



Secure and Trusted Paradigm for Interoperable eHealth Services

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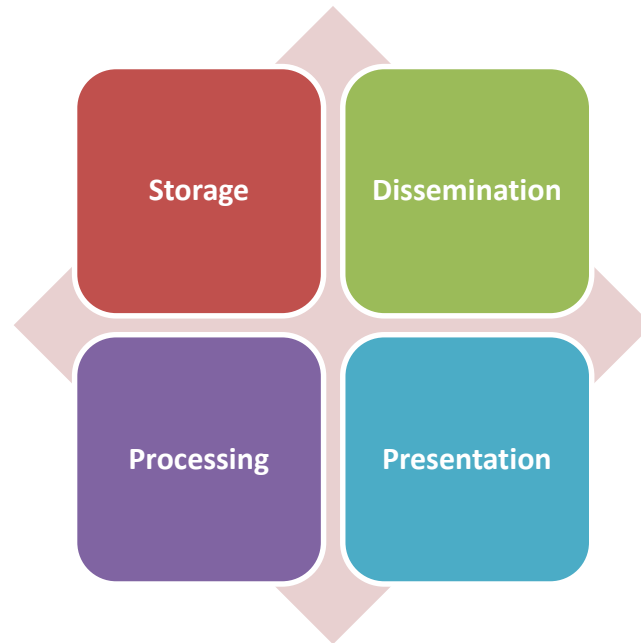
EEMA's 30th Annual Conference

