Secure and Trusted Paradigm for Interoperable eHealth Services

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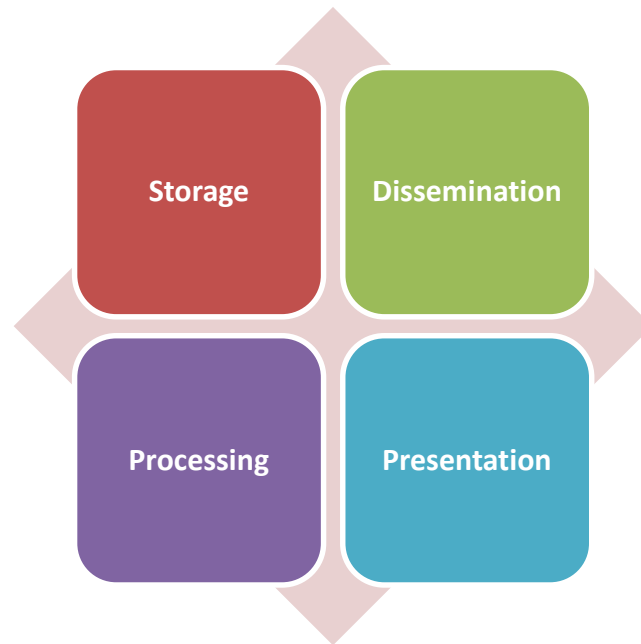**KONFIDO Project Coordinator**

EXUS Software Ltd

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KONFIDO means "Trust" in Esperando

Our vision

Develop a **holistic** solution for interoperable and secure eHealth services at European level

The challenges

- **User-centric** approach
- Handle **legal**, **privacy** and **ethical** issues
- Ensure **interoperability** and **scalability**
- **Validate** and **evaluate** (ethical, technical and business)
- **Commercially** exploit the outcomes of the project
- **Cooperate** with projects such as OpenNCP and STORK

eHDSI and OpenNCP

OpenNCP is a part of the eHealth Digital Service Infrastructure (eHDSI) and allows for the exchange of eHealth Data in Europe

- Patient Summary
- ePrescription

eHealth DSI Deploying Countries

	PS	eP
Austria	♥	♥
Croatia	♥	♥
Cyprus	♥	♥
Czech Republic	♥	
Estonia	♥	♥
Finland		♥
France	♥	
Germany	♥	
Greece	♥	♥
Hungary	♥	♥
Ireland	♥	♥
Italy	♥	♥
Luxembourg	♥	
Malta	♥	
Portugal	♥	♥
Sweden		♥
Switzerland	♥	♥

The innovation pillars

1st Pillar: Enhancement of the trust and security of interoperable eHealth services

2nd Pillar: Continuous validation and proof of concept demonstrations

3rd Pillar: Focus on stakeholders, improving user acceptance, adhering to standards and legal and ethical directives

The technology pillars

- Design and implement a **STORK-compliant eID infrastructure**

- Implement **disruptive logging and auditing** mechanisms

- Exploit the new **security extensions of COTS CPUs** for creating protected execution environments for eHealth applications

The technology pillars

- Develop novel **photonic encryption key generation** technologies

- Build an efficient **homomorphic encryption** mechanism supporting secured health data storage, processing and exchange

