



SENS

e-SENS

Electronic Simple European Networked Services

ICT 2015

Live Demonstration - Seamless access to key medical information from another country

Alexandre Santos (SPMS, EPE (PT) - WP5.2)

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About Me



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Software Engineer at SPMS, EPE (PT)

Previous Projects

- epSOS (2012-2014)
- Trillium Bridge (2015)

Current Project

- eSENS (WP5.2)
- OpenNCP
 - eID
 - SMP/SML



Aim

- **Present enhancements of the former epSOS project with cross-sectorial Building Blocks:**
 - Non Repudiation
 - eID to seamlessly identify patients
 - Central Services Refactoring

Note: this is WIP



- **Started in 4/2014 => 36 months**
- **Programme:** Competitiveness and innovation framework programme (CIP), ICT policy support programme
- **Goals:**
 - facilitate the mobility of citizens and business in the EU
 - consolidate, improve and extend existing technical solutions
 - turn the “vision” of a single market into a reality



eSENS covers different cross-border use cases:

- e-Health
- e-Justice
- e-Procurement
- Business Setup

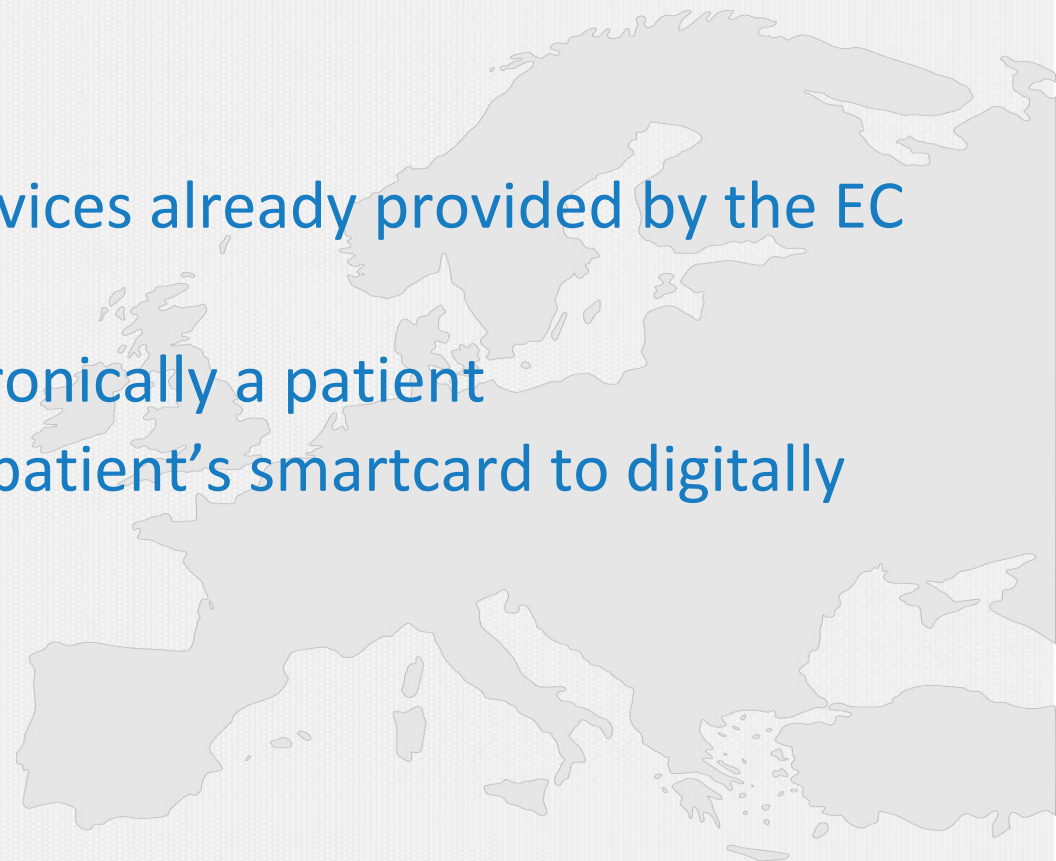
Solutions to:

- make it easier to set up business in the EU
- electronic bidding, access to legal systems
- use healthcare services abroad



Current enhancements on eSENS Pilots:

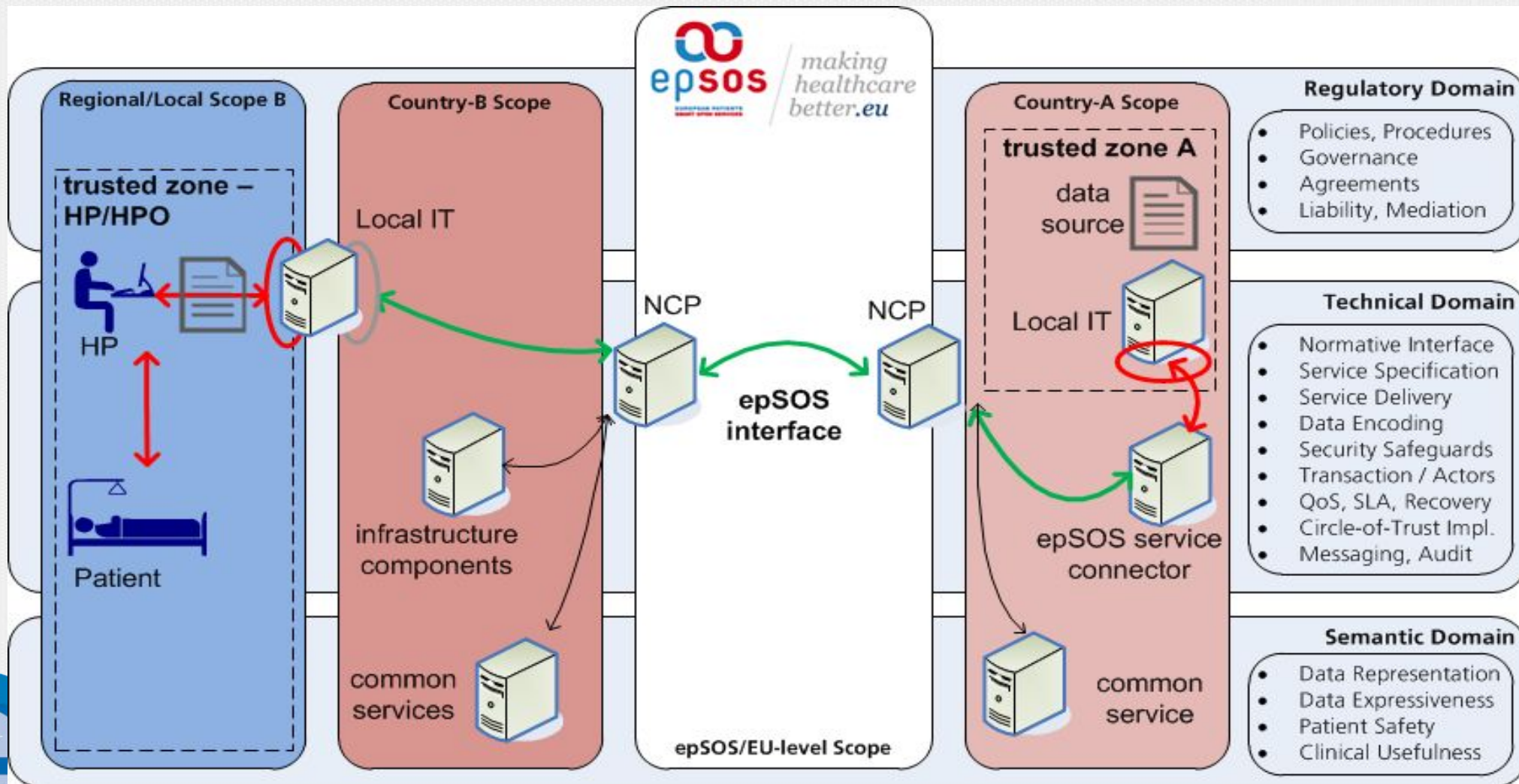
- **Non-Repudiation**
 - Implement NRR and NRO
- **Central Services**
 - Mutualize the central services already provided by the EC
- **eID**
 - Seamlessly identify electronically a patient
 - Use the certificates on a patient's smartcard to digitally sign assertions



