

CVIS

the Business Case

- Public Authorities' vision -

Vlaamse overheid



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Public Authorities tasks & interests

- Mobility
 - Basic right
 - Motor for economical development

- Sustainable transport system
 - Efficient use of transport modes
 - Chain mobility

- Applied to Road Transport:
 - Indispensable transport mode
 - Continuous growth
 - Difficult to 'control'

Road transport - challenges

■ Fluidity – congestion

Cfr. Expected growth !

- better balance between modes (intermodality)
- urban/ interurban interfaces
- incident management

■ Road safety

Cfr. Lisbon targets

- human/ economical impact
- **approach**: Engineering - Education - Enforcement

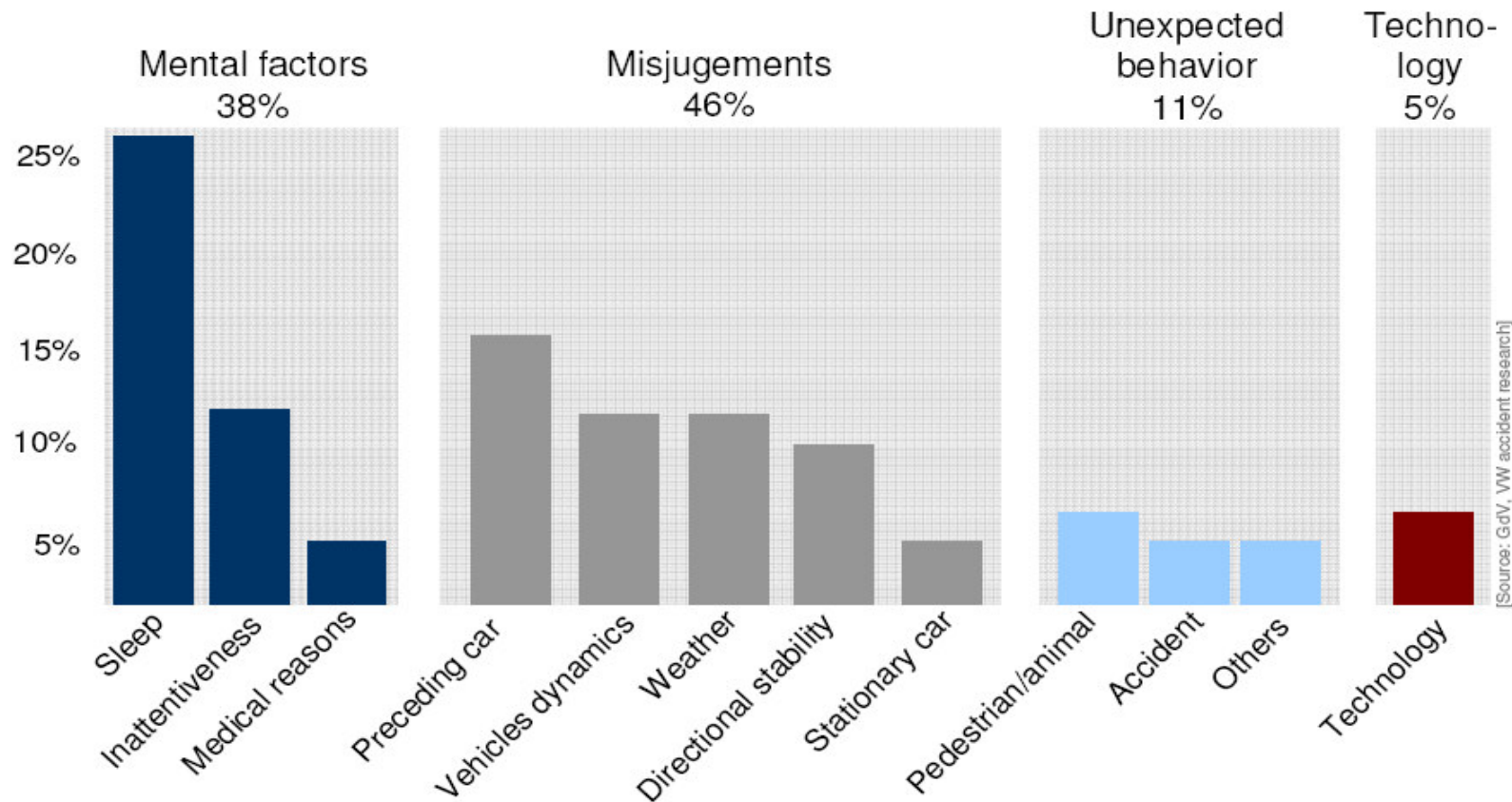
■ Environmental impact

- cleaner vehicles/ more efficient use of transport

Incidents: the driver as a risk factor?

