DECIPHER PCP – project

Second Major EAFIP Event on Innovation Procurement

Athens, 18th – 19th October 2016

Anna Sachinopoulou, VTT Ltd.

http://www.decipherpcp.eu/

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Partners

Public Procurer Organizations

ESTAR
Ente di supporto tecnico-amministrativo regionale

TRUSTECH
The North West NHS Innovation Service

TicSalut
Tecnologia, innovació i salut

Project Support Organisations

Agència de Qualitat
i Avaluació Sanitàries de Catalunya
AGENCY FOR HEALTH QUALITY AND ASSESSMENT OF CATALONIA

VTT

eurecat

ANCI innovazione

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SEVENTH FRAMEWORK PROGRAMME

Need to be addressed

- ISSUE: worldwide Chronic Diseases (as CVD, stroke, cancer, respiratory diseases and diabetes) represent 63% of al deaths. Comorbidity is very common in case of chronic conditions.

- GOAL: bring tangible benefits to patients by means of a step forward towards high-quality, safe, equitable, patient-centred healthcare throughout the EU

- TARGET:
  - Diabetes Type 2 – progressively to be applied to rest of chronic conditions
  - Citizens with active life requiring mobility within EU

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Business Case

- Diabetes TOT DIRECT costs in 2010:
  - Spain*: 5,4 billion Euros (36% non-diabetes drugs; 36% Inpatients)
  - UK**: 20,2 billion Euros (15,2% non-diabetes drugs; 65,8% Inpatients)
  - Italy***: 7,9 billion Euros (23% non-diabetes drugs; 57% Inpatients)

(*Extrapolation from Oliva J., Lobo F., Molina B. And Monereo S., Direct Health Care Costs of Diabetic Patients in Spain. Diabetes Care, 2004; **, *** P. Kanavos, S. van den Aardweg and W. Schurer, LSE Health: A new research report on diabetes in 5 European Union Member States)

Highest expenditures: 70-80% due to non-diabetes drugs & inpatients

- Diabetes prevalence:
  - Spain: 3M;
  - UK: 3,2M;
  - Italy: 3,1M;

(OECD, 2011)

DECIPHER consortium estimates that the developed technologies could allow the procuring regions to save up to 24% of actual incurred direct costs, more than € 8 million

