

**ICT WP 2011-12**

**Challenge 5**

-

**Objective 5.3**

**“Patient Guidance Services (PGS), safety and  
healthcare record information reuse ”**

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# Challenge 5 of the ICT programme

## ICT for Health, Ageing Well, Inclusion and Governance

- advanced ICT research for sustainable high-quality healthcare, demographic ageing, social and economic inclusion, and the governance of our societies
  - Objective ICT - 2011.5.1: **Personal Health Systems (PHS)**
  - Objective ICT - 2011.5.2: **Virtual Physiological Human**
  - **Objective ICT - 2011.5.3: Patient Guidance Services (PGS), safety and healthcare record information reuse**
  - Objective ICT - 2011.5.4: **ICT for Ageing and Wellbeing**
  - Objective ICT - 2011.5.5: **ICT for smart and personalised inclusion**
  - Objective ICT - 2011.5.6: **ICT solutions for governance and policy modelling**
    - to enable patients' active participation in care processes with emphasis on semantic interoperability
    - to enable integration of patient information from multiple sources and locations and to enable ubiquitous and secure access

## Objective ICT-2011.5.3

# **Patient Guidance Services (PGS), safety and healthcare record information reuse**

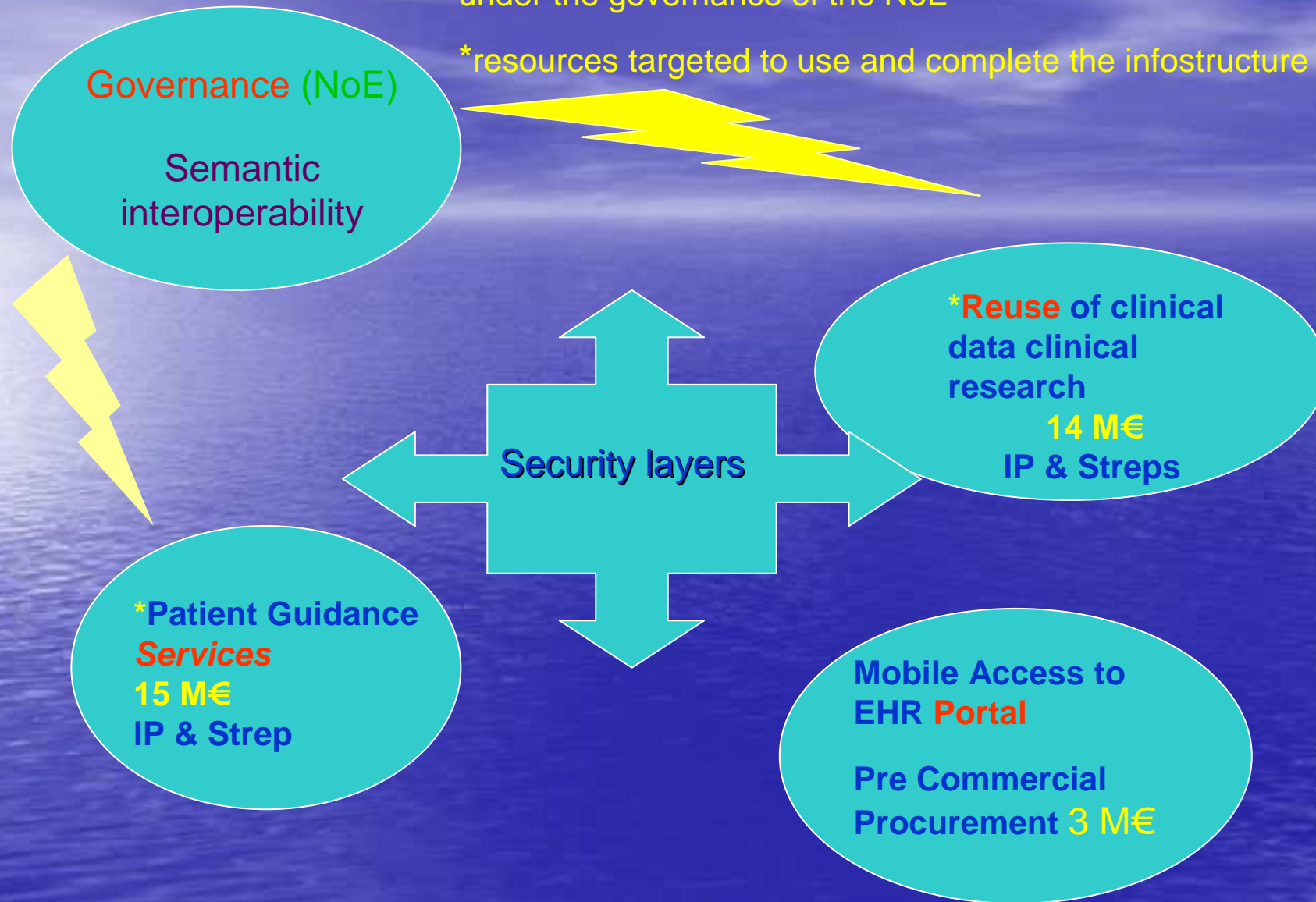
- a) Patient guidance services (PGS) for personalised management of health status**
  - semantic integration of health data i.e. ubiquitous, secure access by patients and physicians (shared patient & clinician decision supports, safety alerts etc.)**
  