- Develop **customized SIEM solutions** for real-time monitoring of the security of eHealth applications
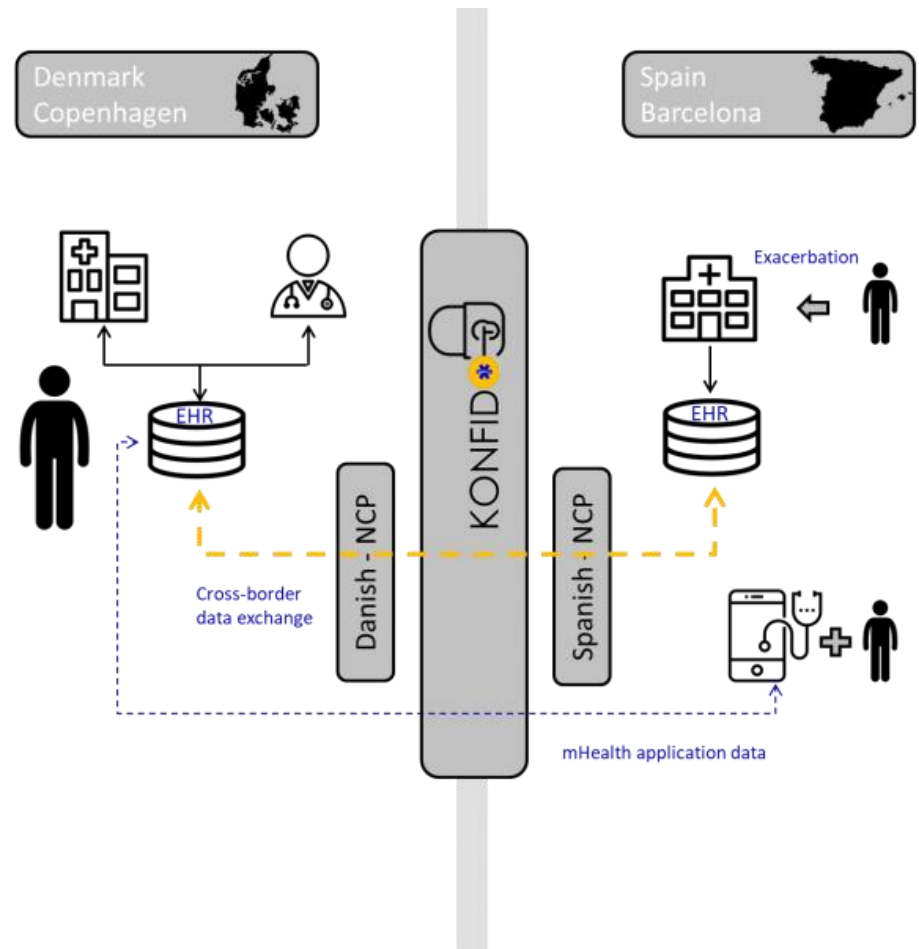
Conceptual view of KONFIDO architecture
