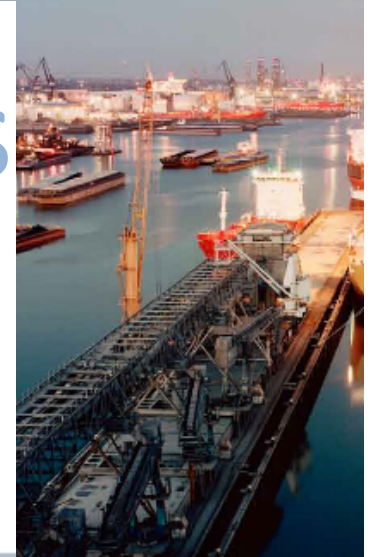


# Connekted vehicles

ITS Netherlands

Marije de Vreeze  
Manager ITS Netherlands



# *Partners International*



# Why the Netherlands need ITS

## Challenges

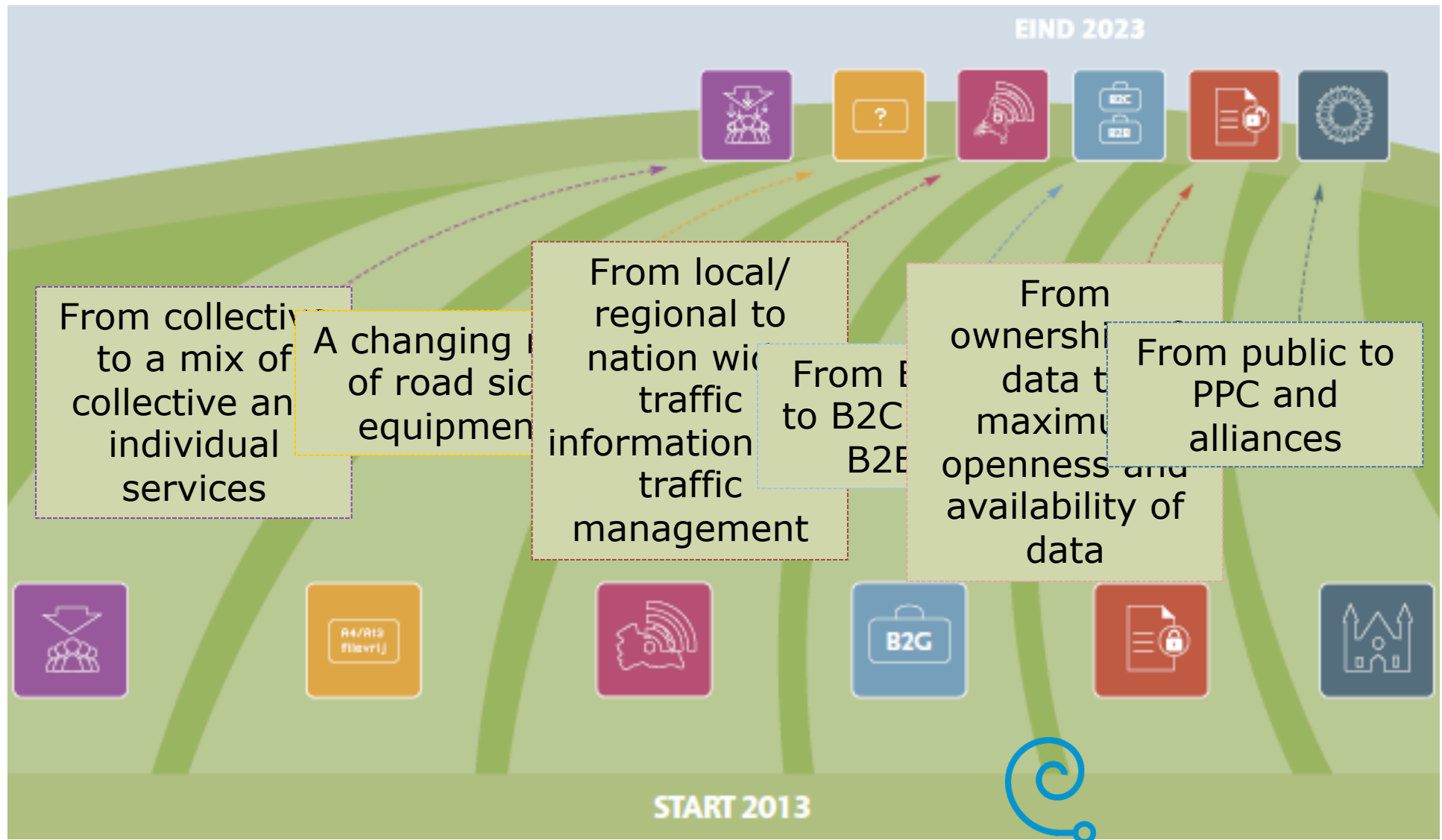
- Mostly populated country in Europe
- Small country = little space = multi spatial use and integrated functions
- Maintenance costs are rising – budget is going down
- Growth is exceeding road network (building) capacity

