C-ITS, from pilots to deployment
A small city's perspective on C-ITS deployment

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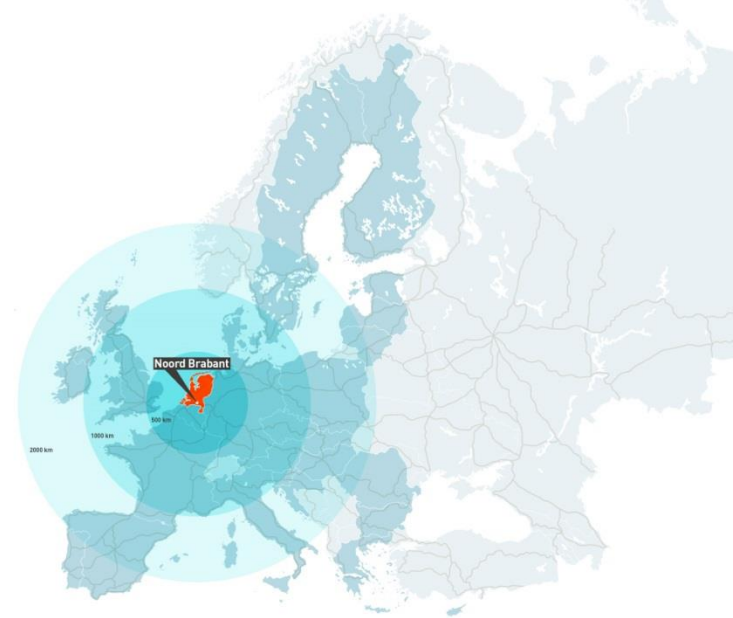**ITS Innovation Manager – ITS Agency BrabantStad**

CIMEC Final Event
Brussels 18 May 2017

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- Film Driven website.mov

Gemeente Helmond

Noord Brabant

500 km
1000 km
2000 km

Eindhoven
Helmond
Brainport

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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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FREILOT Energy Efficient Intersection Service Helmond
Priority at intersections – speed & time-to-green advice
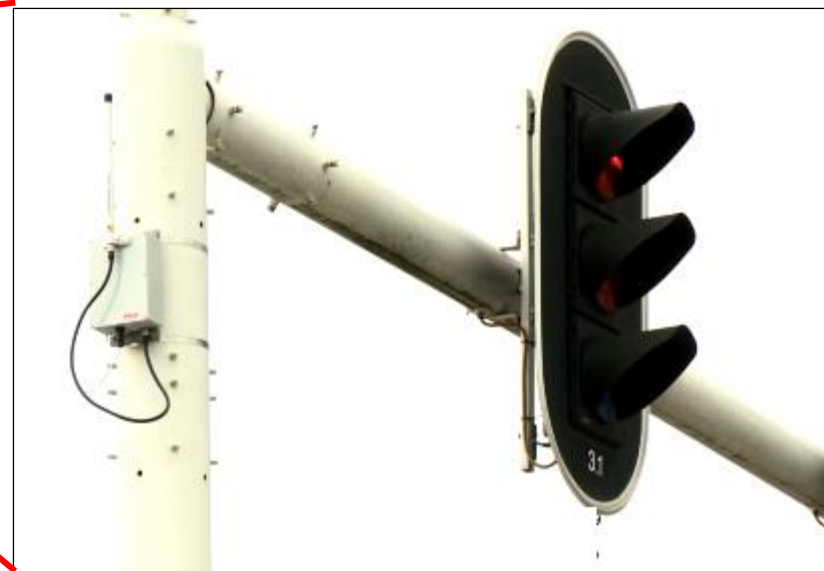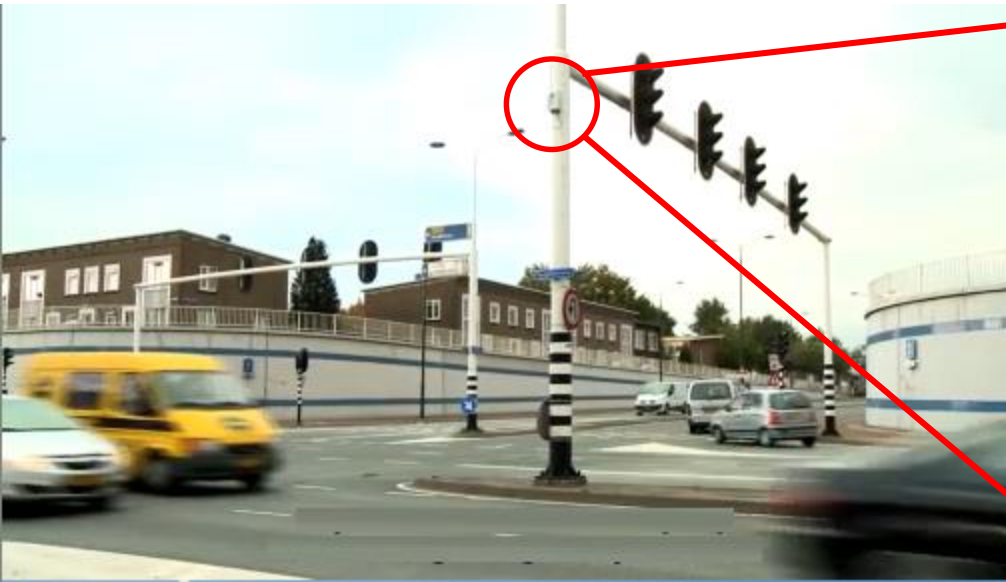
Energy Efficient Intersection Service
The example of Helmond (NL)