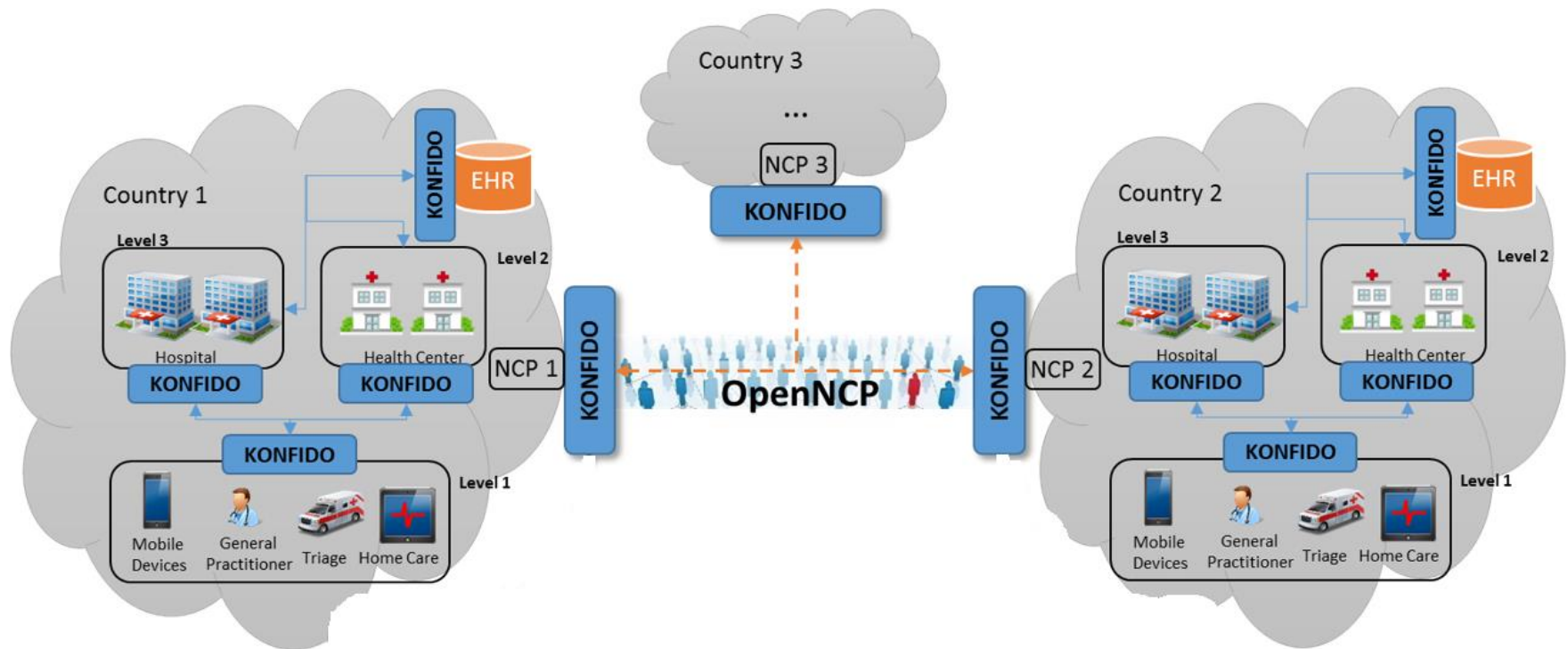
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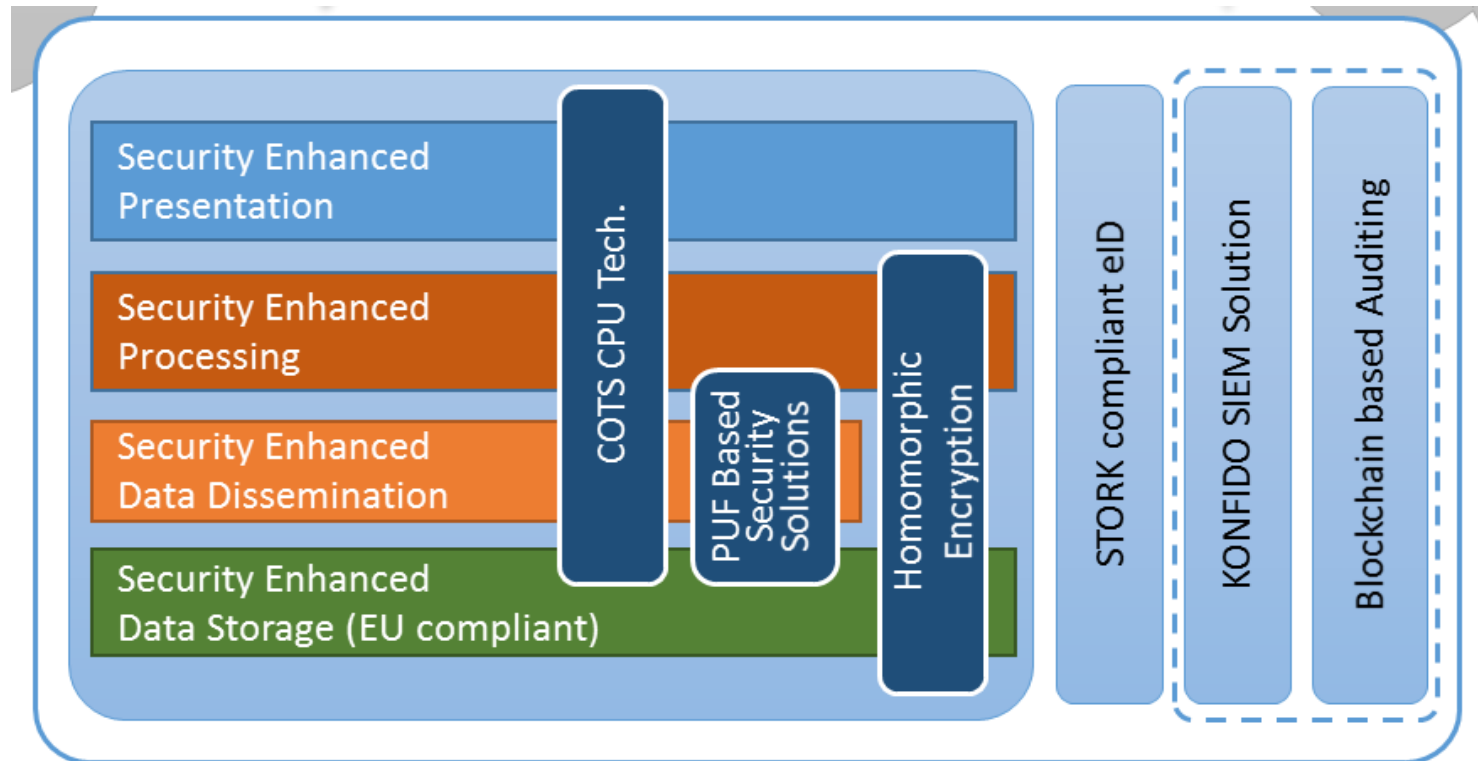
Validation pilots