## Benefits

- Better utilising existing infrastructure capacity
- Improving road safety and incident management
- Positive environmental effects
- Increase the cost effectiveness of public traffic management



# Our vision on ITS







Ministerie van Infrastructuur en Milieu

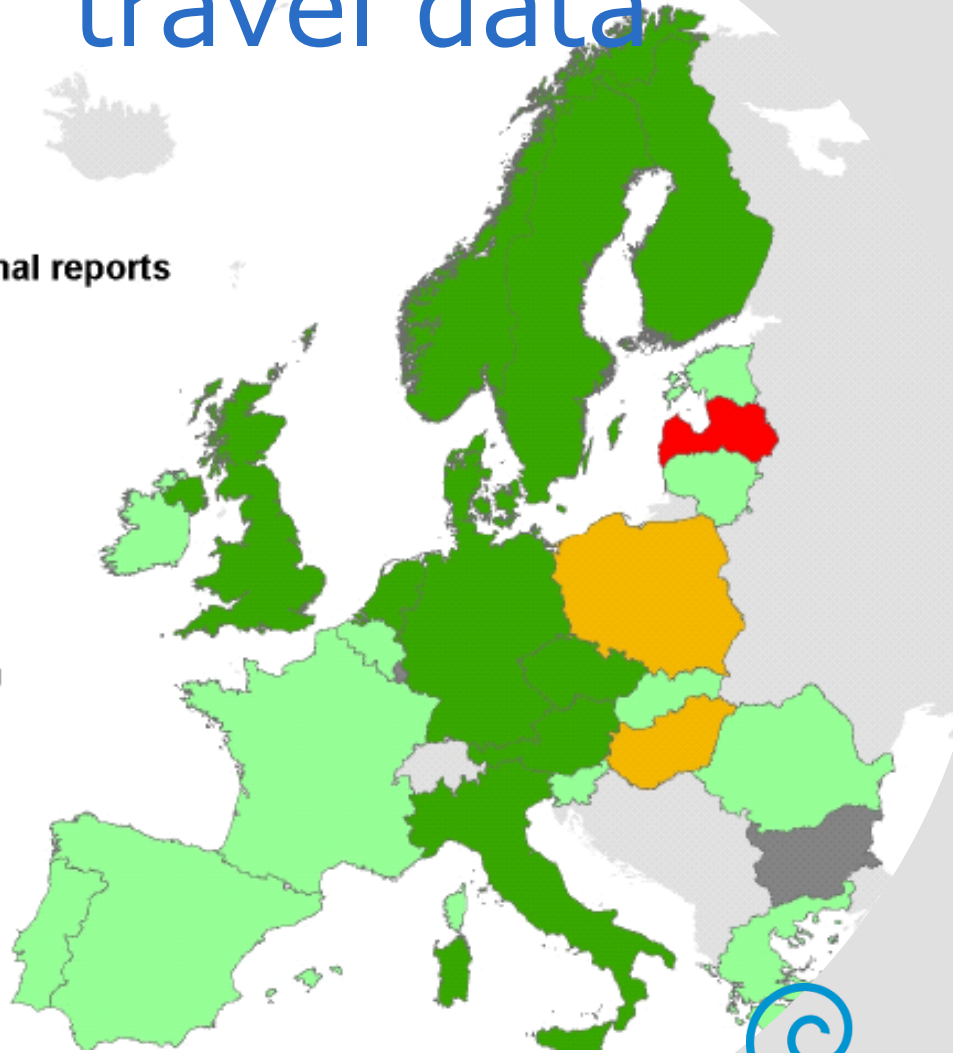
# ITS-Plan the Netherlands 2013-2017



# Optimal use of road, traffic and travel data

2011 - ITS national reports

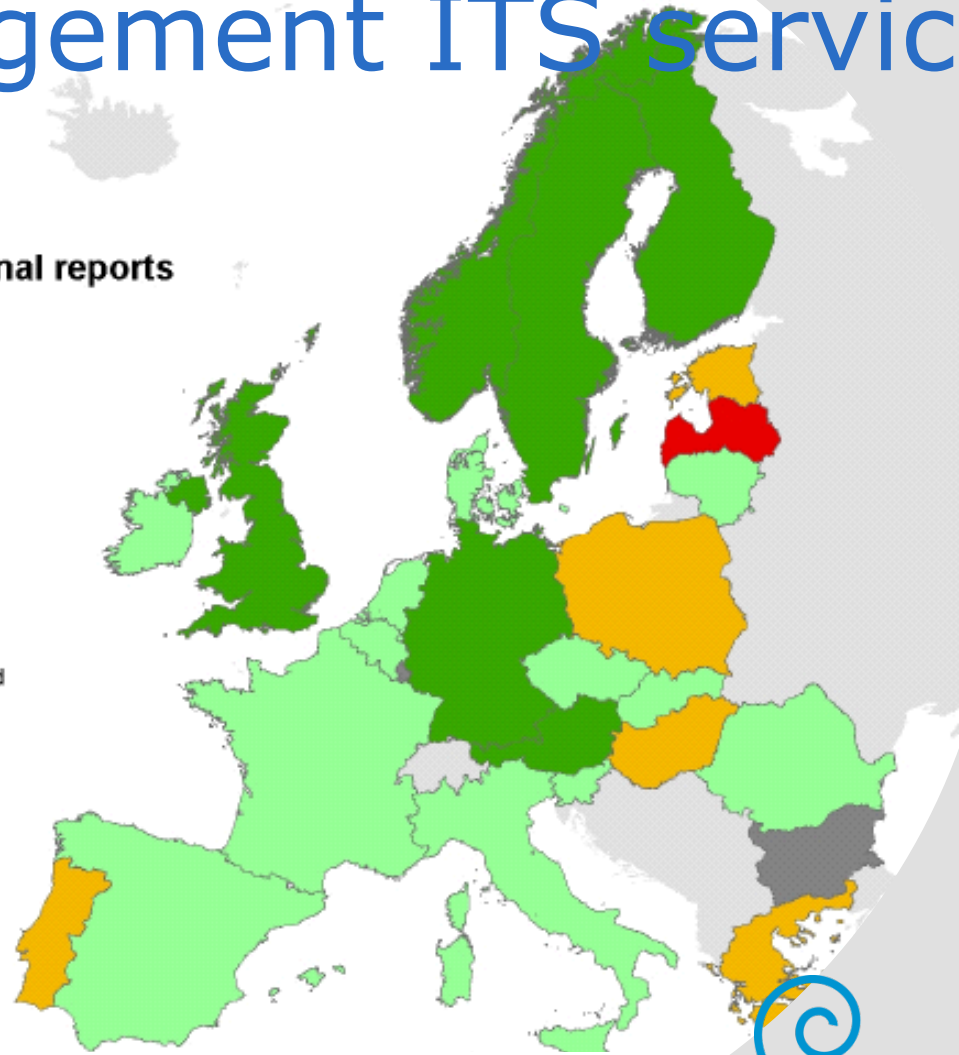
