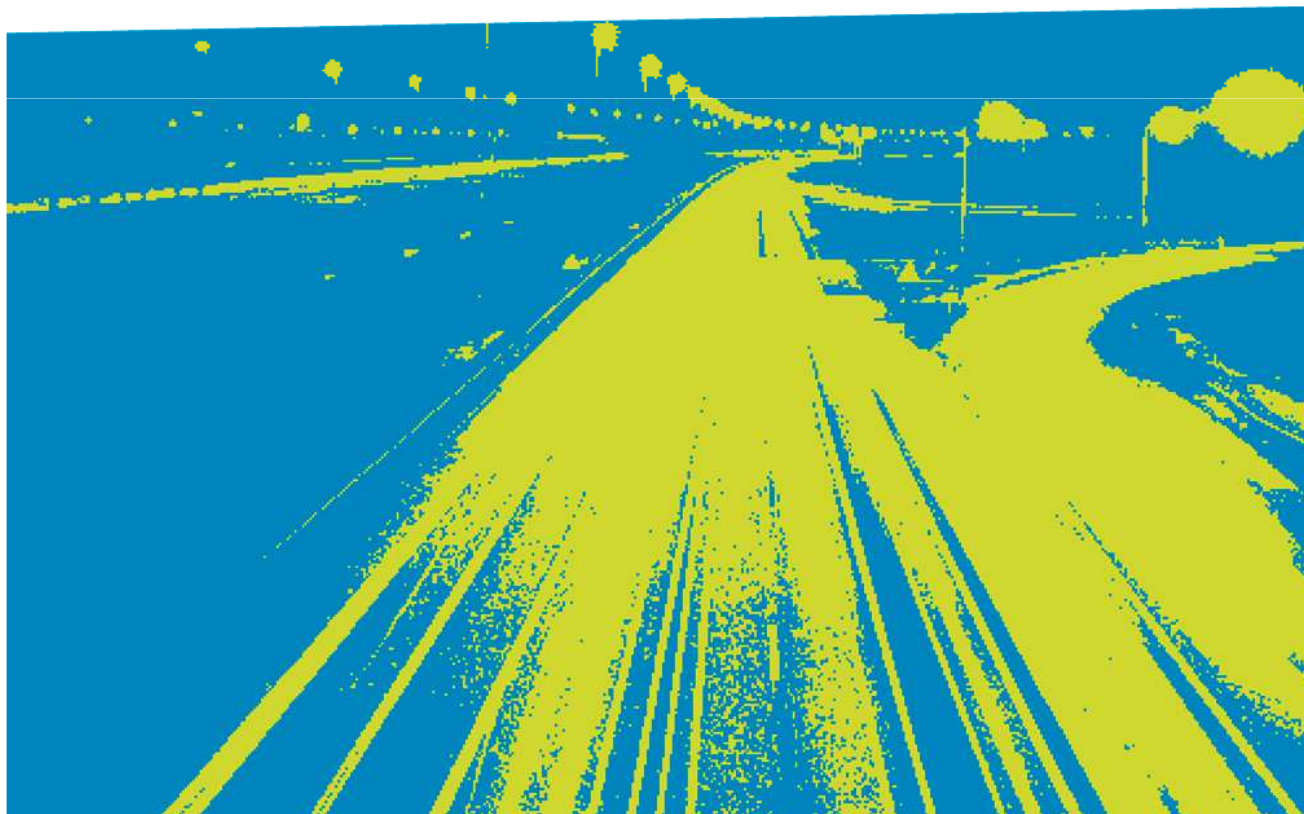# Traffic Management & Information

The Dutch Policy

Henk Taale – TrafficQuest, Rijkswaterstaat and Delft University of Technology

Future of traffic?

Dutch policy in 5 themes

- Innovation – New technologies are the responsibility of all stakeholders

- Information – Better information leads to better decisions

- Investment – Better return on investment

- Maintenance – Keep the existing infrastructure on the current level in an efficient way

- Spatial planning – Improvement of spatial planning decisions on a regional scale

Information

- Real-time travel information is important for better decisions
- A lot of information is already available, but more is possible
- Commercial opportunities
- Common goals and directions needed for government and market
- Program for better information provision for travellers
  - Road map
  - Realisation programs for government and market

