Generic principles of good IT governance
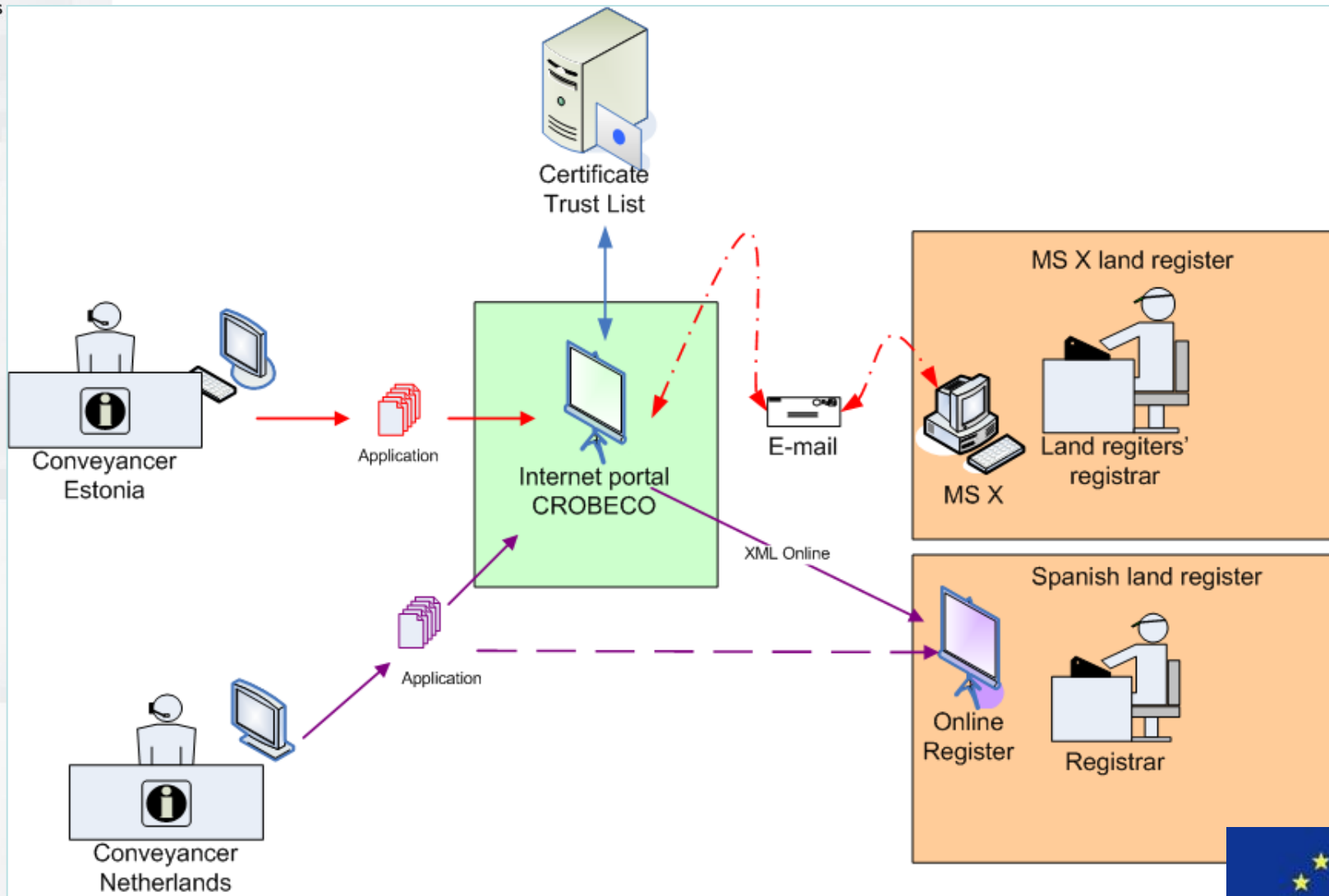
&

