

SINTEF ICT Position Paper

1. Use cases and scenarios

- Real-time information exchange
 - The intelligent cargo concept
 - Co-modal transport chains
 - Integrating traffic and freight management
- Cooperative Systems
 - V2X communication
 - Urban traffic management of individual vehicles
 - Urban freight distribution

2./3. Internet functionality

- IPv6 - global reachability of cargo and vehicles
- Mobility (e.g. NEMO) and QoS support
- Distributed and remote application management
- Improved positioning

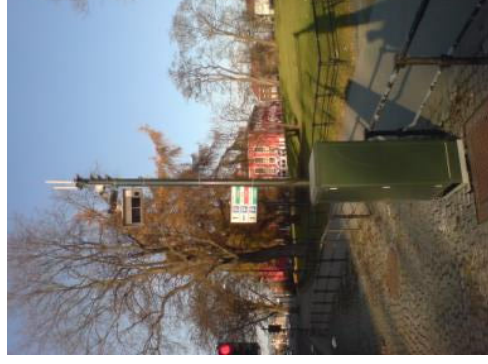
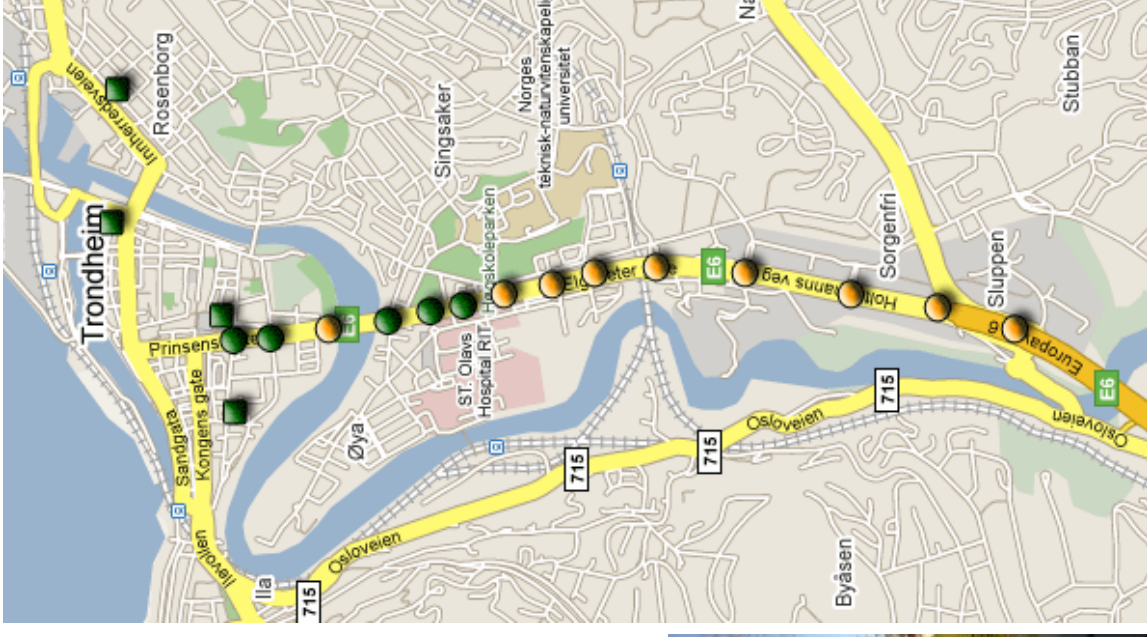
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4. Experimentation environment

- Test Site Norway (Trondheim)
 - Instrumented roads in an urban environment
 - 14 fiber connected roadside units (RSUs) leading into the city centre
 - CVIS software
 - Instrumented vehicles with CALM communic.
 - Multi-modality (road, rail and short sea)

- Deployed ITS Services
 - Real travel time monitoring
 - Que warning system
 - Weather monitoring
 - Heavy vehicle control

<http://www.item.ntnu.no/tsn/>



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5. SINTEF in FI-PPP, the Transport Usage Area

- A.** Specification of requirements, frameworks and services
- The ARKTRANS framework for the transport sector
 - Roles, functions, processes, and information
 - Towards a common European framework for freight transport and logistics
- B.** Coordinate trial activities in Test Site Norway
- Close cooperation with industry, research and authorities



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