Road map for travel information

- Contribute to the policy goals for accessibility, safety and sustainability

- Improve the service for the travellers

- Improve the efficiency and effectiveness of traffic management

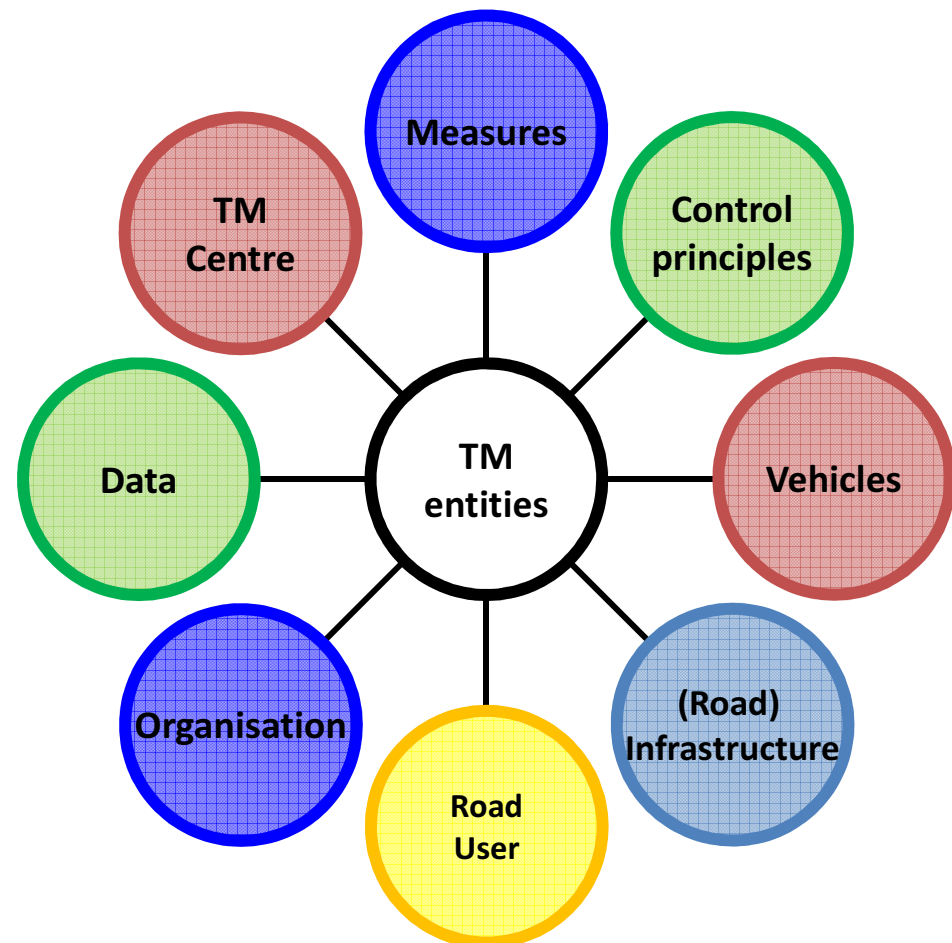- Strengthen the position of the Dutch traffic industry

How to get there?

