

Easy ticketing for European Public Transport passengers

The german approach



**Easier and more attractive public transport - and
passengers join regions**

**8th Annual General Meeting and Conference of the
European Passengers' Federation
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Introduction

VDV, VDV-Kernapplikations GmbH and VDV core application

What does the VDV represent?

- Association of Germany's Public transport companies and further transport companies and transport authorities
- VDV was founded in 1895. 540 ordinary and 53 extraordinary members
- VDV-Kernapplikations GmbH was founded 2004 as a daughter-company for the development and introduction of a standardised chip card scheme in Germany

What does the VDV core application represent?

- The VDV core application (KA) is a standard which describes the data exchange between the components of an electronic fare management system (EFM)
- The KA rules the organisational and contractual cooperation of different parties in an interoperable EFM
- The KA defines standardised customer interfaces in order to simplify the handling for the customer.

28 million
Passengers/day



Conclusions

- There is a need for new and better services in public transport
- Introduction of eTicketing makes sense
- You need a standard for eTicketing
- It isn't necessary to develop a new own standard; there are standards available (which are involved in the development of European interoperability)



OstalbMobil
Kontiki Aalen 2009

ov-chipkaart
www.ov-chip.nl of 0900 0980 0980
Marieke van der Hoef
geboortedatum 17.05.78
geldig vanaf 10.11.04
1234567890021234
conneXion