Large Scale Projects

Ingmar Vali

Cross-border E-conveyancing portal concept

1. Security

1. Confidentiality
2. Non repudiation
3. Authorization
4. Identification/ authentication
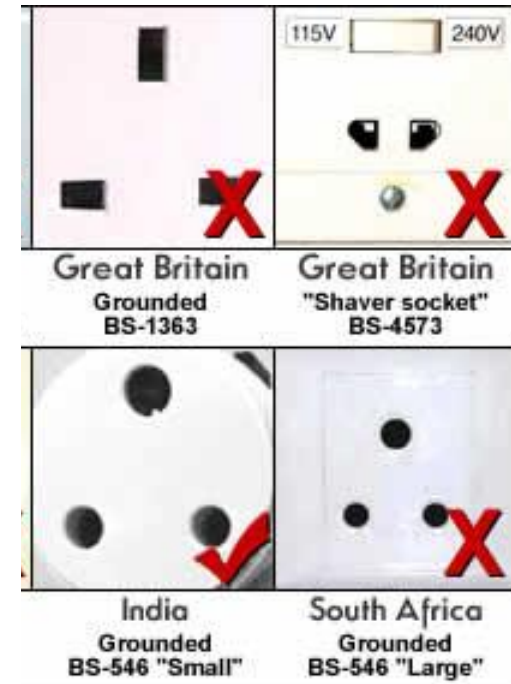5. Data integrity
6. Availability…

2. Good practice

1. Reuse of EU Large Scale Pilots results.
   1. Authentication system
   2. Electronic signature creation/validation system
   3. MS practice

3. PKI and electronic signature across borders!?

North America
Grounded
NEMA 5-15

Japa...
Non-grou...
JIS C 8...

Australia/China
Grounded
AS-3112

Italy
Ground...
CEI 23-...

Great Britain
Grounded
BS-1363

Great Britain
"Shaver socket"
BS-4573

India
Grounded
BS-546 "Small"

South Africa
Grounded
BS-546 "Large"

115V   240V

Challange comparison

Large Scale Pilots

Authentication

Authorization

Electronic signature

Cross-border proceedings

File and data transfer

Language

Semantics

…..