**Priority Area 1**



# Continuity of traffic and freight management ITS services

2011 - ITS national reports

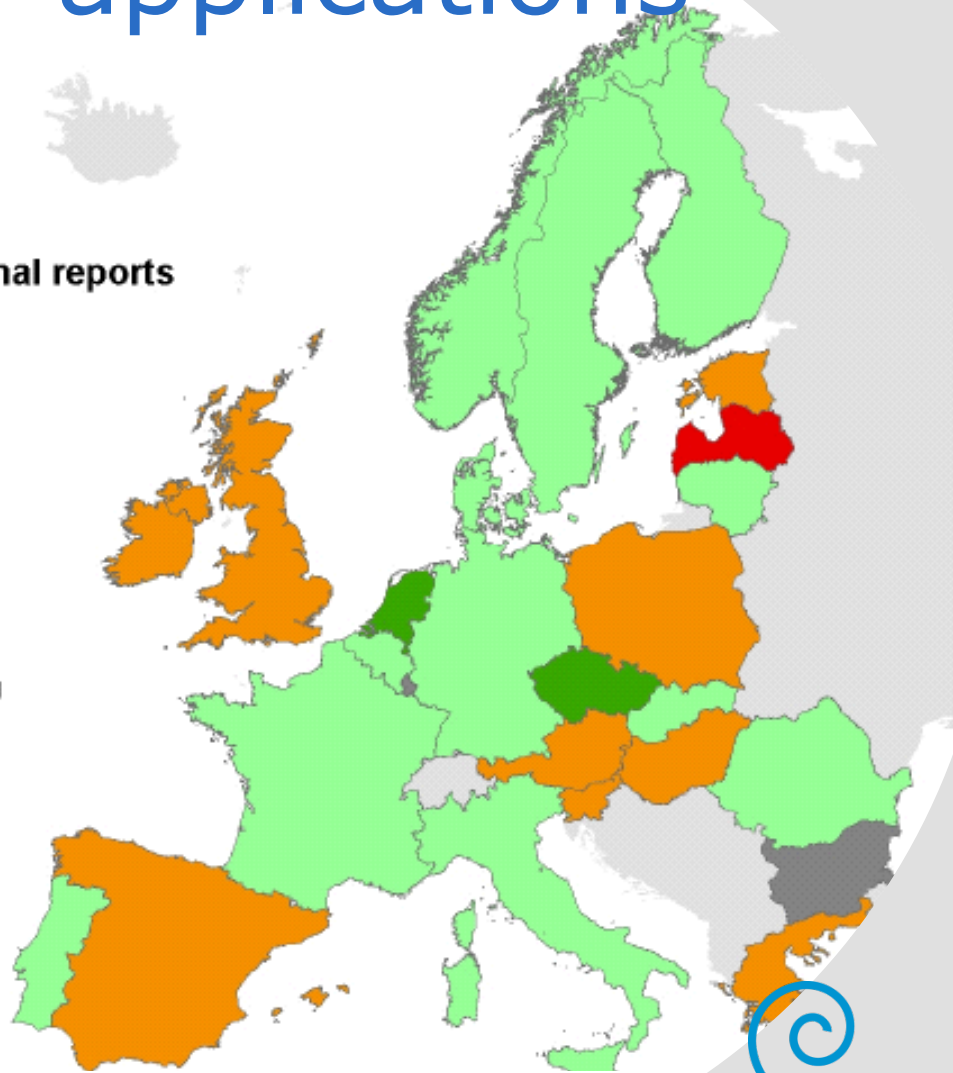
**Priority Area 2**



# ITS road safety and security applications

2011 - ITS national reports