BOB
DAS KONTO MOBIB

BUSSIKORTTI
KAUSIKORTTI

ck.et

FAHRSMART
BS-1896

KOLIBRICARD
Schneller an's Ziel
NVH
Bäder-Winterweg
NATURERBE JAHRBUCH 2005

LA
TA DI VENEZIA
tasca

tourmicare

SUNGARTHE

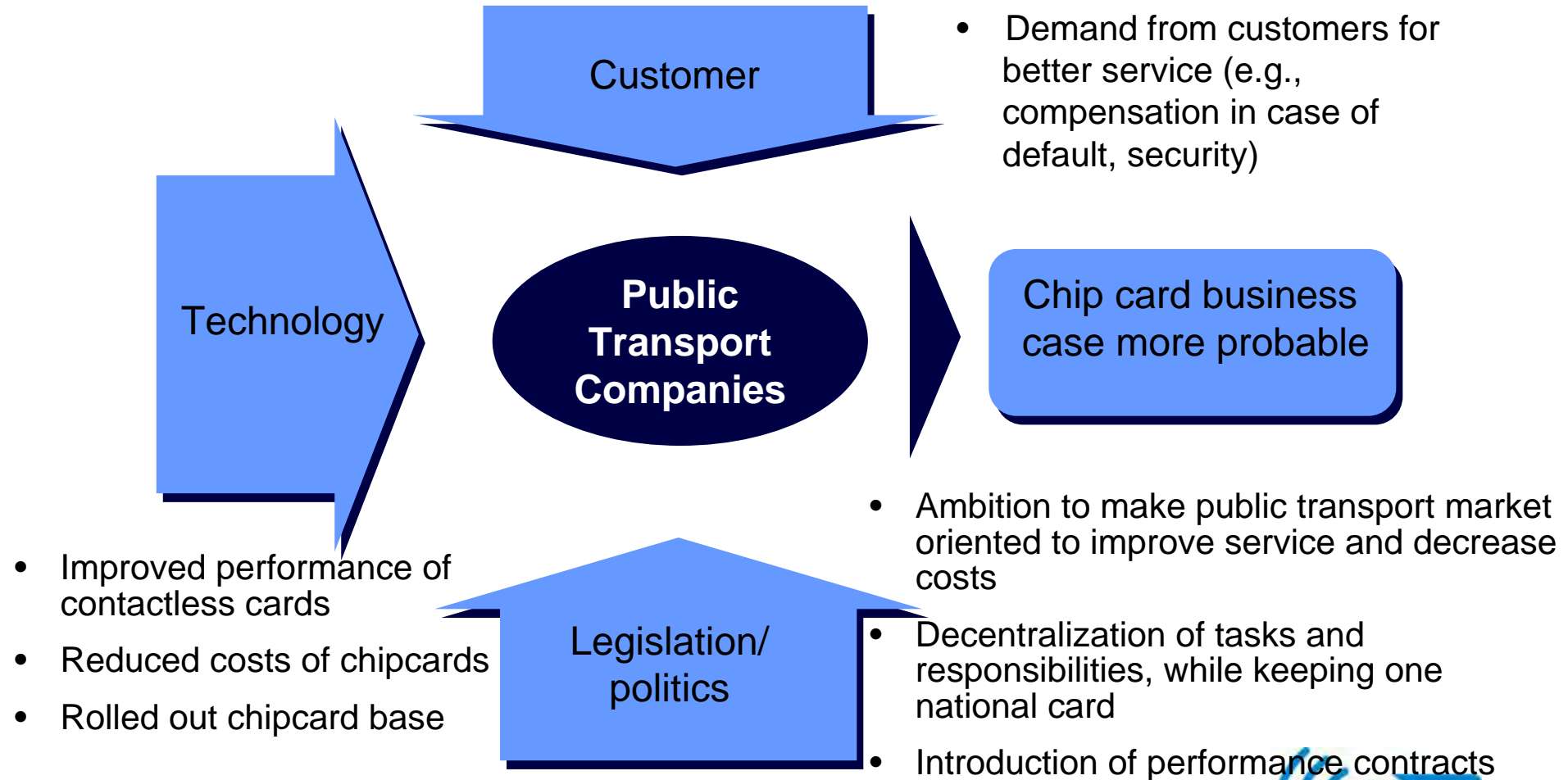
PATHFINDER
Shuttle Services
GOLD CARD

ov-chipkaart
KAUSI
Tageskarte für
von 5000 nach 5000
über 2000 PS 03
Gültig am 30.03.06
ZURÜCK WEITER

intern
De groene stree

Telecom
Hilf 2150

The need for eTicketing



What does the customer wants?

Source: Resenärs Forum at the LINK-forum March 2009

Car drivers have an easy choice

- same road signs
- pays petrol, oil and repair
- with a credit card one month later

Easy - wherever you go

