Helmond
a SMC involved
in CCAM

Lessons learned

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POLIS Annual Conference 2020

1A. Size doesn't matter : boosting innovation in small and medium-sized cities

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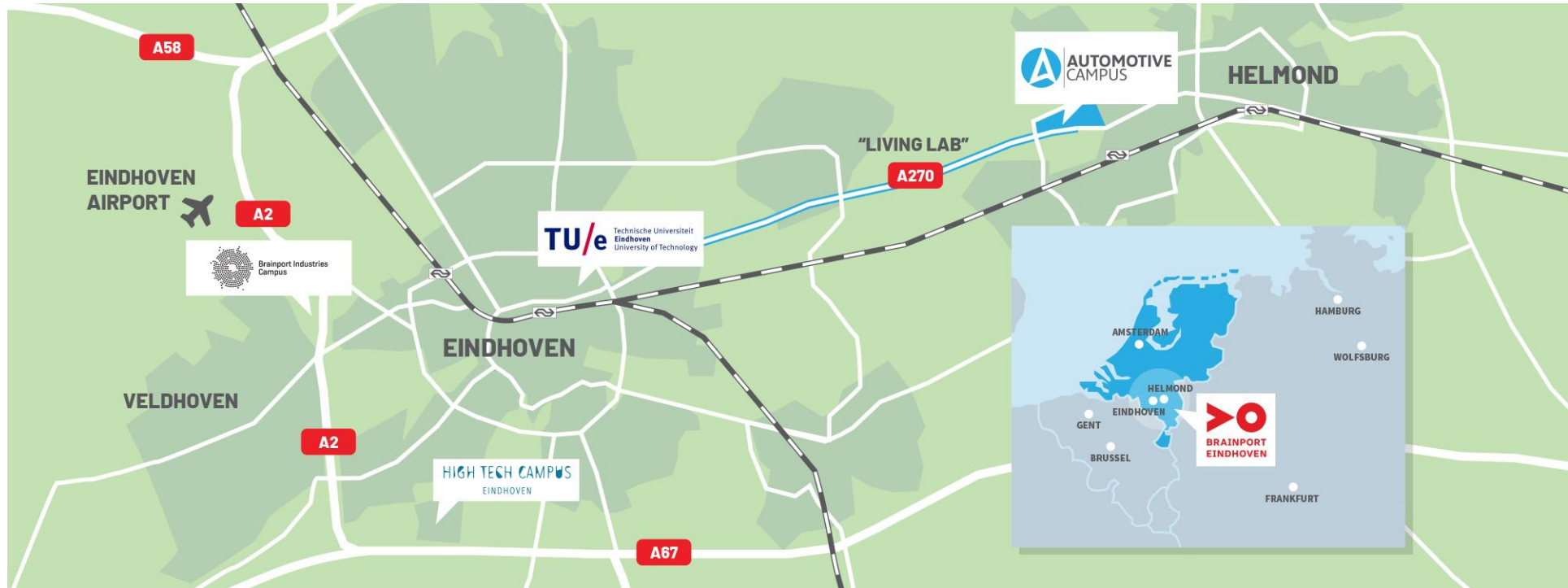
POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

