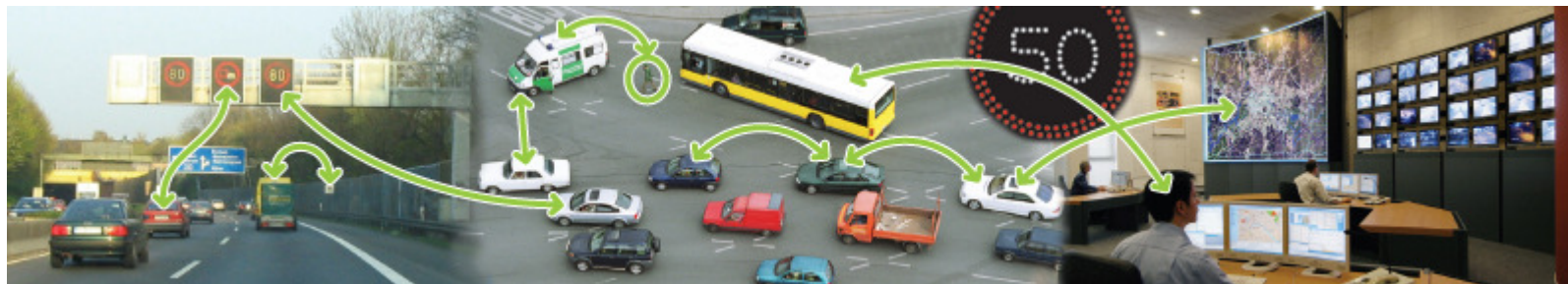# Test site
Netherlands - Belgium

ITS in Europe Geneva
SS038 June 6
Maartje Stam

Content

- Our vision

- Test sites

- Netherlands – Belgium

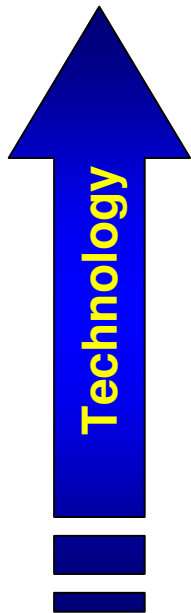- Activities

- Plans

- Conclusions

Logica - ITS

- Helping customers to achieve seamless and sustainable mobility
- Driving innovations
  - Road charging
  - Dynamic Traffic management
  - E-ticketing
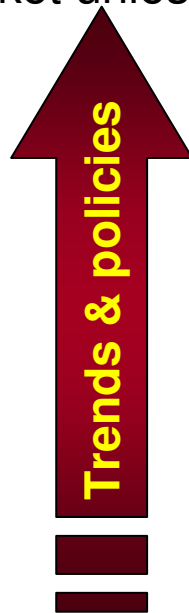 - Smart Logistics
  - Eco-mobility

The ITS world is changing
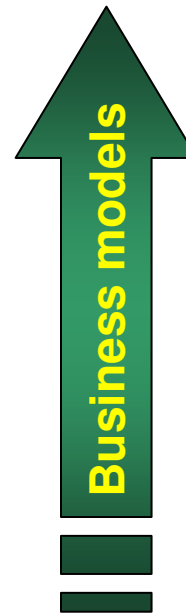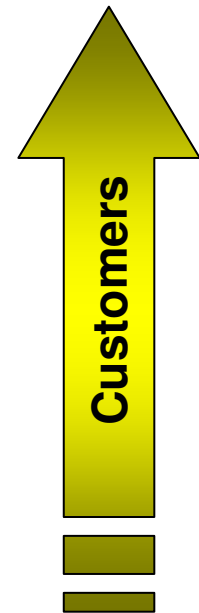
Logica

Hardware,
Software,
Communication

Open source

The market unless..

Technology

Public Private partnership

Cooperative systems

Trends & policies

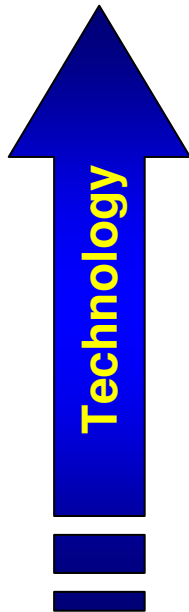**Business models**

I want it all, I want
It now….

Customers

Developments answering this

Head-up display

CALM M5 comm.