The smart PT-user has great problems

- Different price systems
- Different ticket systems
- Different ways of buying tickets
- Pay cash – or must you not pay cash?
- -> you always risk to have a wrong ticket!
- " we want to pay for our trips, but it must be easy!"

Smart cards are developed all over

- But most smart cards are much delayed or (much) more expensive than expected
- Most regions and cities only see to travel within their own borders
- Too much effort is concentrated on "branding" instead of development useful for customer
- Smart cards must be compatible!

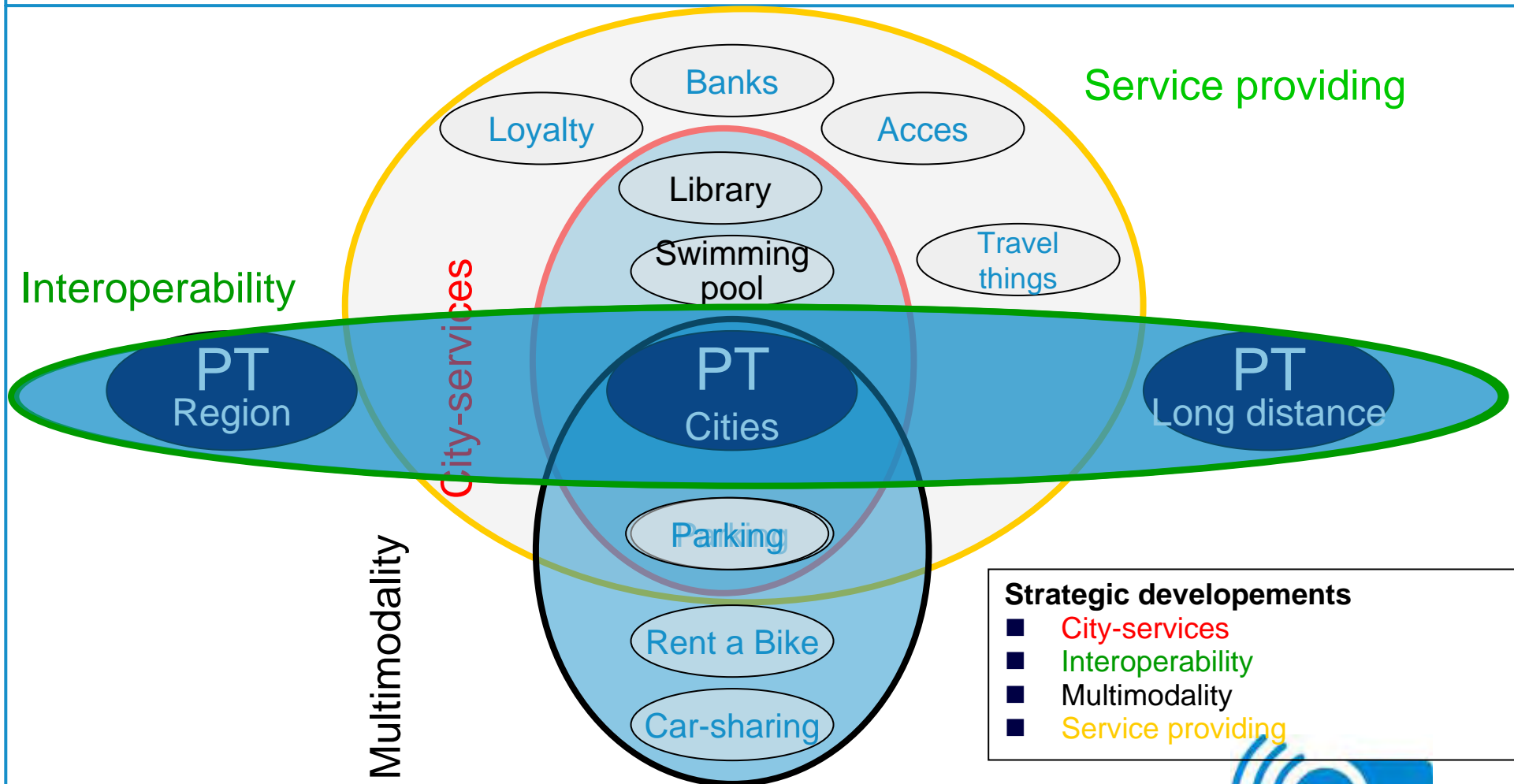
Compatible smart cards can make public transport easy