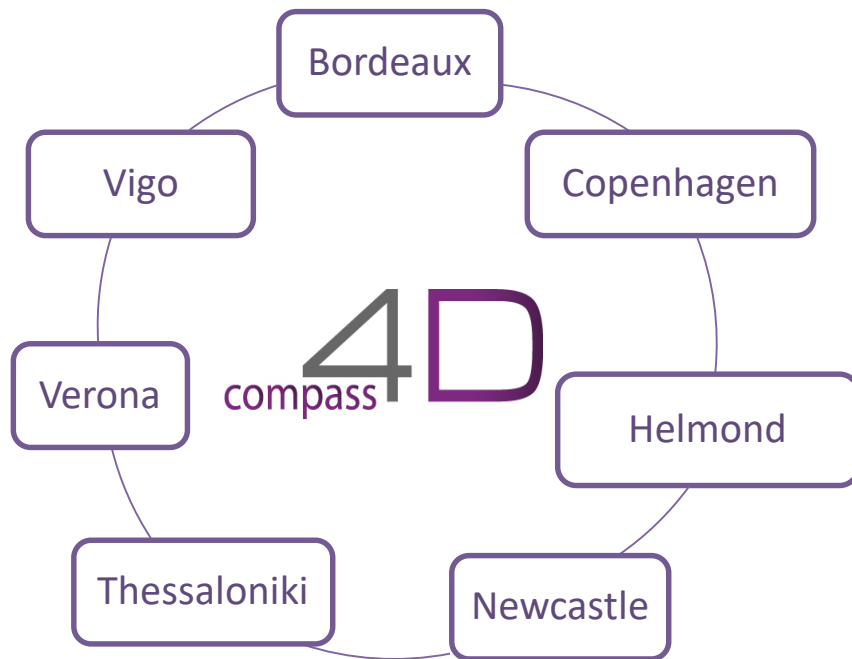*Source: FREILOT project*

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

Bordeaux

Vigo

Copenhagen

Verona

compass4D

Helmond

Thessaloniki

Newcastle

Compass4D pilot sites

> 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

Services:

Energy Efficient Intersection

Road Hazard Warning

Red Light Violation Warning

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

✔ **Technology**

✔ **Policy**

✘ **Business-models: economies of scale**

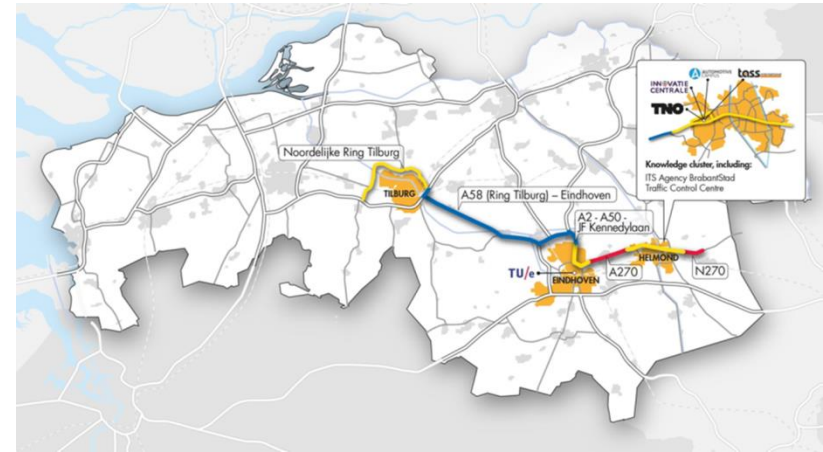✘ **General Acceptance**

✘ **Proof of Evidence**

✘ **Cyber Security**

From C-ITS- technology to mobility solutions
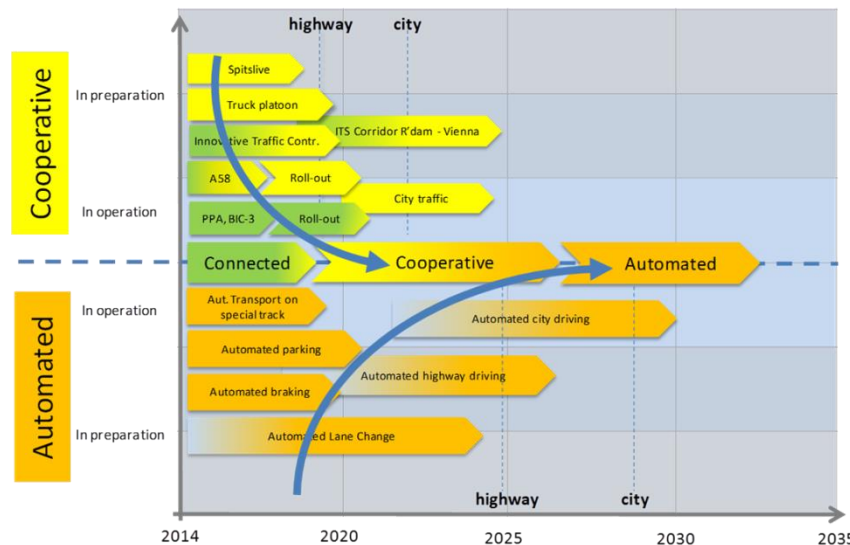**Some of our contributions to upscaling**

- ➢ **Increase number of users: example C-TheDifference**
- ➢ **Extend installed base of C-ITS Infrastructure: Talking Traffic**
- ➢ **Hybrid Communication Testbed**

But: is the market ready ???

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The next mobility challenges for Helmond …

➢ Contribute to large scale deployment of C-ITS
   ➢ EU- Projects **C-Mobile, C-TheDifference, CAPITAL**

➢ Combine smart technology with smart behaviour – MaaS

➢ Prepare for introduction and transition towards automated vehicles
   ➢ EU- Projects **MAVEN, CoEXist, AUTOPILOT**

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The real challenge for C-ITS …

ITS just a tool ...

For more information

please contact

www.drivenbyhelmond.nl
g.blom@helmond.nl
Mobile: + 31 6 53 21 48 51

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