

Developments in Smart Mobility

A perspective from Rijkswaterstaat

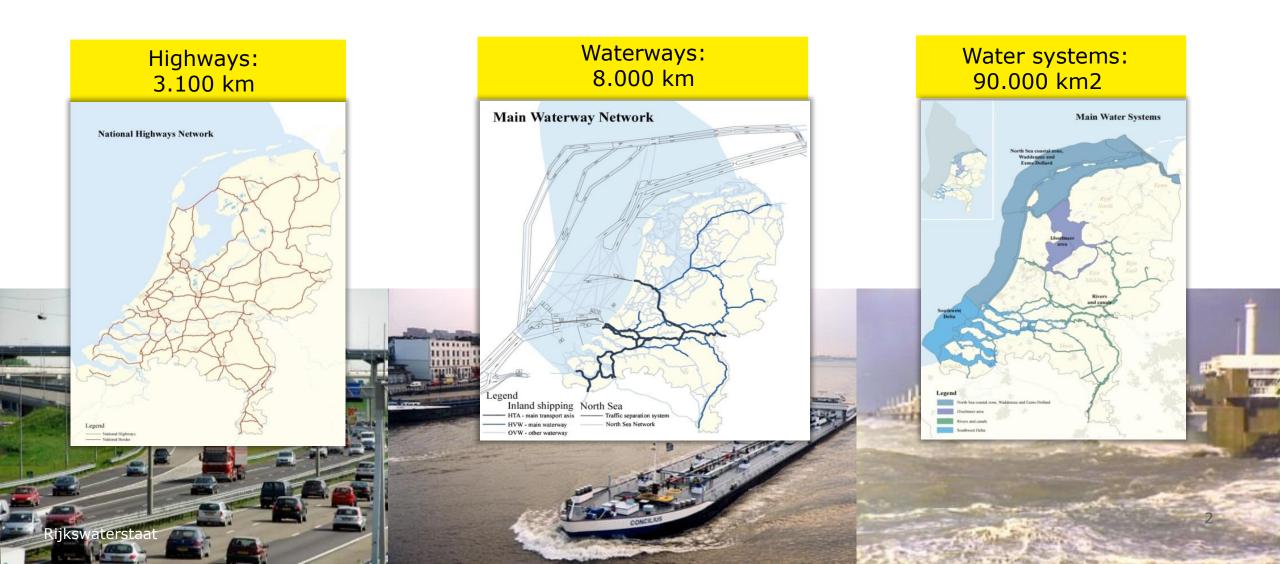
Executive Agency of the Netherlands Ministry of Infrastructure and Water Management

Ronald Adams/projectmanager smart mobility





Rijkswaterstaat is responsible for 3 networks





Primary Dutch road network

- Covers 0.7 percent of the Netherlands
- Most intensively-used roads in the world
- 68 bln. vehicle kilometres travelled each year
- > 3 mln. road users every day

- Main responsibilities Rijkswaterstaat:
 - building new infra
 - maintenance
 - traffic management and ITS/smart mobility

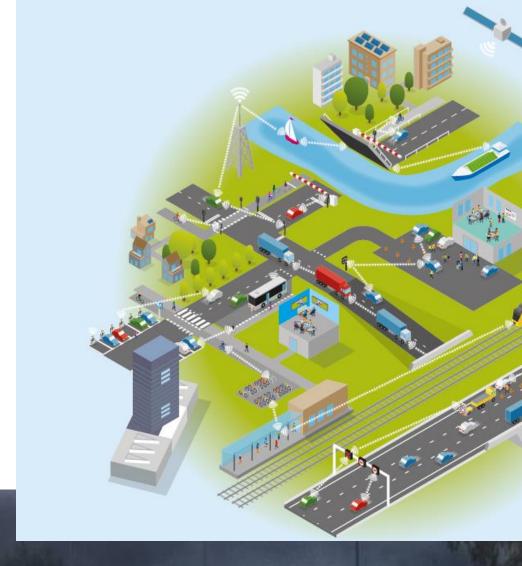






Smart Mobility: goals

- Make our traffic and transport system:
 - Sustainable
 - Safe
 - Smart
- > Create new and better services for our road users
- Develop new markets together with our partners







Dutch policy: 'Smart Mobility, Dutch Reality!'

- 1) **Encouraging** the use of existing products and services
- 2) Responsible **introduction** of a new generation of vehicles
- 3) Future-ready **infrastructure** and road management
- 4) Careful utilisation of **data** exchange and connectivity
- 5) From trials and pilots to large scale **deployment**

Smart mobility. Dutch reality.



Letter from our Minister to the Dutch Parliament 4 October 2018: 'Smart Mobility, Dutch reality'.



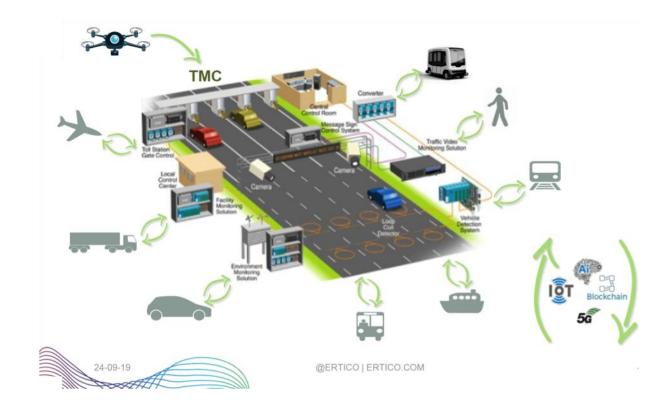
Cooperation crucial to achieve smart mobility goals...

