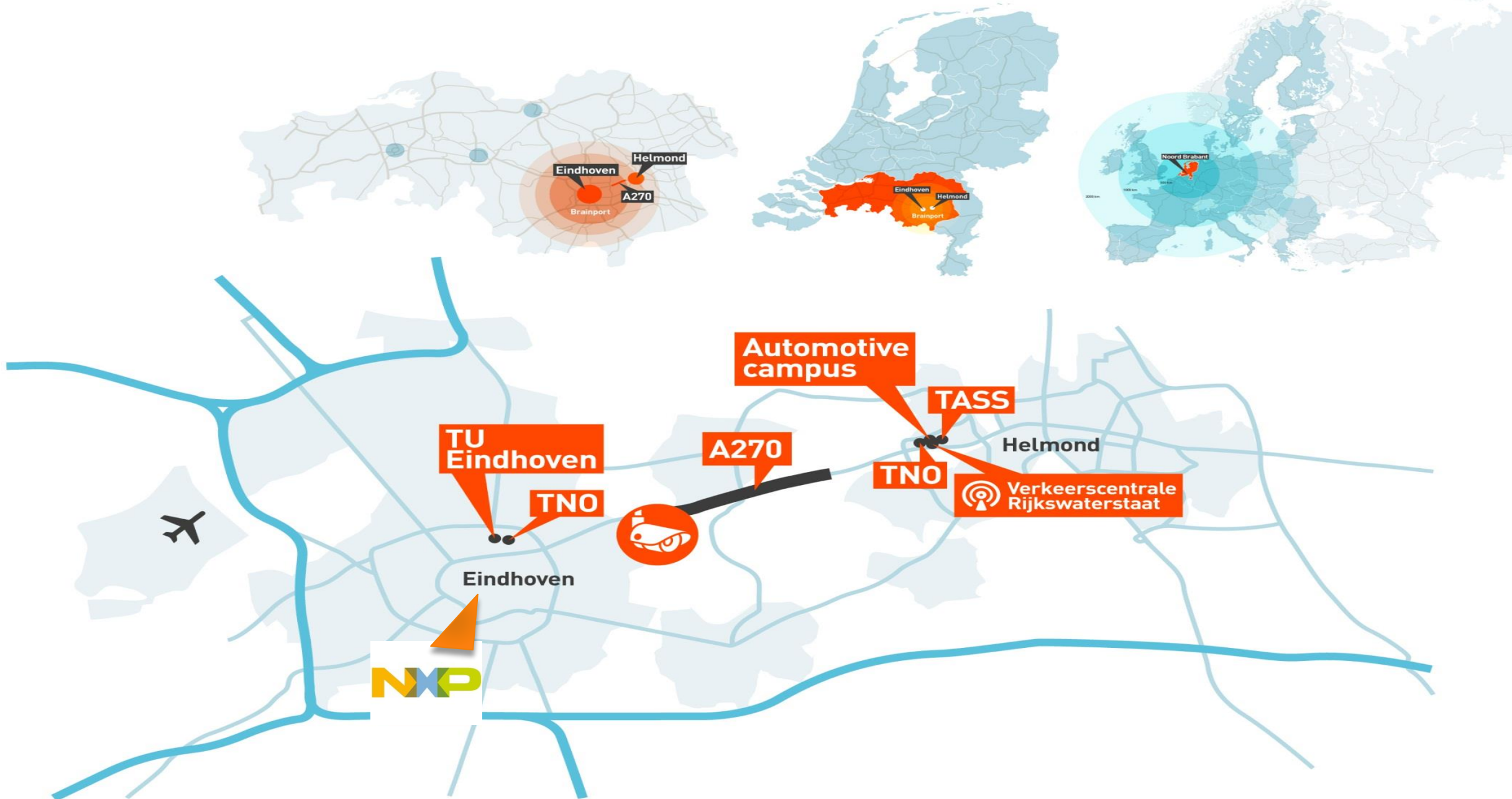


HELMOND VERBONDEN
Mobiliteitsvisie 2016-2025

Optimizing the use
of existing infrastructure

