

Amsterdam Group Corridor NL-DE-AT

Frans op de Beek

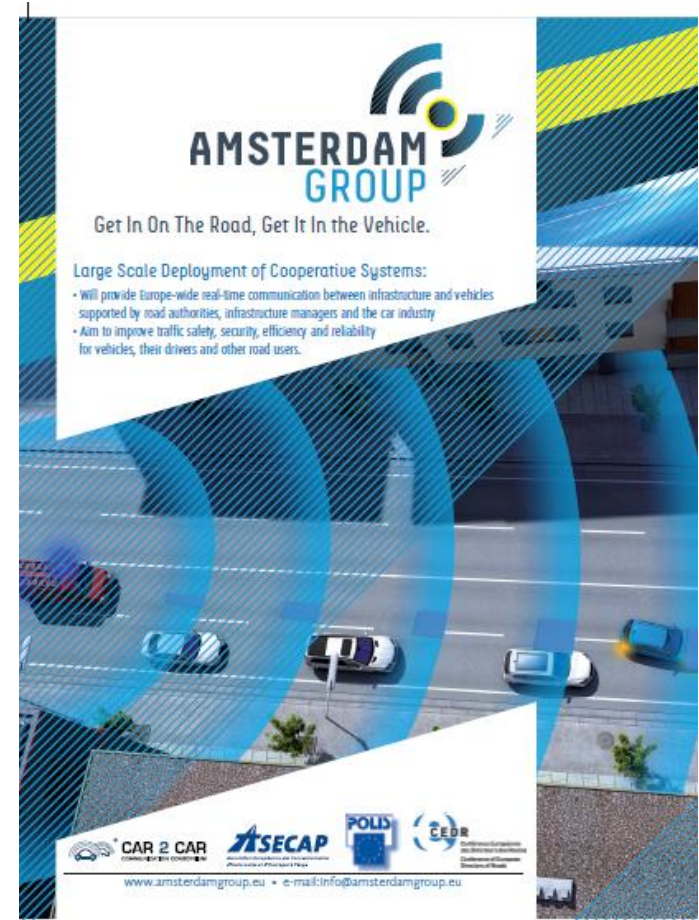
Chair Amsterdam Group



Rijkswaterstaat
Ministry of Infrastructure and the
Environment

Amsterdam Group

- Deployment of C-ITS
- ...as a cooperation platform of core C-ITS deployment committed stakeholders,
- CEDR, ASECAP, POLIS, C2C-CC
- formed in 2011...
- ...with the goal to overcome mutual dependency...
- ...to achieve and manage synchronised action in a vehicle-infrastructure network,
- Joint standards V2I2V