Host management

Technology

OSGI/Java
Open source

The car as
Intelligent node

Trends & policies
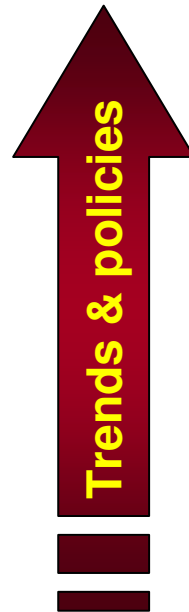
Cooperation between
Legacy systems &
vehicles

Joint development
of services

Business models
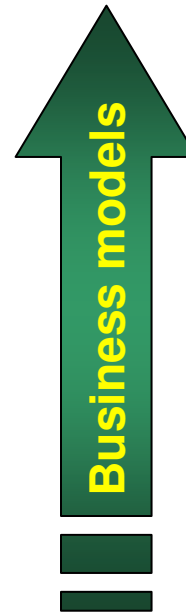
Real-time
Accurate data

Modern
look-and-feel

Customers
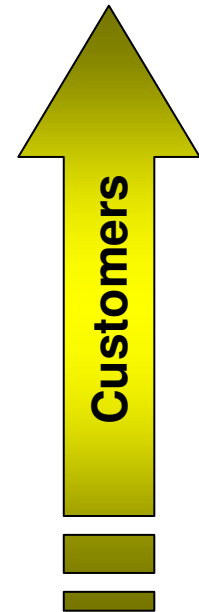
Showcase for developments: test sites

- ## Goals

  - To **prepare**, organise and the various sites to achieve high quality results

  - To **run** the trials ensuring operation of prototypes developed in various projects

  - To **test** the applications and **feedback** on their specifications

  - To ensure sound **data collection** for the evaluations

  - To **demonstrate** developed technologies & applications

Our test site vision

- **Netherlands and Belgium**

- **Hosting CVIS, COOPERS and Safespot**

- **Preparing for Netherlands – Belgium permanent 'trial garden' which can host and test**
  - More applications
  - More cars

Characteristics

- 1 closed area containing cross border aspects
- Various locations for different types of applications
- High (freight) traffic volumes (connecting 2 harbours)
- Many legacy systems

