



# Reflections on Cooperative Urban Applications *Truly cooperative*



Jaap Vreeswijk, Peek Traffic bv

16<sup>th</sup> World Congress on ITS, Stockholm

25<sup>th</sup> September 2009





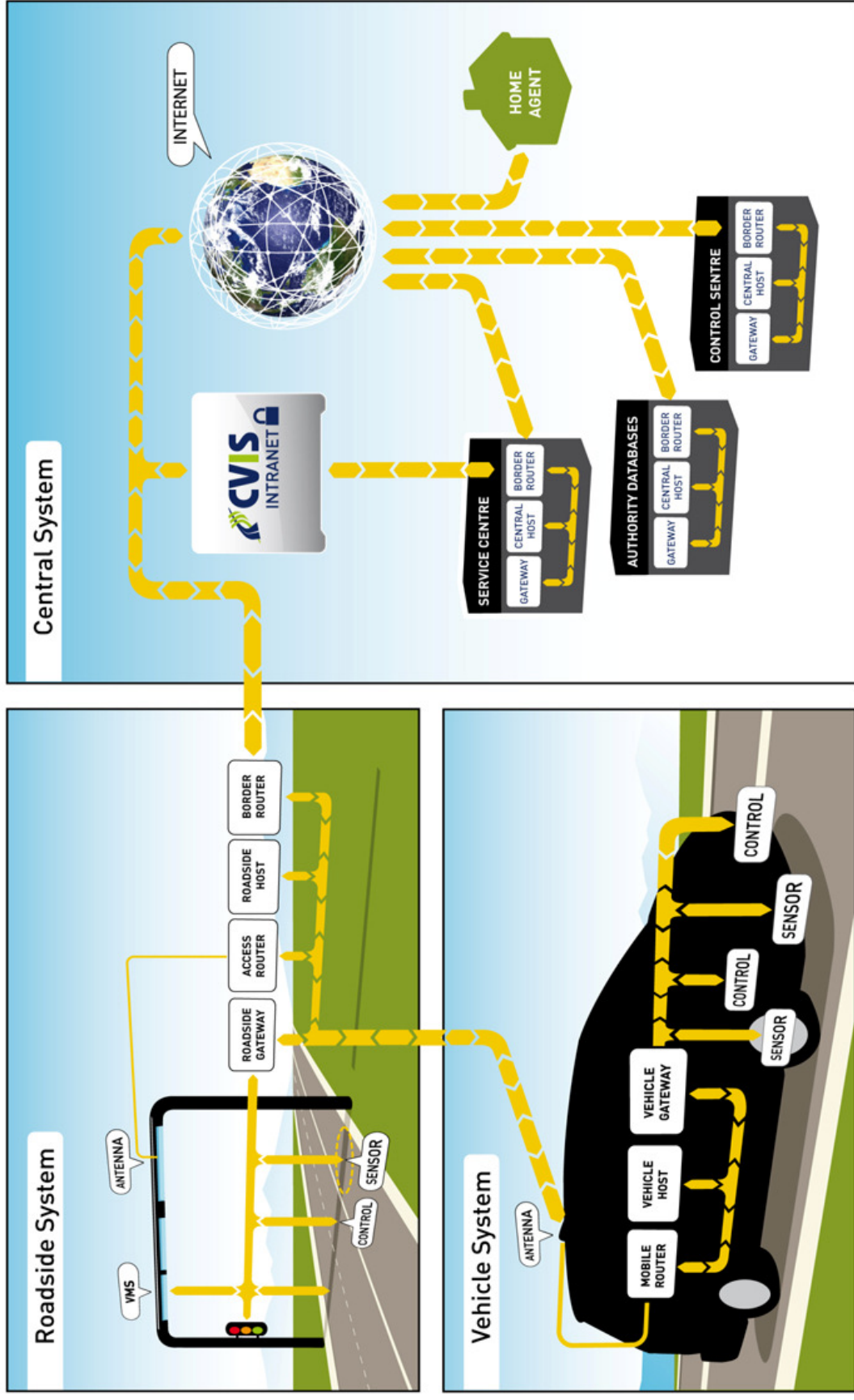
# CVIS Project

Increase efficiency and safety through V2V and V2I cooperation enabled by:

- an open architecture and an universal platform prototype
- a wireless network amongst vehicles & infrastructure
- a framework for application managing
- enhanced positioning and mapping solutions
- cooperative data management and sharing
- innovative cooperative applications



# Technologies





# Urban & Test Sites

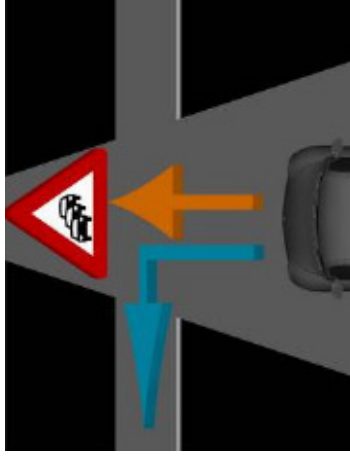
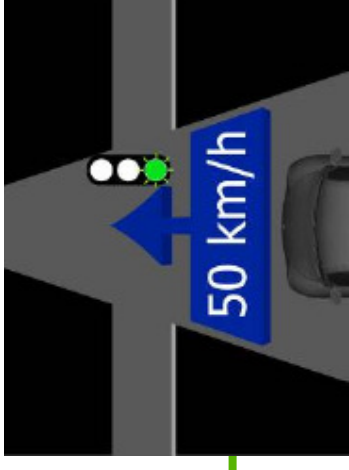
- Cooperative Urban Applications
  - Local Traffic Control
  - Traffic Management
  - Public Transport
- Test sites
  - Netherlands-Belgium, Germany, Sweden, Italy, France and United Kingdom
  - 20+ locations: test, demonstrate, evaluate





# Applications

- Priority Application
- Speed Profile
- Traffic Control Assessment
- Information Application
- Routing Application
- Strategic Routing Application
- Micro-Routing
- Flexible Bus Lane Application

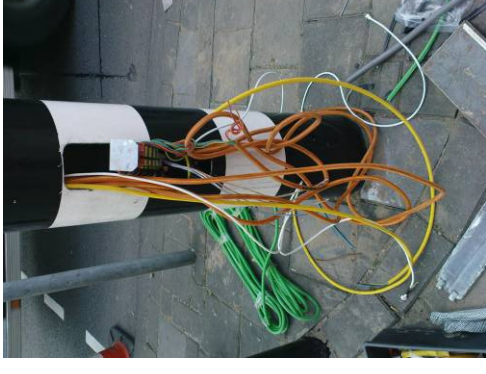




## On the road – test results

- Truly cooperative
- 9 applications successfully implemented
- CVIS-SAFESPOT interoperability
- 30+ meter communication range on 5.9GHz
- Roadside gateway operational
- Geographical processes challenging

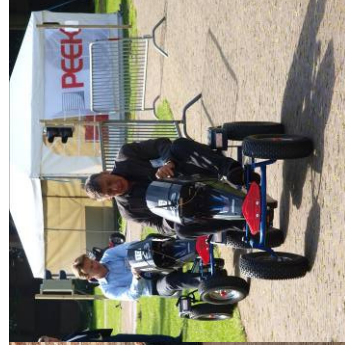
- Larger scale tests
- Make systems mature





# On the road – demonstrations

- Observation: on the right way!
  - A lot of (positive) media attention
  - Much enthusiasm and positivism
  - Eagerness to look and feel
  - Intrigued by the demonstrations
  - Willingness to accept and adopt
  - Active participation in discussion
  - Agreement on barriers and opportunities





## There is always a 'but'

- Reluctance with regard to accuracy, reliability and effectiveness of systems.
- Market pull required for last step to large scale deployment.
- Stop development of hundreds of services and applications, focus on needs and priorities.
- True cooperation through active participation of end-users (e.g. local authorities and fleet operators)





Dare to act!



[www.cvisproject.org](http://www.cvisproject.org)

[jaap.vreeswijk@peektraffic.nl](mailto:jaap.vreeswijk@peektraffic.nl)