regio arnhem nijmegen

Annual Conference 2020

VIRTUAL EVENT | 30 NOVEMBER-3 DECEMBER 2020

A few words on Helmond

- A SMC : 92.420 inhabitants
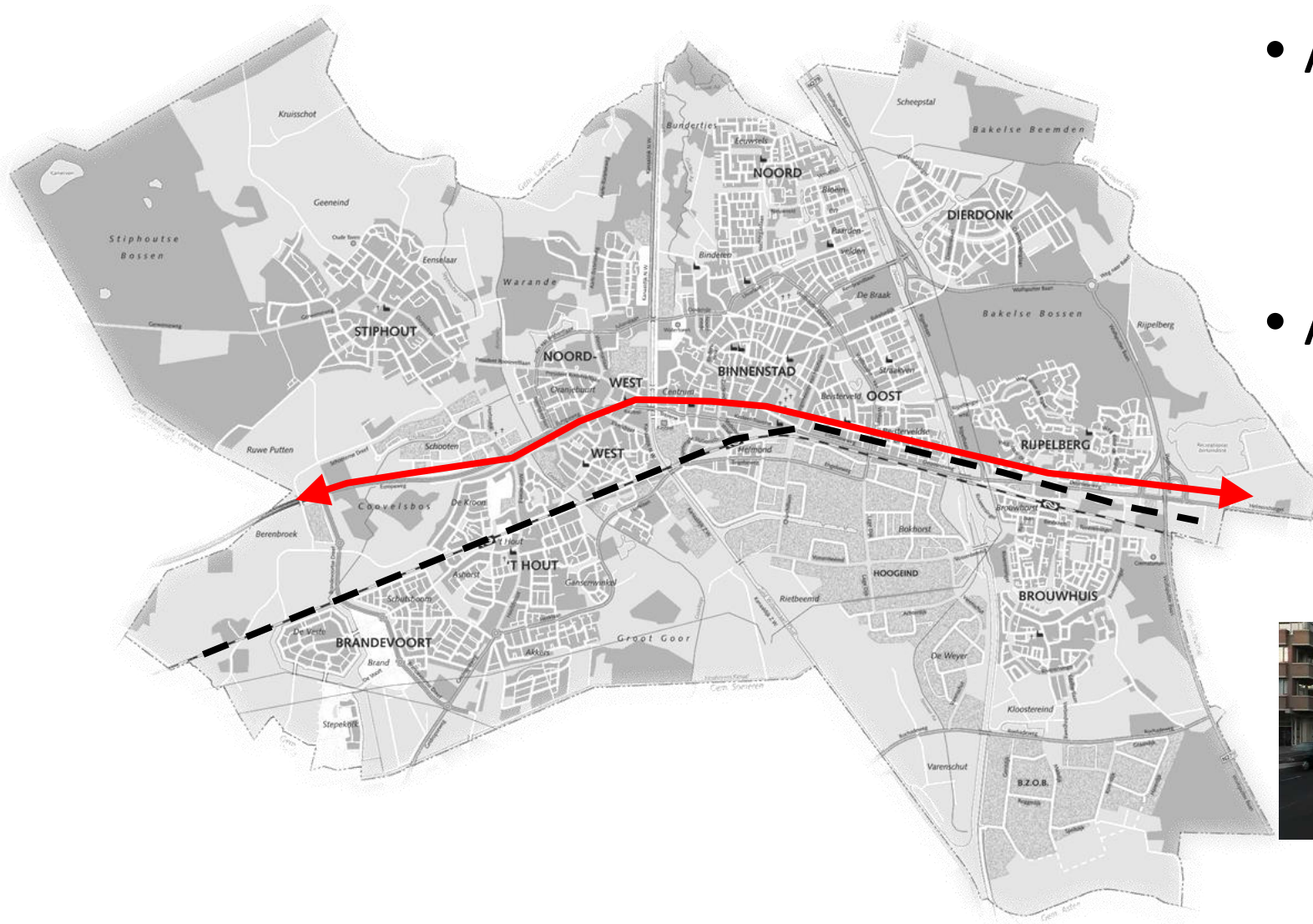- 2nd biggest city of Brainport Eindhoven region

Being a Small/Medium-sized City : an asset for innovative projects ?

- Bring together the **stakeholders**

- Close to their **citizens** : committed to innovation, a will to be « in »

- **Dare,** in hands-on pilots

- **Adaptation** capacity : find innovative solutions due to the limited resources and capacity

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A SMC with a strong traffic challenge
the main road cutting the city in two halves

- A high traffic volume
  - more than 30 000 / day;
  - more than 2000 trucks / day

- A significant impact

  in terms of congestion, noise, pollution and crossability.