4th-5th July 2017, London, UK

KONFIDO means “Trust” in Esperanto

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

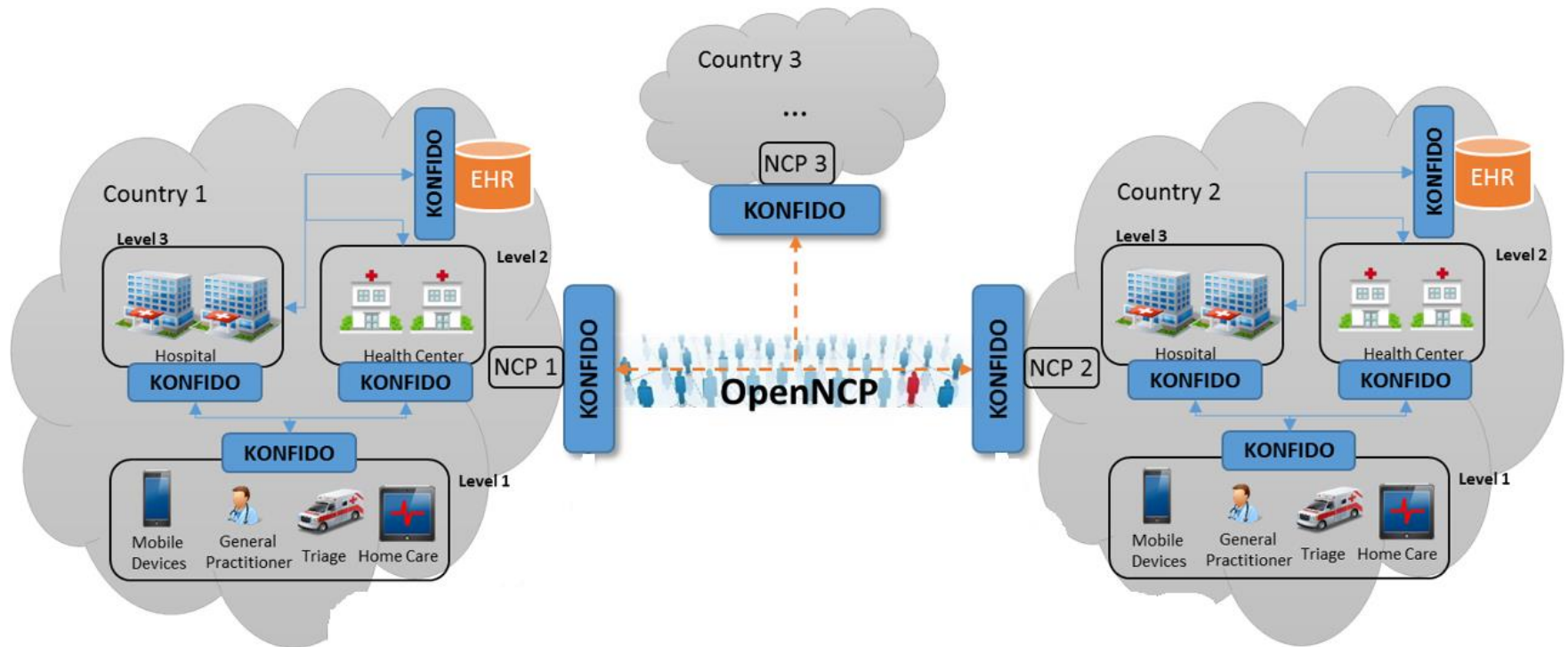
The technology pillars

- 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

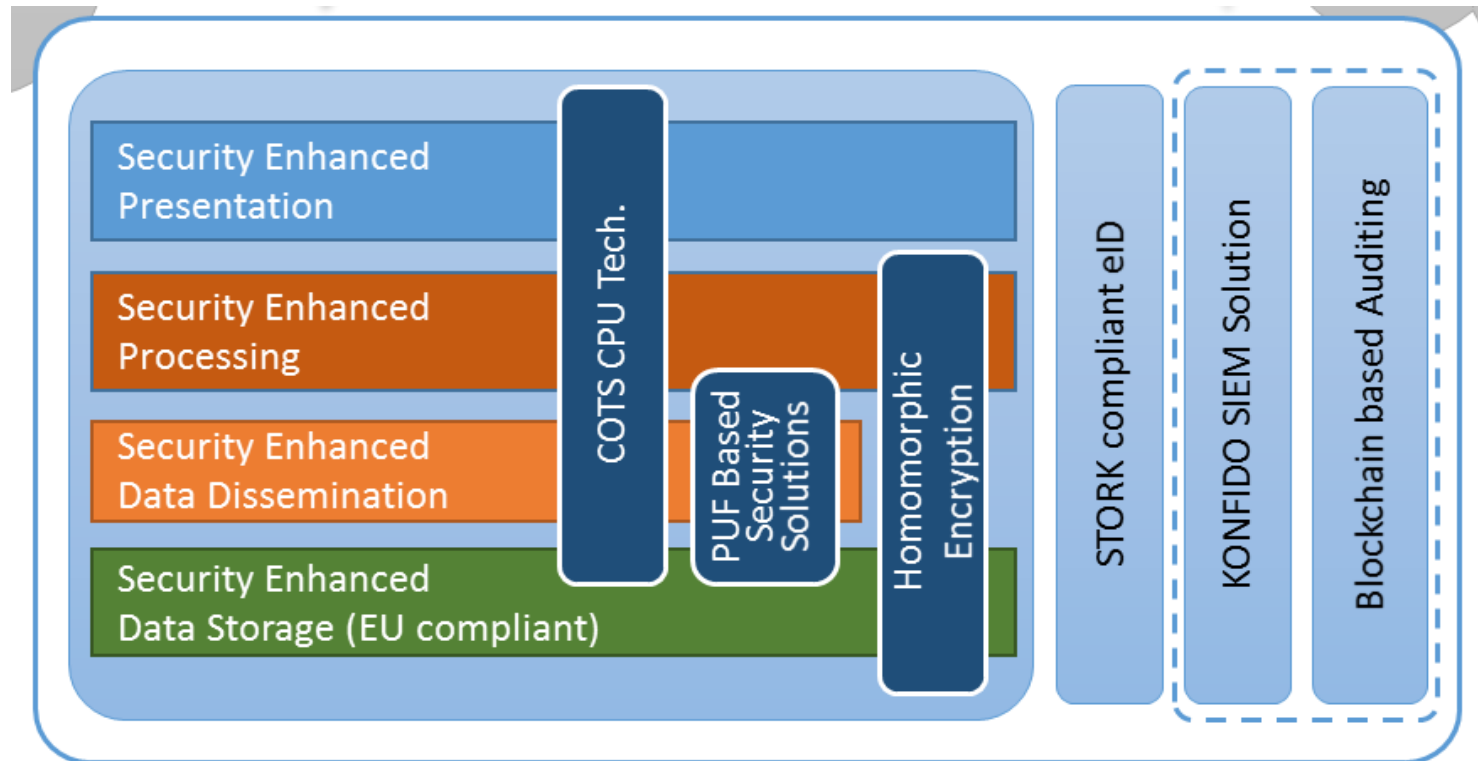
The technology pillars

- 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

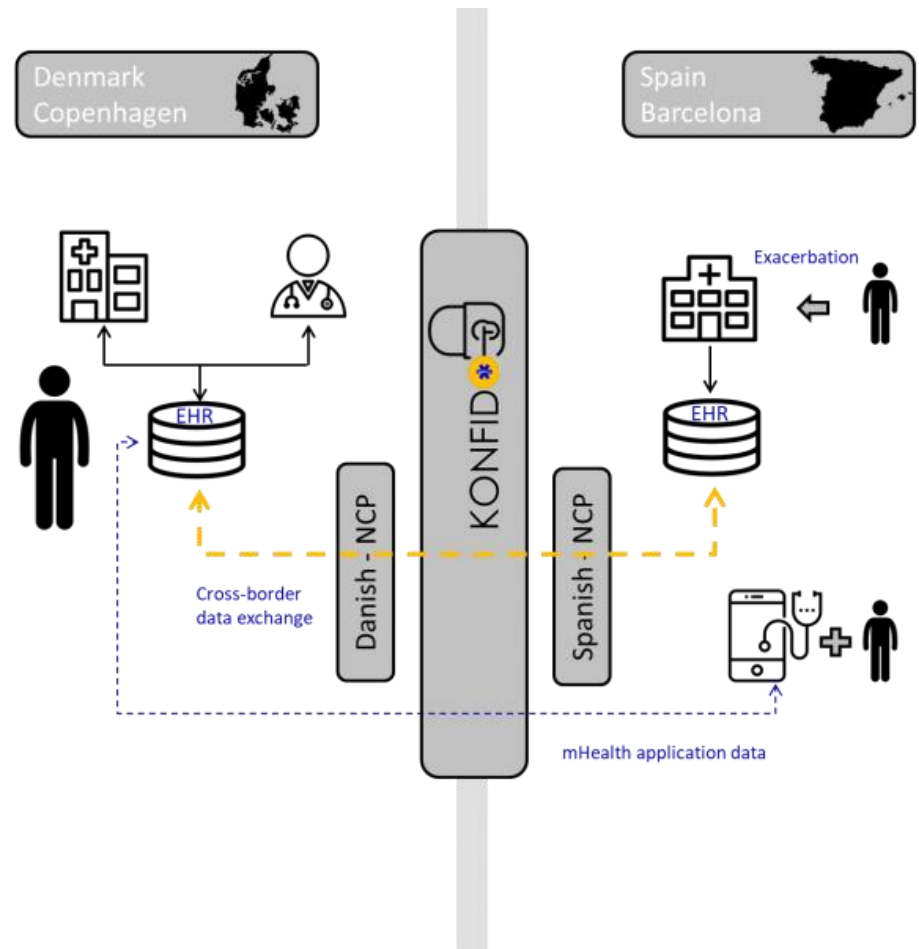


Conceptual view of KONFIDO architecture



Validation pilots

- Pilot sites in:
 - Italy
 - Denmark
 - Spain



KONFIDO Consortium