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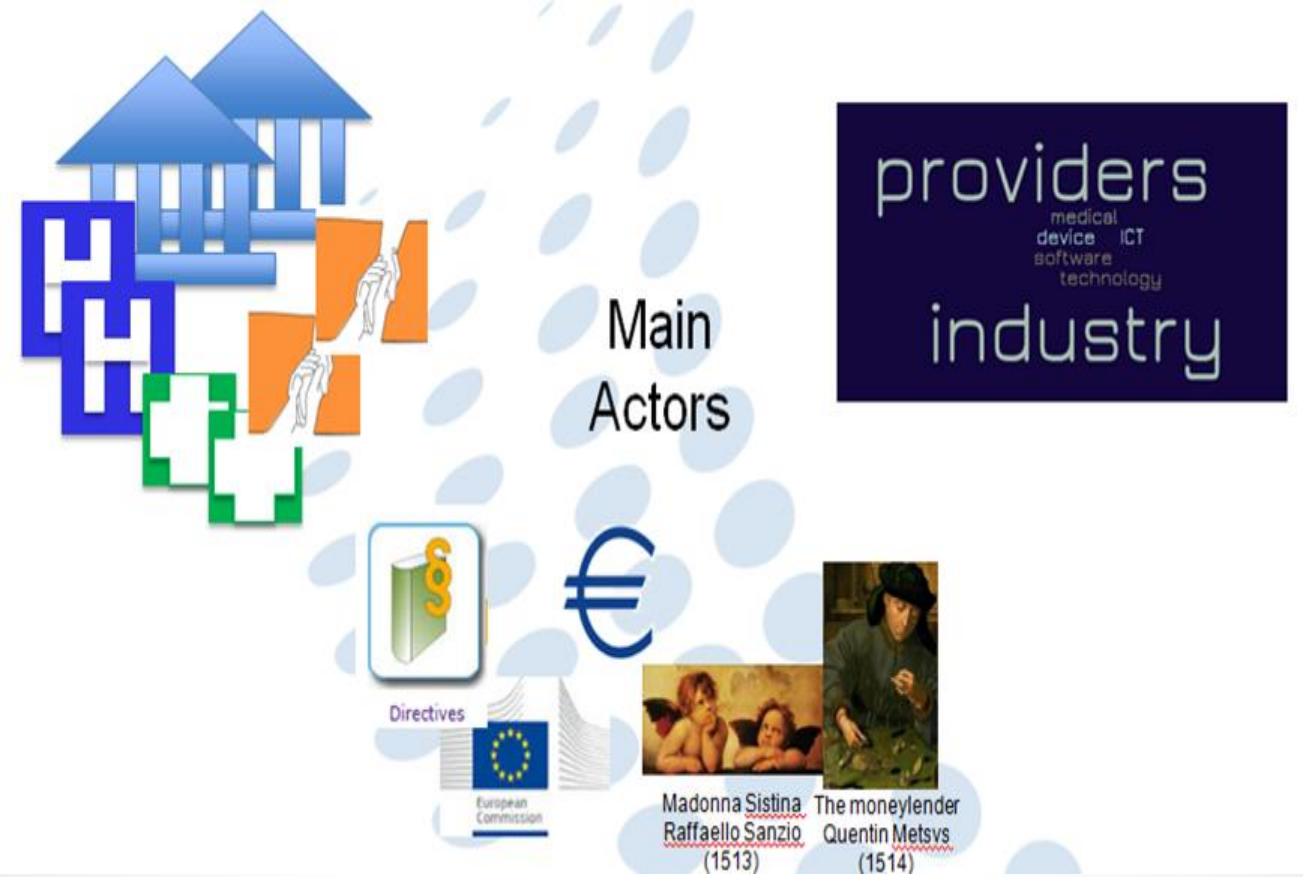
Stakeholders



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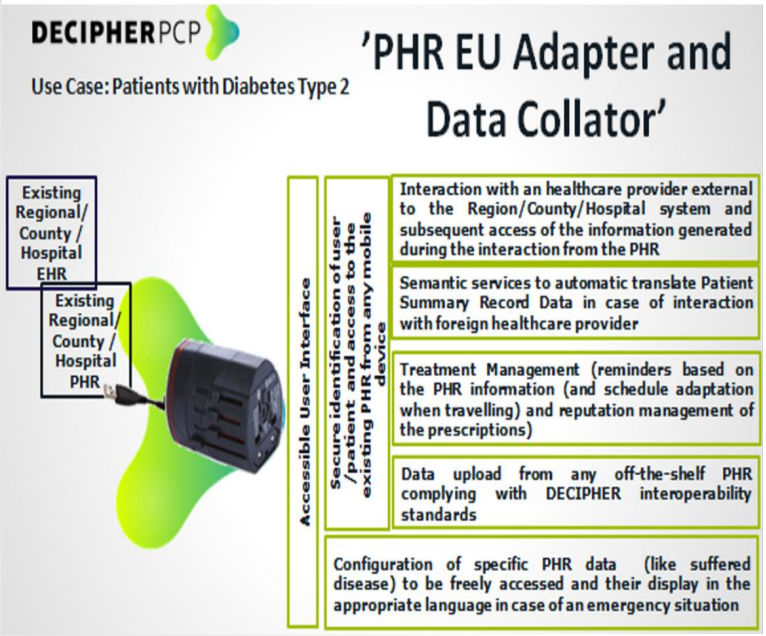
Functional Specifications

- To provide patients with:
  - The best instrument to increase treatment secondary adherence without discontinuity even when travelling, prevent complications and being prescribed with non-diabetes drugs, reduce avoidable hospitalizations and A&E visits*
  - A complete summary of their health record that can be made available anytime and anywhere to the healthcare professionals in case of unplanned care