Test region

Netherlands

Rotterdam

Antwerp

Belgium

A20
A15
A29
A16/E19
A27
A17
A12
A1/E19
R1
E34/A21
E313/A13

Rotterdam
Dordrecht
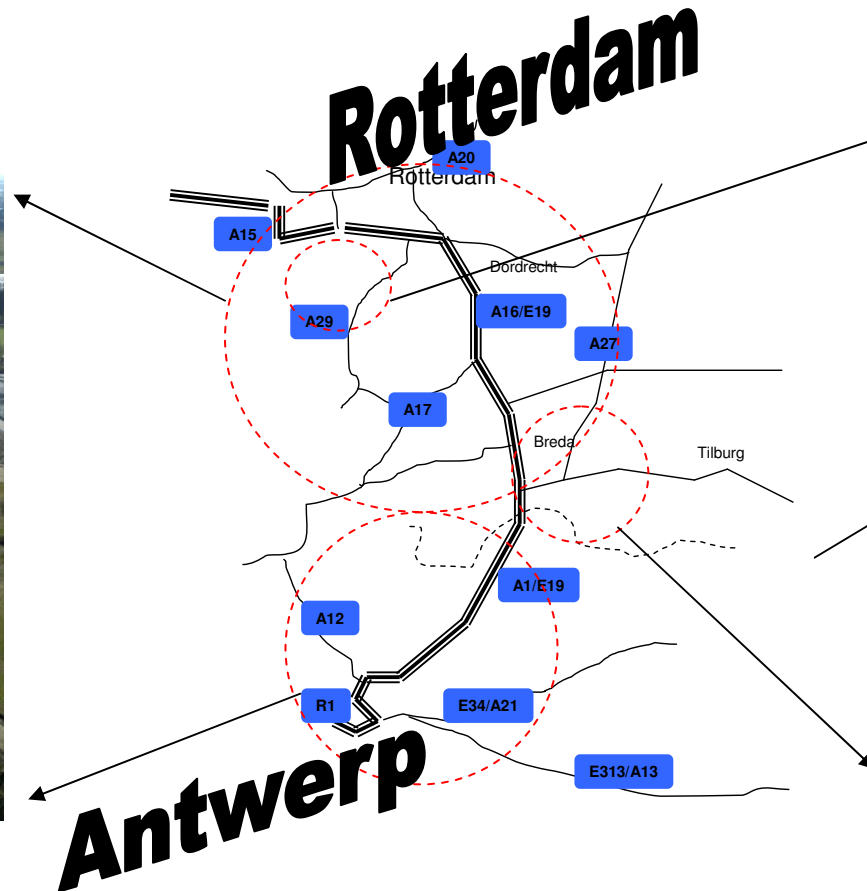Breda
Tilburg

Urban Pilot Rotterdam

Urban Pilot Helmond

Informative Road Brabant

Activities in CVIS

- Select locations
- Adapt infrastructure for prototype demonstration
- Prepare cars and install software
- Demonstrate

Location selection

- What prototypes are to be demonstrated?
  - What kind of areas are needed?
- Interurban and Freight and Fleet (Highway resting area)
  - Highways Rotterdam - Antwerp
- Urban applications
  - Intersection with traffic lights (Helmond)
  - DRIP location (Rotterdam)
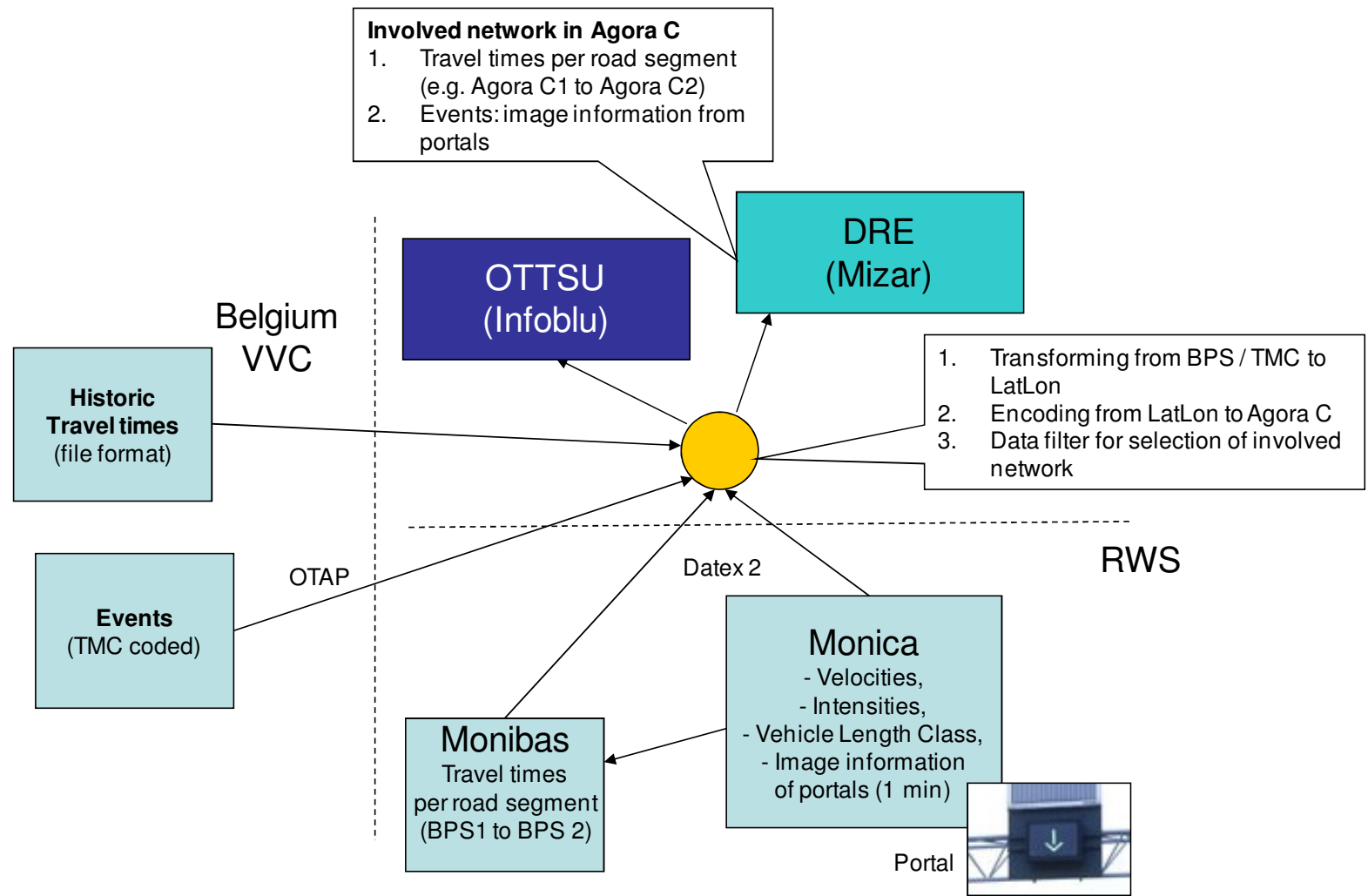- Green wave functionality
  - Informative road

