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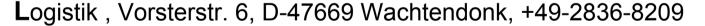
Electronic Fare Management,

Europe, and

Interoperability

A Plea

Prague, February 21, 2008

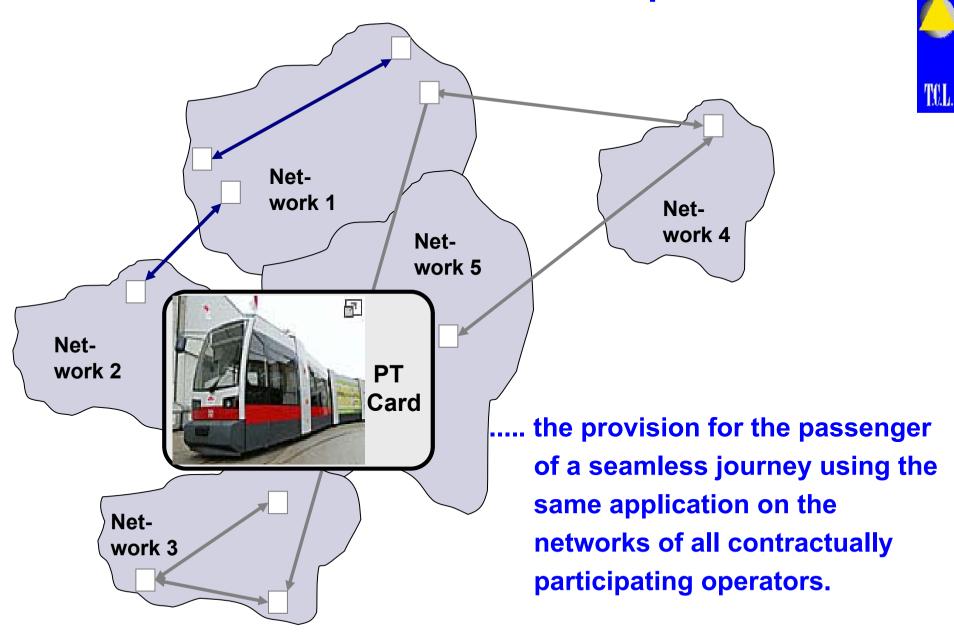


EC's declared belief in interoperability

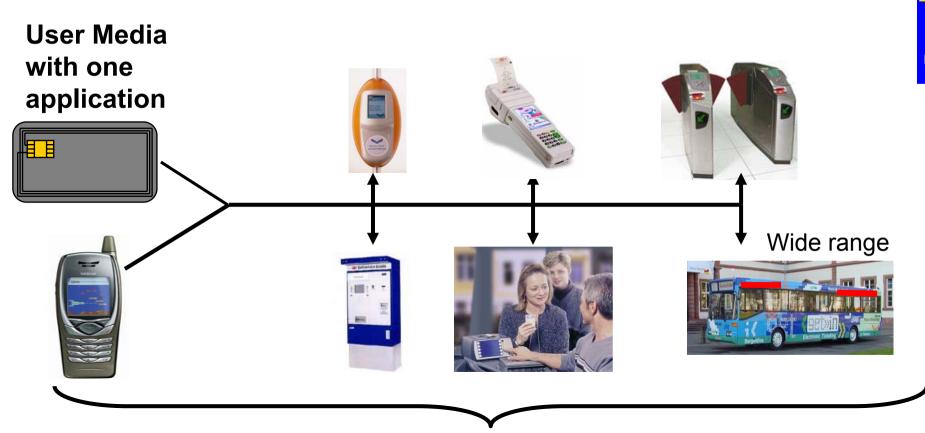




INTEROPERABILITY in Public Transport is.....



Interoperability – what does it mean?