(* Hovstadius and Petersson: Non-adherence to drug therapy and drug acquisition costs in a national population - a patient based register study. BMC Health Services Research 2011 11:326 ; 'Evidence for action' (World Health Organization 2003); Ashish K. Jha, Ronald E. Aubert, Jianying Yao, J. Russell Teagarden and Robert S. Epstein: Greater Adherence To Diabetes Drugs Is Linked To Less Hospital Use And Could Save Nearly $5 Billion Annually. Health Affairs, 31, no.8 (2012):1836-1846)

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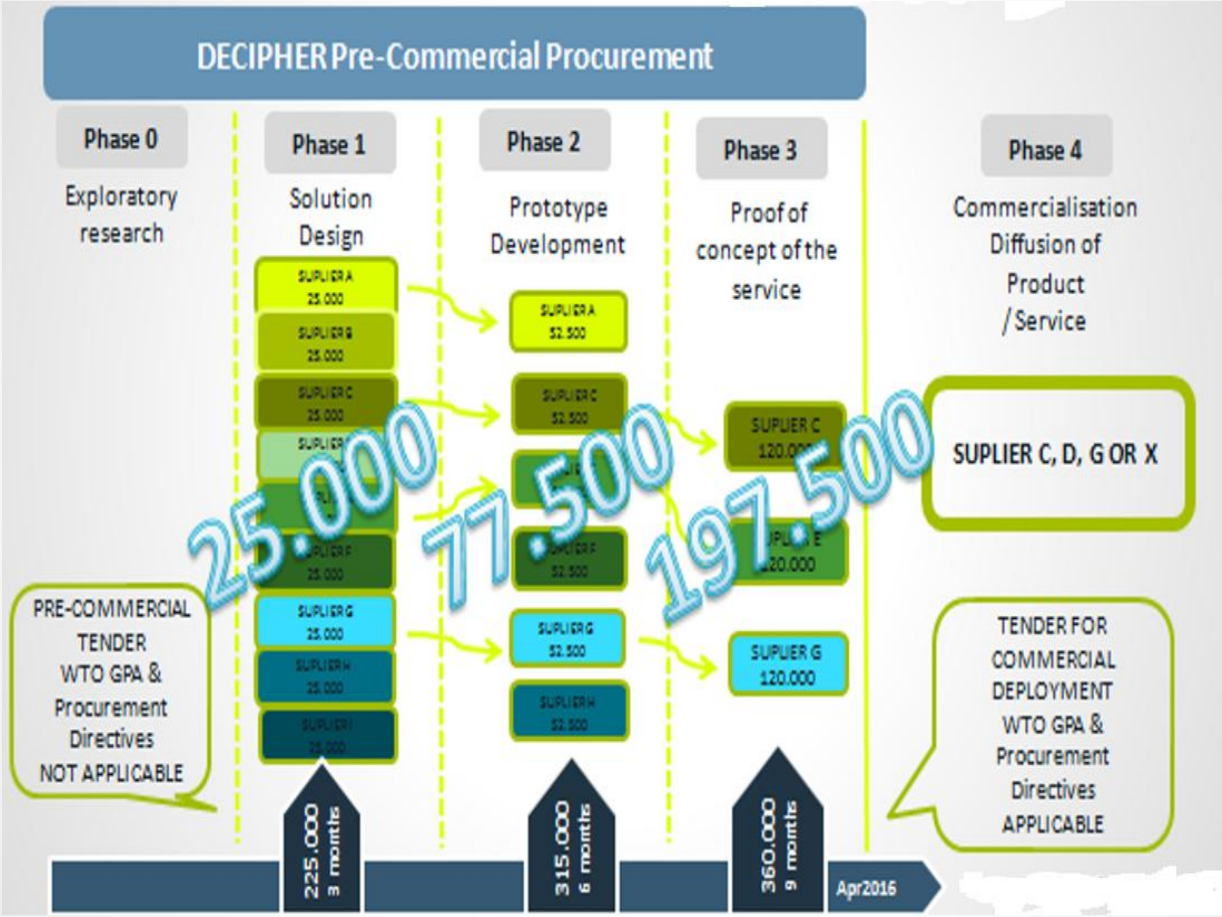
Procurement Procedure



