

ITS: Future infrastructure and modal integration

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UNECE ITS Workshop

International Transport Forum

Leipzig May 2010

Logica
be brilliant together

Infrastructure operators and policy

- Safety
- Efficiency
- Mobility
- Environment
- Economy

- Asset management
- Service levels
- Communications
- Maintenance

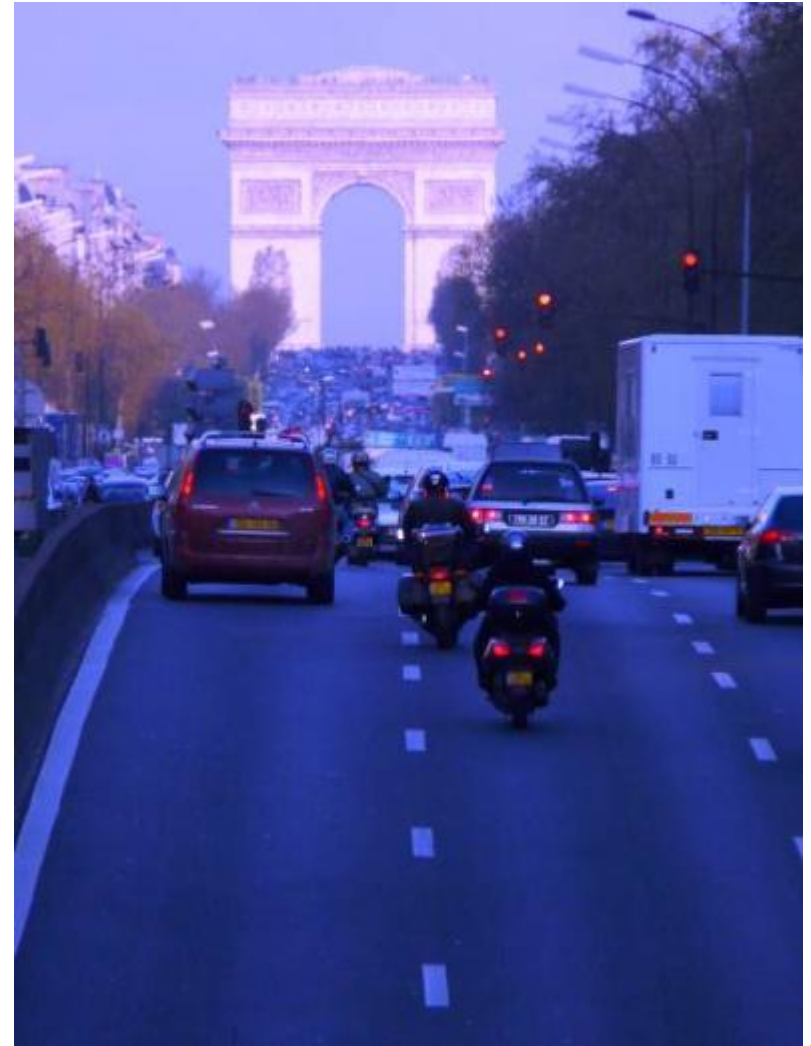
- Stakeholders!



