„Traffic Telematics“

by

Michael Sandrock, TelematicsPRO e.V., Berlin

- What is TelematicsPRO
- Telematic for traffic applications
- The enforcement and regulations by the EU
- Platforms for precompetitive marketing

© TelematicsPro e.V. 2012

TelematicsPRO e.V.

- Member structure:
  68 organisations from Deutschland, Österreich, Belgien, Italien, Niederlande

- Referencing projects:
  I. Plattform Mobil Parken in operation
  II. Plattform Mobility payment in planning
  III. Roadshow, best practise Telematik in cities in operation

- working groups
  car2city (city congestion); Electromobilitity; Metropolitan Navigation; ITS

- Conferences
  connected; cockpit; its-forum, payment, tolling, traffic management, logistics

- Institutional cooperations:
  Deutscher Städte und Gemeindebund; Bitkom e.V.; ITS Intelligent Transportation Systems e.V. , SmartHome Deutschland e.V.

© TelematicsPro e.V. 2012

Zone
ENDS
tfl.gov.uk
UNDERGROUND
oyster
RED ROUTE
No stopping
at any time
except buses
BUS
LANE
London Dial-a-ride
DLR
UNDERGROUND
OVERGROUND

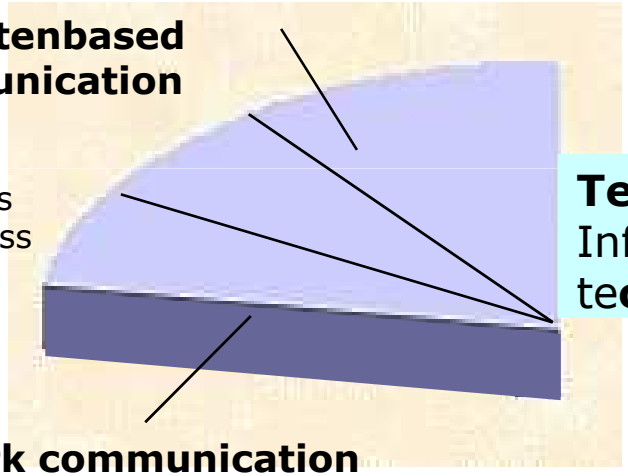
The technology of telematics

Mobilcommunication
- transfertechnologie
- ISDN

Datasystem
- Simulations
- Agentbased Dataproviding
- surfaces
- Datasecurity

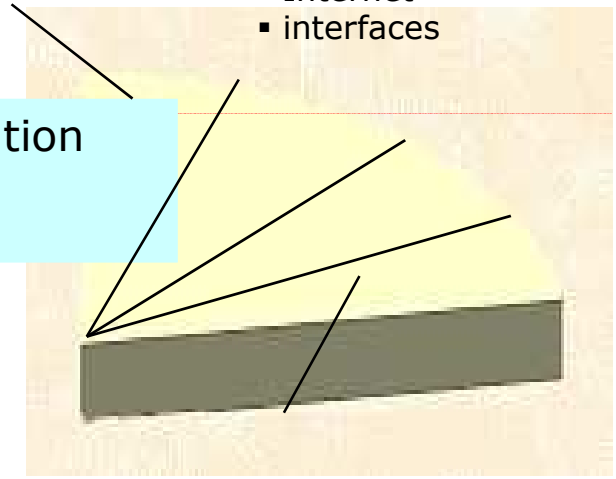
Programming
- Multimedia
- Windows
- Internet
- interfaces