e-Conveyancing

Authentication

Authorization

Electronic signature

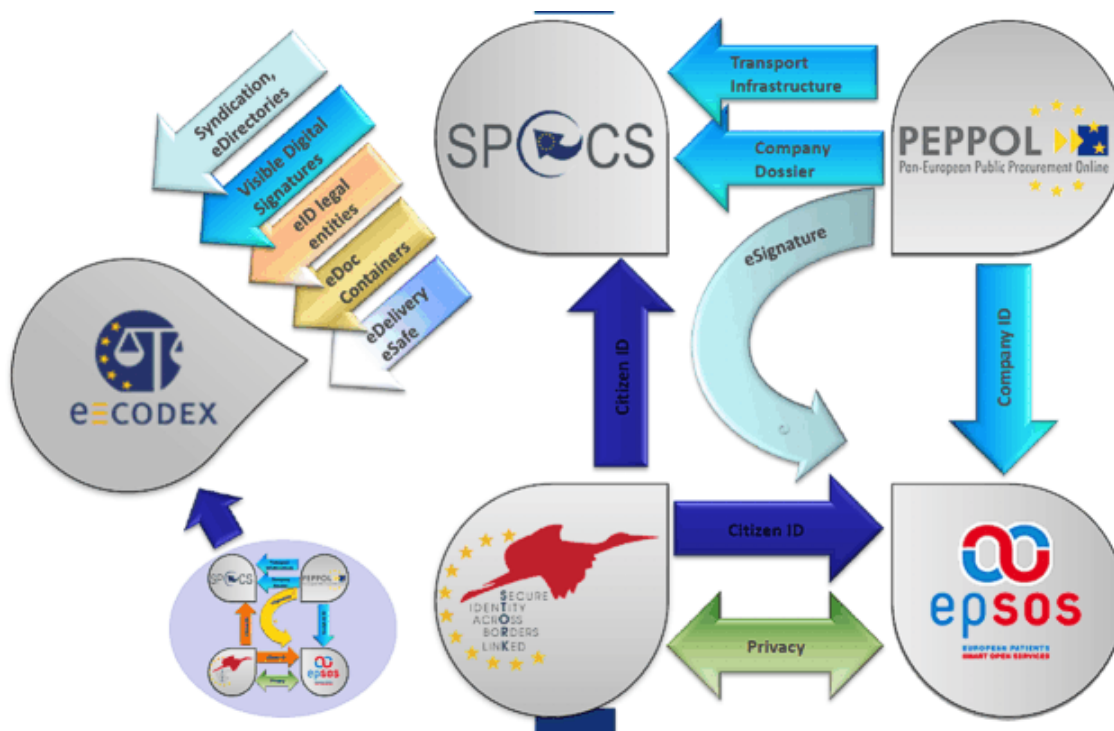Cross-border proceedings

File and data transfer

Language

LR differences

….

LSP's

Large Scale Pilot Projects (LSP)

The idea:

- Create sustainable and extensible solutions

- Create software building blocks which can be easily adopted and used for different kinds of IT-projects

Existing software building blocks

- e-Delivery, e-ID, e-Signature, semantics, …

Carsten Schmidt, Germany

24.09.2014

e-CODEX *partners*

Partner for a faster justice interoperability

- Austria
- Belgium
- Czech Republic
- Estonia
- France
- Germany
- Greece
- Hungary
- Italy
- Ireland
- Jersey
- Lithuania

- Malta
- The Netherlands
- Norway
- Poland
- Portugal
- Romania
- Spain
- Turkey
- United Kingdom
- CCBE and CNUE
- ETSI

Carsten Schmidt, Germany

24.09.2014

e-CODEX

Enabling access to justice systems across Europe:

- Easy and secure access to legal information and procedures
- "Improve the cross-border access of citizens and businesses to legal means in Europe as well as to improve the interoperability between legal authorities within the EU."
- Greater cross-border effectiveness of legal processes through common standards and greater interoperability of information systems
- http://www.e-codex.eu

Carsten Schmidt, Germany

24.09.2014

# e-CODEX pilots

Piloting

- **Civil Justice**
  - Small Claims
  - **European Payment Order (EPO)**
  - *Synchronous communication*
    (e.g. business register interconnection)

- **Criminal Justice**
  - Mutual Recognition of Financial Penalties
  - **Secure Cross-border Exchange of Sensitive Data**
  - European Arrest Warrant