**Priority Area 3**





# Linking the vehicle with the transport infrastructure

2011 - ITS national reports

**Priority Area 4**



# Linking the vehicle with the transport infrastructure

Vehicles are changing



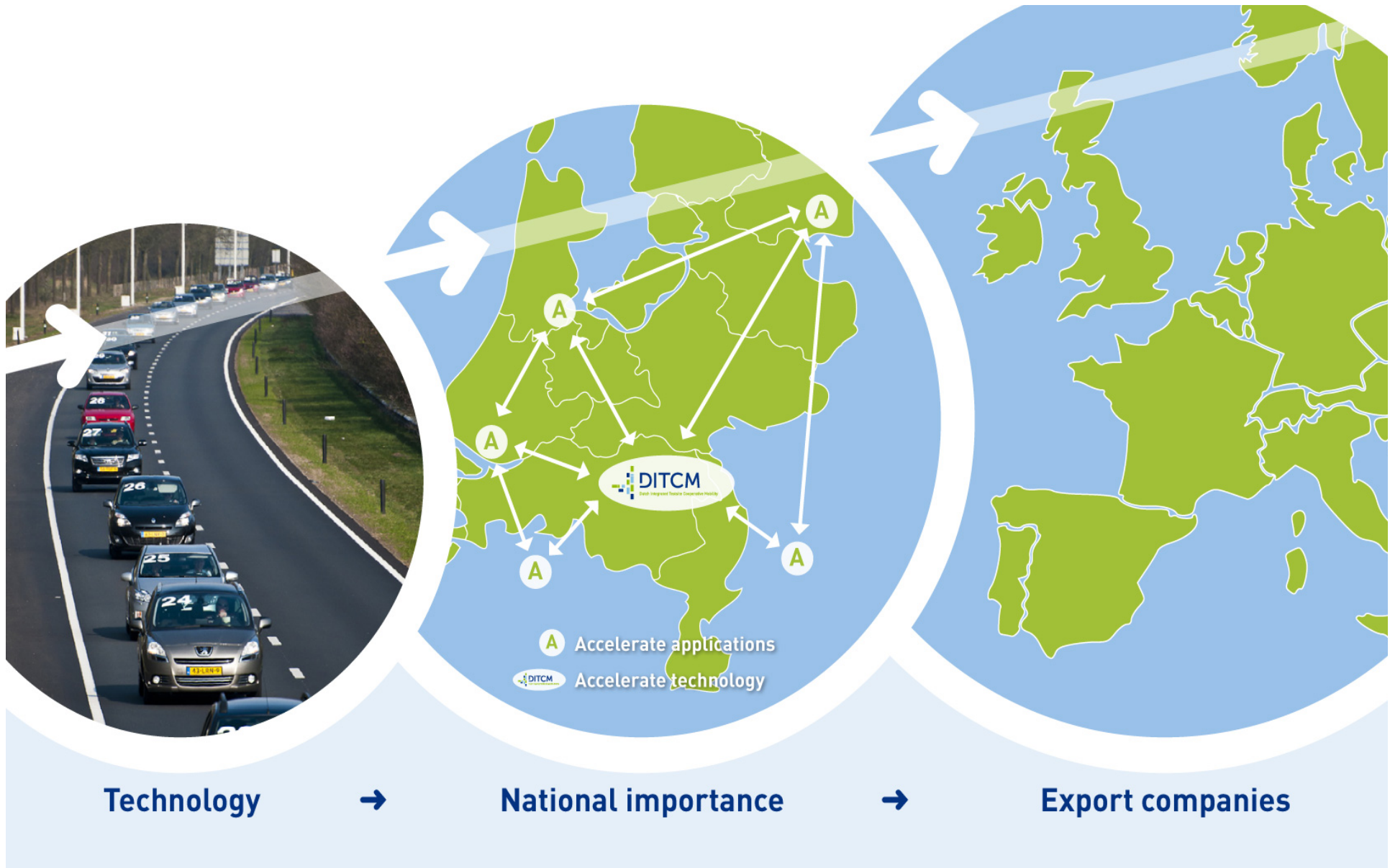
