Secure and Trusted Paradigm for Interoperable eHealth Services

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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
The innovation pillars

1\textsuperscript{st} Pillar: Enhancement of the trust and security of interoperable eHealth services

2\textsuperscript{nd} Pillar: Continuous validation and proof of concept demonstrations

3\textsuperscript{rd} 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
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