- b) Tools and environments enabling the re-use of electronic health records**
  - Legal, interoperability and security issues, data protection**
  - Defining the conditions that enable the reuse of clinical data**
  
- c) A Network of Excellence(NoE) on semantic interoperability and European Health Infostructure**
  
- d) Innovative services for patients and health professionals developed and validated against public sector needs through a joint Pre – Commercial Procurement (PCP)**

# Instruments (NoE, IP, STREP, CSA, SSA, CPCSA)

- The “instruments” are types of projects
  - Projects of the same instrument:
    - contain the same kind of activities
    - have qualitatively similar strategic objectives
    - usually have comparable budget, consortium size and duration
  - **NoE** – Networks of Excellence
  - **IP** – Integrated Projects
  - **STREP** - Specific Targeted Research Projects
  - **CSA – CA** or **CSA -SA**- Coordination and support actions
  - **CP** - Collaborative projects (small or medium-scale focused research projects) for specific cooperation actions dedicated to international cooperation
  - **CPCSA** - Combination of Collaborative projects and Coordination and Support Actions
- .....and others

**\*common shared infostructure** established by the PCP  
under the governance of the NoE

**\*resources** targeted to use and complete the infostructure



# What is not acceptable:

- short term projects, isolated, on specific use cases

# Health problems today

- Growing population
  - Older population
  - Higher costs of medical care
  - Less money
  - Poor population
  - New diseases
  - Extent of chronic diseases, various disabling conditions
  - Old/new habits : alcohol, smoking, drugs, stress
  - Pollution
- and so on ...

# Looking for solutions/palliatives



Balance + and -



Medical scientific research



Prevention

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# ICT can help



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# Patient centred care



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# Patient guidance services for personalised management of health status

## - PGS

- Engage and assist patients and their entourage in the care process
- Construct integrators for multiple sources
- Provide a platform for integration of devices – Public Health Services (PHS)
- Incorporate patient models based on Virtual Physiological Human (VPH)
- Provide shared Patient, entourage & clinician decision support
- Provide services – compliance, safety alerts, lifestyle guides, book and choose
- Contribute to the European info structure under the Governance of the Network of excellence
- Submit all services and systems to interoperability testing and certification (if/where available)

# NoE

- Network of excellence
  - Infrastructure Governance
    - Clinical governance
    - Medical professional organizations
    - Health care record structures
    - Terminologies/ Ontologies
    - Medical Logic/ knowledge
    - Virtual organization
  - Testing and certification governance
    - Interoperability
    - Product certification

# Reuse of Clinical Data for clinical research and epidemiology



## Re-addressing topics from previous calls

- **Legal and interoperability issues**
- **Epidemiological studies (clinical trials, cohort studies, phenotype genotype studies)**
- **How, by whom, when reuse of clinical data**
- **Exploiting the information gathered in the European Portal**
- **Contribute to and use the info-structure**

# Tools

- Terminologies/Ontologies
- Health Record Structures
- Knowledge bases
- Interoperability
- Product certification
- Template/Archetype validation

# PCP - Pre-Commercial Procurement

Driving innovation to ensure high quality public services in Europe

Pre-Commercial procurement (PCP) is an approach for procuring R&D services which enables public procurers to:

- share the risks and benefits of designing, prototyping and testing a limited volume of new products and services with the suppliers, without involving State aid;
- create the optimum conditions for wide commercialization and take-up of R&D results through standardization and/or publication.
- pool the efforts of several procurers