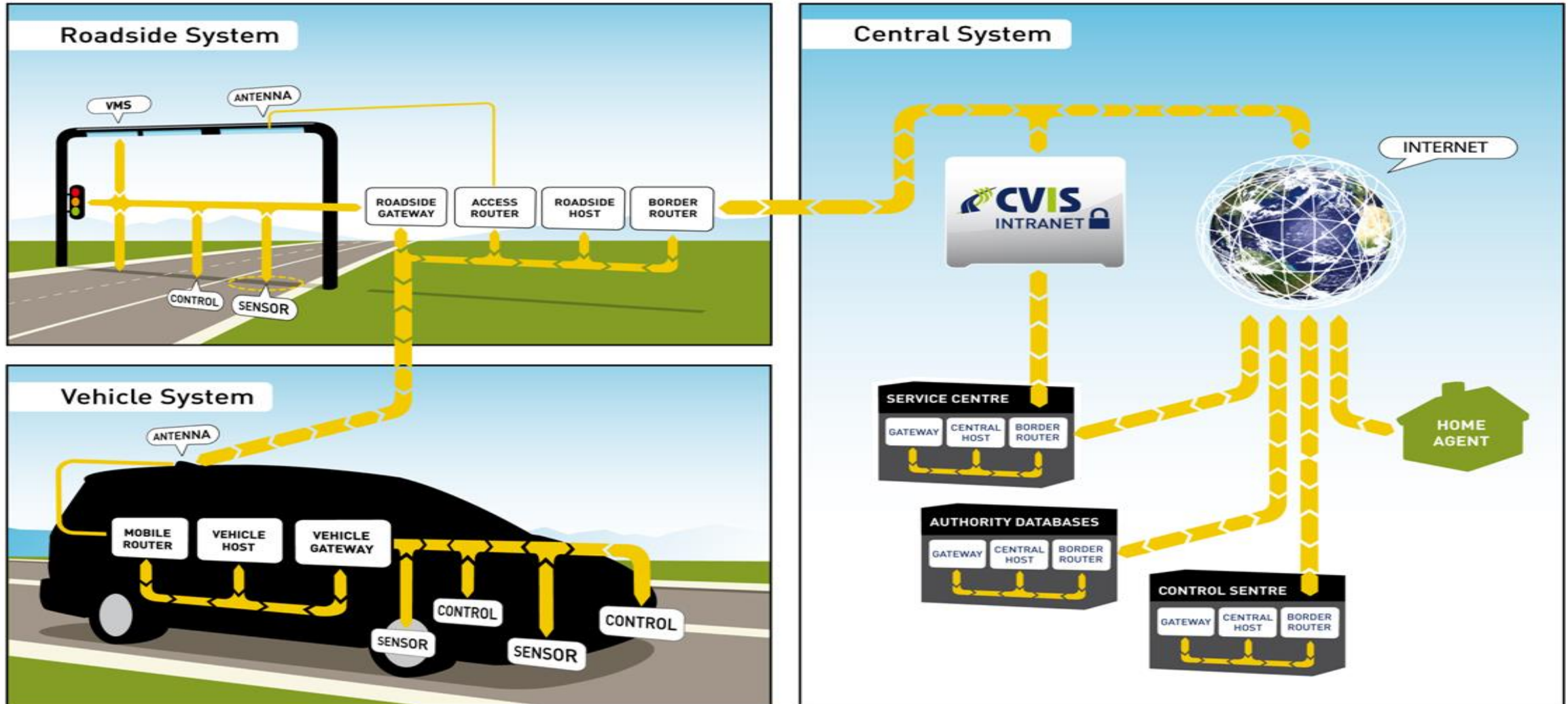
Urban traffic solutions
technology driven: ITS

Active support of smart
mobility pilots and
showcases



Cooperative systems (C-ITS)