Satellitenbased communication
- GPS
- Galileo
- Glonass
- Compass



Telekommunication
Infor**mati**on-
te**c**hnology

Network communication
- technical Networks
- services
- Wide range Kommunikation, GSM,
- Short range Kommunikation bluetooth, DECT, RFID, Barcodes
- Broadbandsysteme UMTS
- Navigationsysteme
- Identificationsysteme



hardware

provider

© TelematicsPro e.V. 2012

The span of applications in traffic telematics

From parking and information to navigation

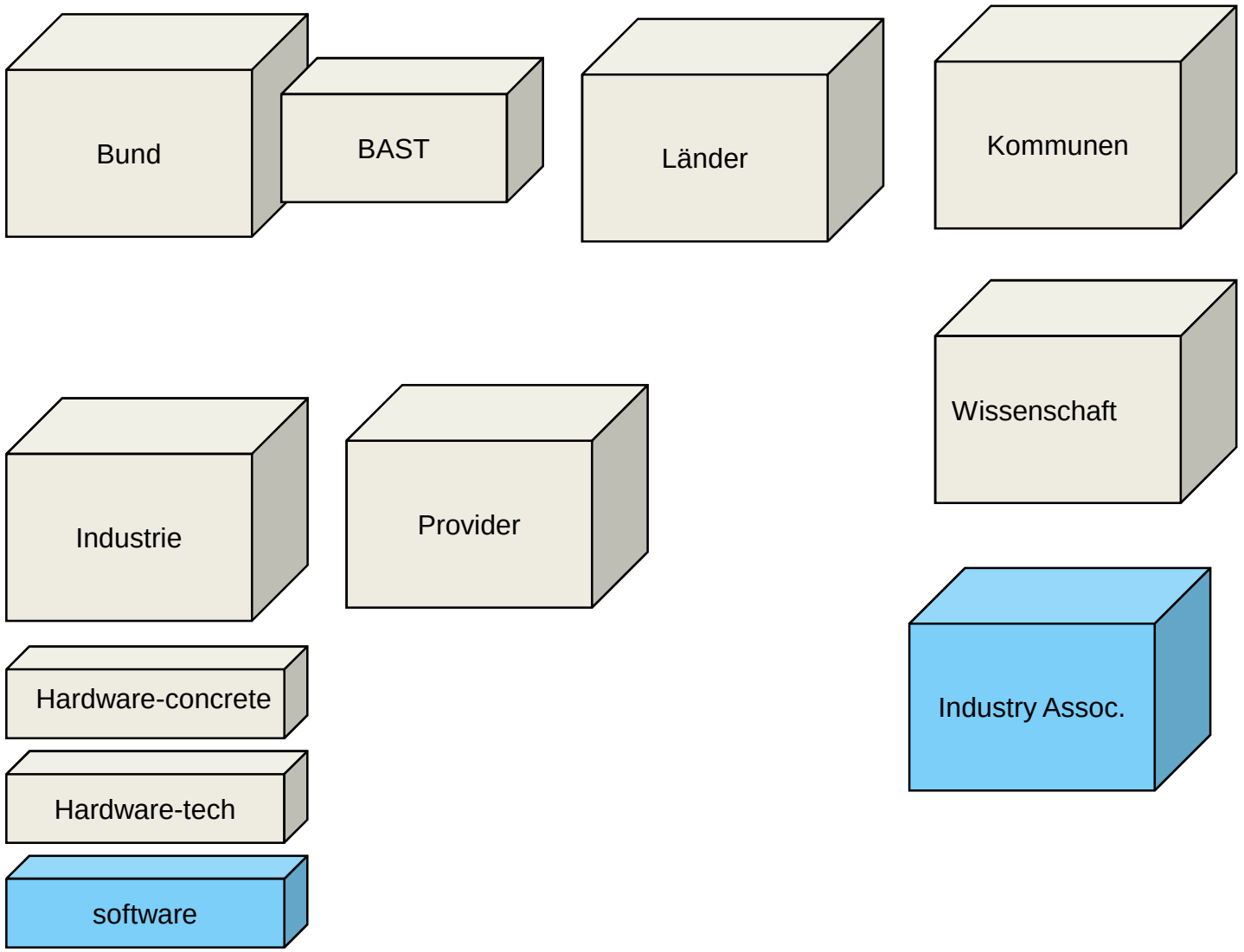
© TelematicsPro e.V. 2012

The automotive side of telematics

- **Wireless communication**
- **Embedded m2m**
- **Car park and connecting cars**
- **Ca2gether – multimedia mobility solutions**
- **Control options and information for the ecar**
- **Infotainment solutions in cars/trucks**
- **IT in cars**