- Facilitate road users – Integrate information
- Stimulate developments – Cooperation between service providers, road authorities and automotive
- Piloting – Coherent strategy from test to application
- Renew traffic management – pros and cons of cooperative systems
- Set the course – public-private cooperation
- Monitoring – Learning and draw conclusions
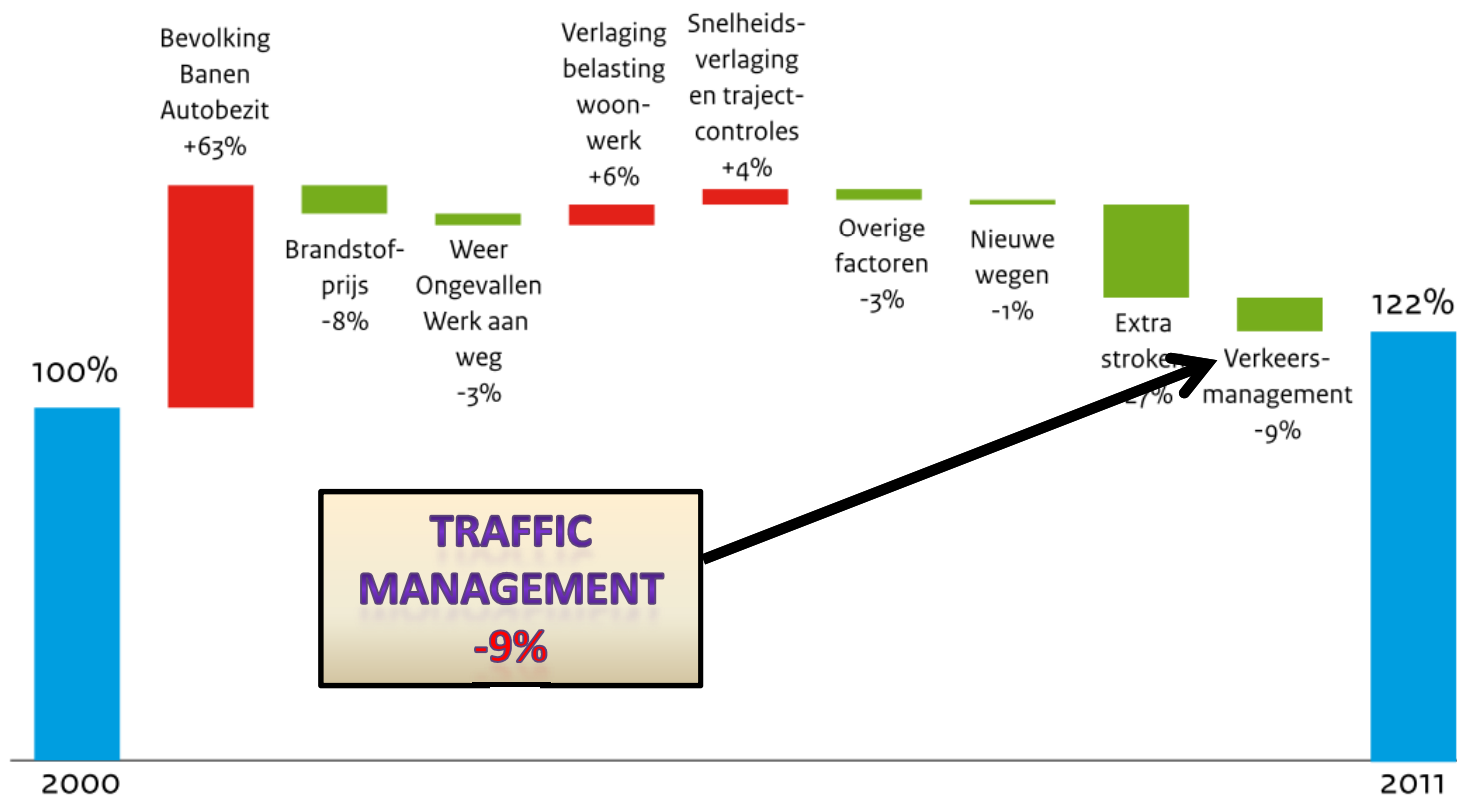
Traffic management program

Traffic management is about gearing the available capacity in a traffic network to the current traffic demand – taking location and time into account – using traffic control and traffic information measures.

Traffic management consists of 8 entities that, connected with each other, determine the complete traffic system.

Overall contribution traffic management

Trends for the future

Social	Economical	Technical
• Aging population • Flexibility in working • Information always and everywhere • From possession of a vehicle to access to mobility	• Door to door delivery • Growth of personal transport • Increase of public-private partnerships	• Rise of electrical transport • System controlling systems • Cooperative systems