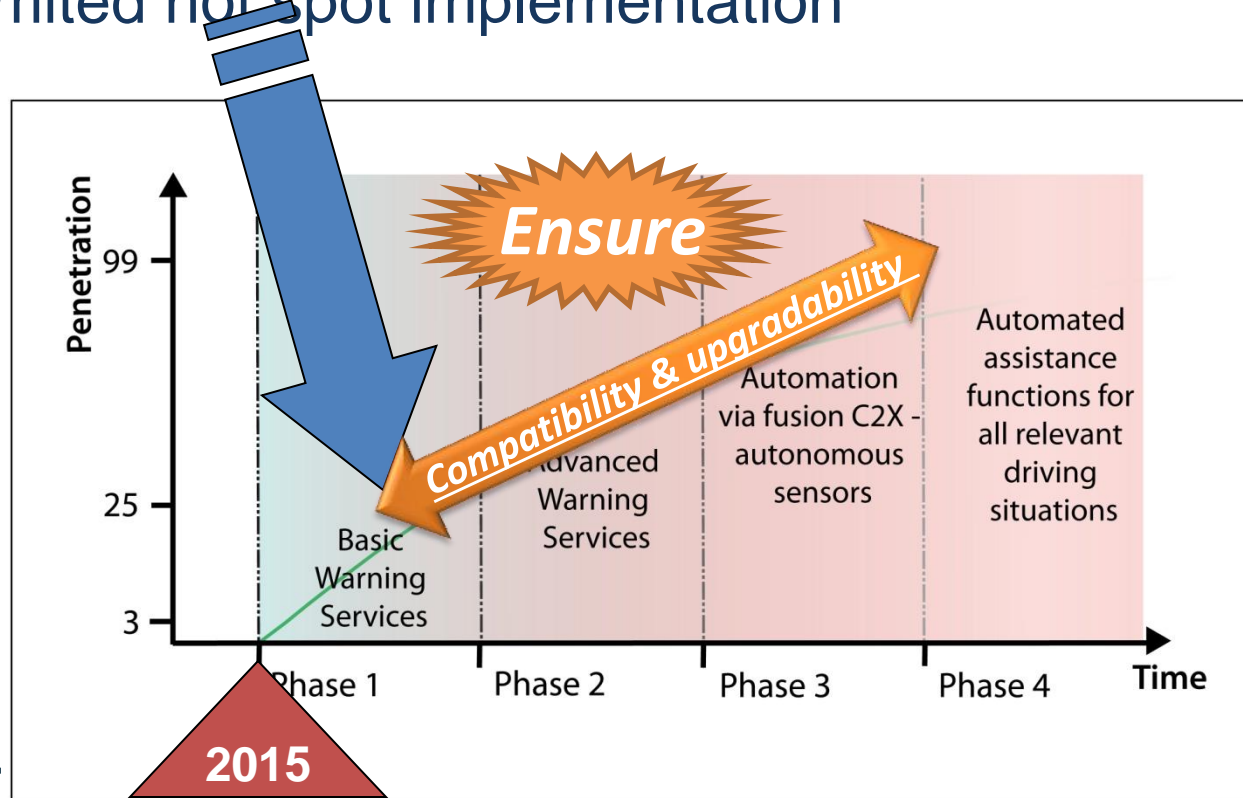


AG – principles

- Respect requirements of different road authorities, operators and cities.
 - Phased deployment approach
 - Evolution instead of revolution
 - Technically interoperable C-ITS based on agreed standards
 - Foster international harmonisation
 - Apply results of European Research projects
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Initial Deployment of C-IST

Initial deployment with simple and non complex services achieving clear user benefits even with limited penetration and limited hot spot implementation



Day one applications and services

- Simple and non-complex services with end user benefit and supported by a solid business model
 - A balanced mix of services that support all environments (urban, rural, inter-urban and V2V)
 - Services that are feasible with low/minimum risk to avoid a first day bad image hampering further user acceptance
 - Services that support a fast penetration and offer a platform for further deployment of other services
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Day One Services

Typical V2V	Typical V2I/I2V
Hazardous location warning	Probe Vehicle Data (Floating Car Data)
Slow vehicle warning	Signal phase and time of traffic lights
Stationary vehicle warning	Road works warning
Emergency brake light	In-vehicle signage
Emergency vehicle warning	
Motorcycle approaching indication	

Hybrid communication concept

- Short range communication based on ITS G5
 - The ETSI standards release 1 is finalised and further harmonisation is ongoing.
 - chosen by OEMs, implemented from 2015 onwards for the day one services.
 - applied by road authorities and operators for V2I/I2V services
 - Long range communication based on cellular communication such as 3G, 4G
 - is regarded as a complementary technology.
 - address non time-critical applications
 - Wide area coverage
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The corridor NL-DE-AT

Providing a basis for standardized, international, future-oriented cooperative ITS services:

- A joint road map for the introduction of the initial cooperative ITS services
- Common functional descriptions of the initial cooperative ITS services and technical specifications
- Start of the actual implementation of the initial cooperative ITS services



The official start



On 10 June 2013 ministers representing Germany, Austria and the Netherlands, the countries initiating the corridor, signed the Memorandum of Understanding

The phases

1. Pre-development and proof-of-concept

- with road works safety trailers in Hessen around Frankfurt/M.,
- within the Austrian project ECO-AT, and
- by extension of Dutch Testside DITCM