- All companies can have their own prices
- The computer can find the price easily
- The travelling person does not have to find the price first
- Basic quality: to use your own monthly card in other cities and regions
- Different ticket vending machines need a standard protocol/customer interface
- Without a EU directive this will never happen



Introduction of eTicketssysteme

strategic developments in Europe



The German Approach

EFM Projects in PT in Germany 1992-2002



Projects complete differs:

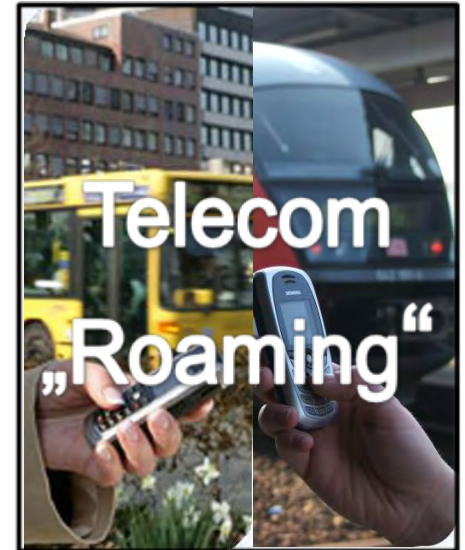
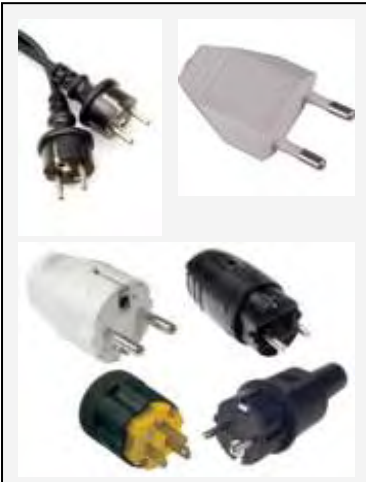
- Own cards, issued by third parties
- Contact, contactless, dual interface
- General purse, public transport purse
- Prepaid, Postpaid
- Check-in only, CiCo, BiBo