Intelligent Transport Systems

- Safer
- Surer
- Smoother
- Smarter

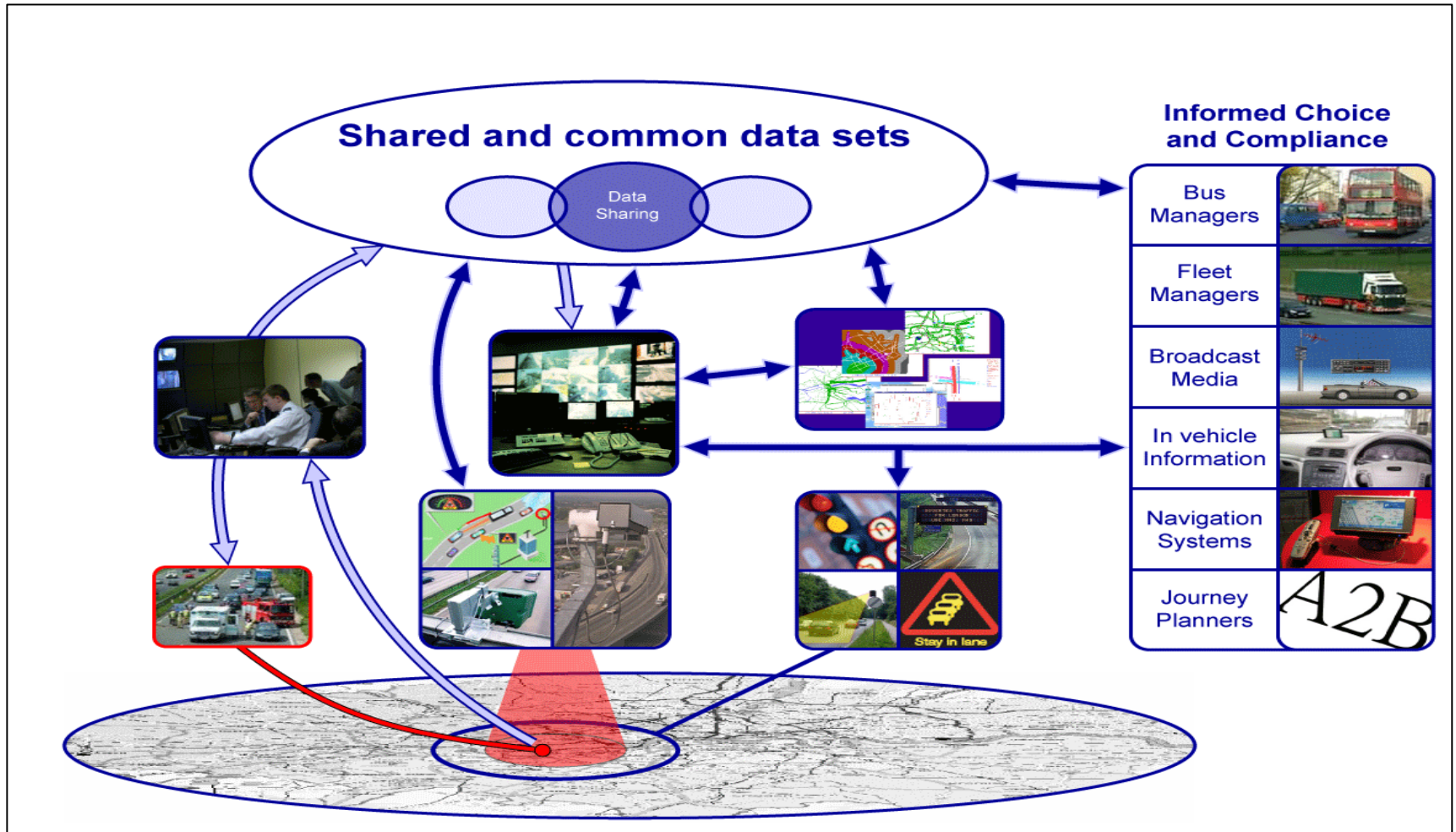
- Support Policy
- Enabled by technology
- Capture benefits
- Realise potential



