

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

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Official delegation of Freistaat Sachsen



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

Helmond Living Lab ITS



Grand Cooperative Driving Challenge



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

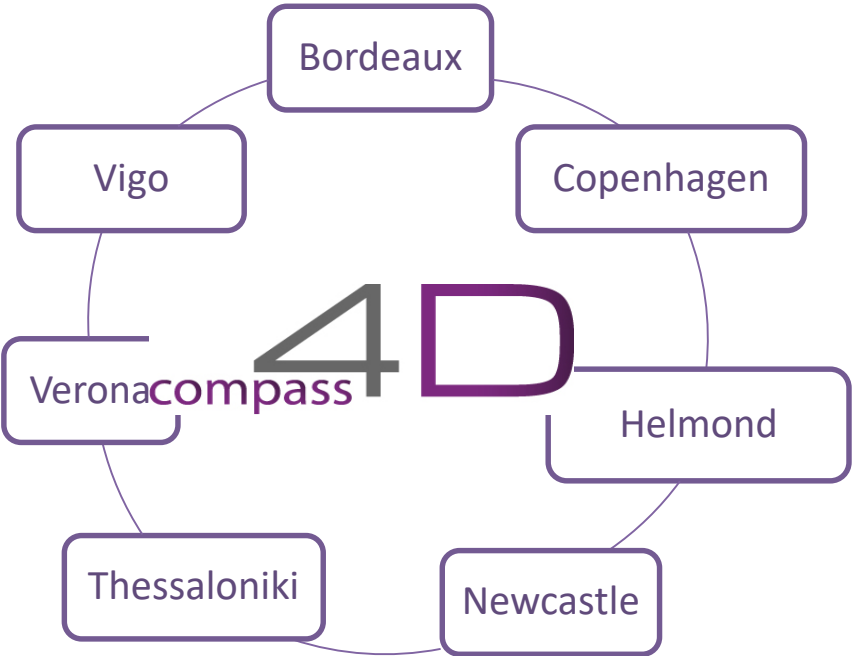
Period	Number of crossings	Number of stops	% of stops
Baseline	408	52	13%
Pilot	343	20	6%

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%

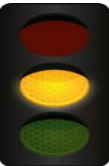
Emissions, consumption and speed variations

Compass4D -overview



Compass4D pilot sites

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

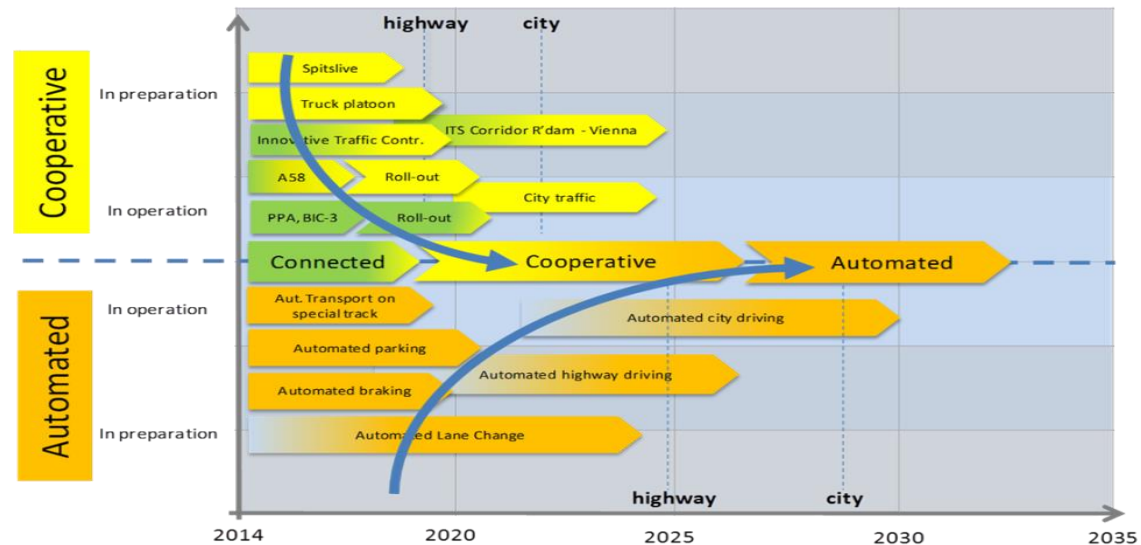
From C-ITS- technology to mobility solutions the deployment challenge