The driver as a risk factor

Causes of fatal accidents



Safety: Willingness to pay for 'safety related' services ?

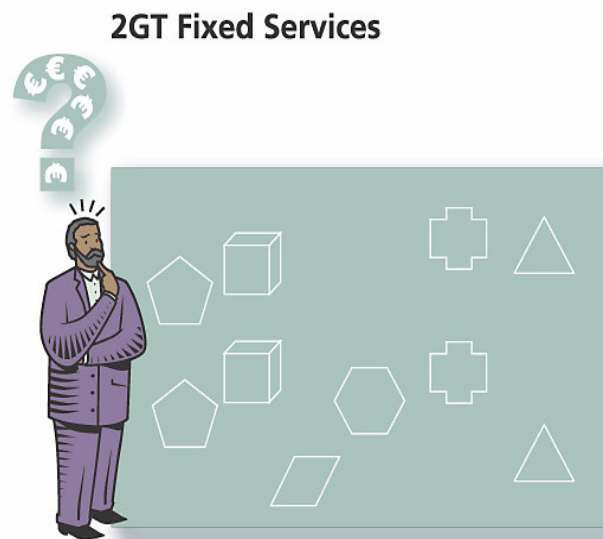


Figure 14 Correlation between usefulness and willingness to pay

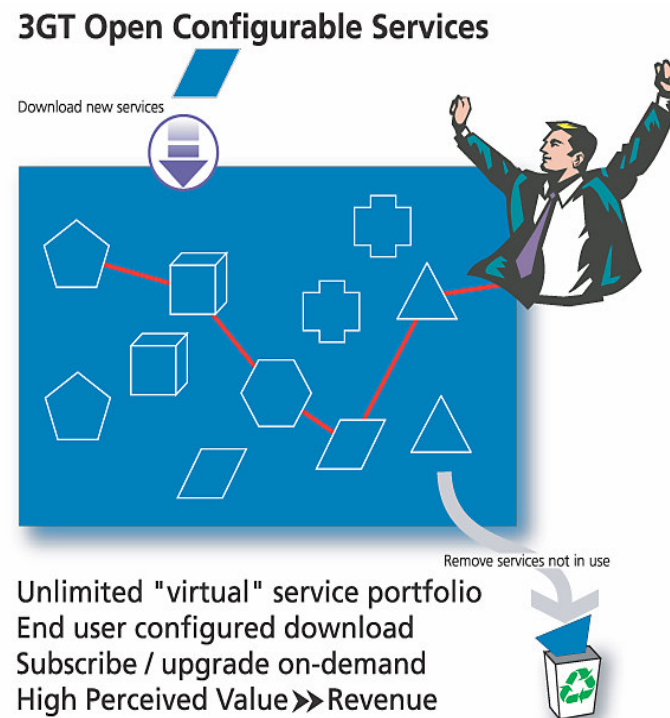
Cfr. validation GST

In-vehicle telematics: ongoing (r)evolution

- Techn. developments & performant wireless Comm.
- Cost ↓ stand alone applications -> (re-)use components



Fixed service portfolio
No upgrade path
Low perceived value
New service = new development