Vehicle-2-Vehicle Vehicle-2-Infrastructure



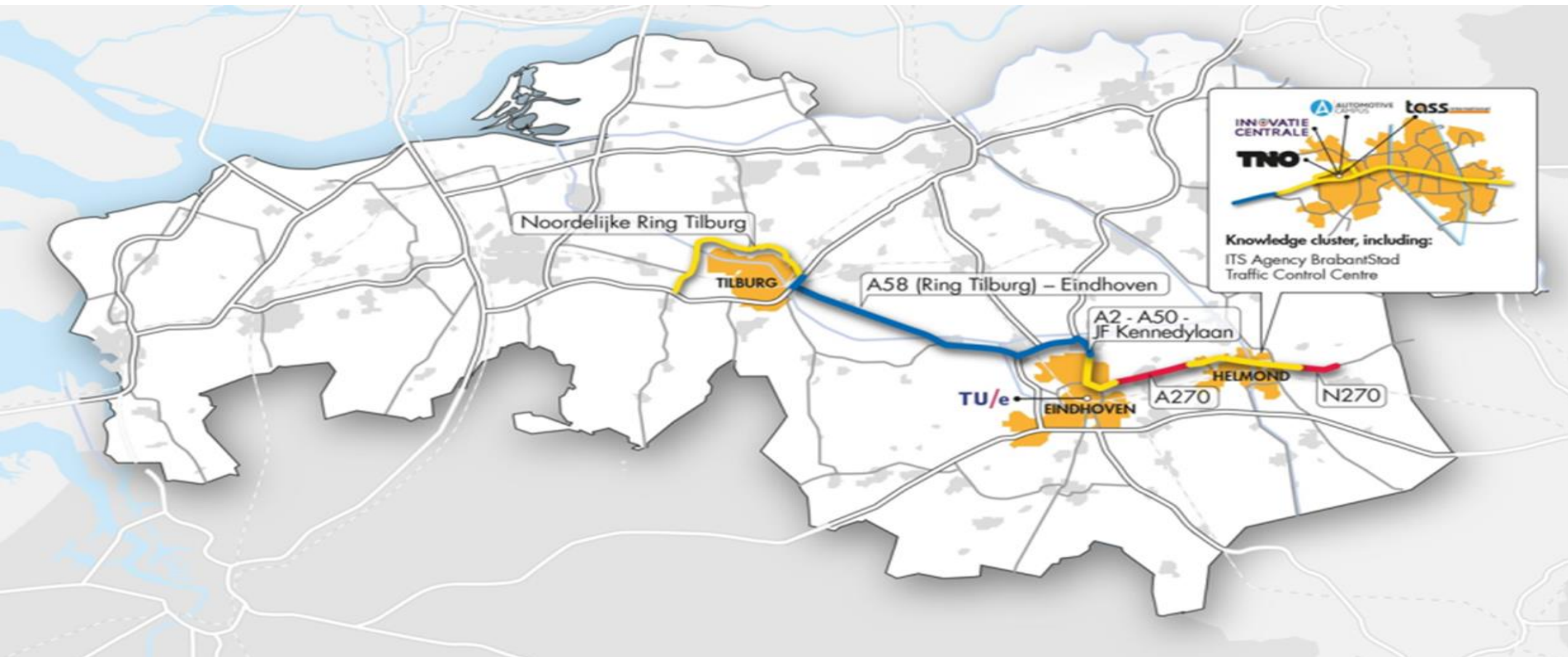
Helmond A270 Living Lab ITS



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

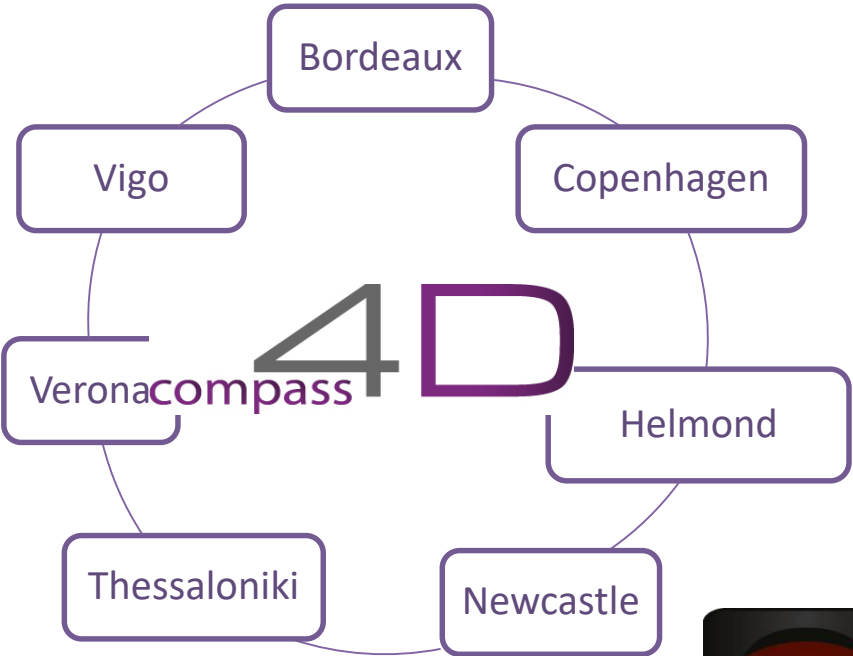
Period	Number of crossings	Number of stops	% of stops
Baseline	408	52	13%
Pilot	343	20	6%

