

Dutch Integrated Testsite Cooperative Mobility - DITCM -

*Joining forces
for an unique innovation environment
on cooperative mobility*



DITCM is about

- ... collaboration on cooperative mobility
- ... acceleration of new mobility concepts
- ... solving mobility problems
 - ✓ Better use of existing infrastructure
 - ✓ Improving traffic flow
 - ✓ Increasing road safety
 - ✓ Improving air quality
 - ✓ Upgrading comfort





Why Cooperative Systems?

- Strong and efficient solution for improving traffic flow, for increasing safety, decreasing emissions and making driving more comfortable.

Why is it difficult?

- System requires collaboration between different disciplines. Different products, different disciplines, different life cycle times, different cultures.
- Implementation requires extensive investigation on functionality and effects in an integrated environment over the total chain from concept to deployment.

DITCM partnership



1. DITCM Partners believe in **cooperative technology** as a **strong and efficient solution for mobility problems** and that this kind of technology will become very fast.
2. DITCM Partners believes that in the Netherlands we have a strong position and they have the **ambition to be number 1 in Europe** regarding **development and testing** of cooperative products and services.
3. For excellent and efficient development, collaboration is needed: **shared facilities** and **shared roadmap**.

Cooperation...

- ... over system boundaries: in-car, roadside units, back-offices
- ... over the development chain
- ... in the tripe helix: industry, knowledge, government



Unique cooperation in the triple helix



Fontys Automotive

TU Delft

TU/e Technische Universiteit Eindhoven University of Technology

NHTV internationaal hoger onderwijs Breda

TNO innovation for life

Rijkswaterstaat Ministerie van Infrastructuur en Milieu

SRE Samenwerkingsverband Regio Eindhoven

Brainport Development

Gemeente Helmond

TomTom

Vialis Technolution

HTAS AUTOMOTIVE INNOVATION

Provincie Noord-Brabant

logica

NXP

DAF

Beter Bereikbaar Zuidoost-Brabant

NAVTEQ

IBM

PEEK traffic solutions

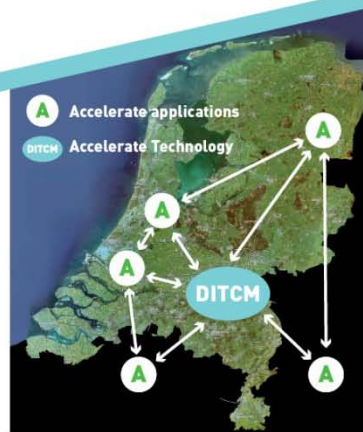
HighTechAutomotiveCampus.nl

Faster, safer and cleaner traffic by unique cooperation

Start in Brainport region, European context



Technology



National Importance

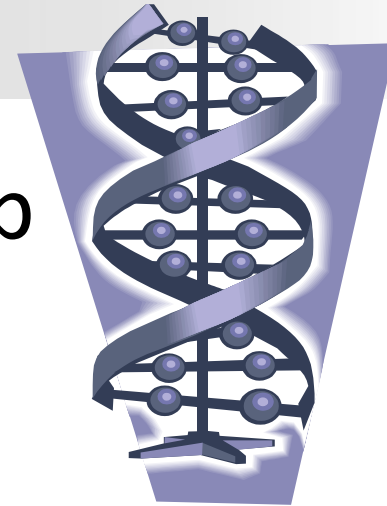


Export Companies

Link between technology and export product

The DITCM vision:

- Shared Vision and Roadmap
- Shared Facilities



► Towards a cleaner, faster, safer and more comfortable traffic!