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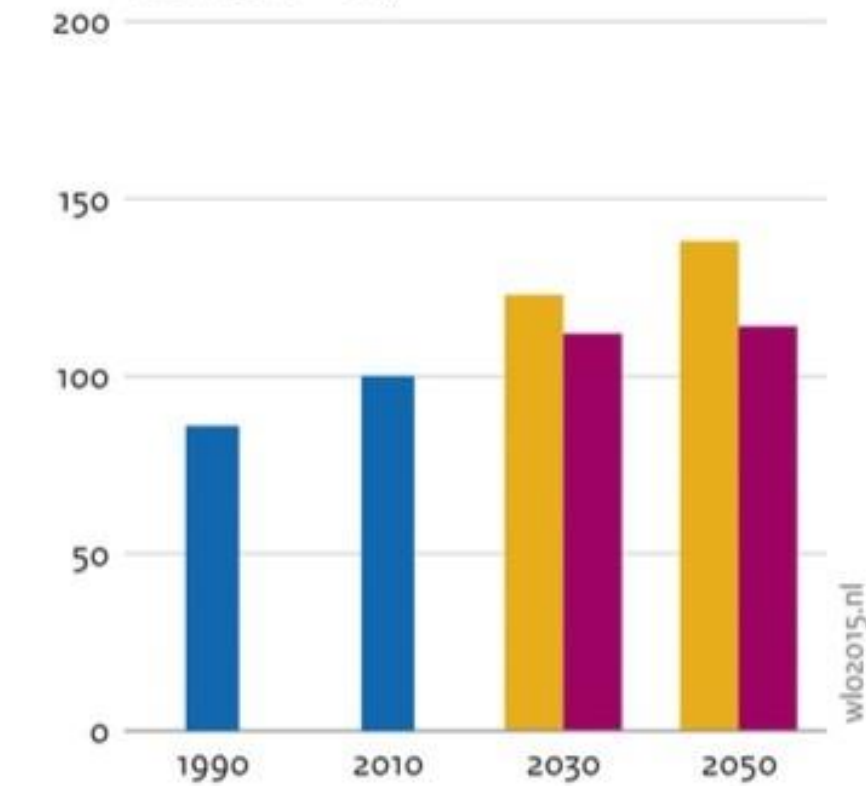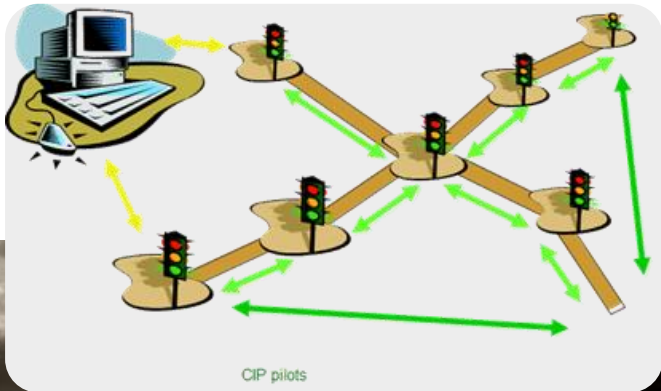# 2000's : starting point for a policy towards Smart Traffic Management

NEW INFRASTRUCTURE

Personenmobiliteit volgens WLO-scenario's

Afgelegde kilometers

Index (2010 = 100)

CIP pilots

Traffic Management/C-ITS

Legend:
- Waarneming
- Scenario Hoog
- Scenario Laag

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A strong local community involved in innovation

Creation of **synergies between stakeholders**

- Business community
- Educational institutions and research centers
- Other public authorities of the region

Sustainable and Smart Mobility solutions

Employment and reinforcement of the economy

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Helmond : a living lab

- Turn policies into practise

- « **Learning by doing** » :
  - o Do not wait for the market to come up with smart solutions
  - o Support smart mobility pilots and showcases

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Concrete implementation through EU projects

Automated Driving

- **MAVEN**
  - Traffic Management C-Automated Vehicles

- **Co-Exist**
  - AV-ready transport models and road infrastructure for the coexistence of automated and conventional vehicles

- **Autopilot**
  - IoT and Automated driving

- **FABULOS**
  - Pre-Commercial Procurement for Automated Bus Urban Level Operation Systems

- **Secredas**
  - Safety and cybersecurity for automated systems

ITS/C-ITS

- **FREILOT**
  - Energy Efficient Intersection Service Helmond

- **Compass4D**
  - Energy Efficient Intersection, Road Hazard Warning, Red Light Violation Warning

- **C-the Difference**
  - GLOSA, green priority, emergency vehicle warning, road works warning, red light violation warning