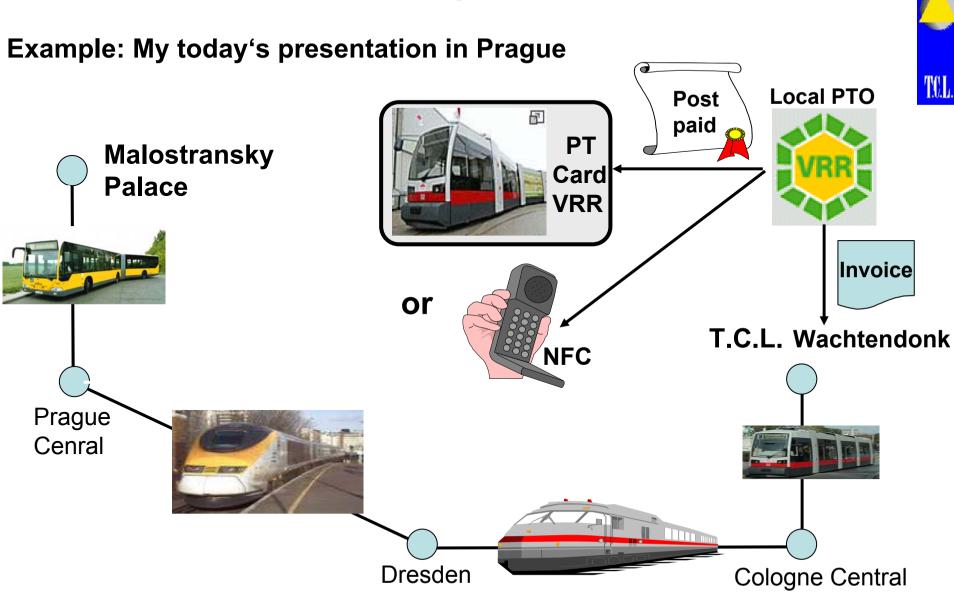
Transactionclearing, Hotlisting and Securitymanagement Support of all payment modes (post-/pre-paid account, token, cash)

Unique Security Architecture (End-to-End-Security)

Common Rules & Regulations

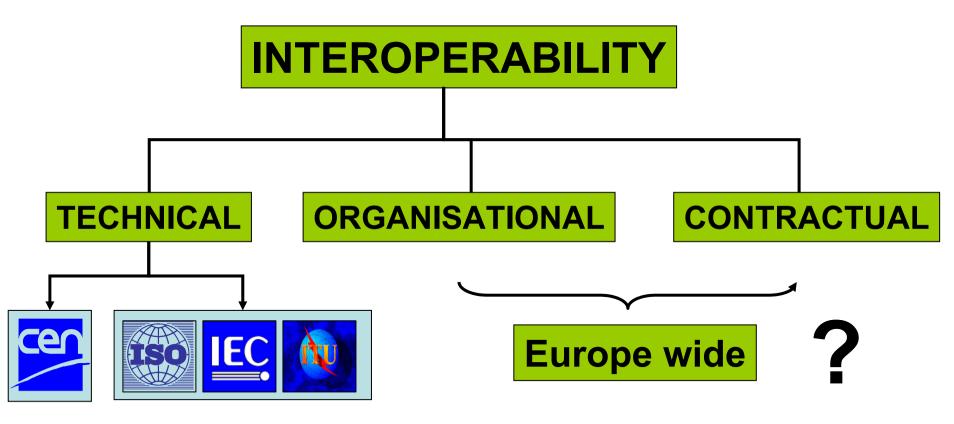
No manipulation of existing regional tariff systems