Number of crossings and stops in both periods

	Baseline	Pilot	Rate of change
CO 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

Compass4D -overview



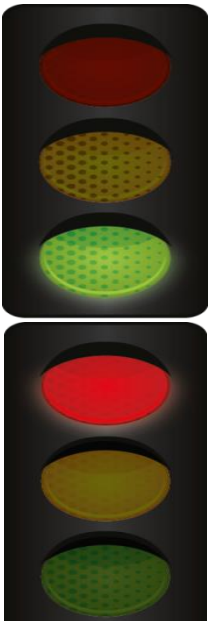
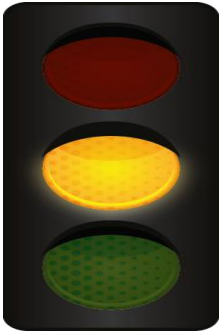
Compass4D pilot sites

> 600 vehicles, > 1200 drivers

Vehicles / pilot site	Bordeaux	Copenhagen	Helmond	Newcastle	Thessaloniki	Verona	Vigo	Total
Trucks	40		7	5				52
Cars	34		25	5	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

Services:

- Energy Efficient Intersection
- Road Hazard Warning
- Red Light Violation Warning



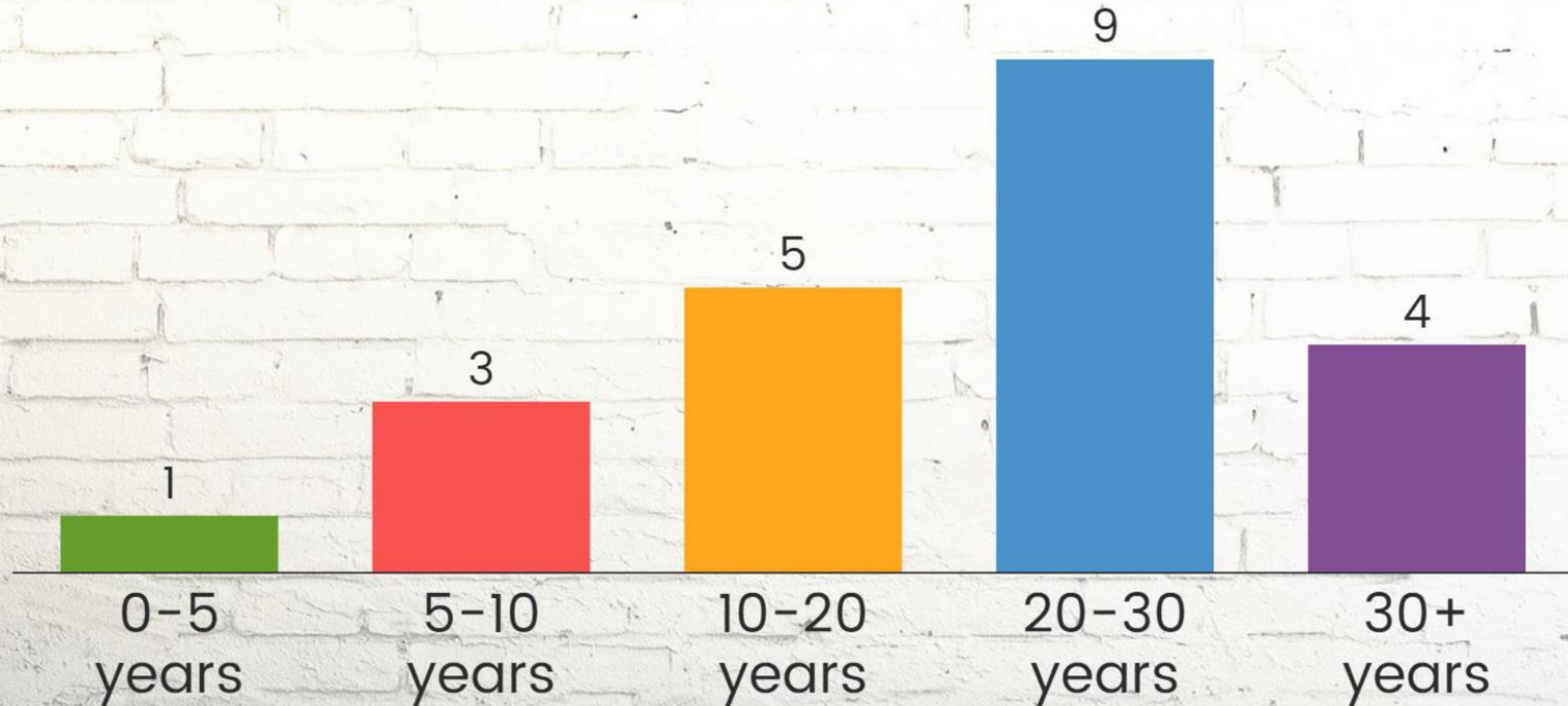
The real challenge for ITS ...