- **C-Mobile**
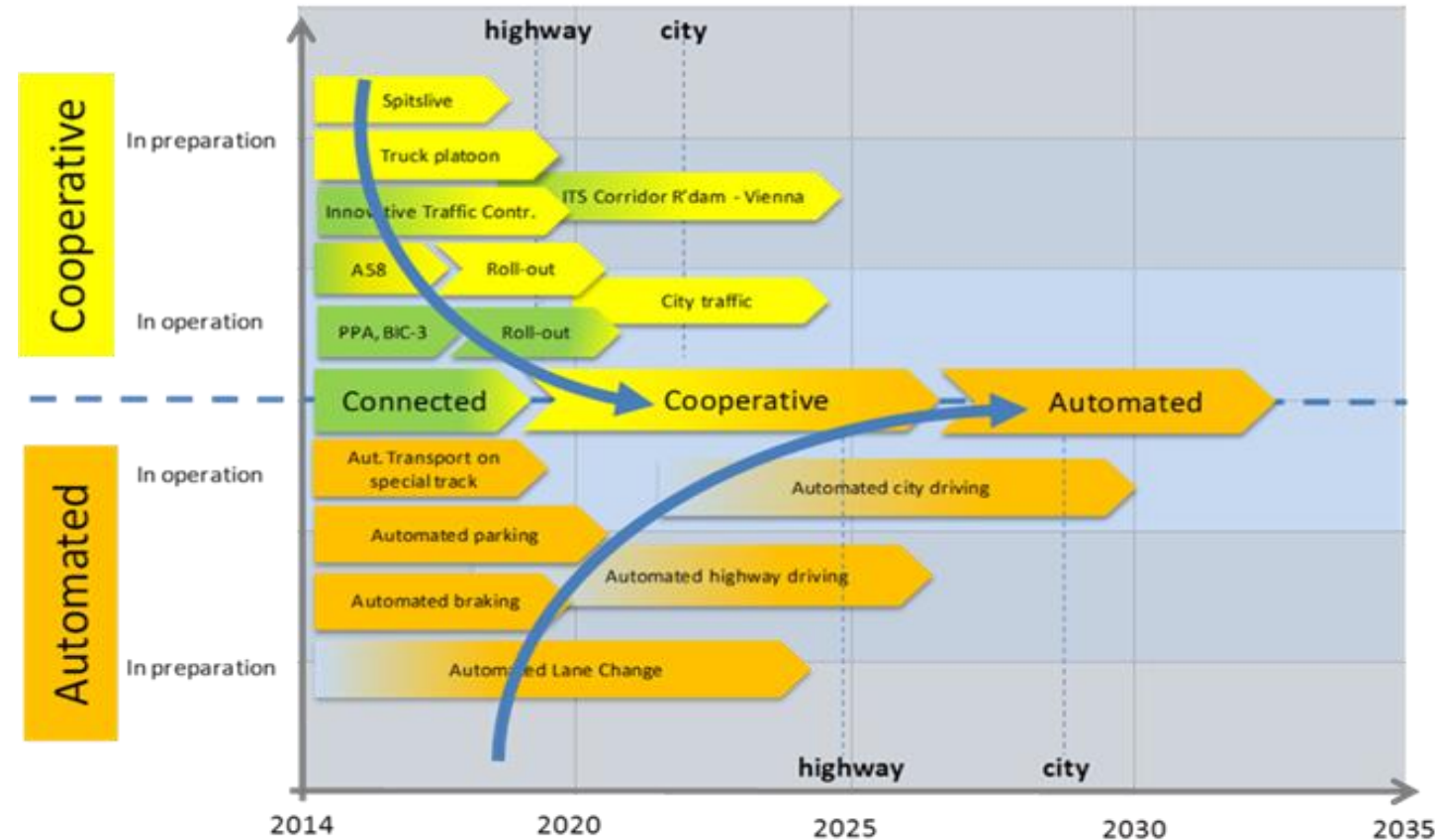 - Focus on large scale C-ITS deployment >100 vehicles in Helmond, > 50 equipped intersections

- **ReVeAL**
  - Urban vehicle access regulations, ISA test, geofencing

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Helmond, on the road to automation …

- A **transition period** :
Time needed to go from pilots to
a complete deployment.

- **Prepare** for the (r)evolution
"If you are not at the table, you
are on the menu"

-> useful services for the citizens

- Automated shuttles could be
efficient last mile solutions
in an SMC like Helmond

- Automation and **connectivity**

Some lessons learned and recommandations

ITS and automation have to **address real local problems.**

No "one size fits all" solutions

Commitment of **local stakeholder**s & Involvement of **citizens** are key for success

Data and traffic management important for CCAM

Update of the **knowledge of the city staff** essential in the LT

INTEGRATION :

A clear direction, definition of policies + political support

=> crucial for successful deployment of actions

Combine **short term** (visible pilots) & **long term** (business models, upscaling) objectives

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Thank you !

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