CVIS1.1 enabling Cooperative Mobility Services

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CVIS Communication Architecture
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CVIS 1.0 Vehicle Platform
## CVIS 1.1 Vehicle Platform

- PCs are gone!
- Radio functions in roof mounted antenna
- Applications and services run inside Touch-PC
- Lower cost, easier install, better reliability etc...
- But totally the same:
  - Communication interfaces (3G, M5, IR)
  - Applications

## CVIS 1.1 RSU

- Single smart antenna connected to Ethernet backbone with twisted pair cable
  - Providing both Ethernet communication and power
- Router & Host functionality integrated in single enclosure
- Fully backward compatible with current platform
- Increased robustness
- NOTE: Directive antenna, but optional external antennas
CVIS Applications

URBAN
- Traffic management
  - Information, Routing
  - Strategy, Network assessment
- Traffic Control
  - Priority, Speed profile
  - Basic traffic control functions
- Public transport
  - Dynamic bus lanes

INTERURBAN
- Cooperative travellers' assistance
- Enhanced driver awareness
CVIS Applications

FREIGHT & FLEET
- Access control
- Dangerous goods
- Parking booking

CVIS 1.1 Features
- Platform for Field Operational Tests (FOTs)
  - Smaller form factor and greatly reduced installation complexity and cost
- Router functionality + positioning hardware included in a new vehicle antenna
- Host functionality moved into dashboard mountable computer with touch screen
- Vehicle antenna and touch computer connected with twisted pair cable
  - Providing both Ethernet communication and power
- Fully backward compatible with current platform
- Increased robustness
Thanks for your attention…

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