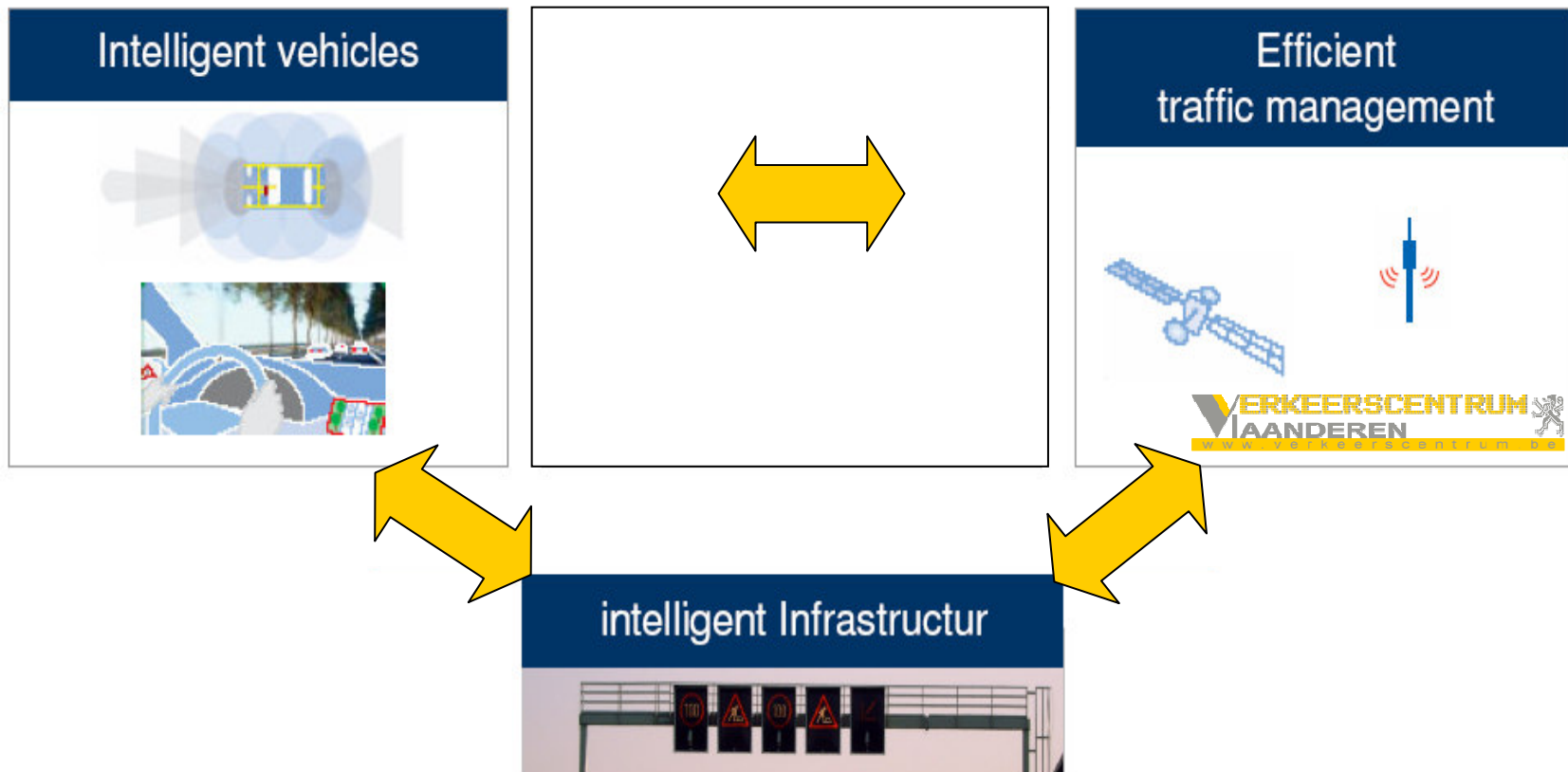


Unlimited "virtual" service portfolio
End user configured download
Subscribe / upgrade on-demand
High Perceived Value >>> Revenue