epSOS Architecture



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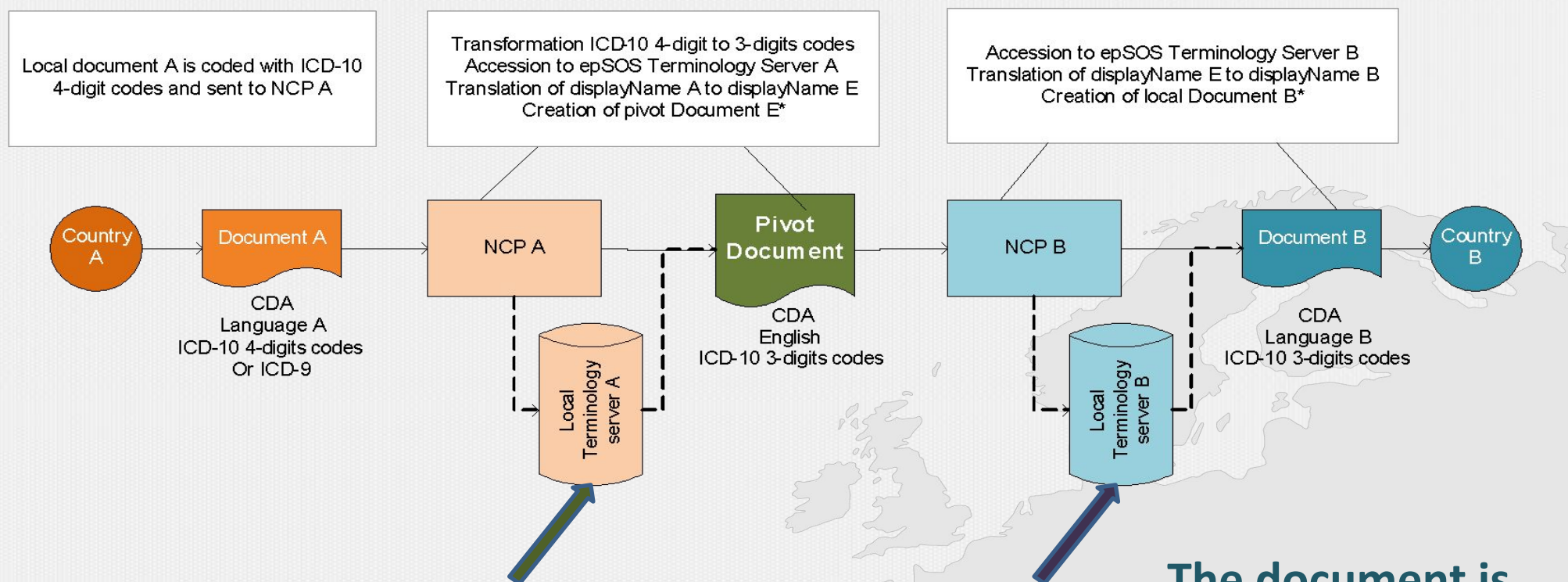


Document Transformation



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Source: epSOS project



epSOS Central Reference Terminology Service:
Master Value Set Catalogue: [MVC,]
Subset of International Coding Systems (WHO ICD10, ATC;
SNOMED-CT, EDQM, UCUM, HL7, IHE, ISCO)+
Master Translation/Transcoding Catalogue [MTC]

The document is transformed into Pivot HL7 CDA L3, transcoded and translated

Use Case

- **Mr. Incontattozero, a citizen from Italy, is visiting Lisbon for ICT 2015**
- **He suffers from hypertension and starts to feel a pressure on his chest**
- **He goes to the Emergency of Hospital Santa Maria and he's seen by doctor Santos**
- **Mr. Incontattozero carries his eID card from Lombardia, Italy**



Non Repudiation

- **Legally confirming that the information was accessed by someone**
- **Can't legally affirm that it was not access = Non Repudiation**
- **Already been tested on IHE Connectathon 2014 in Luxembourg**

Watch the Video :-)



The WP5.2 Team is considering the existing solution based on the SMP/SML standard from OASIS

- PEPPOL is using it
- New needs that arise from the specific use case on eHealth
 - OASIS TC + DIGIT
- **Not piloting as we speak :-)**
 - Dec 2015 / Mar 2016