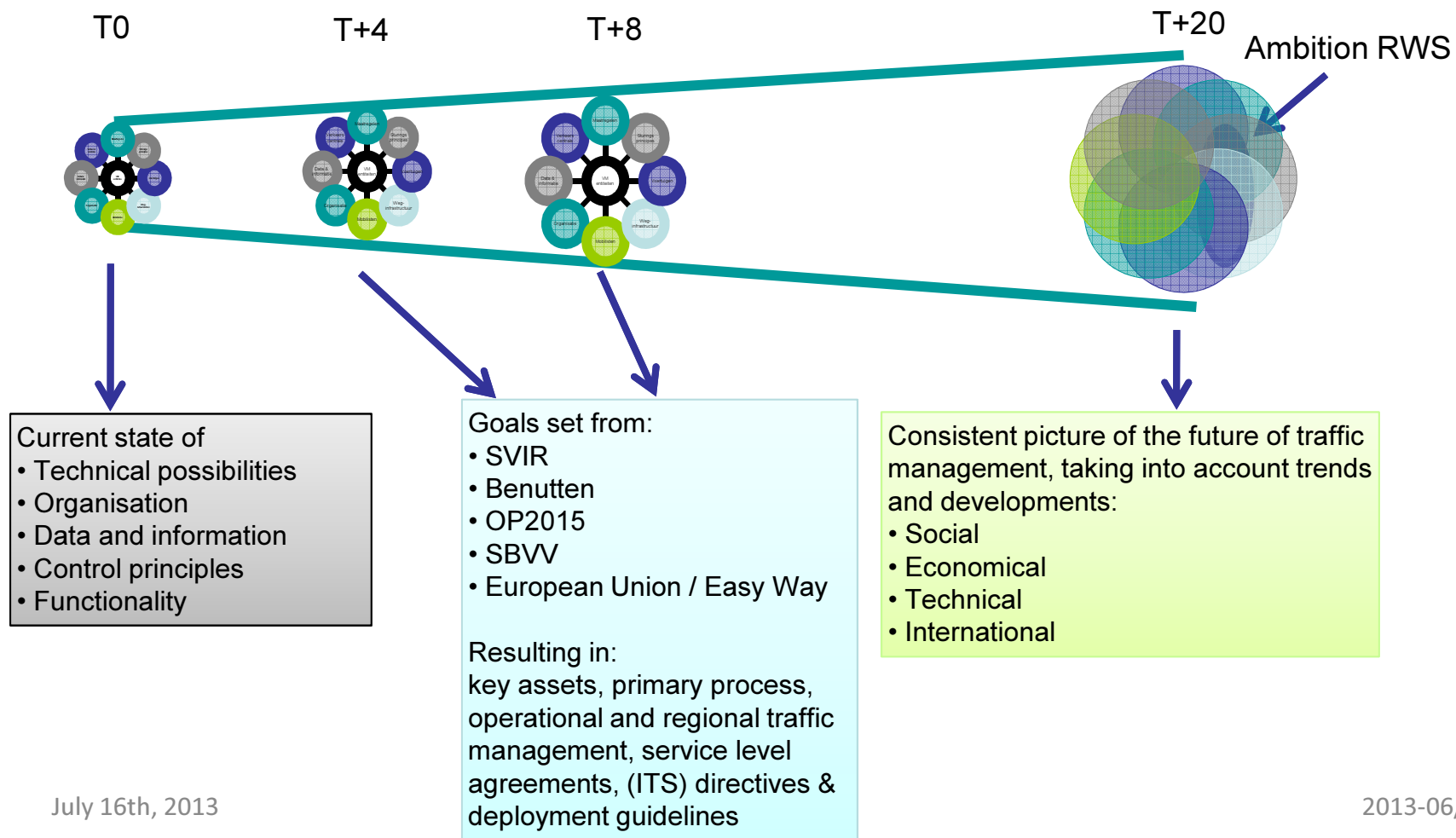**International context**: drastic cooperation and harmonisation

Sources: RWS Denktank, TrafficQuest State-of-the-Art, Structuurvisie Infra en Ruimte, Benutten, OP 2015, SBVV, EU Directives

Development strategy Dutch government

T0   T+4   T+8   T+20

Ambition RWS

Current state of
• Technical possibilities
• Organisation
• Data and information
• Control principles
• Functionality

Goals set from:
• SVIR
• Benutten
• OP2015
• SBVV
• European Union / Easy Way

Resulting in:
key assets, primary process, operational and regional traffic management, service level agreements, (ITS) directives & deployment guidelines

Consistent picture of the future of traffic management, taking into account trends and developments:
• Social
• Economical
• Technical
• International

Future of traffic management?

2012

T+20??