➔ Need for coordination



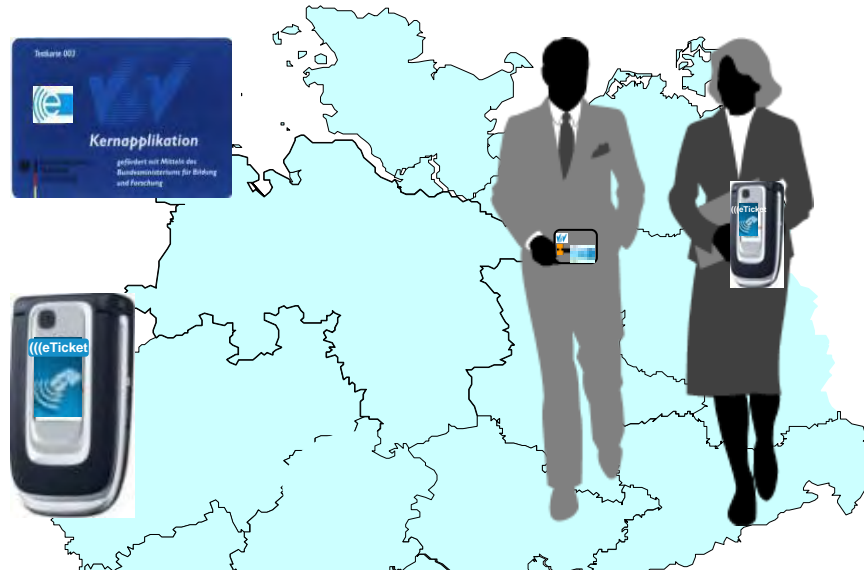
Interoperability

Pardon?



The German Approach

Focus on Interoperability



**Einfach grenzenlos und
grenzenlos einfach!**

Das neue eTicket für ganz Deutschland.



eBezahlen



eTicket



Check-in / Check-out



Automatische
Ticketerfassung

- Customers are able to use all EFM-systems continuously with only one user medium
- Three IFM-variants:
 - cashless electronic payment
 - Electronic ticket (with electronic entrance control)
 - automated fare collection (CiCO, BiBo)
- (((eTicket Deutschland as common roof
- Standardised customer interface in every variant
- The eTicket standard defines for each variant
 - Common procedures and handlings
 - Common logo and pictograms

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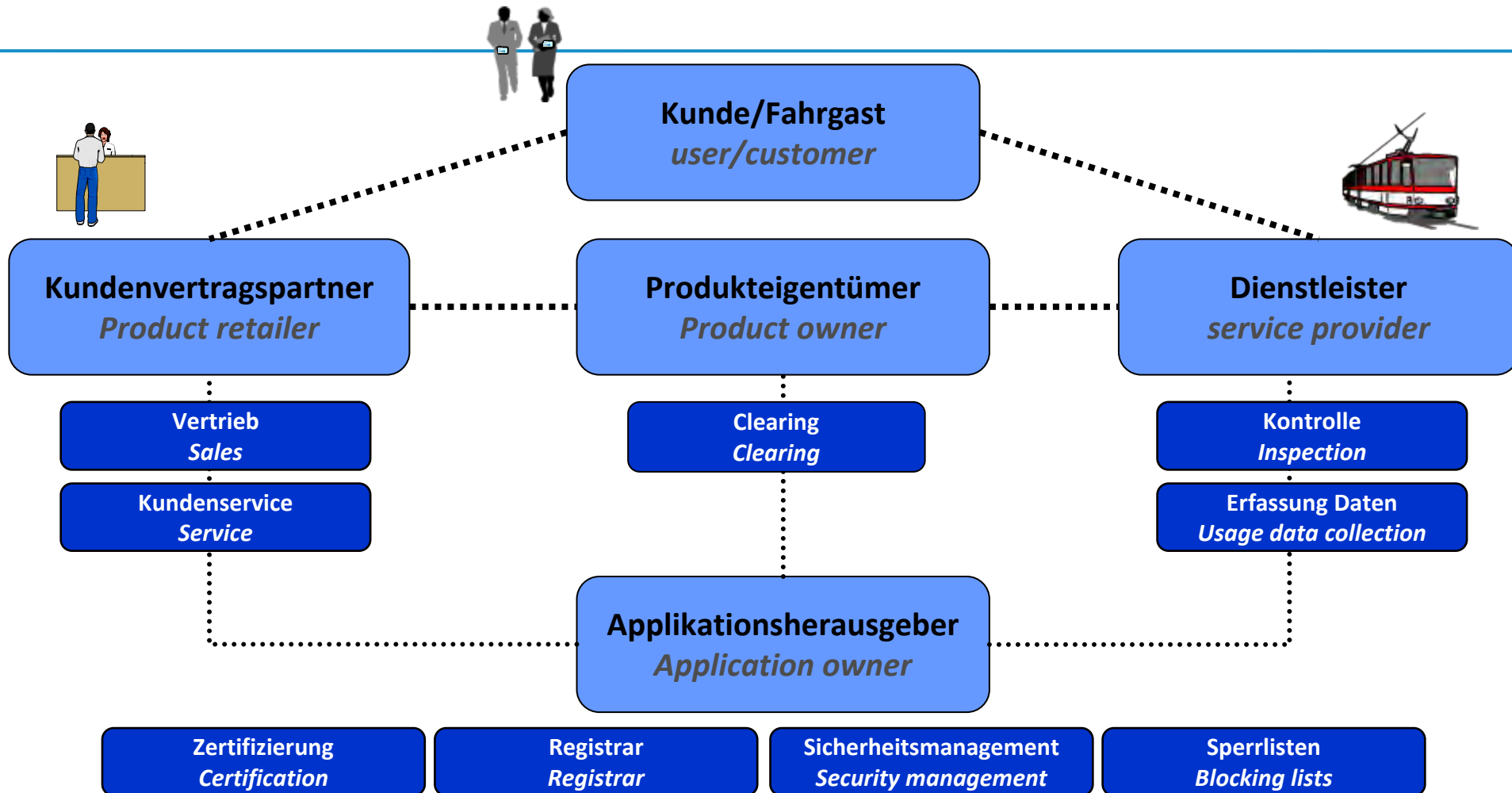