Road side is changing



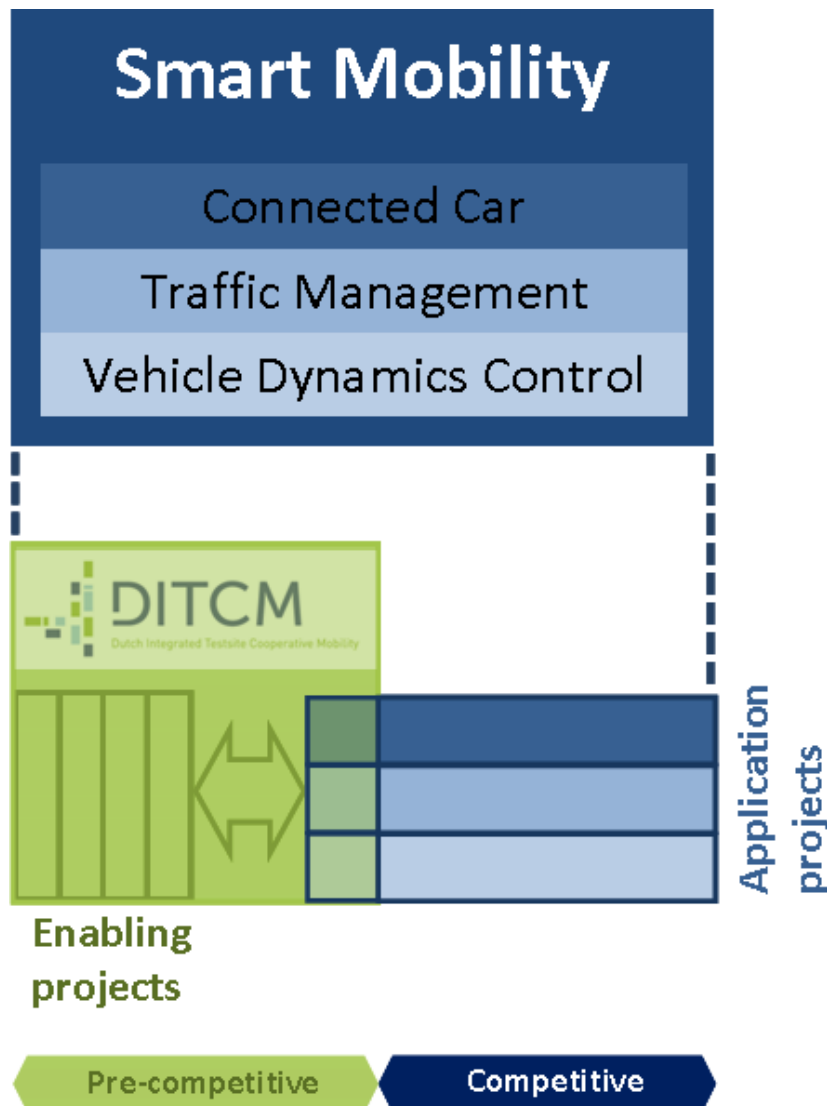
# Nursery for developments











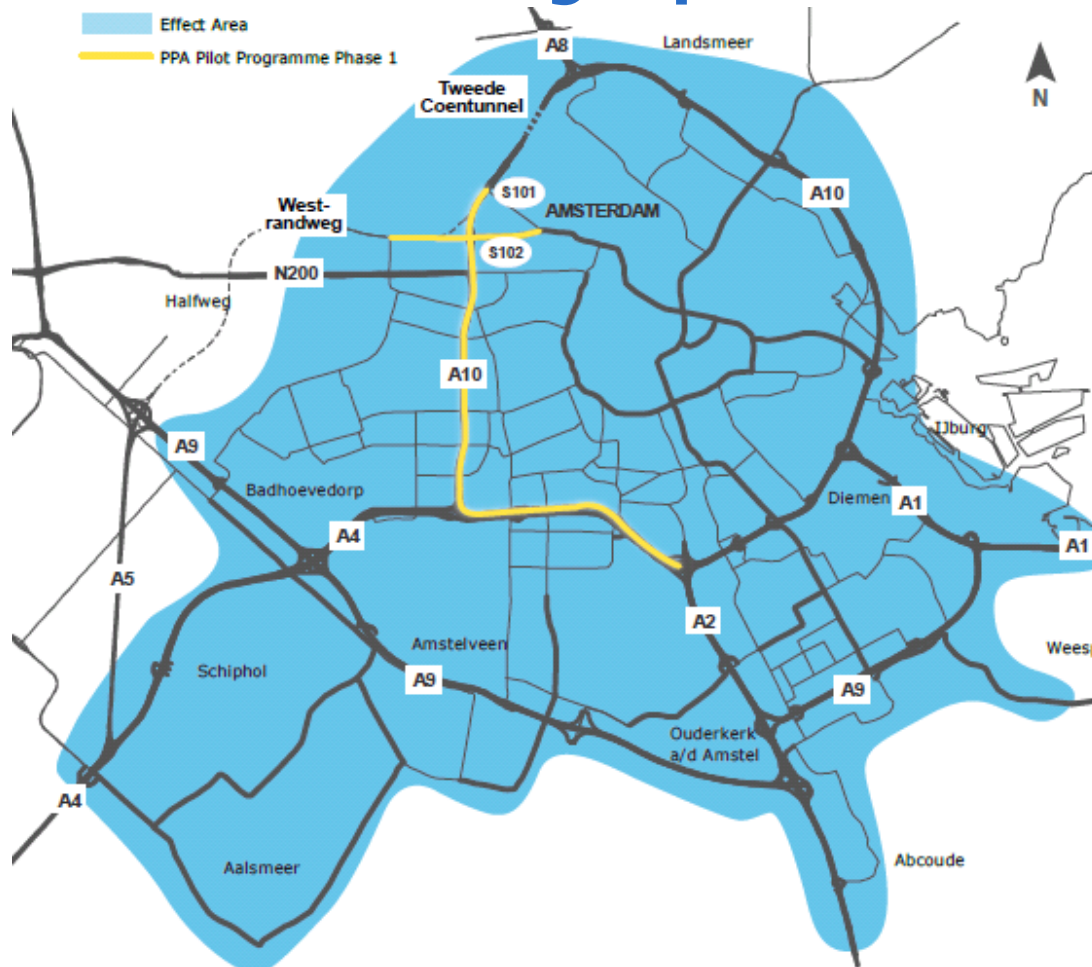
- Enabling projects
- SPITS, GCDC, Drive C2X, Freilot, Contrast, Smart in-car, ...