Turning points in the development of TM

Collective

Individual

Local

Network wide

react   anticipate

Influence of traffic management

Infra-related

Non-infra related

Public

Private

Realisation of traffic management

Traffic management in 2030

Network management

- Optimisation of the performance of the complete network
- Pro-active
- Performance requirements for the local level
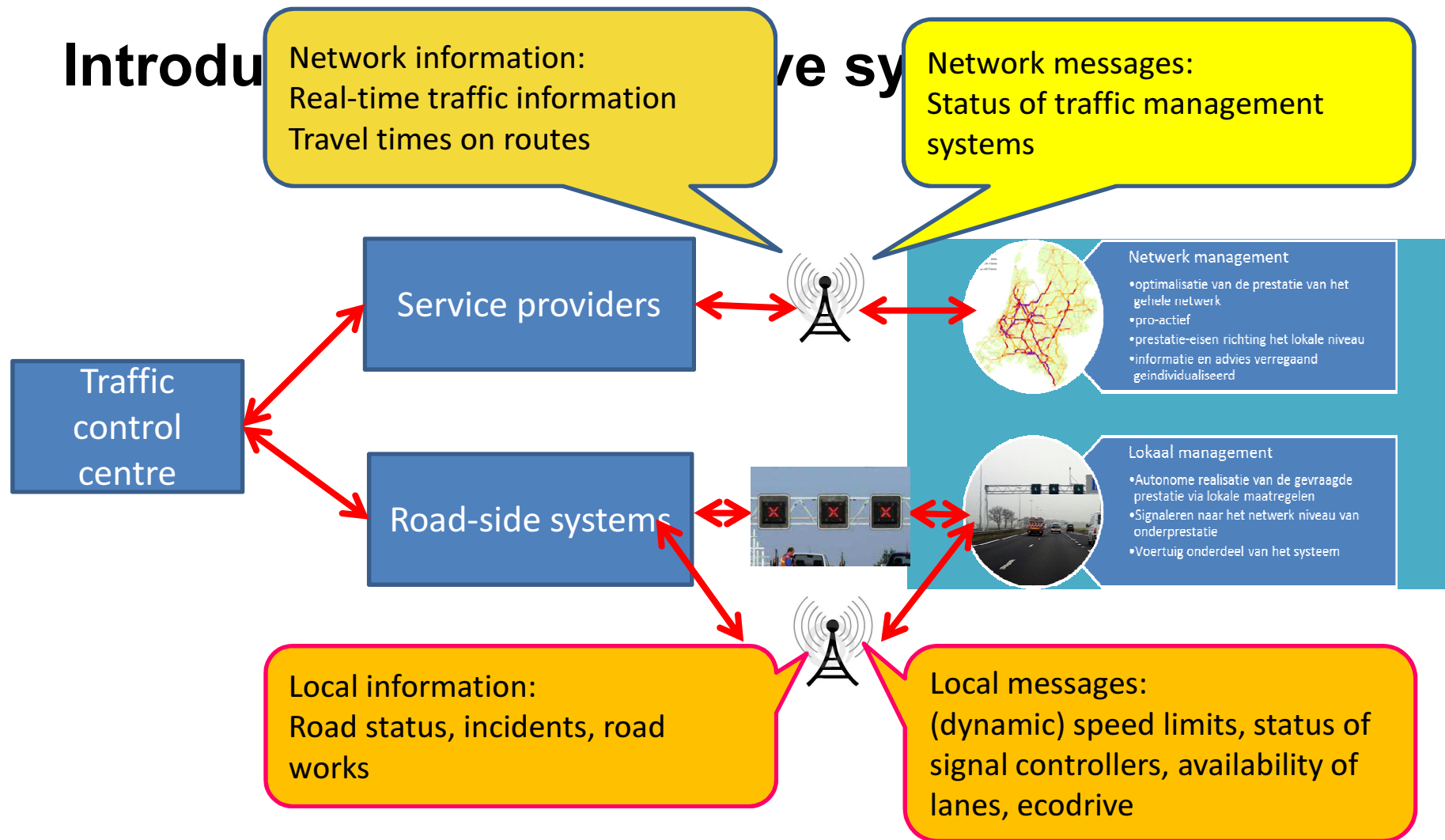- Information and advice on individual level

Local management

- Autonomous realisation of the demanded performance using local measures
- Detect bad performance and transfer to network level
- Vehicle is part of the system

Introdu... ve sy...

Network information:
Real-time traffic information
Travel times on routes

Network messages:
Status of traffic management systems

Service providers

Traffic control centre

Road-side systems

Netwerk management
- optimalisatie van de prestatie van het gehele netwerk
- pro-actief
- prestatie-eisen richting het lokale niveau
- informatie en advies verregaand geïndividualiseerd

Lokaal management
- Autonome realisatie van de gevraagde prestatie via lokale maatregelen
- Signaleren naar het netwerk niveau van onderprestatie
- Voertuig onderdeel van het systeem

Local information:
Road status, incidents, road works

Local messages:
(dynamic) speed limits, status of signal controllers, availability of lanes, ecodrive

Contact

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TrafficQuest is een samenwerkingsverband van