Carsten Schmidt, Germany

24.09.2014

Architectural Overview

Carsten Schmidt, Germany

24.09.2014
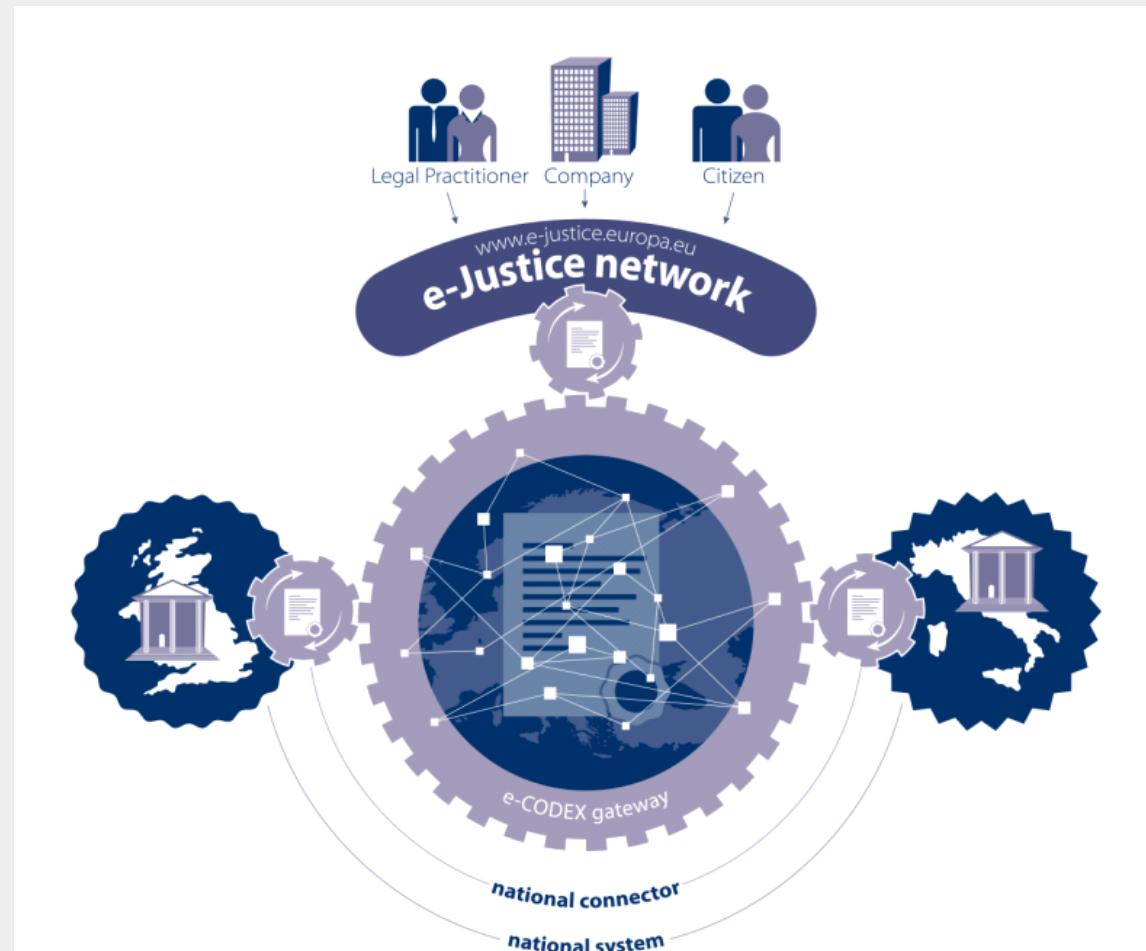
STORK

STORK and STORK 2.0

The STORK project aimed at establishing a European eID Interoperability Platform. With this platform, any identification required across borders would be done by presenting national eID. Cross-border user authentication was applied and tested by the project by means of five pilot projects that used existing government services in EU Member States. Additional service providers were also connected to the platform, increasing the number of cross-border services available to European users.

STORK 2.0

Secure iden**T**ity acr**O**ss bo**R**ders lin**K**ed 2.0 will contribute to the realization of a single European electronic identification and authentication area. By using and enhancing the results of STORK, this project establishes interoperability of different approaches at a national and EU level.

STORK 2.0 will be a step forward towards the creation of a fully operational framework and infrastructure for electronic identities and authentication in the EU.

The Pilot eGov Portals

★ Points of Single Contact, PSCs, for EC Services Directive → *GR, IS, LT, SK*

★ One-stop business service portals → *AT, FR, LU, PT, SI*

★ other national eGovernment portals → *BE, EE, IT, NL*
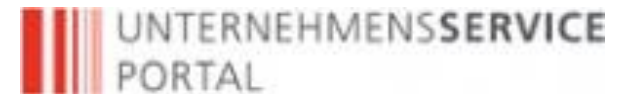
An example

- Existing applications have IDM in place
  - cf. ECAS
- Usually not populated with STORK IDs

eSens?