www.vdv-kernapplikation.de
www.eticket-deutschland.de



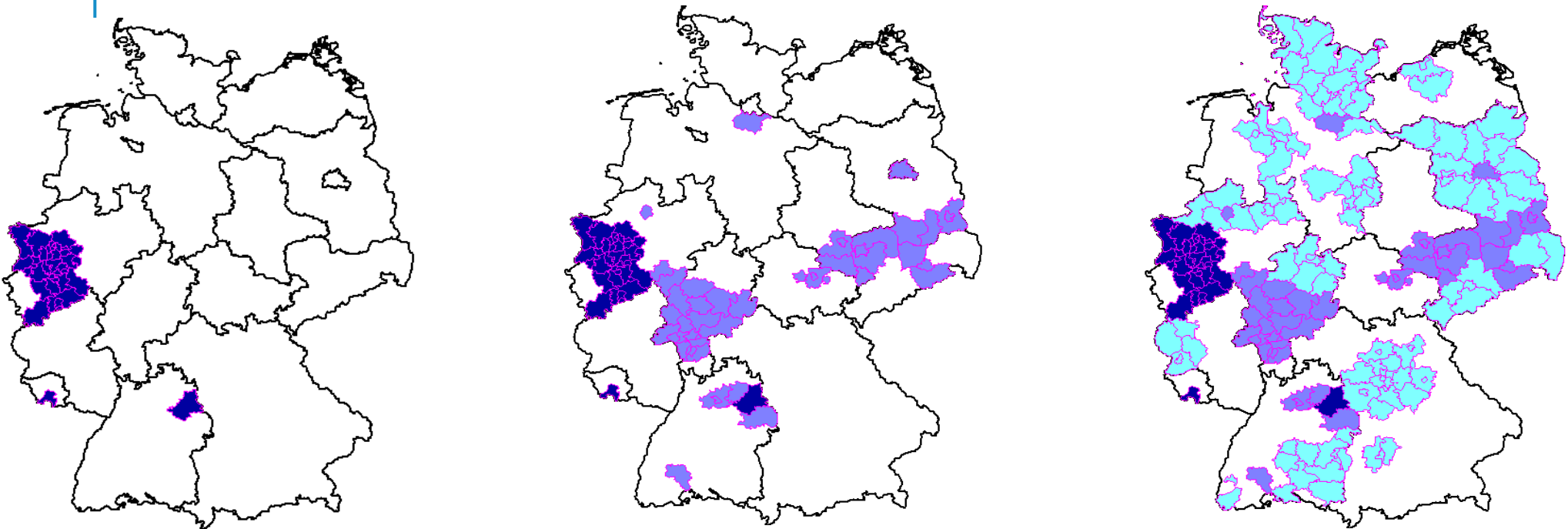
Role model of the VDV core application

Based upon EN/ISO 24014-1



The German Approach

Introduction of schemes, based on the VDV-CA



2007
2 million cards

2011
5 million cards

2015
>10 million cards

Situation February 2010, based on survey August 2008 + actualisation

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Benefits of eTicketing/EFM

User

Seamless Journey

No knowledge tariffs

Easy Access

**Customer adapted
Products**

Authority

**Simplify commercial
agreements**

**Remove barrier to
implementation**

Reliable System which works trustfully

Easy and Fair Settlement

Increase Boarding capacity

Reliable data for Transport planning

**Easy to extend to larger transport areas
and new services**

Enlarged Tariff Product Range

Operator

**Reduced Maintenance
costs**

**Competitive procurements
Reduced costs**



Benefits of a standard for eTicket systems

For the passenger

- Convenience: one medium, interoperability
- Easiness: same user interface everywhere
- A secure system; blocking lists when card is lost or stolen
- Transparency about data and data protection



For the public transport authorities and public transport operators

- Cost-saving components and distribution forms, e.g. by using bank cards
- New marketing platforms for more efficient market cultivation and customer-oriented offers
- An improved image of the transport industry
- Sustainability of investments
- Certification guarantees functionality and will allow “plug & play”.



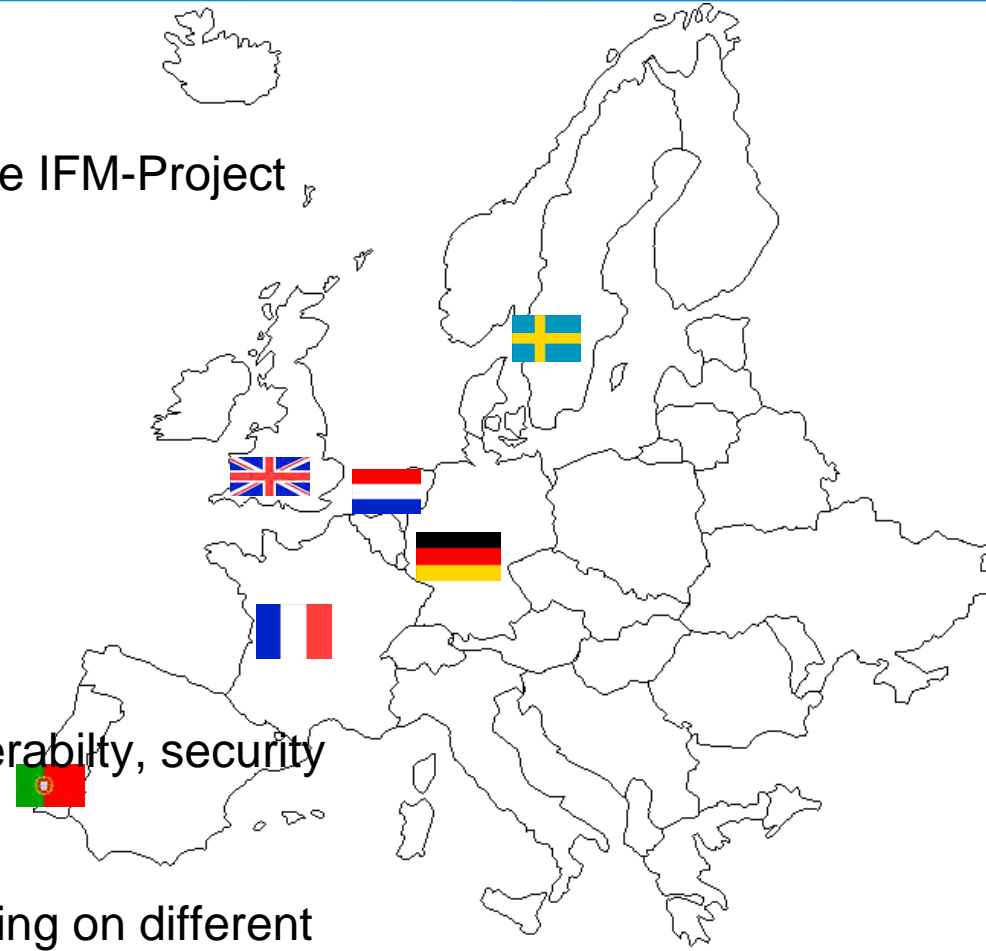
The VDV Core Application does not represent

- Implementation of a standardised tariff
- Implementation of standardised sales and distribution
- An obligation to implement all of the three EFM-variants
- The CA compels no one to implement EFM!