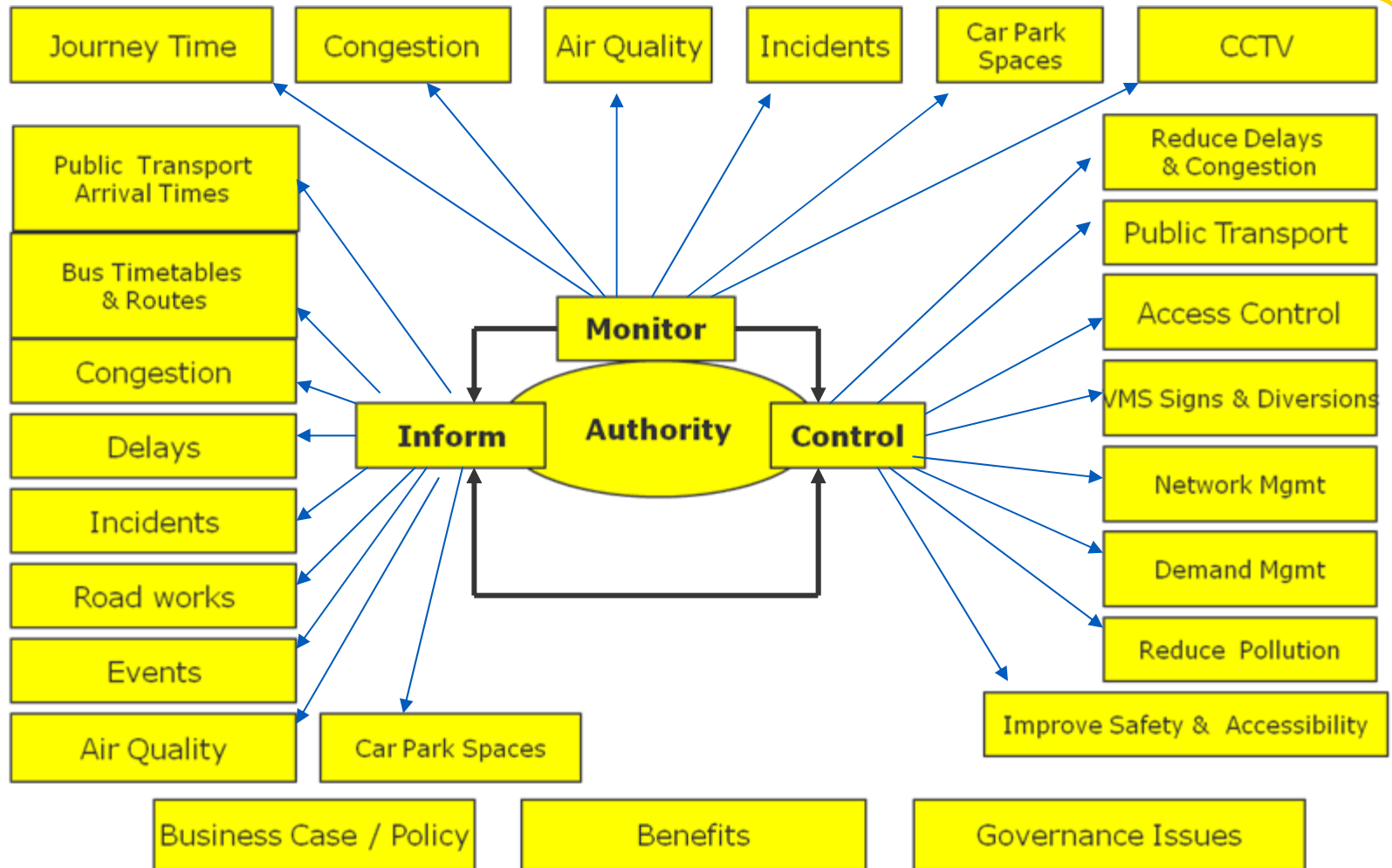
ITS for all modes



Capture once use many



ITS Operational Concepts



Data Collection



Processing and exchange



Traffic Control



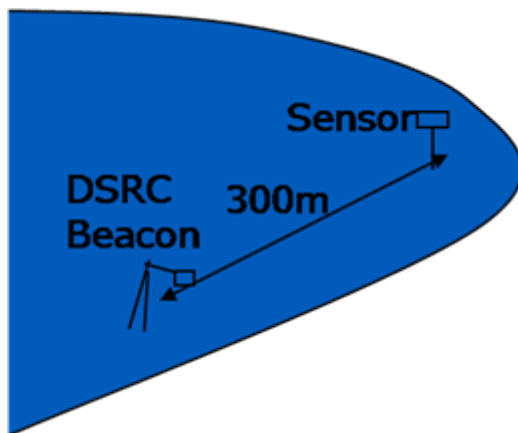


Results from the Netherlands

<u>Measure</u>	<u>Capacity gain</u>
Peak hour lane management	36 %
Dedicated lane for freight	16 %
Constant speeds	1 %
Freight overtaking prohibited	4 %
Text VMS	5 %
Ramp metering	4 %

Results from Japan

- Blind curve on the Expressway accidents reduced by 79%
- Distributed Processing based on roadside sensor
- Transmission of incidents - congestion and accidents
- 10% with in-vehicle units 90% of drivers responded
- Just 50% of drivers responded to the road-side signs