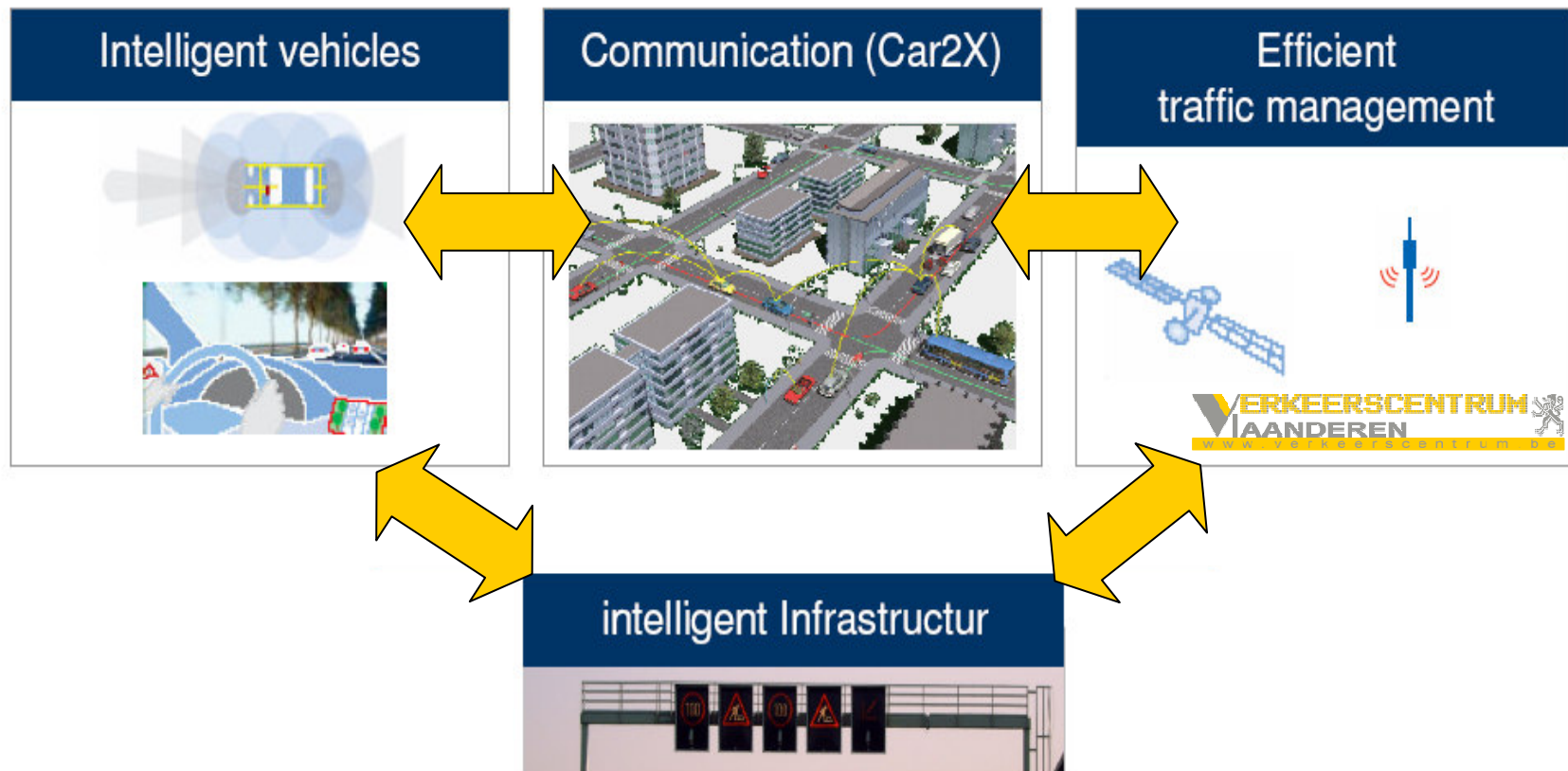
Next step: co-operative systems ?

- Co-use / roadside equipment & vehicle (platforms)
- Extended functionalities for existing applications (services)
 - VMS in car
 - Queue warning
 - Traffic Info- Rerouting
- New services/ increasing effectiveness
 - Detection of incidents
 - Assistance to emergency services
 - Park & ride promotion
 - Parking guidance

'Co-operative' = coherent & supportive



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Co-operative systems : issues ?

- Define the co-operation
- Technical interoperability
- What if not all vehicles have access / are equipped?
- Traffic management vs 'comfort' services?