- Pilot sites in:
  - Italy
  - Denmark
  - Spain

KONFIDO Consortium

15 **partners**
7 **countries**
2 **pilots**
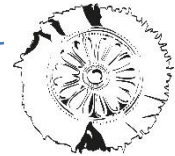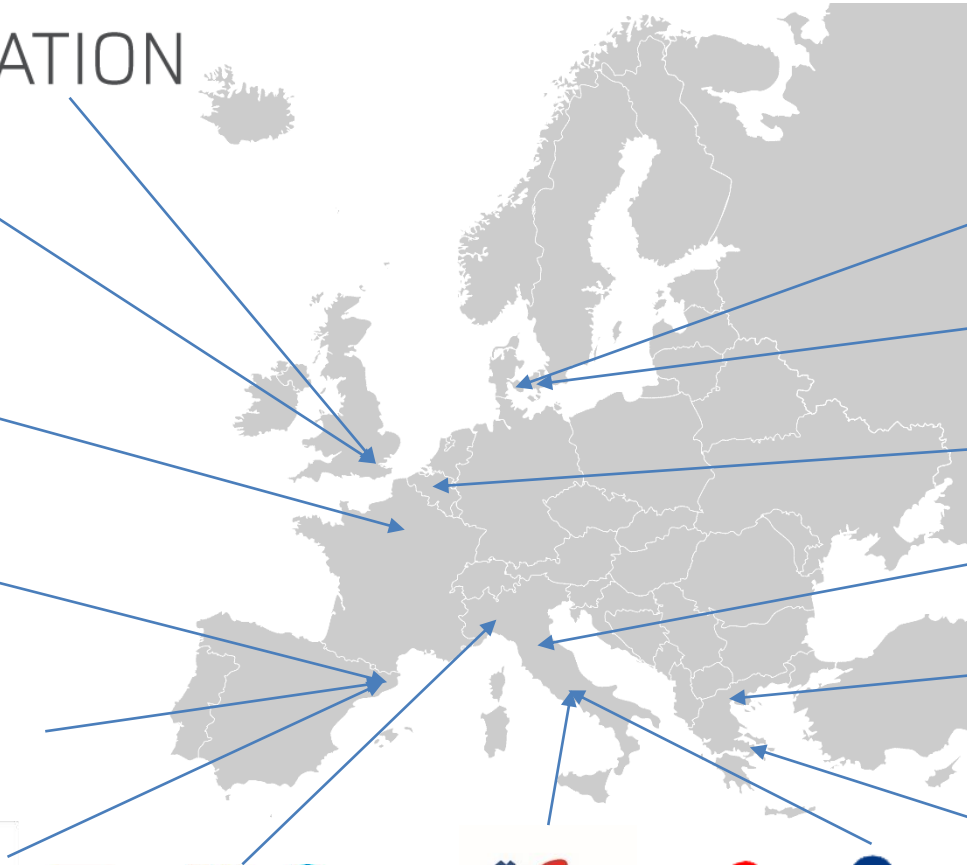
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Partners

EXUS (Coordinator), CERTH, CINI, CEA, TLX, EULAMB, TLB, EURECAT, MEDCOM, ICL, BIT4ID, PAUSIL, SUNDHED, AQUAS, IDIBAPS