



Intelligent Route Guidance for Heavy Vehicles

Starting date: September 1st 2006
Duration: 30 months
Budget: Total 3 280 000 €
EU contribution 1700 000 €



Partners

- VTI Sweden
- Laboratoire Central des Ponts et Chaussées (LCPC) France
- arsenal research Austria
- FEHRL Belgium
- Volvo Technology AB Sweden
- NAVTEQ The Netherlands
- Planung Transport Verkehr AG (PTV) Germany
- ERTICO Belgium



Overall objectives

Development of an advanced Heavy Vehicle route guidance and management system



- Improved road safety and capacity
- Reduced negative impact on environment
- Reduced road and bridge maintenance costs



HeavyRoute Stakeholders

- Fleet owners
- Truck drivers
- Road Authorities
- Road and bridge operators
- Service providers
- Truck manufacturers

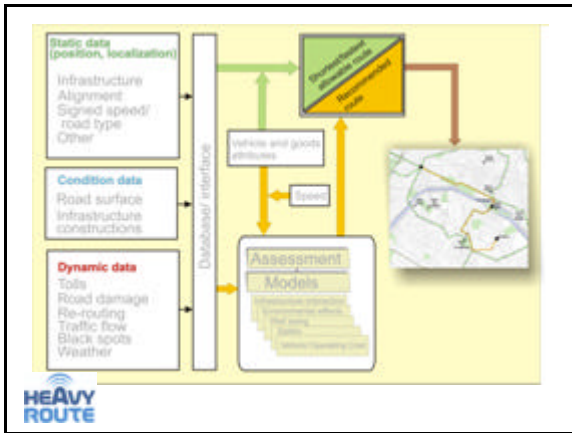
Opinions will be assessed through workshops, interviews, etc.

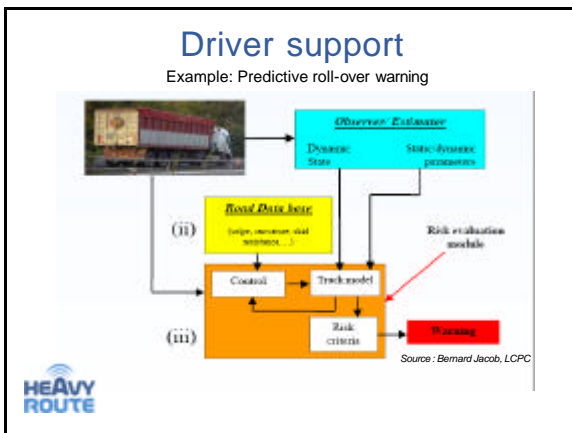


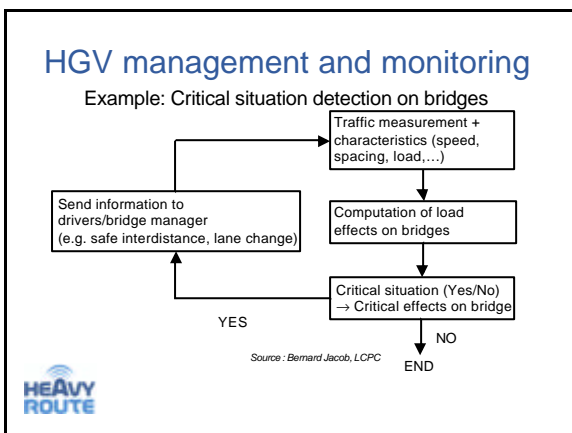
A complete HGV trip integration

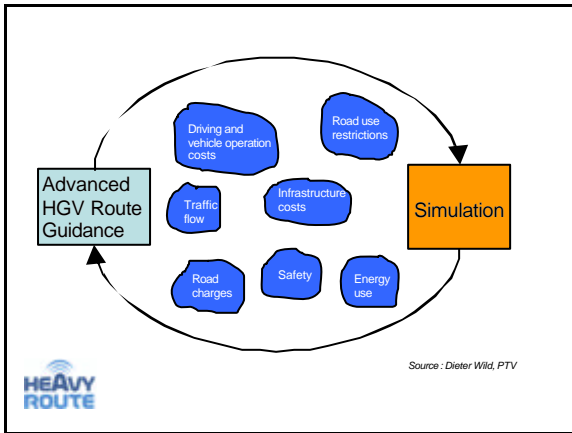
- Route planning
 - Allowable routes (HGV constraints of the infrastructure, preferred HGV network, environmental zones,...)
 - Recommended routes (safety, energy, environment, infrastructure costs, tolling, ...)
- Driver support
 - HGV specific driver information
 - TMC providing traffic and road conditions
 - Real time driver warning and recommended driving (roll-over, jack-knifing, downhill braking failure, ...)
- Monitoring and management of HGVs
 - Regulation of speed and distance between HGVs or rerouting at critical sections








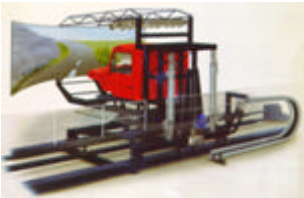




The VTI Truck simulator



Tests on safety relevant driver support applications and effects on driver behaviour
Tests of alternative HMIs



HEAVY ROUTE logo in the bottom left of the image area.

Summary: Heavy Route Innovation

- Cooperative approach
 - combination of off-board and onboard applications
- Exploitation of state-of-the-art systems and technologies
 - sensors, enhanced digital maps, positioning, infrastructure-vehicle communication...
- Complete Heavy Vehicle trip integration
 - route planning, driver support, HGV monitoring, fleet and vehicle management
- Expected benefits
 - road safety, mobility, efficiency for road authorities, truck drivers, fleet owners and other road users

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