R&D projects (6FP):



Coordinator: **ERTICO**
Total budget: € 41 Million
EC contribution: € 22 Million
Consortium: 61 partners - 12 countries



Coordinator: **Fiat Research Centre**
Total budget: € 38 Million
EC contribution: € 20,5 Million
Consortium: 51 partners - 12 countries



Coordinator: **Austria tech**
Total budget: € 16,8 Million
EC contribution: € 9,6 Million
Consortium: 37 partners - 14 countries

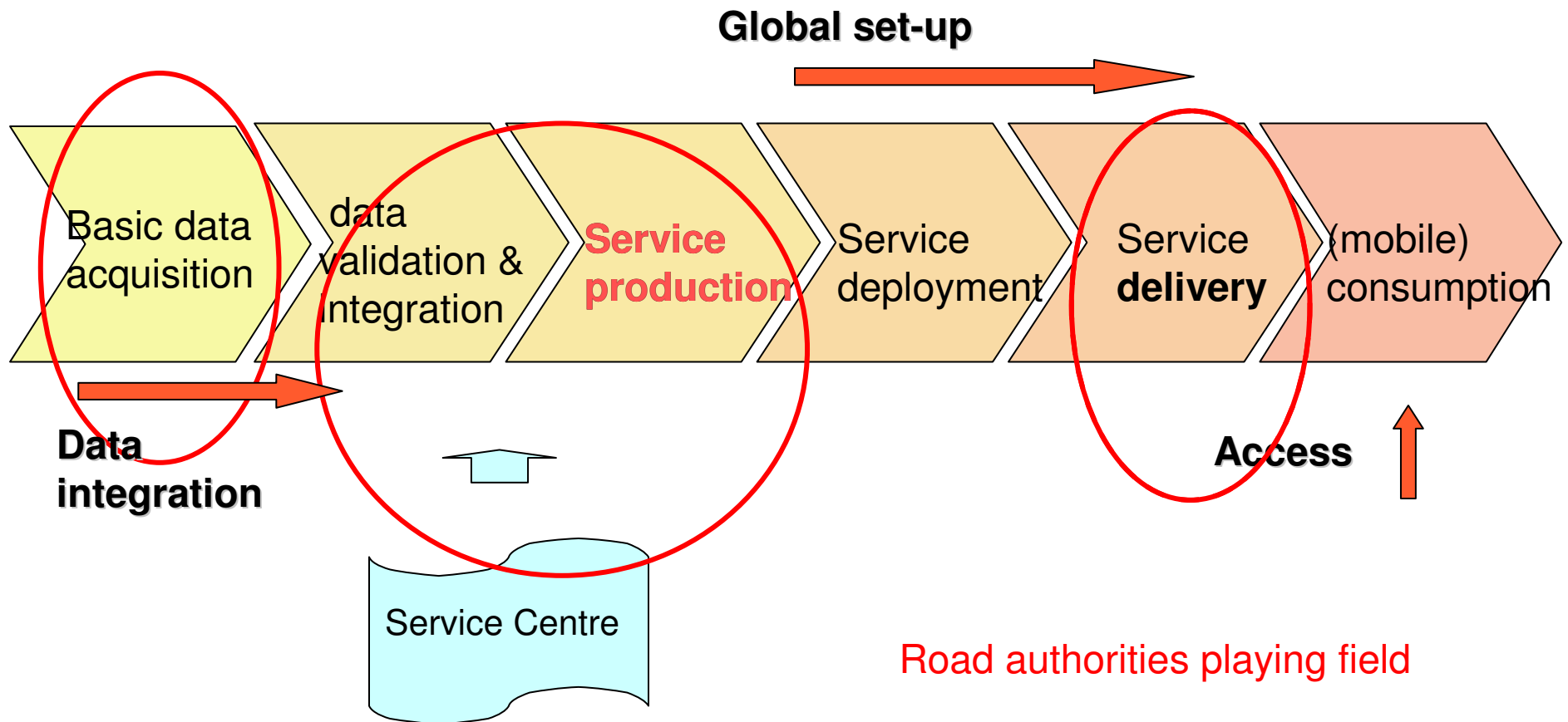
Co-operative systems

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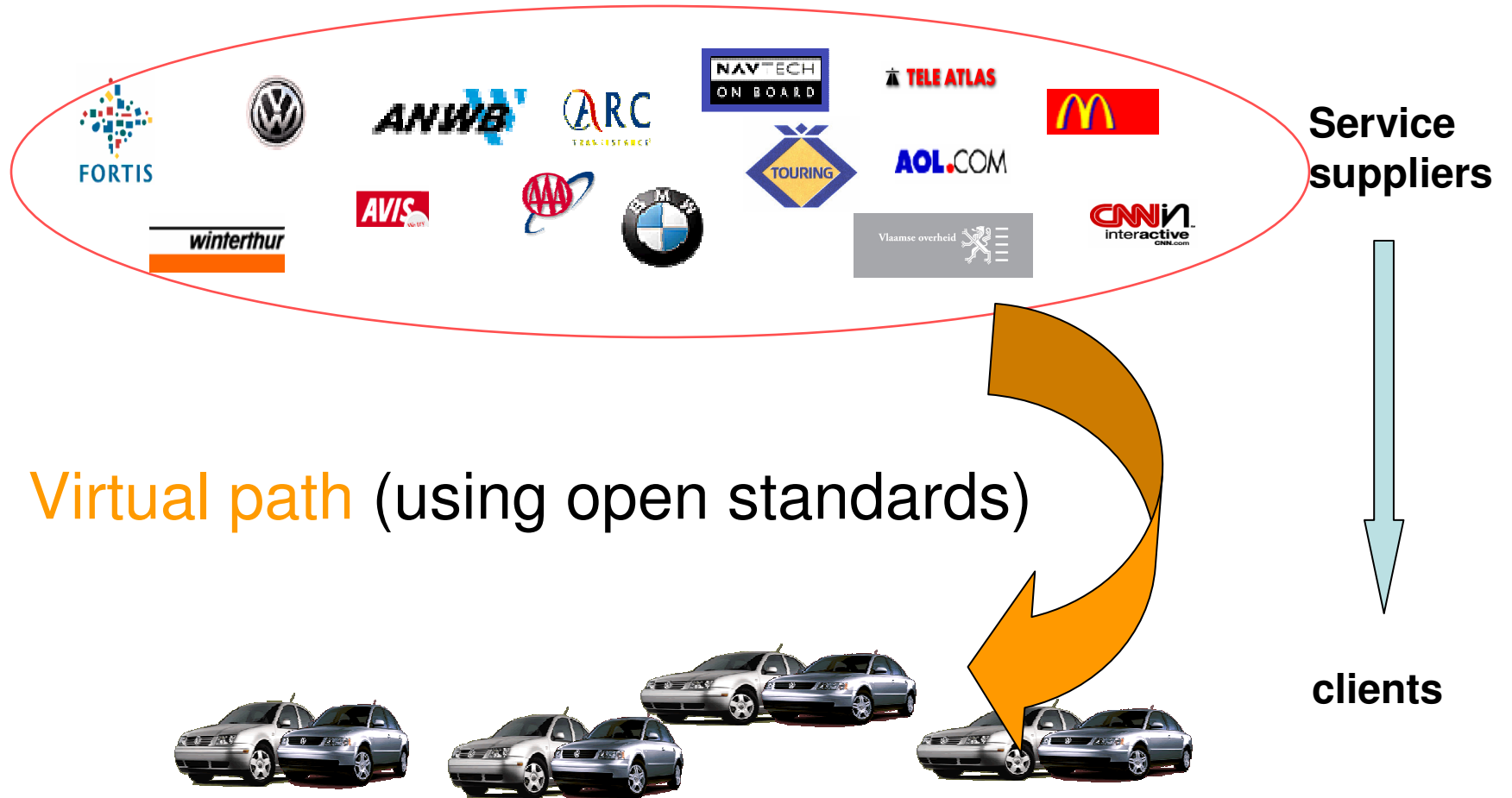
→ a new ecosystem !

- New players
- Co-operation between actors
- Road authorities = client
- Where are the limits?
- What is the framework?
- How can we define the 'rules'?
- How can we respect market mechanisms?