Go to 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?

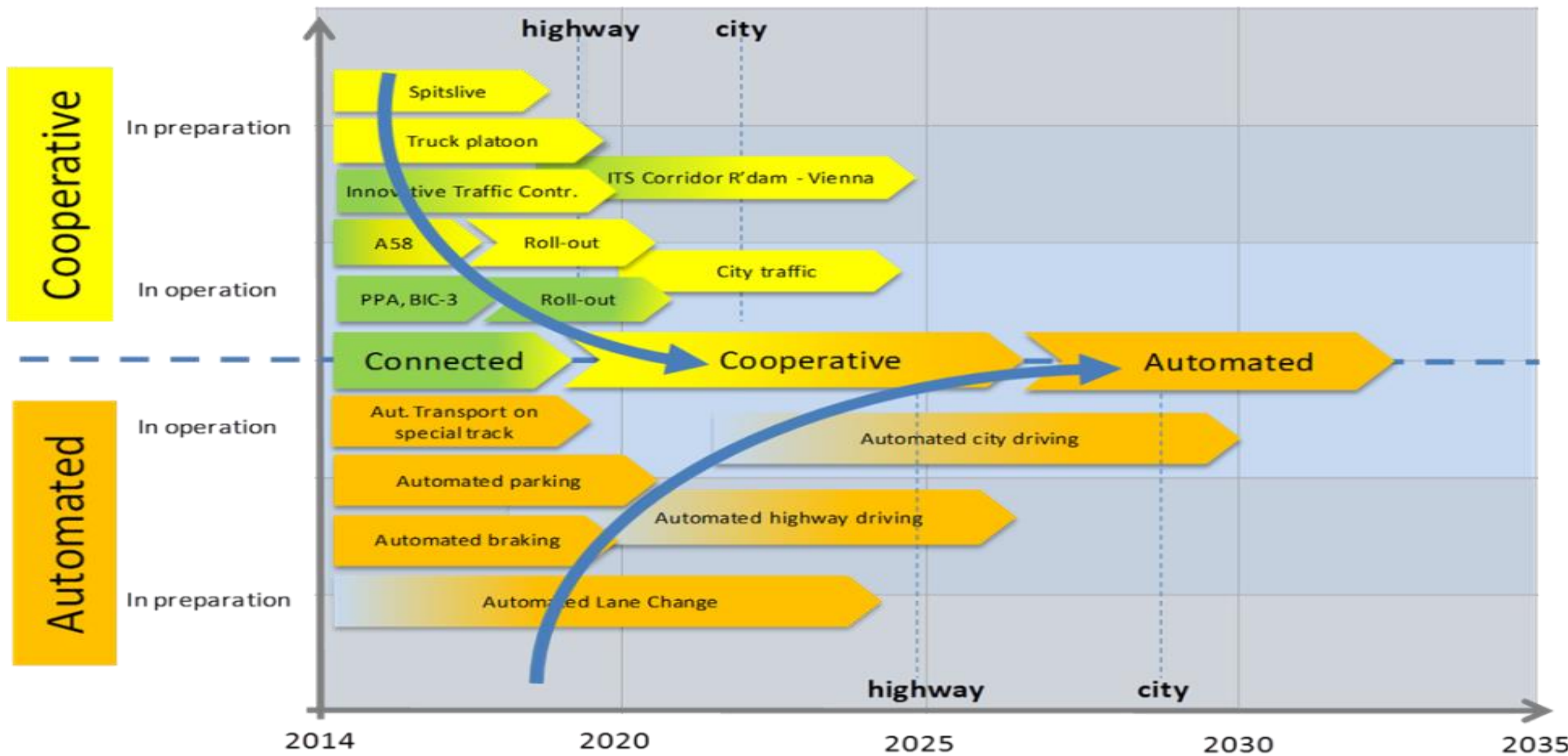


Previous session

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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