E-Sens using LSP-s

Technical Solutions

- e-SENS competence clusters

- Released LSP Products

  - PEPPOL

  - SPOCS

  - STORK

  - epSOS

  - e-CODEX

- Interoperability and Standards

WP6 Status
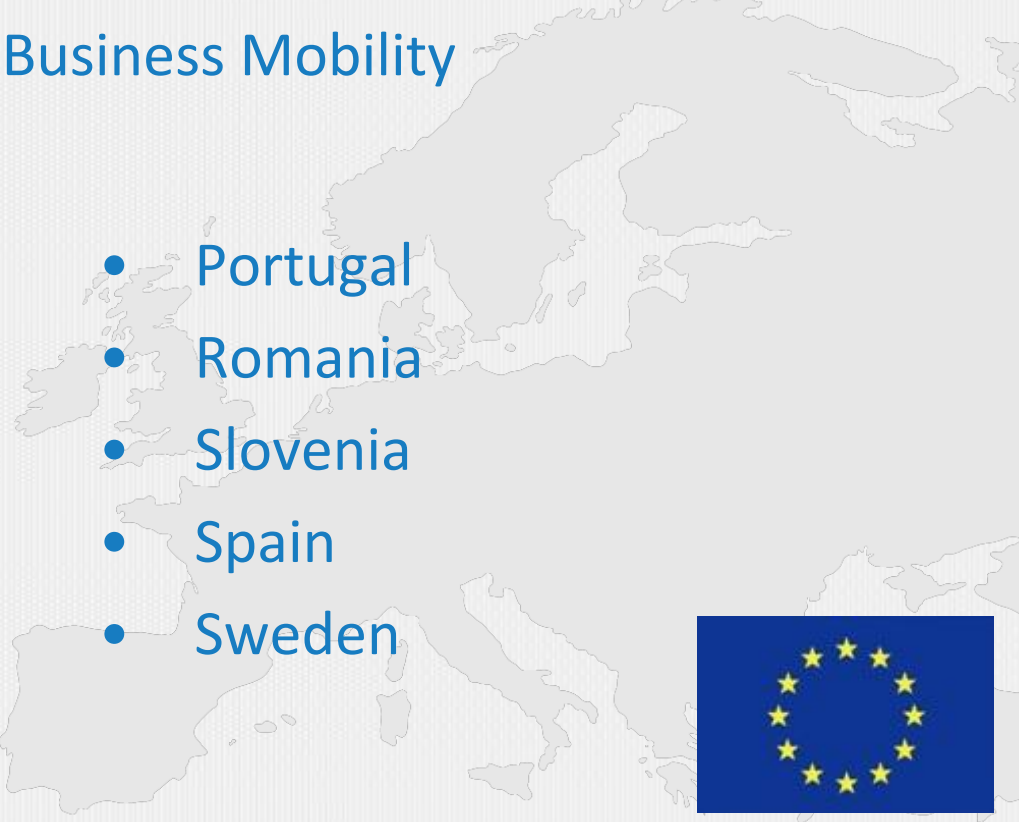
Business Lifecycle domain

e SCOPE

- aims to pilot the e-SENS building blocks that fit in use cases related to the Services Directive and the Business Registries facilitating the Business Mobility

e Participant countries

- Denmark
- Estonia
- Greece
- Ireland
- Norway
- Poland

- Portugal
- Romania
- Slovenia
- Spain
- Sweden

Use Cases and Building blocks

- E-delivery can be used.
- E-documents
  - Packaging will be used,
  - Logging needs to be further discussed,
- Semantics
  - Generic metadata will be used,
- Signature
  - Signature creation: can be member state specific issue,
  - Signature validation will be used,
- eID will be used
- Security and trust evidence, timestamp,
  - Mutual key Exchange
  - Needs to be further discussed

REGULATION (EU) No 910/2014 on electronic identification and trust services for electronic transactions in the internal market (eIDAS)

eIDAS expert group
7th meeting

eIDAS Task Force
DG CONNECT, European Commission

Outcome of on-line public voting

Logo		Votes		
		Confirmed	**Unconfirmed**	**Total**
	EUSAFE	432	112	544
	ELSE	227	91	318
	Noblesse Oblige	154	39	193

conclusions

1. Security can be easily guaranteed with qualified electronic certificates & signatures.
2. For cross border systems LSP deliverables could be reused.
3. Piloting is good practice, it reveals the bottlenecks.