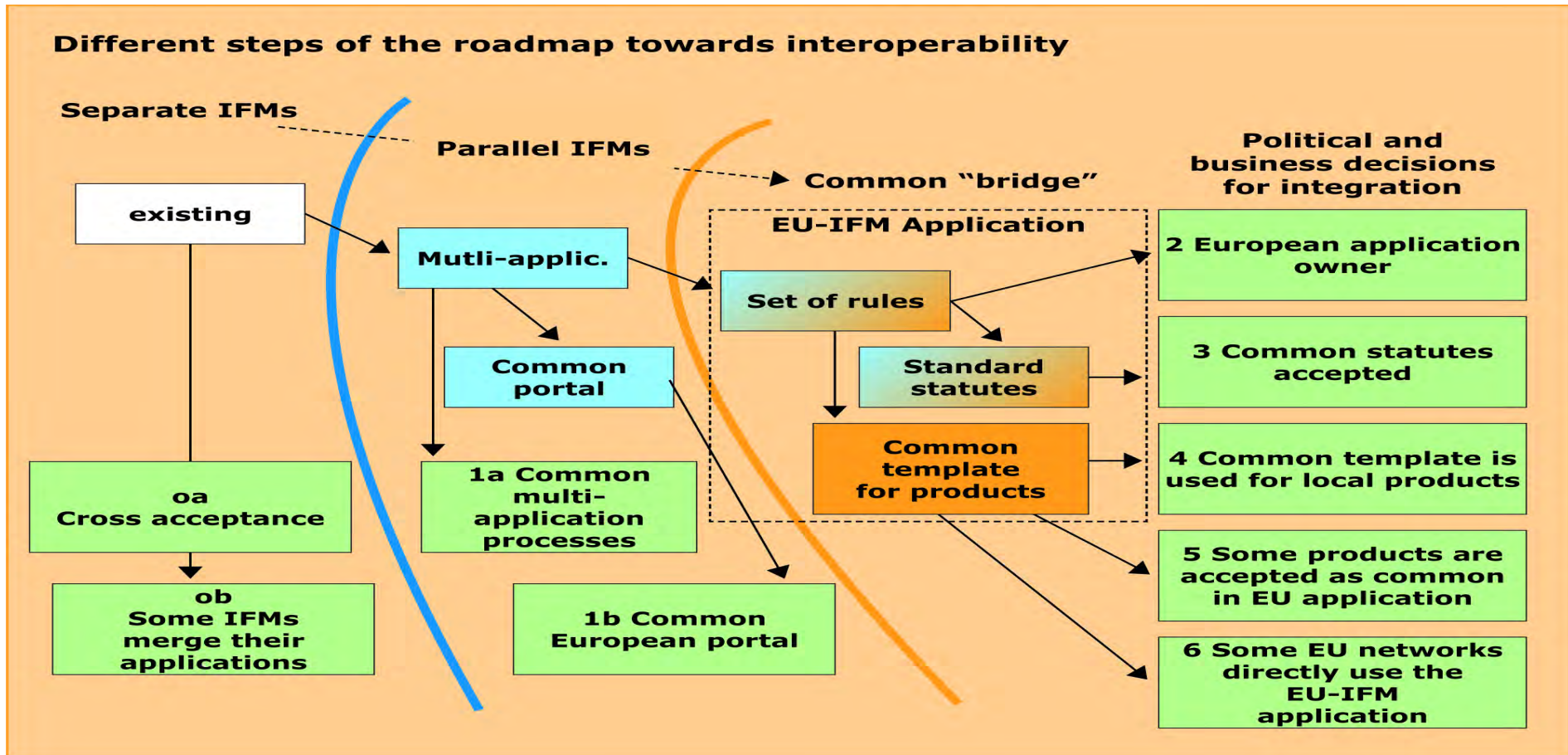
And elsewhere in Europe.....

- eTicket in nearly every European country
- migration to European interoperability: The IFM-Project
- The basis are the existing schemes:
 - **Calypso**
 - **ITSO**
 - Lisbon/Portugal
 - Sweden (RFK)
 - TLS Netherlands (SDOA)
 - **VDV-Core Application**
- large differences in questions on interoperability, security and technology.
- Migration steps allow interoperable ticketing on different levels of convenience for the EU citizens.



IFM in Europe

The Roadmap towards interoperability, IFM-1 and IFM-2



Source: IFM-Project



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VDV-Kernapplikations GmbH & Co. KG

We help you to introduce the ((eTicket

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