University of Stuttgart
Germany



More Information

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CoEXist



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

How to get away from the dentist ?



Needed but painful ...



Towards more intelligent speed bumps ...



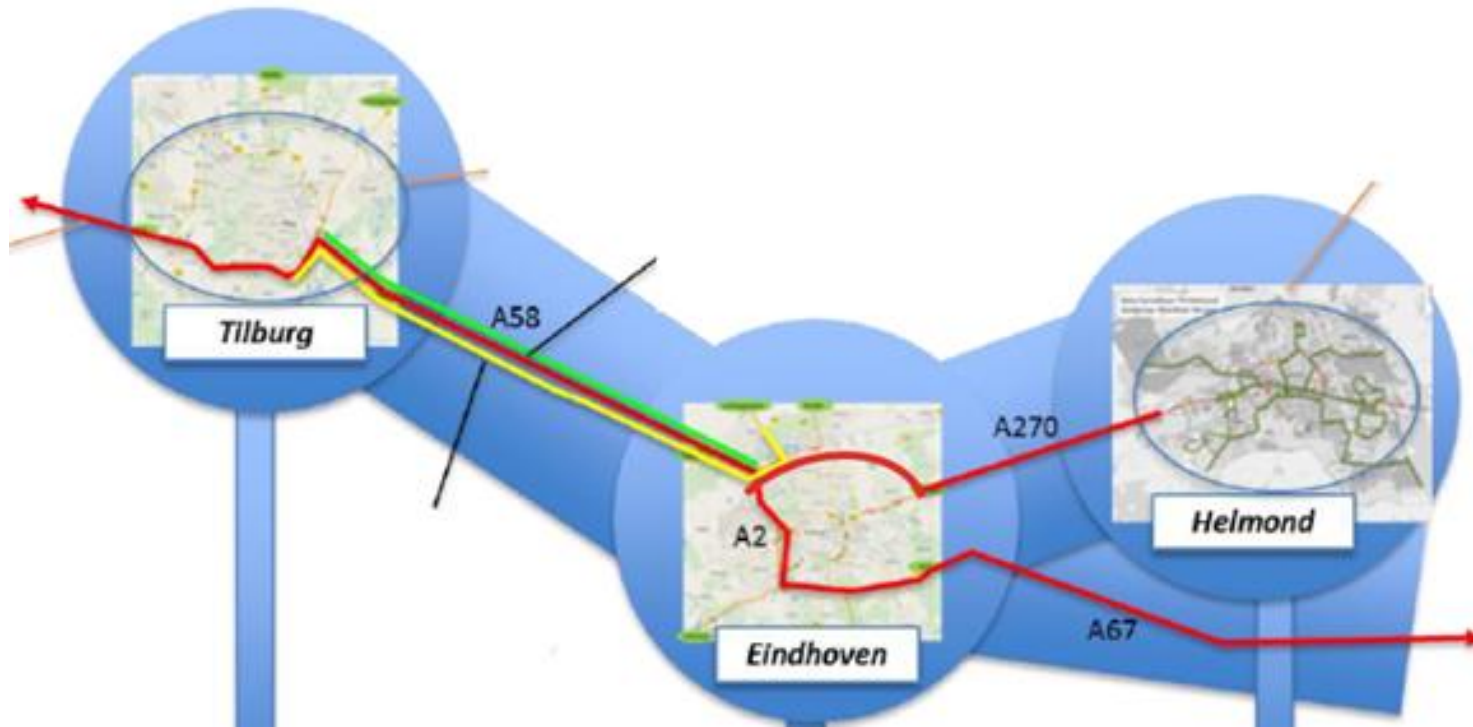
Quick win: example ISA project



Provincie Noord-Brabant



Quick wins: example ISA project



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

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