Align with authorities

- ## Rotterdam – Antwerp stretch
  - Flanders traffic centre (B) – partner
  - Rijkswaterstaat (NL) – partner
- ## Helmond intersection
  - City of Helmond
- ## Rotterdam DRIP location
  - City of Rotterdam
- ## Regional Road
  - Province of Noord-Brabant - partner

Infrastructure adaptation

Involved network in Agora C
1. Travel times per road segment (e.g. Agora C1 to Agora C2)
2. Events: image information from portals

DRE
(Mizar)

OTTSU
(Infoblu)

Belgium
VVC

Historic
Travel times
(file format)

1. Transforming from BPS / TMC to LatLon
2. Encoding from LatLon to Agora C
3. Data filter for selection of involved network

OTAP

Datex 2

RWS

Events
(TMC coded)

Monica
- Velocities,
- Intensities,
- Vehicle Length Class,
- Image information of portals (1 min)

Monibas
Travel times
per road segment
(BPS1 to BPS 2)

Portal

Infrastructure experiences

- ☹ Netherlands location reference system is not standard
- ☹ not all included roads have inductive loops
- ☹ no dynamic travel times for Flanders

- Translation from local system to LatLon ☺
- Floating Car Data ☺

Prepare cars and boxes

- ☹ No OEM as partner in the test site
  - ☺ Use test cars without canbus data (TNO, Vialis, Logica, Flanders)
  - ☺ DAF trucks as a subcontractor to deliver a truck
- Order hardware: CVIS box
  - ☺ Logica has just received the first unit

To do's

- Install core technologies (enabling software)
- Install software now being developed
- Install screen
- Prepare back office
- DEMONSTRATE
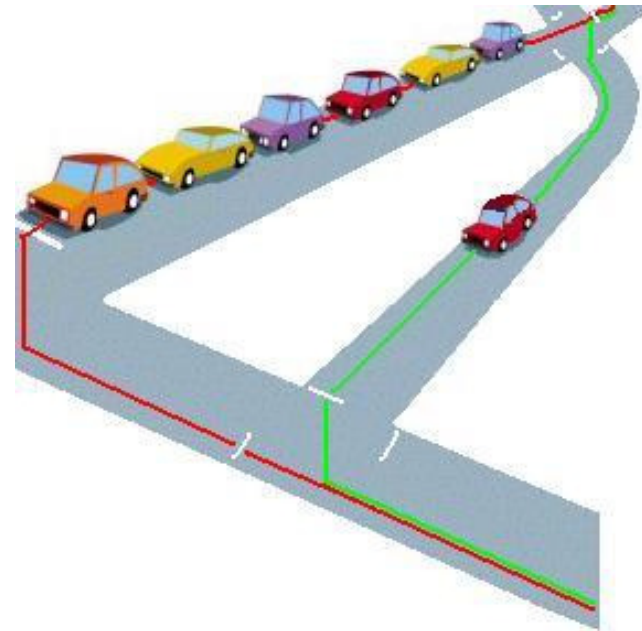
Conclusion

- NL-BE has big ambitions..

- Heading for a permanent test site to
  - Reuse installed hardware and software
  - Gain experience
  - Allocate resources efficiently

- Technology is the basis, however

- It is all about look and feel

- We are looking forward to demonstrate cooperative systems to a wider audience

Live in Q3 2009 !

Questions ??

Thank you for your attention...
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