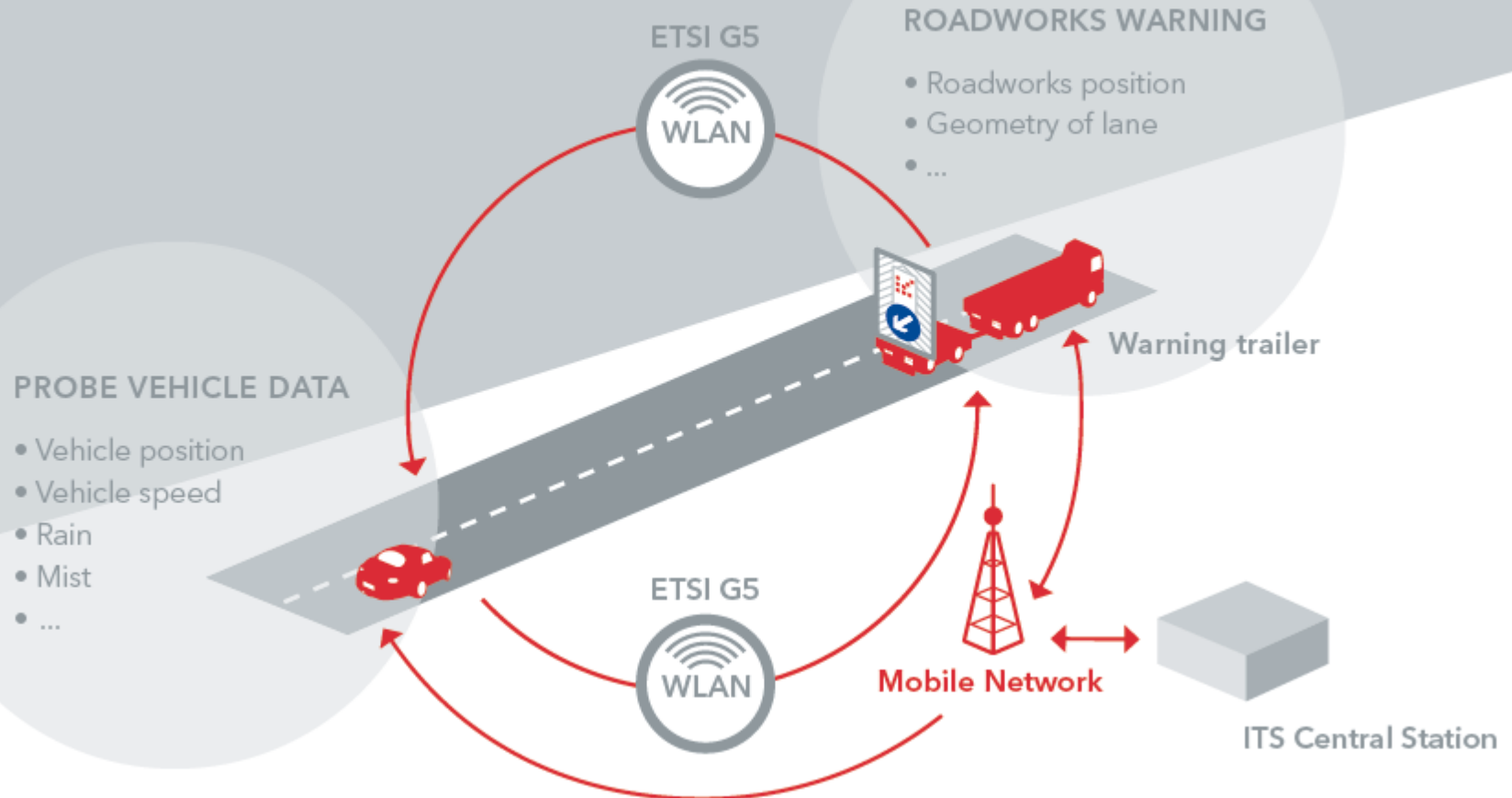
2. Deployment of Road Works Warning and Probe Vehicle Data in the Cooperative ITS Corridor (NL – DE – AT)