Smart Logistics



Behaviour and experience

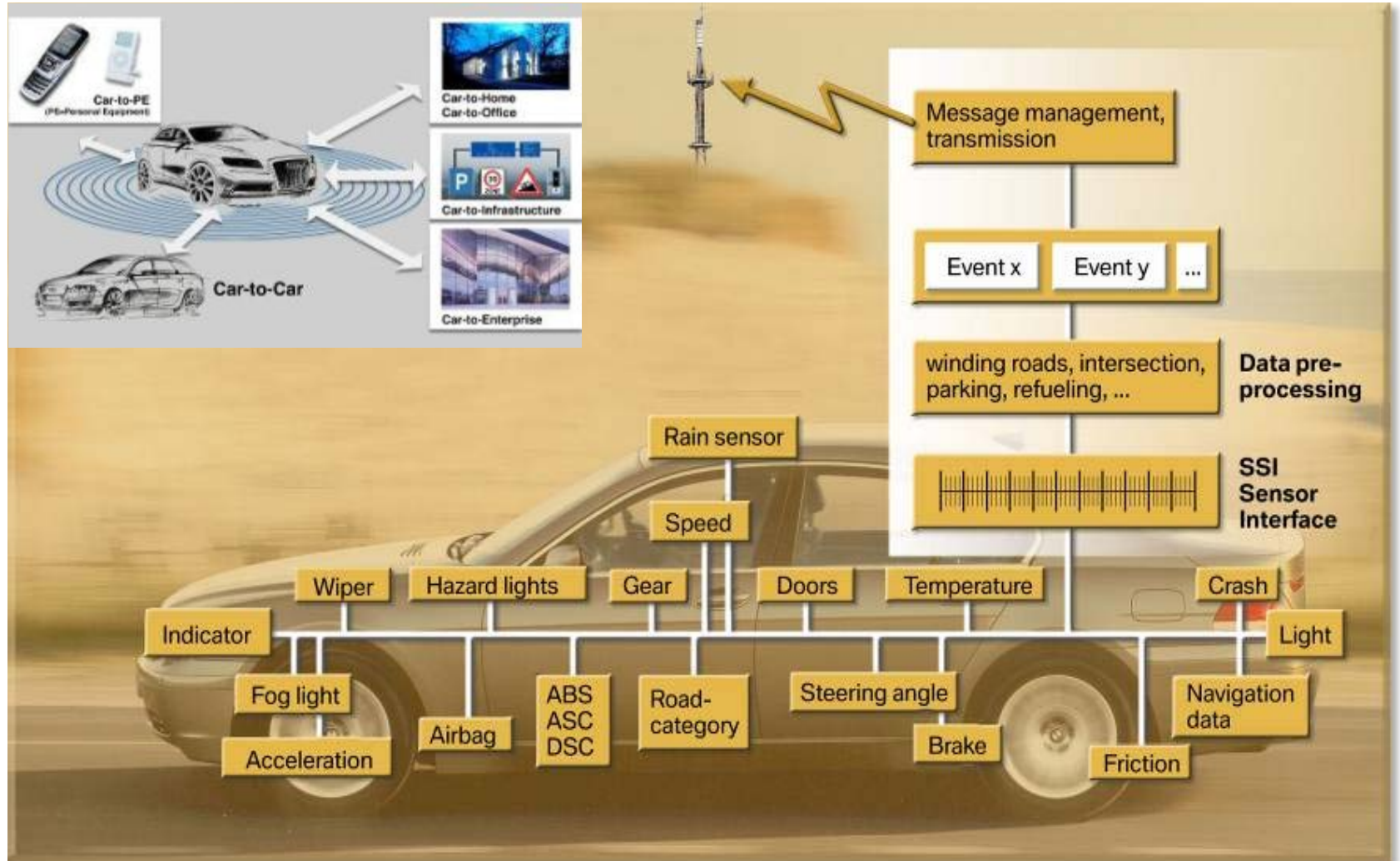


Intermodal operations

- Procter & Gamble, switching goods from road to rail. From 10% rail to 30% by 2015 (saving 70,000 tons of CO2 a year).
- Port of Rotterdam: In 2011 intermodal terminal opens - containers from trucks onto barges. Reducing trucks on A15 Motorway by 10%
- London Olympics 2012: 240,000 people an hour by trains
- Twitter in India, heavy rain in Mumbai (July 09)
- Facebook travel support networks during volcanic ash flight restrictions (2010)
- Need cooperation not competition



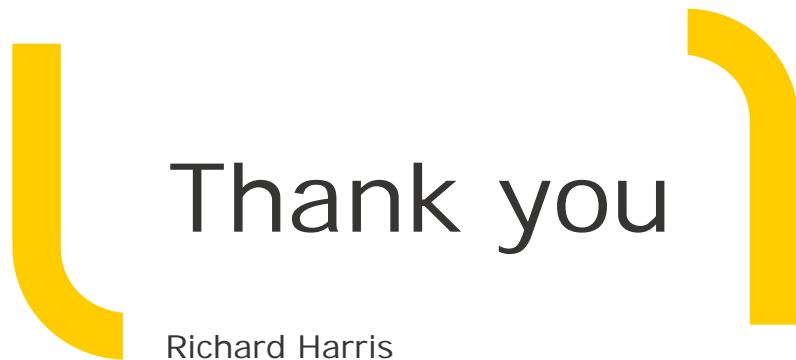
Extended Floating Car Data



Summary

- ITS support policy objectives
- Late adopters can skip generations
- Can help us break the link between economy and transport
- Transport issues of safety, congestion, environment do not respect administrative borders
- Biggest challenge is organizational
- Joined up thinking joined up benefits
- Leadership is the key requirement
- CVHS the driver





Thank you

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