European Interoperability in PTlive

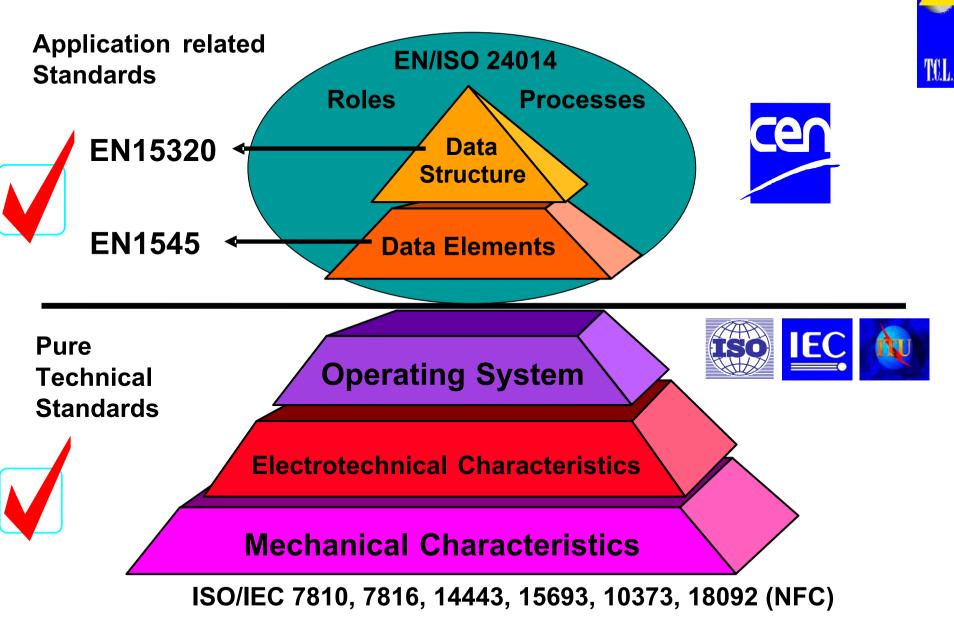


Interoperability in IFM needs Standards and Commitments

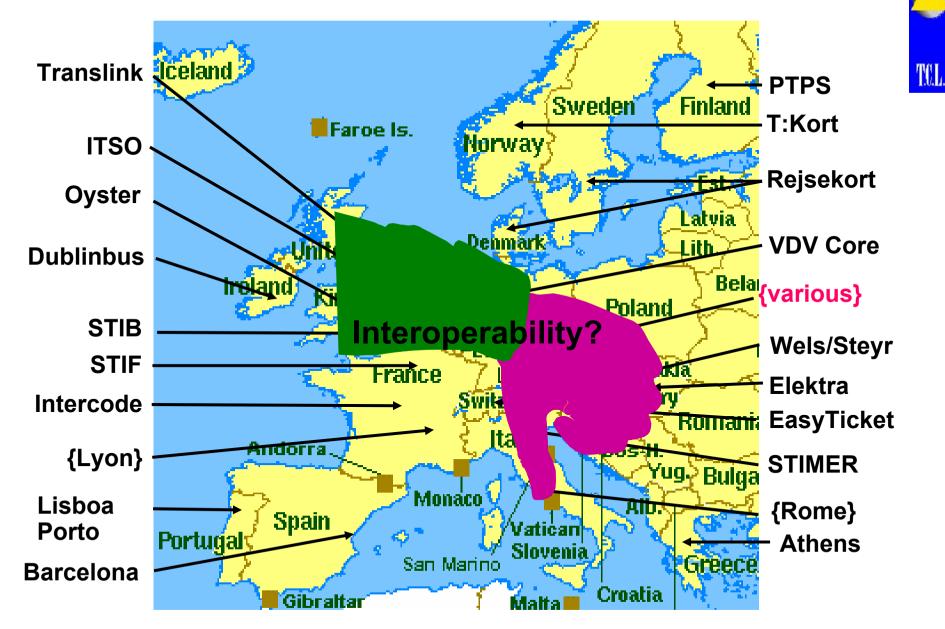




The technical standards of the user media are available



.....but what does Europe make out of it?



IFM in Great Britain (ITSO Standard)

Systems on basis of the standard

Situation as of 01.04.2008:

All new "concession passes" (cp) are issued on ITSO Cards.

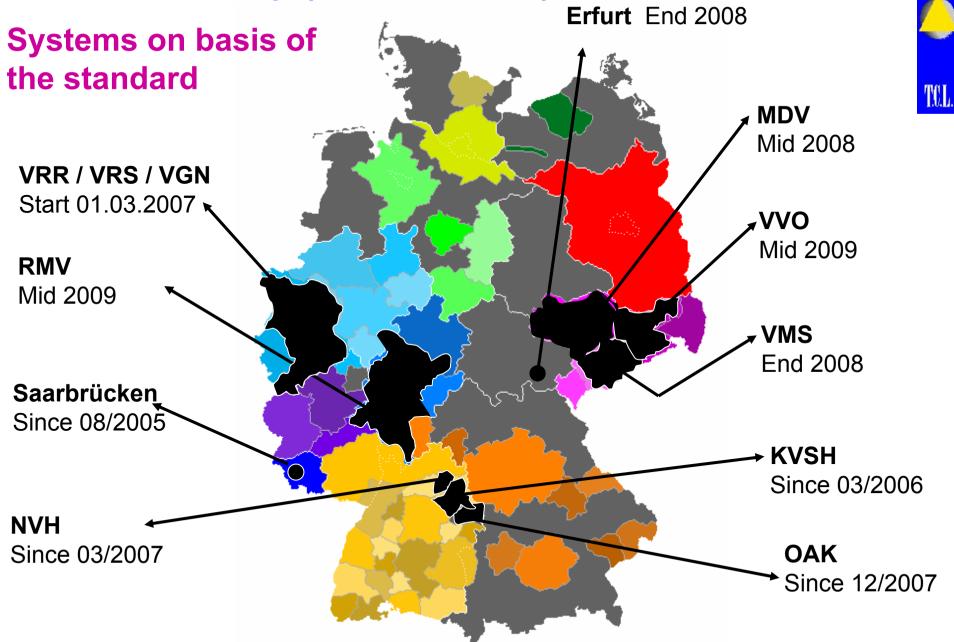
At present the issue of ca. 3,6 Mio ITSO Cards in various Counties and Cities is planned until end 2008 — mainly for cp but also for other products.