3. Nationwide deployment



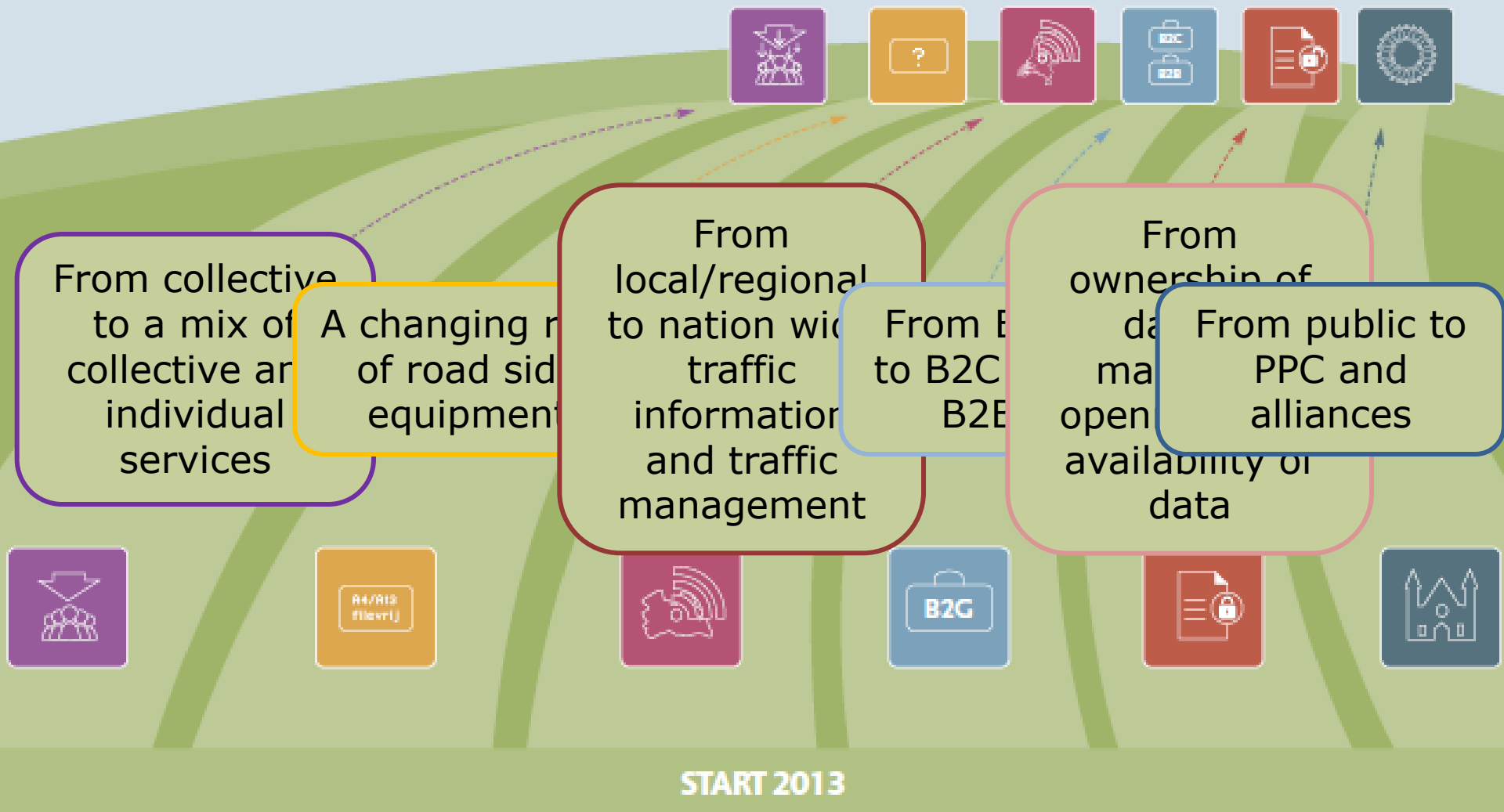
The initial services

Deployment of two services as common denominator on motorways in the three Member States Netherlands – Germany – Austria



Dutch vision on ITS

End 2023



Letter to Parliament on Traffic Info & Mgmnt



Get It In On The Road, Get It In the Vehicle.

Traveller, Conveyor and shipper central
Program 2013-2023

Evolution and no revolution

Innovative services and technologies

- *No longer invest in conventional technologies*

Close cooperation between authorities and industries/market.

Strengthen international position industry.

Intensify alliances

Structural long-term committed budgets

Self-management and

intervene when collective interests are endangered

Open data to support economic developments

Getting people smarter on the way

Public and private co-operation will bring us to the next level!

Thank you for your attention

Frans.opde.beek@rws.nl

www.amsterdamgroup.eu