© TelematicsPro e.V. 2012

Stakeholders in the traffic „market“



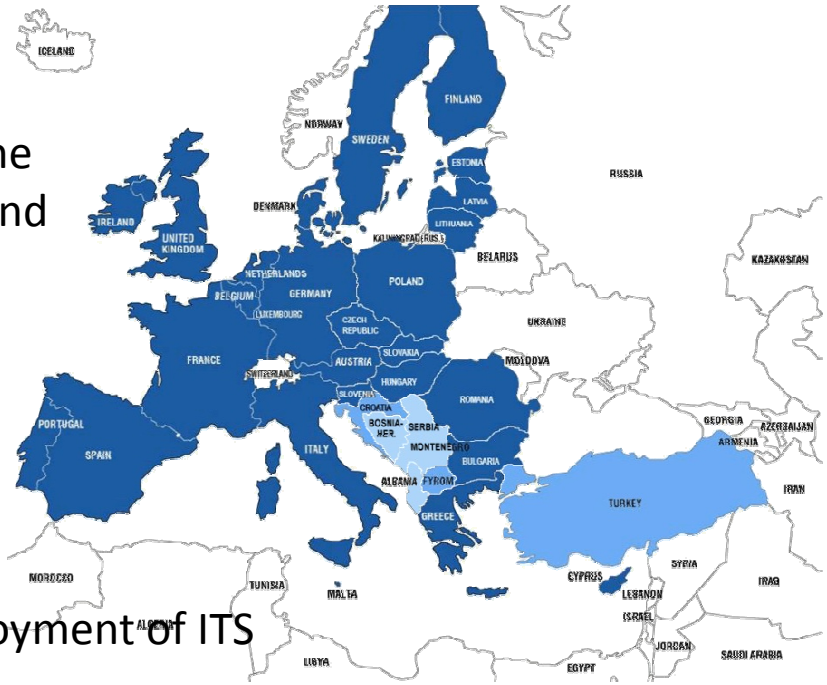
© TelematicsPro e.V. 2012

Conferences
Gate to professional ingroups
In automotive industry like
•Connected
•Cockpit
•I t s forum
•Mobility payment
•tolling

I T S political structure and frames for telematics

- **Action Plan** for the Deployment of Intelligent Transport Systems (ITS) in Europe (Dec 2008)

- **Directive 2010/40/EU**: Framework for the coordinated and Effective Deployment and Use of Intelligent Transport Systems



Road transport and interfaces with other modes

  - to coordinate and accelerate deployment of ITS
  - to tackle bottlenecks for deployment
  - to make road transport more sustainable

© TelematicsPro e.V. 2012

Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Optimal Use of Road, Traffic & Travel Data	**Continuity of Traffic & Freight Management**	**Road Safety and Security**	**Integration of Vehicle & Transport Infrastructure**	**Data Protection & Liability**	**European ITS Coordination**
EU-wide real time travel information	Continuity of ITS services	Promotion of in-vehicle safety systems			
Collection & provision of road data	Services for freight transport & logistics	Introduction of Europe-wide eCall			
Accurate public data for digital maps	European ITS Framework architecture	Regulatory Framework on HMI			
Free minimum information service	Interoperability of electronic toll systems	Guidelines: Impact on Vulnerable road users			
Promotion of multi-modal journey planners		Guidelines: Secure parking places for trucks			