# Praktijkproef Amsterdam



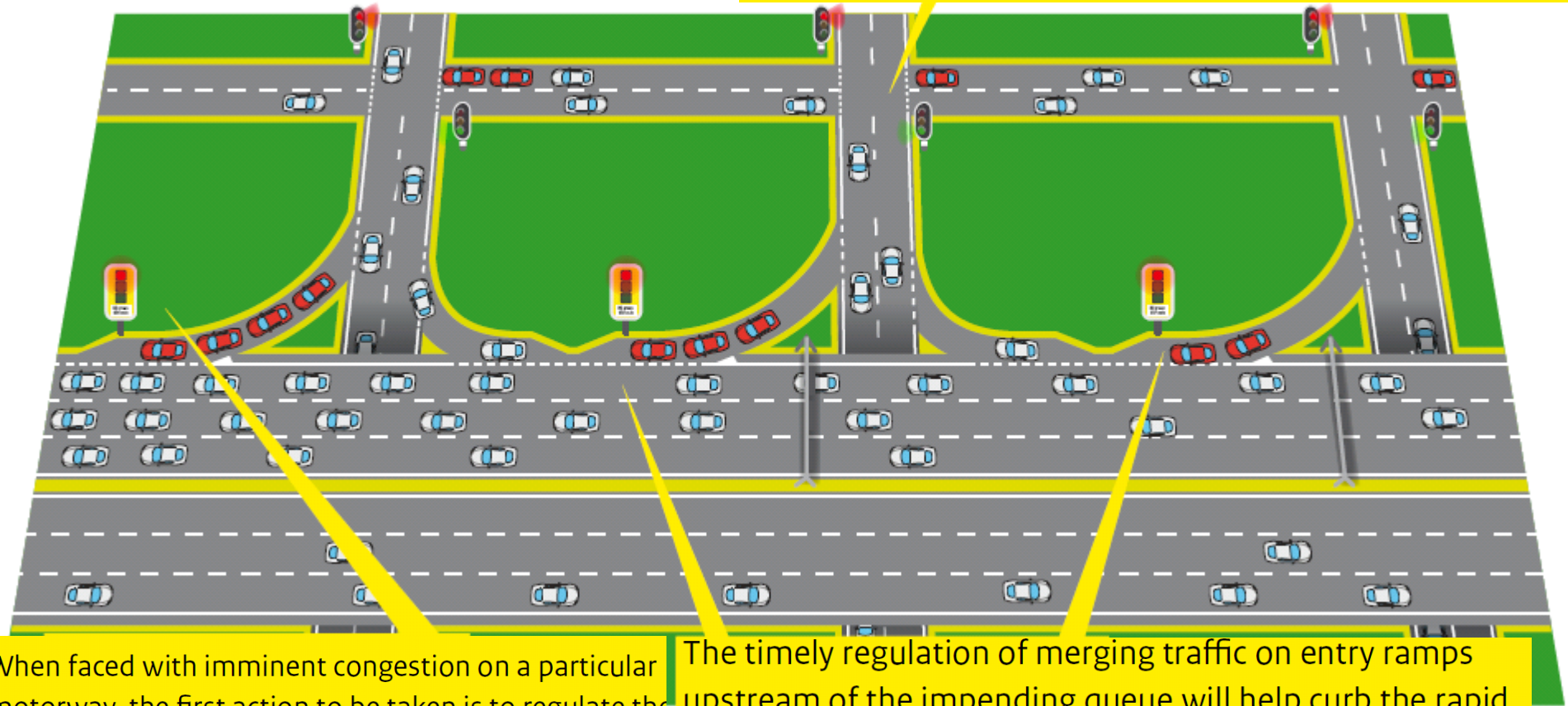
- Improving traffic circulation in the Amsterdam Region
- Step-by-step improvements
- Innovative travel with in-car information

Cooperation between road authorities and market parties



# Infrastructure

Coordinating the deployment of traffic lights on the urban road network will ensure a more equal distribution of heavy traffic across the entire urban road network. By doing so, priority will be given to the traffic circulation on the main roads.