BUT: even though the national standard exists there is no full interoperability between England and Scotland.

Migration of Oyster (TfL) until 2010



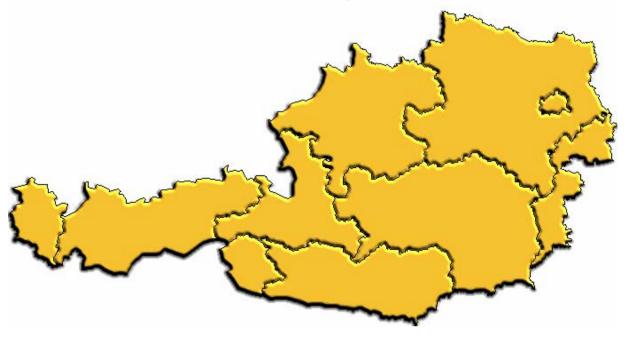
IFM in Germany (KA Standard)



IFM in Austria (Transmobil Standard)

Future systems on basis of the standard

At present the national standard for an IFM is going to be elaborated in a research project



IFM in the Netherlands (Translink System)

The System builds the standard

CiCo countrywide in all PT vehicles

Stored travel rights and passes

Countrywide interoperability is achieved by THE system supplier (East West Consortium)

Step-by-step implementation 2008-2016



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IFM in Danmark (Rejsekort System)

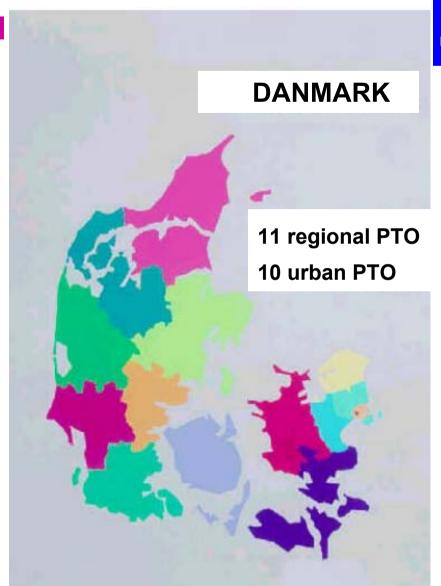
The System builds the standard

CiCo countrywide in all PT vehicles

Stored Travel Rights and Post-paid Account

Countrywide interoperability is achieved by THE system supplier (East West Consortium)

Step-by-step implementation 2008-2016



IFM in Italy

Several local IFM-Systems without being interoperable

Rome

Florence

Naples

Brescia

Perugia

Terni

Emilia-Romagna:

9 provinces with 11 big PTOs create 1 tariff system and 1 IFM-System (STIMER) as a regional standard and thus guarantee regional interoperability

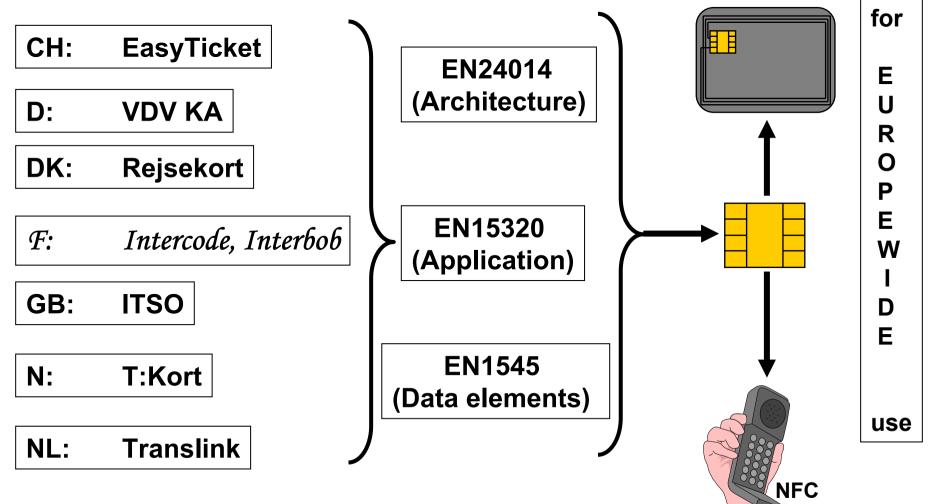


TCL.