Between partners:

- Public
- Private
- Science and knowledge

> On different levels:

- City/regional
- National
- European
- Worldwide





... cooperation and interaction on many levels

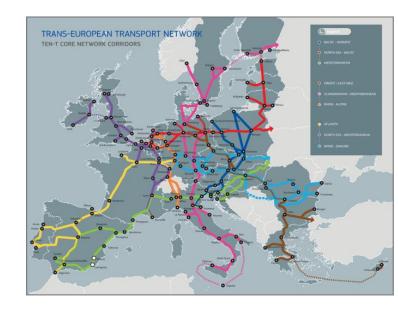
National Policy



Transboundary coordination



EU Policy



National implementation

International Projects and platforms

EU grants and implementation framework



Through European: platforms and...













... projects







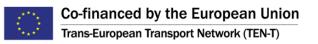










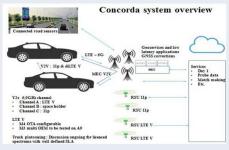




2017 - 2021

EU grant: **€10 mln**

Leadpartner: **ERTICO**

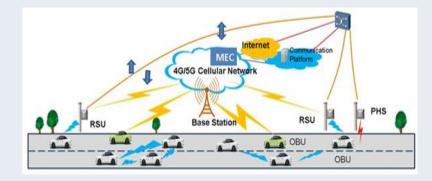


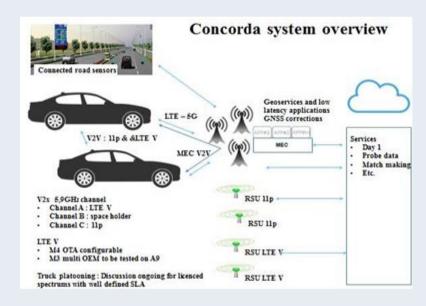


Aim is to test and enhance connected and autonomous driving and hybrid communication (ITS G5 and LTE-V/5G) possibilities in 5 European countries.

Unique selling points of Concorda pilot Amsterdam

- Testing autonomous driving with NXP, KPN,
 RDW and Fiat Chrysler Automobiles
- Urban Chauffeur use cases
- Interurban test tracks (highway, provincial and urban roads)







AST

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SOCRATES^{2.0}

2017 - 2020

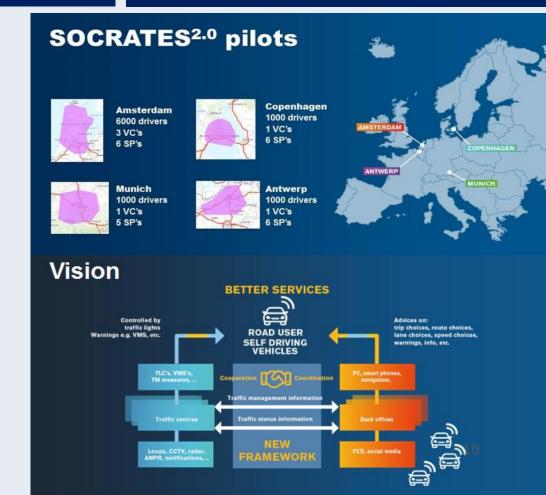
EU grant: €1,65 mln

Leadpartner: **Rijkswaterstaat**

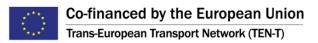
Main goal: network optimisation and better services for road users based on public-private data exchange.

International public-private cooperation (car industry, navigation industry, service providers, and road authorities).

Testing next generation of Interactive Traffic Management in 4 European cities and in cooperation with Ertico TM 2.0 Innovation Platform.







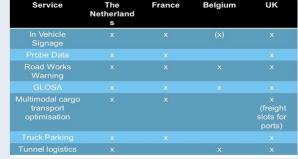


2016 - 2020

EU grant: €1,65 mln

Leadpartner:

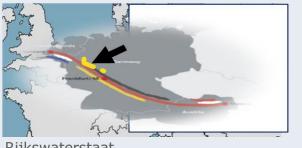
Rijkswaterstaat and since 31-8-2019 France. Both supported by Ertico



European cooperation between four Member States and private industry on the standardisation and interoperability of 7 C-ITS services:



- Road Works Warning (RWW)
- In-Vehicle Signage (IVS)
- Probe Vehicle Data (PVD)
- Collision Risk Warning (CRW)
- Truck Parking
- Multi-modal Cargo Transport Optimization (MCTO)
- Tunnel logistics







Conclusions and possible topics for discussion

Smart Mobility = Serving several goals

Interesting and important question is on which goals the **focus** will be for the coming years and what the possibilities on an European level are to maximise the contributions to realise those goals.

Smart Mobility = (multimodal) integration and cooperation on different levels

Smart Mobility is complex and will have effects on the complete mobility system. That means that *large scale deployment* needs a long term (public and private) vision, time and consistency on European, national, regional and urban levels.

Smart Mobility = Based on Data

Everything we do in the area of ITS and Smart Mobility is based on **data**. So this is definitely an interesting topic for further discussion and a possible game changer. For public and private partners. And on different levels. Also think about privacy and security. A European vision on data is important.

Rijkswaterstaat 12



Thank you for your attention.

Questions?

More information: https://www.rijkswaterstaat.nl/english ronald.adams@rws.nl

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