15 partners

7 countries

2 pilots

EXUS.INNOVATION

Imperial College
London



IDIBAPS

Institut
D'Investigacions
Biomèdiques
August Pi i Sunyer

eurecat
Centre Tecnològic de Catalunya

 Agència de Qualitat i
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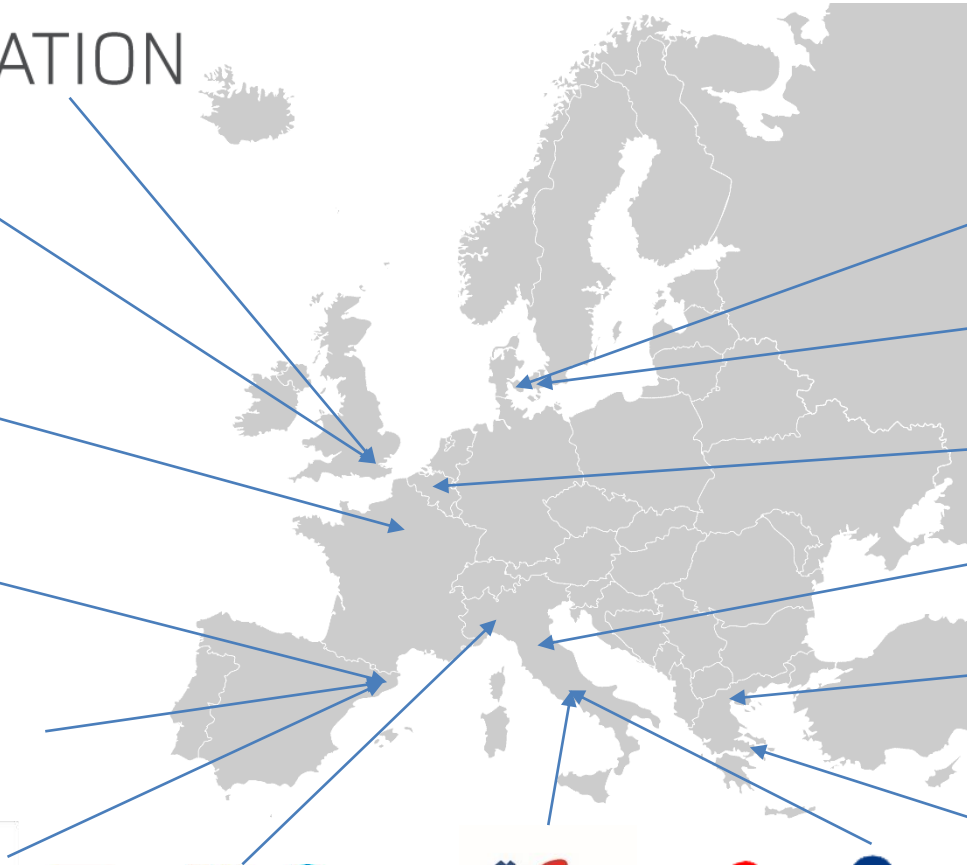


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Co-funded by the Horizon
2020 Framework Programme
of the European Union under
Grant Agreement n° 727528.

Partners

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