1) Roadmap



Programm lines:

- P1 The human factors in using cooperative systems
- P2 Development Environment for cooperative systems
- P3 Effect Studies

1) The Dutch Roadmap on cooperative mobility

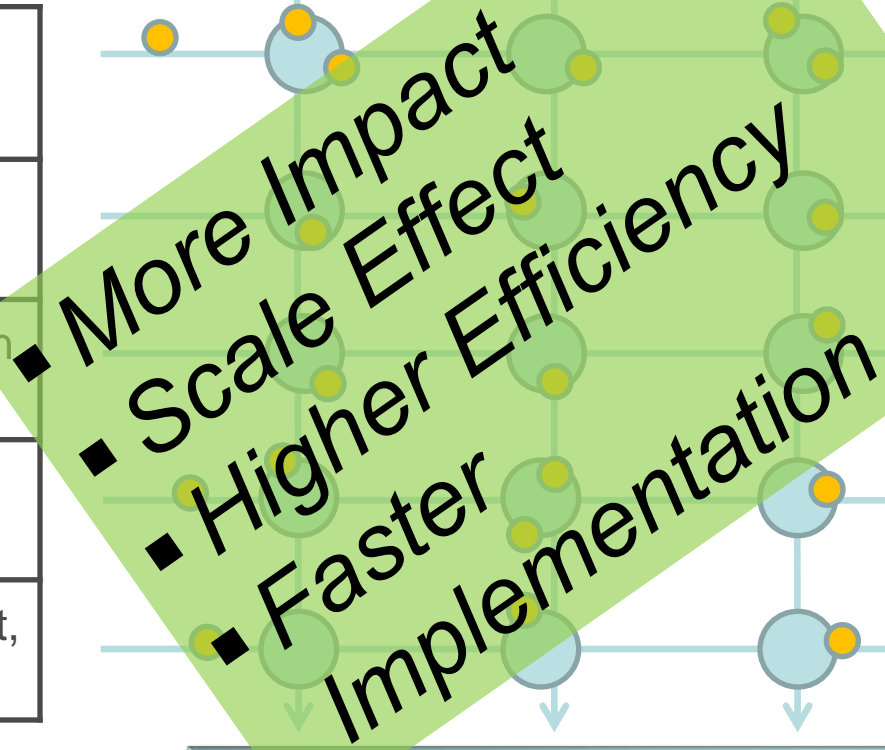


Programm Lines

P1 Human factor	P2 Development environment	P3 Effect Studies
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Lead) Applications

in-vehicle signage
floating car data
local hazard detection and warning
intersection safety / green wave
logistics and transport, the green corridor



Lead applications: from concept to development:
 Σ = more then individual projects