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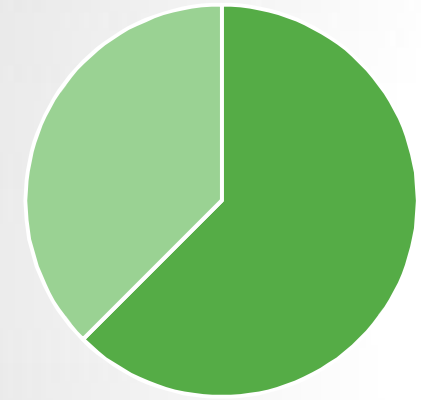
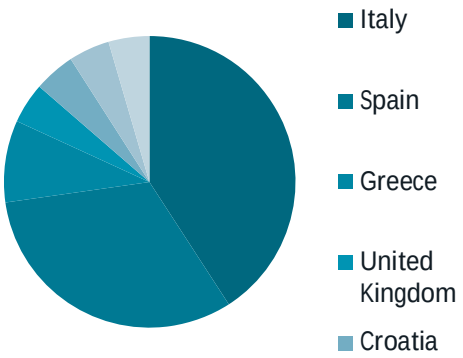
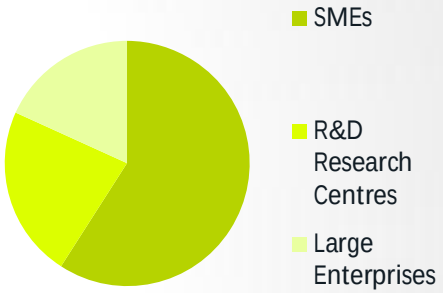
Submitted bids







In total 16 bids submitted by 22 organizations from 7 countries

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Phase 1: Solution Design

Linkcare

firmaprofesional

NEXTAGE INNOVATION MADE EASY

Camelot biomedical systems

gnomon INFORMATICS S.A.

!UZ

alterAid

Nissatech innovation centre

nabelia salud

SocialDiabetes

MiceLab Modelling, Identification and Control Engineering

eresult Specific needs, advanced software solutions

I S M B Istituto Superiore Mario Boella

VTT

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Phase 2: Prototype Development

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Results for Phase 3: Proof of Concept

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Lessons Learnt I: Procurers & Experts

- NEED : Defined in advance, taking into account the existing service system
- Procuring organizations' DRIVERS AND BENEFITS also relate to a learning experience about PCP and mHealth.
- The BUSINESS CASE is a necessary tool.
- A COMMON UNDERSTANDING of the existing healthcare ICT infrastructure is important.
- PCP as an INSTRUMENT for flexible, simplified and smooth adoption of novel services.

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Lessons Learnt II: Suppliers

- BENEFITS:
  - Better understanding of the procurers needs
  - SMEs more CONFIDENT to handle competition on an EU scale.
  - Concrete information on the service strategies and existing ICT infrastructure of the public procurers -> services in shorter time.
- CHALLENGE: Integration of different systems of different healthcare backgrounds.
- Participation of private healthcare providers and insurance companies to the PCP process is welcome.

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SEVENTH FRAMEWORK PROGRAMME

DECIPHER PCP

Decipher PCP Project: Experience from Gnomon Informatics SA, Greece

Dr. Alexander Berler

gnomon INFORMATICS S.A.

VTT

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Vision

To become a European leader in healthcare interoperability and cross border healthcare.

To be the preferred partner that provides reliable and competitive e-health IT solutions and services to increase data accuracy, efficiency and reduce operation expenses.

To partner with international industry leaders as an expert in e-health IT and related e-services.

Gnomon Informatics was established in 1994, The Company is headquartered in Northern Greece, Thessaloniki with offices in Athens and Cyprus.