Co-operative applications - value chain



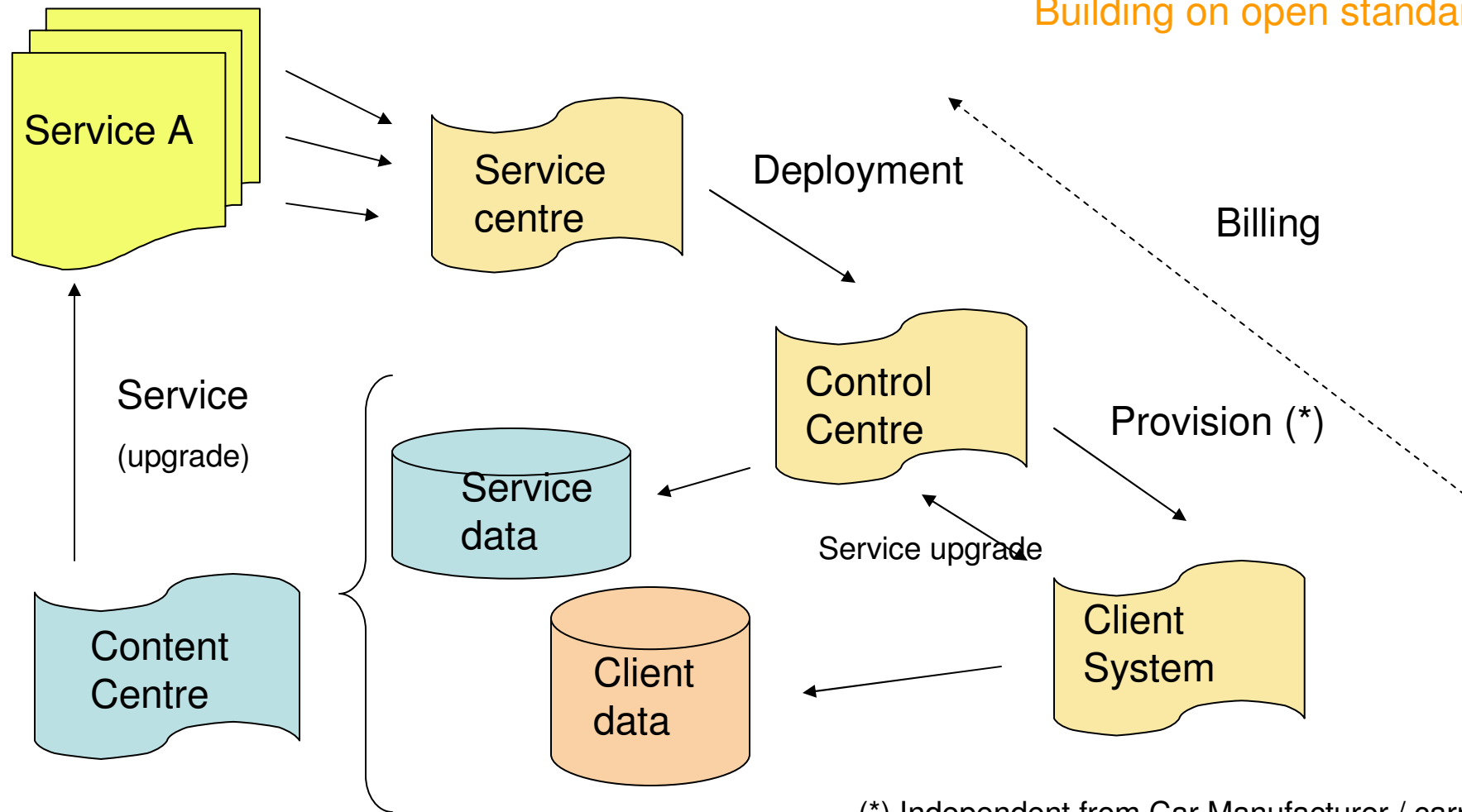
access ? OPEN ARCHITECTURE



Service production & delivery

Global ecosystem

Building on open standards



(*) Independent from Car Manufacturer / carrier

Road Authorities (CEDR): Vision on eSafety

New Information and Communications technologies will enable two-way communications between vehicles, and between vehicles and (road side) infrastructure.

This will support the functionalities for road users as well as the role and tasks of road administrations, and it will result in:

- a significant **reduction in road fatalities**;
- **better informed** travelers and hauliers;
- more effective and efficient operations.