Migration from National to European Interoperability by applying existing European Standards





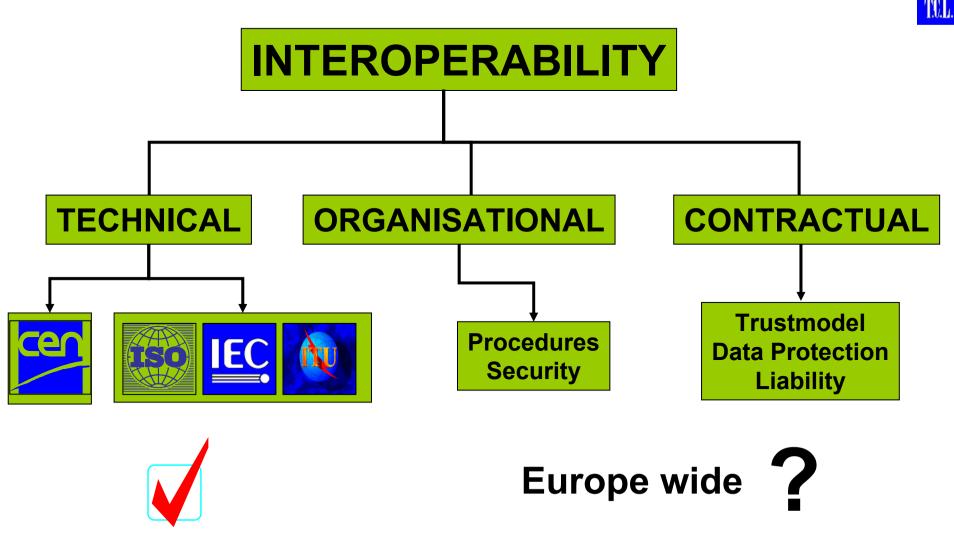


Résumé:

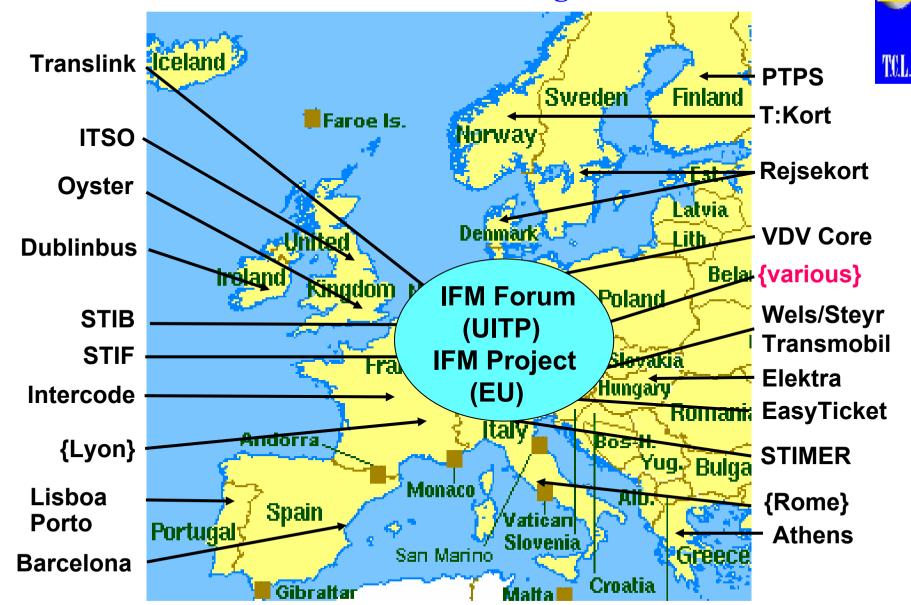




Interoperability in IFM needs Standards and Commitments



Create a European Platform for Integration and Coordination in Electronic Fare Management



Besser, Sie wählen den Standard.

It's better you use the standard