© TelematicsPro e.V. 2012

EU-wide Real-Time Traffic information

Free safety-related minimum Traffic Info

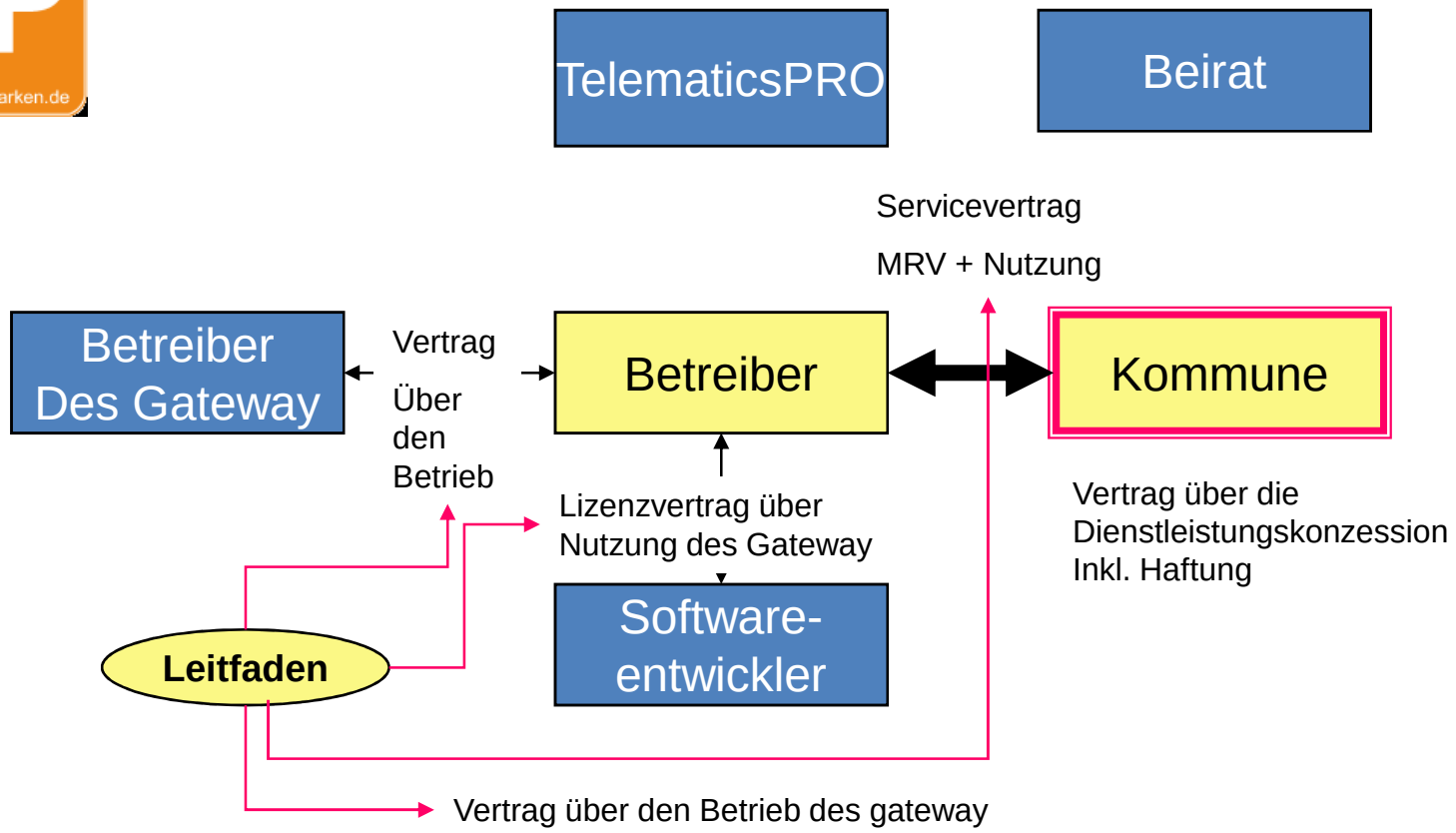
Interoperable EU-wide eCall

EU-wide Multi-Modal Travel Information

© TelematicsPro e.V. 2012

