Already deployed IT technologies in road transport

- MCS
- Variabel speed limits
- Variable message
- Automatic Traffic Control (speed cameras)
- The congestion tax
- Speed alert
- Alcolock
Motorway Control System

Functions:
- Incidents & obstacles
- Congested traffic
- Tailback warning

At tunnels:
- Traffic guidance when tunnel shut down
Variable speed limit – example: Weather Controlled road section

Speed variation

40, 60, 80, 90, 100, 110 km/h
Information about travel times and incidents on WMS
Speed cameras

- Installation of more than 1000 ATC with digital technology
- The average reducing of speed is around 8%
- This gives a large contribution to the reduction of CO$_2$
Congestion charging in Stockholm

• The effects measured in the trials was 2-3% reduction of CO₂ in the whole county and 14% in the city of Stockholm

• This means a reducción of fatalities per year between 20-25
New vehicle technologies …

• Alternative fuels and engines
  – The Truck manufacturer works intensively med different types of “plug in system”, change from diesel to gas and development of batteries etc.
New vehicle technologies …

• Next generation of heavy goods vehicle
  – More Traffic Information services
  – Intelligent goods
  – E-freight (paperless system)
  – Cooperative system
  – Fewer overloaded vehicles
    • Weighing-in-motion of heavy duty vehicles
    • Truck cargo weight control
  – Modul based transports
    • "One more wood stack"
Greening of transports – element in a framework

- Pricing
- Improving infrastructure
- New or improved vehicles
- Improving management
- Staff training
- Green corridors
Green freight corridors

- Making a certain corridor attractive (high standard, risk reducing measures etc)
- Parking places/rest areas
- Traffic information
- Support for efficient driver behavior
- E-freight (paperless system)
IT technologies for road freight transport – EU-projects

- Freightwise - Management Framework for Intelligent Intermodal Transport
- HeavyRoute – Rout planning and driver support
- Smartfreight - Traffic management of individual freight vehicles through open ICT services
- Freilot - a pilot to improve energy efficiency of urban freight transport
- Citylog - deployment oriented pilot showcasing benefits of innovative urban freight services
- Easyway – freight and logistic
Easyway – freight and logistic

• Freight and Logistics Services aim at the optimisation of the capacity and efficiency of goods transport, by providing safe and easy access to intermodal terminals. They also provide the European haulier with dedicated seamless service information on the TERN, and provide measures for the management of hazardous or sensitive cargo.

• Identified services in the Easyway roadmap:
  – Access to Abnormal and Hazardous Transport Regulations
  – Intelligent Truck Parking