Gnomon Informatics is a proud member of

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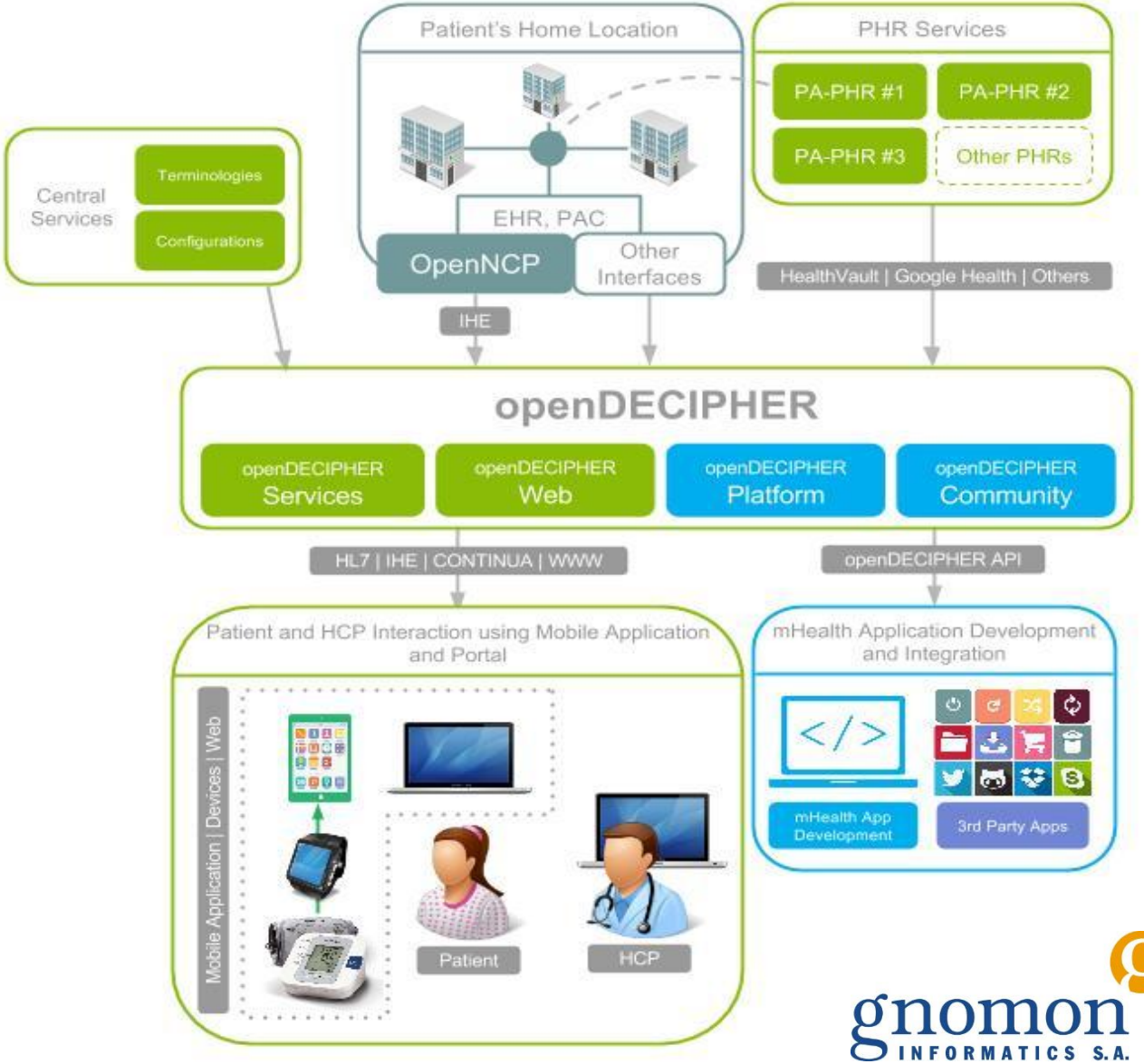
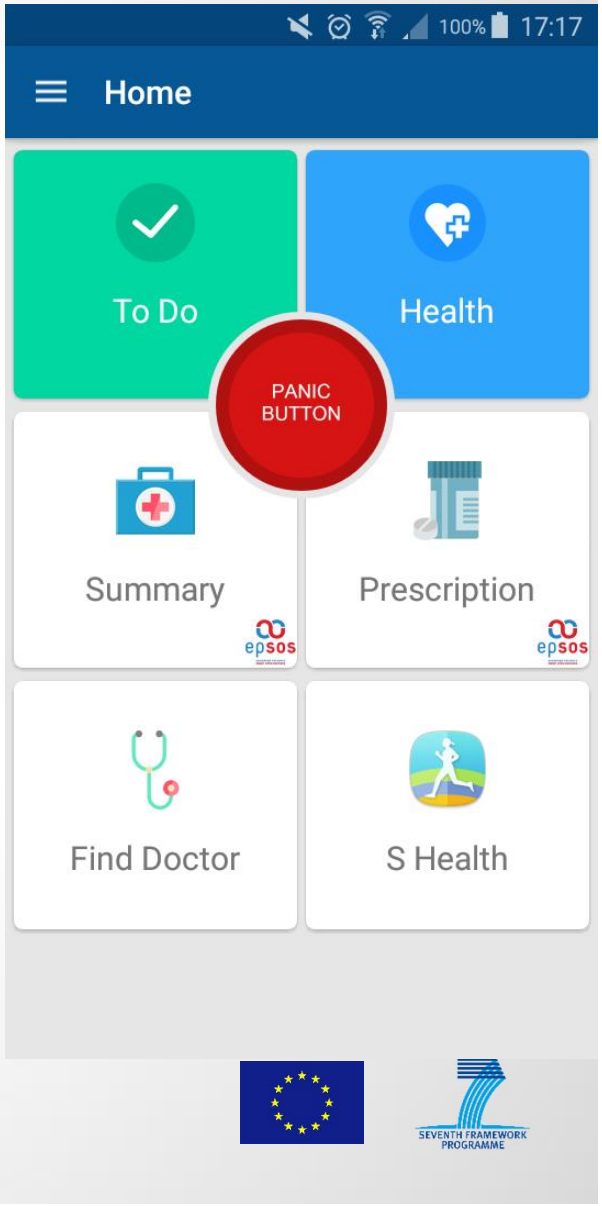
The OpenDecipher Approach