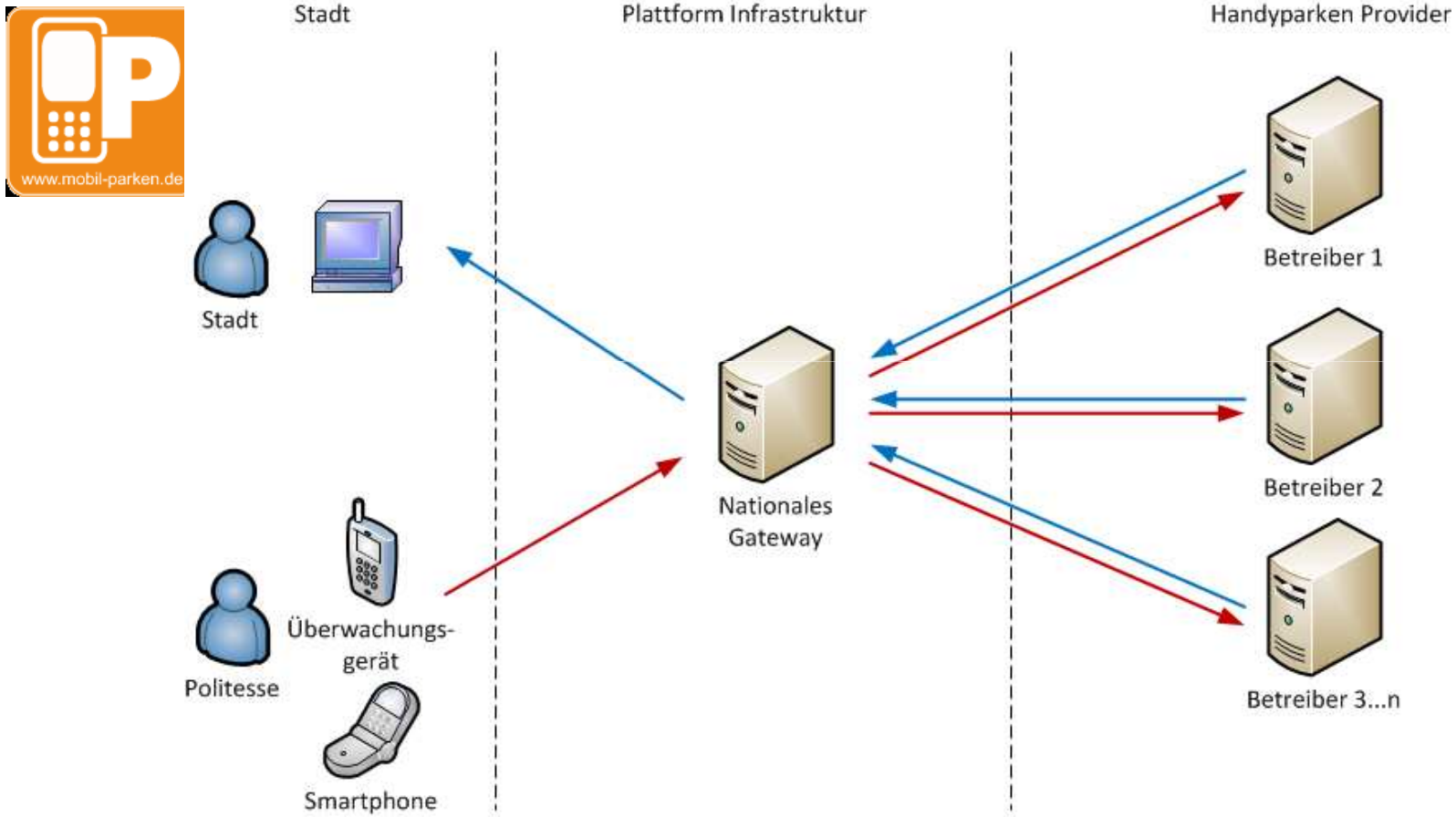
© TelematicsPro e.V. 2012

Cellphone parking Platform Administration



© TelematicsPro e.V. 2012

Cellphone parking – technology



© TelematicsPro e.V. 2012

Mobility in regions:

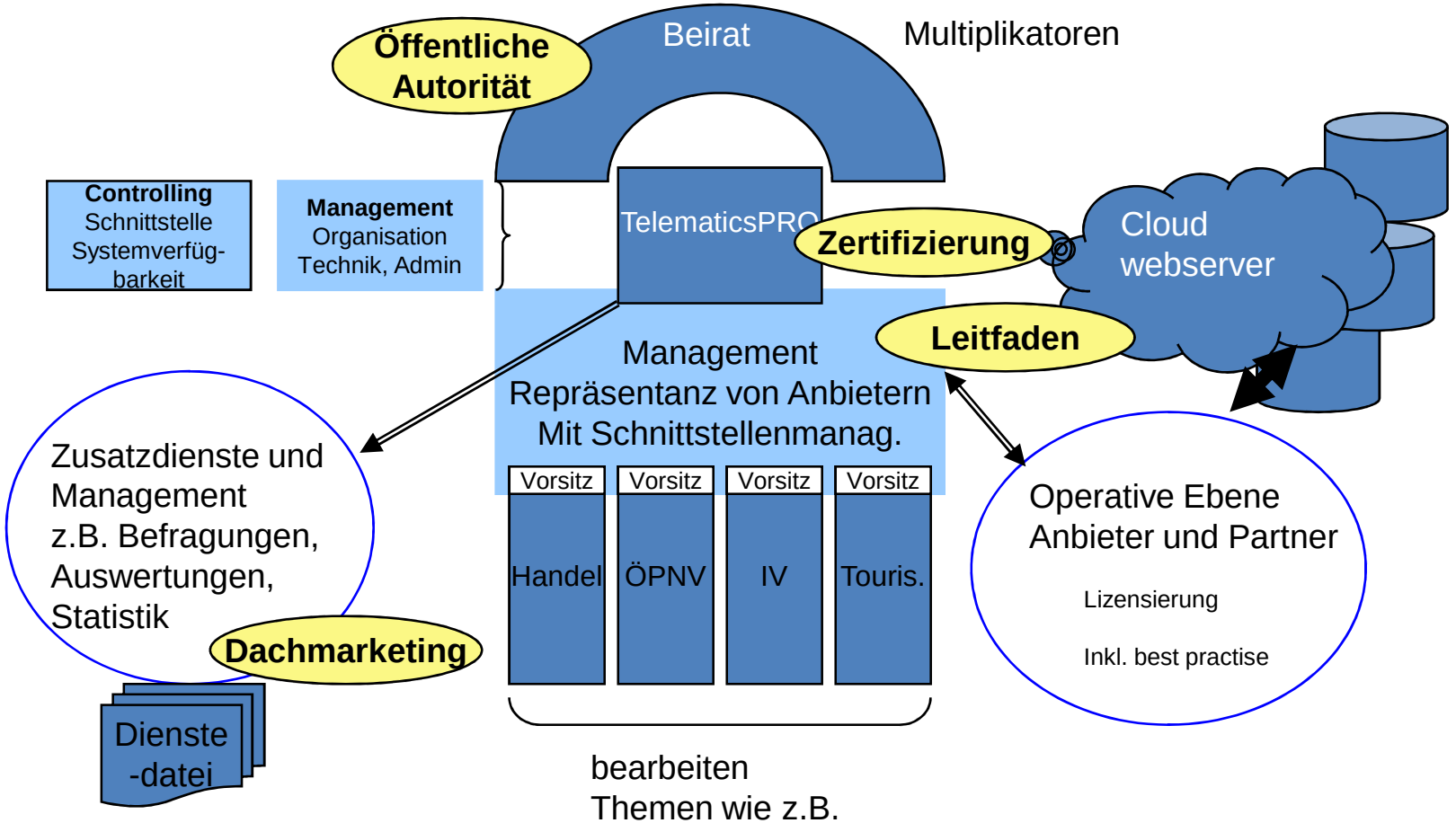
Mobility requirement: going from A to B
objective =
recommodation instead of information

incoming in the Region

Mobility in the Region

© TelematicsPro e.V. 2012

Mobilitätsplatform: Management – Administration



© TelematicsPro e.V. 2012

Thanks for your attention

Michael Sandrock,
TelematicsPRO e.V., Berlin

© TelematicsPro e.V. 2012