



# **Multimodal Systems by IT Services**

## Transfer-Workshop Cluster 2 Communication & Mobility

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# Multimodal functionality requires optimisation of transport modes

# **Complete Mobility** "The Network of Networks" 2050 Road Air Sea $\rightarrow$ 2011 **Optimimised networks**

#### **Complete Mobility 2050**

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Multimodal and seamless transport services including all modes of transport will be the basis for

- → an increased need for transportation
- → maximum capacity of the integrated transport system for people and goods
- → a reduced ecological footprint of transports
- providing a sustainable basis for economical growth
- → reducing wasted time, GHG Emission, noise, pollution and accidents

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#### Modules for a seamless transportation system



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### Transport – Cloud, the management for transport systems

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Source: Cisco Intermodal Transportation Solution Blueprint, Retrieved 5/10/11 http://www.cisco.com/en/US/prod/collateral/vpndevc/ ps6918/ps9145/ps9152/TransportBDMBlueprint.pdf

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#### Multimodal solutions provide new service



*Source:* CSC Intermodal Solution, retrieved 5/7/11 http://assets1.csc.com/travel\_and\_transportation/ downloads/CSC\_Intermodal\_Connection\_System.pdf

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#### **ITS Services for transport**



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#### **Transit – Information systems for customers**





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#### Traffic – Management - System





#### **Elektronic payment**



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#### **Emergency - System**



### SZENARIO 2050: Seamless Mobility





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### Reference – Berlin Traffic Information Center: A network of traffic management systems

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- Installation of a common technology platform (hardware and software)
- Networks individual traffic management and control systems
- Analyzes ongoing and compiled traffic data (city traffic data center, traffic management center, > 300 Traffic Eye Universal, 800 measuring sections on autobahns, Floating Car Data)
- Monitors and controls 2,000 traffic signals, 8 traffic management systems and 300 cameras that monitor streets and tunnels
- Traffic newsroom, online editorial desk, media services, cell-phone services

#### London is a successful proof point of our approach

#### Example for successful cooperation in London

## Siemens and London – a close partnership

- We started working intensively with London in 2007
- City Account Manager installed to drive early engagement and representing our entire portfolio
- We offer the specific domain know-how

Interurban mobility: 1,200 vehicles for regional trains
Automated video surveillance: Comprehensive CCTV services to improve community safety
Hybrid Buses: Consume ~40% less fuel and emissions
Toll System: City congestion charging system and enforcement of low-emission zone
E-mobility project: Supply of software solutions, related services and charging stations
Smart Grid: Collaboration with UK Power Networks to develop a power distribution concept for 2020



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## Thank you





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