Lessons Learned

- PCP procedure provide adequate support for prototype creation in domains where feasibility and future prospects are not clearly defined
  - Acceleration process
  - Increases financial viability
  - Reduces implementation risks
- Contracting authority ensured equity amongst participants
  - Transparency
  - Trust
- PCP Process dramatically increases prototype maturity level.
- Reference implementations from VTT were highly supportive to understand the minimum implementation requirements

- PCP procedure timeline could be improved
- Having access to the end users / reference sites would be an asset in defining clearer end user needs
- eHealth is highly dependent on interoperability
  - Use case definition would improve the process
  - Consensus building is essential
  - End user assessment is critical
- Some PCP processes were inherited from public procurement rules thus creating a “china wall” between prototype developers and real needs
- Testing services need to be included to increase acceptance

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Future developments

- OpenDecipher has a strong focus on standards adoption (HL7, IHE, etc)
  - Increase geographical expansion
  - Provide product/service sustainability
  - Adhere to testing/certification processes
    - Patient safety
    - Health technology assessment
- OpenDecipher has a business model based on open source
  - Provide end value added services instead of packaged software products
  - New revenue and funding models are made possible
  - Collaboration of public and private sector in harmony and best interest for all
- Compatibility with ehealthDSI (epSOS) and eID DSI (STORK) from CEF implementation
  - New cross border healthcare processes made possible
  - Semantic interoperability remains an issue
  - New uses cases for the reuse of common IT infrastructures across Europe
  - The “Healthcare Roaming” Era has started

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"The best way to predict the future is to invent it."
Alan Kay

Thank You!

For More Information

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