Management of transportation systems
A short review of German research initiatives
DEUFRAKO Seminar Dresden, 17.10.2008

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www.tuvpt.de
Management of transportation systems

Content and structure of presented project-examples

- Data models and protocols
- Data collection
- Data Fusion, data compilation
- Strategies for traffic management
- Traffic control systems
- Road safety
- Quality management
- Mobility for the 21. century
Management of transportation systems

- **Project “Do-IT” – Floating Phone Data**

- Data models and protocols
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- Route choice
- OD matrices
- Traffic state

- Project “Do-IT” – Applications
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- Project “OCIT instations” or newly renamed “OTS – Open Traffic System”
  - Data models and protocols
  - Data collection
  - Data Fusion, data compilation
  - Strategies for traffic management
  - Traffic control systems
  - Road safety
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- Initiative “Traffic Management 2010 (VN2010)”
  - Data models and protocols
  - Data collection
  - Data Fusion, data compilation
  - Strategies for traffic management
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- **Initiative VM 2010**
  - Focal point: Improvement of strategies, technologies and organisation for future traffic management in cities
  - Regional approach for traffic management
  - Demonstration and evaluation of new strategies and systems
  - 7 project consortia, 40 Mio. EUR costs, 25 Mio. EUR funding
  - Documentation: final conference in Mai 2008 in Halle

- [www.vm2010.de](http://www.vm2010.de)
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Initiative “aktiv”

- Data models and protocols
- Data collection
- Data Fusion, data compilation
- Strategies for traffic management
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Initiative “aktiv”

- „Adaptive and cooperative technologies for the intelligent traffic“
- Focal point: Development for the cooperative configuration of road traffic via new applications for driver assistance, active safety and traffic management
- 29 Partner from car manufacturers, suppliers, research and road operators,
- ca. 60 Mio. EUR costs, 25 Mio. EUR funding
- Successful mid-term presentation at 25th of June 2008 bei der BASt
- www.aktiv-online.org
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- aktiv traffic management: Efficient cooperation via target-oriented communication
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Aktiv CoCar: Use of GSM / UMTS mobile communication

UMTS Network operator  CoCar-Service application  Traffic information center
aktiv safety: attentive assistance systems support the driver

- Active emergency braking
- Intersection assistance
- Integrated transverse control
- Driving safety and attention
- Safety for vulnerable road users
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Initiative “SIM-TD”

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- Initiative SIM-TD
  - „Safe and intelligent mobility - test field Germany“
  - Cross bounded communication (V2I und V2V) between ca. 400 vehicles und infrastructure installations on WLAN und UMTS basis in the Hessian test-field (Hessen)
  - Goal: significant improvement of traffic flow and safety with the use of new communication based ADAS and traffic information
  - 20 partners from car manufacturers, suppliers, research und road operators; 3 funding ministries, started in September 2008
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- SIM-TD Challenges: applications based on V2I and V2V communication
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▶ Thank you for your attention!

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▶ Graphs and pictures with support of the funded projects