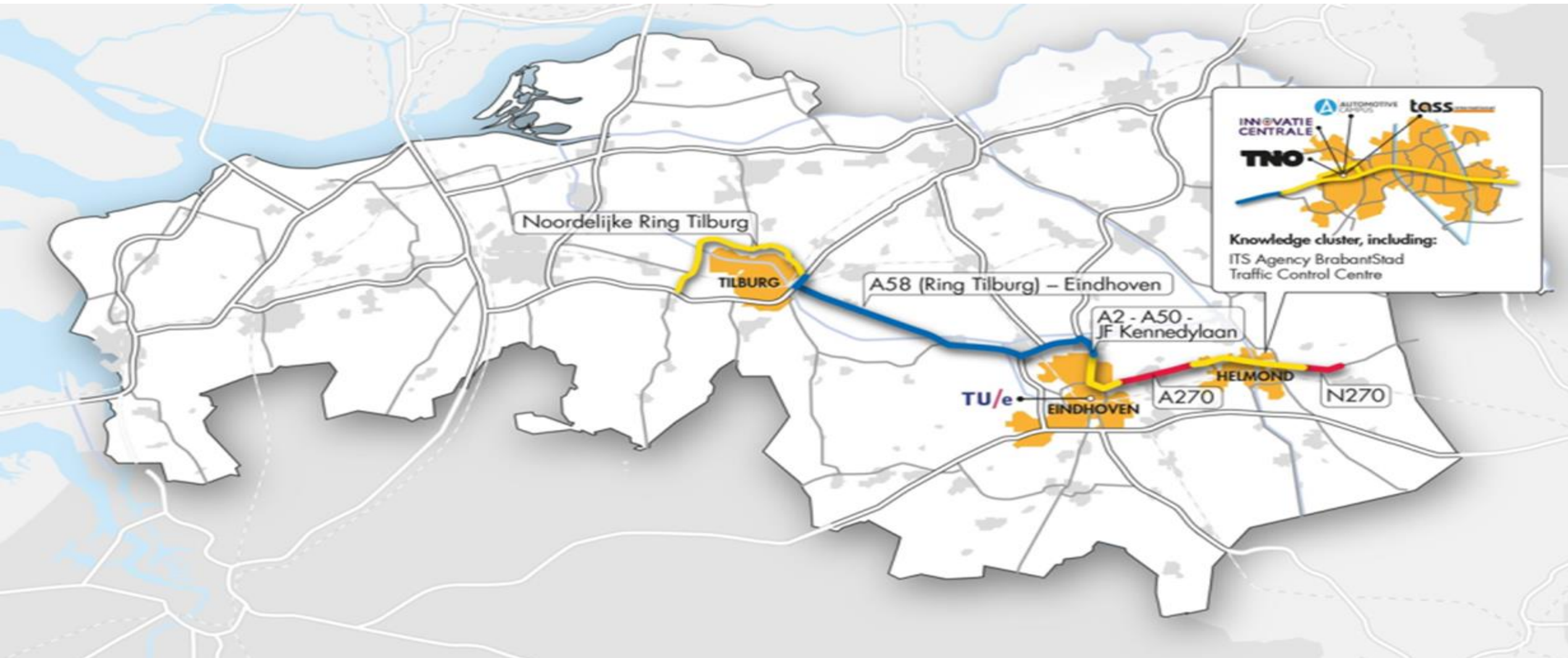
- ✓ Technology
- ✓ Policy
- ✗ **Business-models: economies of scale**
- ✗ General Acceptance
- ✗ Proof of Evidence
- ✗ Cyber Security

Next ITS steps for Helmond ...

- Contribute to large scale deployment of C-ITS
 - EU- Projects **C-Mobile**, **C-TheDifference**, **CAPITAL**
- Prepare for introduction and transition towards automated vehicles
 - EU- Projects **MAVEN**, **AUTOPILOT**, **CoEXist**



MobilityMoveZ.NL Living Lab Brabant



The real challenge for ITS ...



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