When faced with imminent congestion on a particular motorway, the first action to be taken is to regulate the flow of traffic by switching on the entry ramp meters.

The timely regulation of merging traffic on entry ramps upstream of the impending queue will help curb the rapid growth of queues waiting at individual entry ramps. This method will enable the flow of traffic to the motorway to be regulated for a longer period of time without obstructing the traffic on the urban road network.

# Vehicle: smart in-car information

- Large scale test
- Reliable individual traffic information for motorist
- Positive and notable change on traffic flows and behaviour
- Integration between roadside and in-car
- Future proof





# DAVI

# Dutch Automated Vehicle Initiative

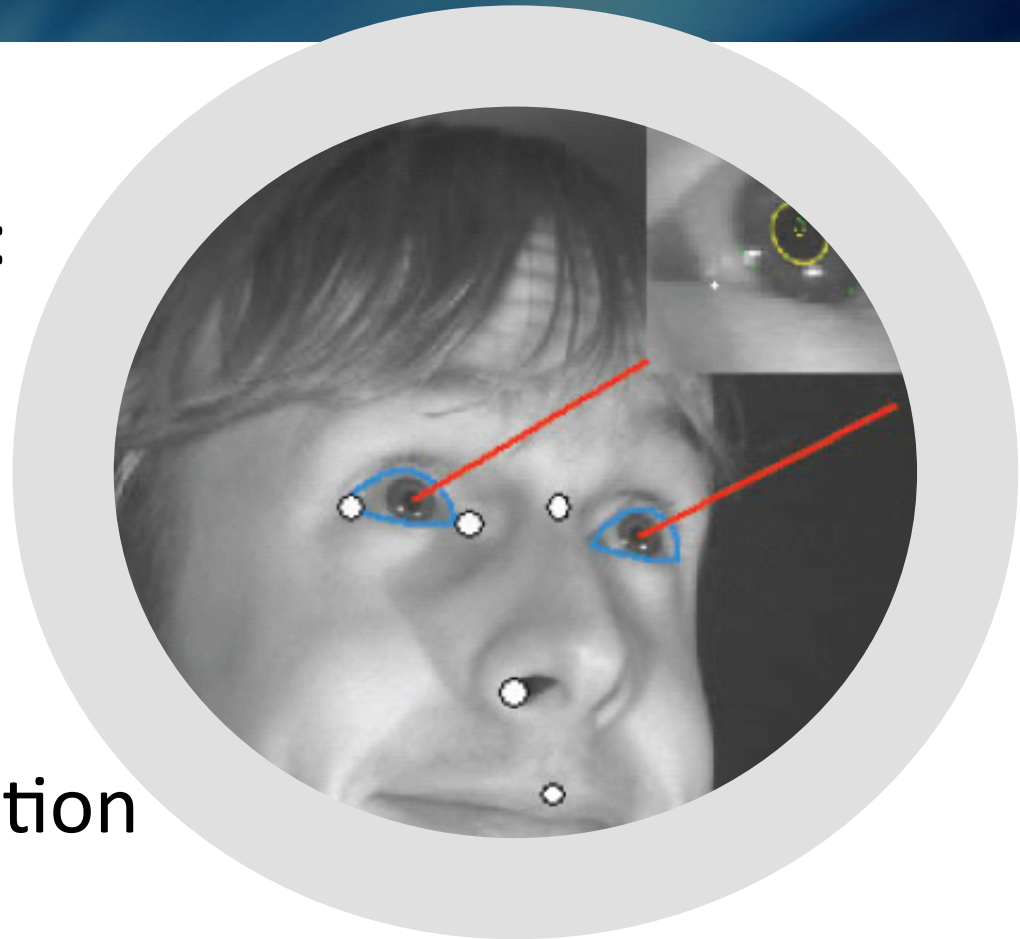
- Demonstrate automated cars on public roads
- Initiative by
  - TU Delft
  - RDW
  - Connekt





# DAVI | Dutch Automated Vehicle Initiative

- Vehicles equipped:
  - robot vision
  - V2I
  - V2V
- Public demonstration with minister





# Working on the basics



Public transport



Traffic management



Geo information



# Let's keep in contact

 devreeze@connekt.nl

 ConnektMarije