Yield Programm lines
 Σ = more then individual projects

 Projects within DITCM
 Use of DITCM Labs

2) Facilities



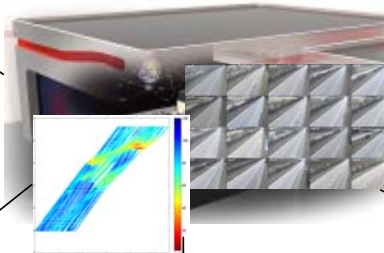
Hardware in the Loop



Simulation environments



Other test areas



DITCM Data center



Closed Tracks



Movable Road Site Units



Real roads

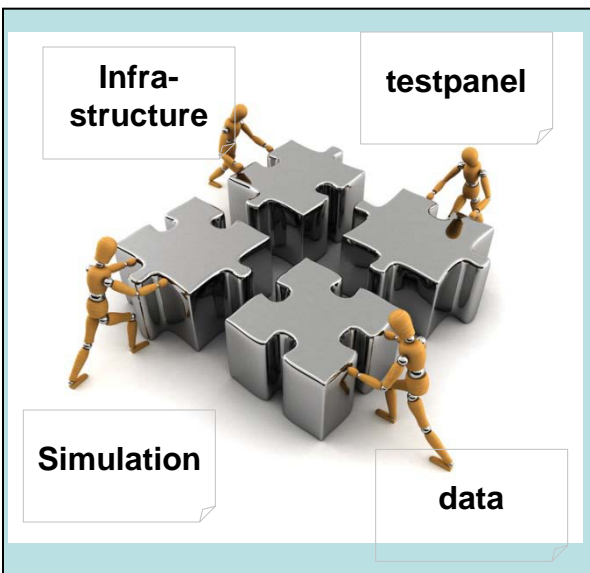
Organization



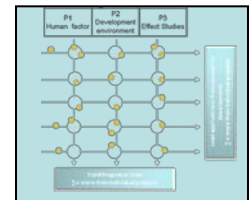
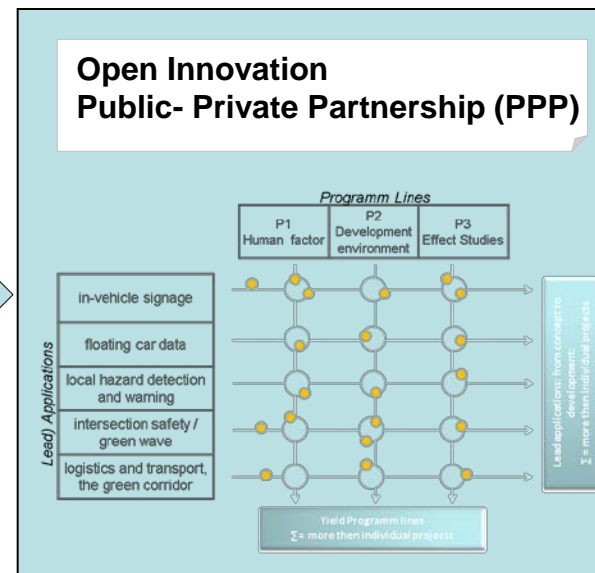
New building blocks for integrated facilities
(also usable for external parties/ projects)



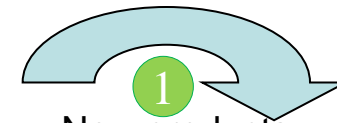
DITCM Facilities b.v.



DITCM Innovation



New projects
(acc roadmap)



New products,
applications,
services

➤ Towards a cleaner, faster, safer and more comfortable traffic!

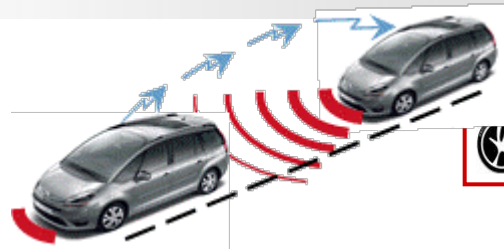


Progress

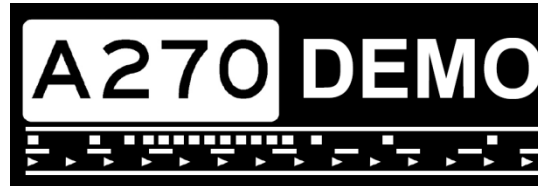
- L.O.I. 15 may 2011: feasibility & concept-businessplan: *'The DITCM Principles'*
- June – sept: detailing program lines and lead applications: projects, targets & resources
- Sept – dec: contracts, institutionalizing DITCM
- Beginning 2012: start DITCM organisation & start new projects

Examples 2011 on testsite

- Connect & Drive



- SPITS shockwave



- GCDC



- ETSI plugtest nov 2011



- *More to come in 2012!*



More Information

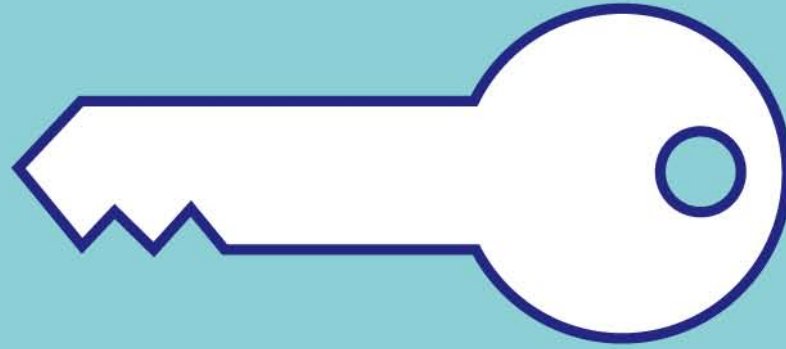
DITCM Projectmanagement

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DUTCH INTEGRATED TESTSITE COOPERATIVE MOBILITY

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**Key to
mobility solutions**