STAD: Spatial and Transport Impacts of Automated Driving (PPT)

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Bart van Arem

Border sessions, International Festival of Technology and society, 6-7 July 2016, The Hague

STAD: Spatial and Transport Impacts of Automated Driving

TU Delft

METROPOOLREGIO ROTTERDAM DEN HAAG

provincie ZUID HOLLAND

DAVI ONTHEROAD

TNO

SURF

Automated driving

Driver assistance/
Partial automation

Driver needs to be able to intervene at all times

Automated parking, autocruise

Conditional/ High automation

Vehicle in control in special conditions

Taxibots, platooning, automated highways

Comfort, efficiency, safety, costs

Mode choice, location choice, urban and transport planning

Policy relevance

- Congestion and accessibility
- Safety
- Travel patterns
- Freight transport
- Public transport
- Socio-economic development
- Urban design
- Spatial structure
- Investment policies

National, regional, city authorities, public transport operators, Multimodal hubs (ports, airports)

Automated cars can improve traffic efficiency and safety

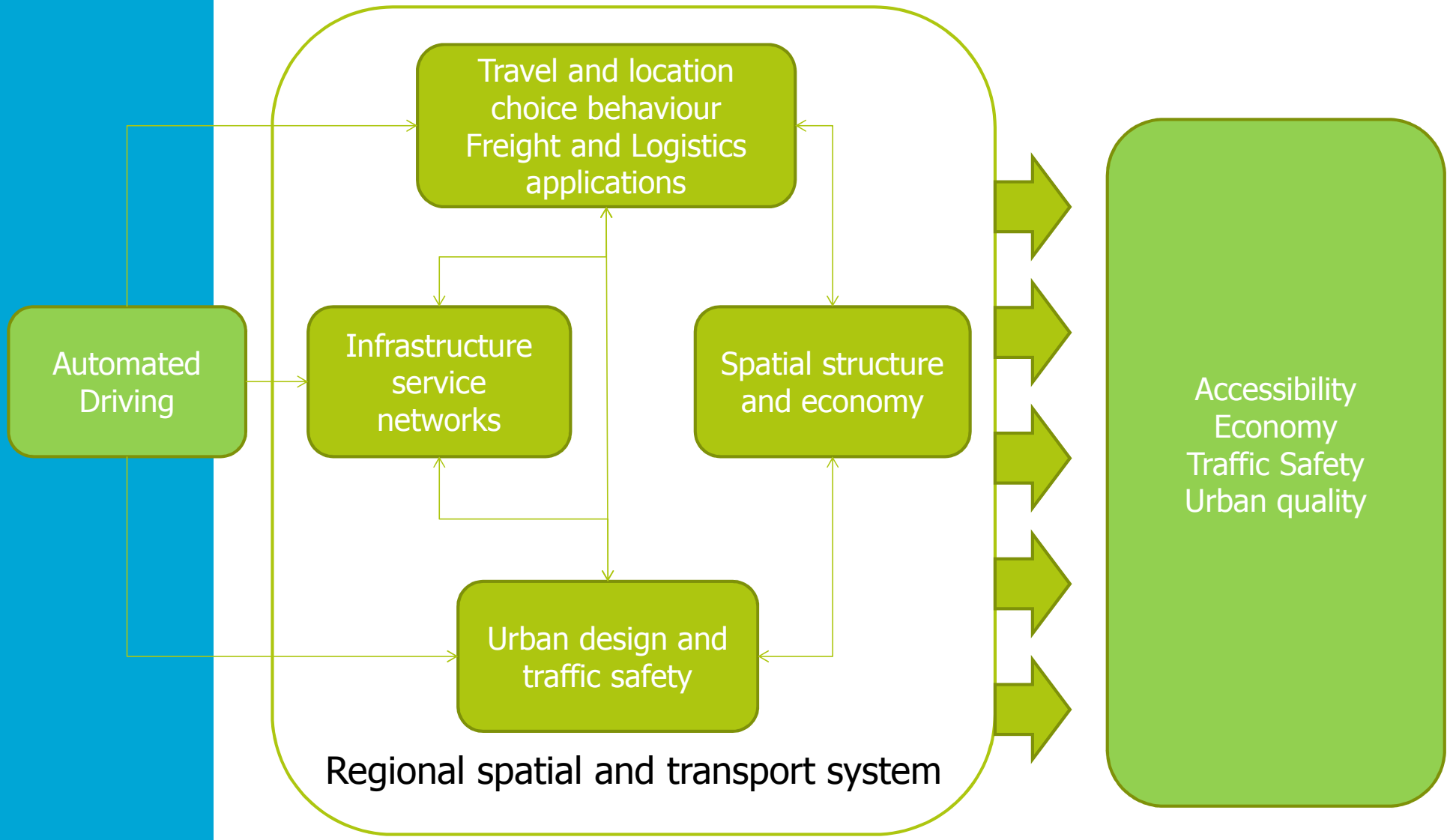
Netherlands to facilitate large scale testing of automated cars

Scientific challenges: understanding the spatial and transport changes

Automated Driving

Accessibility
Economy
Traffic Safety
Urban quality

Scientific challenges: understanding the spatial and transport changes



Application

Regional case studies: passenger cars, freight, public transport, parking

Spatial impacts, urban design, agglomeration

Business cases

Modelling tools, impacts, risks, benefits

Metropoolregio Rotterdam-The Hague
Province Zuid-Holland
Municipality of Amsterdam
Rotterdam The Hague Airport
Municipality of The Hague
Municipality of Rotterdam
AMS Advanced Metropoliton Solutions
SmartPort
SWOV Institute for Road Safety Research
RET NV
Mobycon
Province Gelderland
DTV Consultants
Connekt ITS Netherlands
Municipality of Delft
Rijkswaterstaat
KiM
CROW
Transdev-Connexxion
RDW
TNO
Goudappel Coffeng

Composing the team

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Reis- en locatiekeuzegedrag
1-8-2016, TUD-TBM

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Infrastructuur dienst netwerk
1-8-2016, TUD-CiTG

Pablo Núñez Velasco
Stedelijk ontwerp en verkeersveiligheid
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Ruimtelijke structuur
en economie
1-10 (?) - 2016, VU

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Transport and spatial model
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Case studies and
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Reanne Boersma, TUD-GiTG/HR

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Anirudh Kishore EUR-RSM

Stay tuned!

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Establish the automated driving network in the Netherlands

Dissemination tools

- Risk assessment and business case tools
- Workshop sessions, CoP by practical partners with interested parties

External activities

- Yearly STAD event combined with possible pilots
- Newsletters & website for interested parties

Internal STAD activities

- 3 monthly sessions for and by the consortium
- Alignment of practical and academic partners