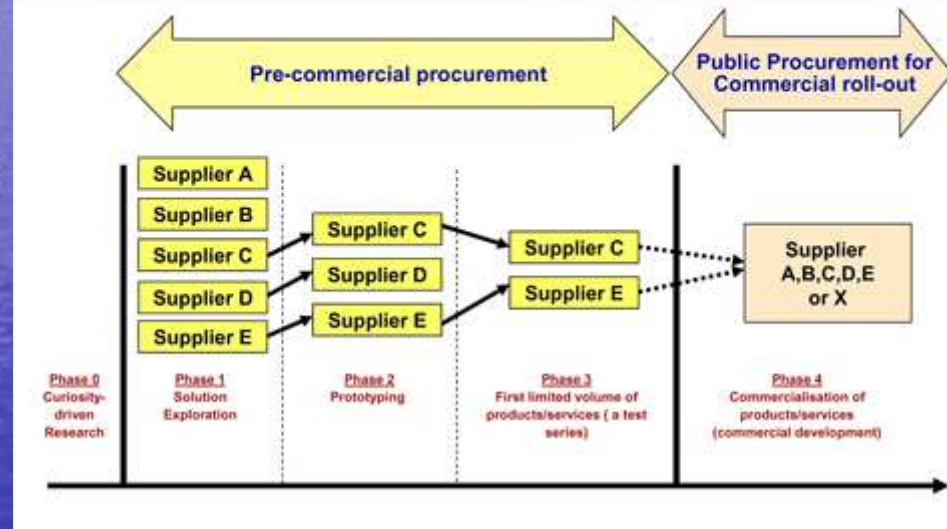
(Source: Cordis)

# Pre-Commercial Procurement

- *innovative services for patients and health professionals developed and validated against public sector needs*
  - existing Patient health data Portals
  - Provide secure Mobile access
  - the Portal has to allow EHRs to be gathered securely from multiple sources
  - Develop patient portals (public and private organizations)



## How to do it



Source: European Commission

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## Links

### [CORDIS: ICT: Pre-Commercial procurement \(PCP\)](#)

PCP website that focuses on news and FP7 funding opportunities related to PCP.

### [Demanding Innovation, Lead markets, public procurement and innovation, By Luke Georghiou](#)

Essay published by the National Endowment for Science, Technology and the Arts. Professor Luke Georghiou PhD BSc is Associate Dean of Research at the University of Manchester and Director of PREST (Policy Research in Engineering, Science and Technology).

### [Europe Innova](#)

The network driving European Innovation.

### [European Public Procurement Network](#)

The European Public Procurement Network (PPN) is a co-operation network of public procurement expert officials, dedicated to European companies taking part in procurement procedures in other countries of the network than theirs. It involves all EU Member States, EU candidate countries, EEA Members and Switzerland.

### [STEPPIN](#)

STandards in European Public Procurement lead to INnovation - explores how referencing open standards in European public procurement processes can foster innovative business solutions amongst bidding companies.

### [Open Method of Coordination \(OMC\)](#) - Public technology procurement

The aim of the project is to bring policy makers and practitioners together and to provide a platform of mutual learning concerning various forms of pre-commercial procurement - not exclusively technology procurement as the acronym suggests.

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# Links

- Semantic Interoperability HEALTH Project
  - [http://ec.europa.eu/information\\_society/activities/health/docs/publications/2009/2009semantic-health-report.pdf](http://ec.europa.eu/information_society/activities/health/docs/publications/2009/2009semantic-health-report.pdf)
- Safety issues from the eHealth for Safety Project
  - <http://www.ehealth-for-safety.org/index.htm>
- Interoperability testing from the Hitch Project
  - <http://www.hitch-project.eu/>
- Patient Centred Health care "ICT solutions for sustainable health" workshop – 29 Sept 2009
- Swedish Presidency's 2009 eHealth Report
  - [http://www.se2009.eu/polopoly\\_fs/1.8227!menu/standard/file/eHealth%20for%20a%20Healthier%20Europe.pdf](http://www.se2009.eu/polopoly_fs/1.8227!menu/standard/file/eHealth%20for%20a%20Healthier%20Europe.pdf)
- Council Conclusions on "safe and efficient healthcare through eHealth" (adopted on 1.12.2009)
  - [http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/lsa/111613.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/lsa/111613.pdf)
- EPSOS – Calliope
  - <http://www.epsos.eu/>

Source: **DG INFSO Unit H1 – "ICT for Health"**

# a), b), c) and d)→

- Common platform for a wide range of ICT-based healthcare services
- Improve sustainability of Healthcare services by enabling better use of resources.
- Increased international competitiveness of European Healthcare Information Services and Software industry.
- Guidance on healthcare information systems issues in “green field” member states.
- Accelerated establishment of interoperability standards and of secure, seamless communication of health data between all involved partners, including patients.
- Wide-scale epidemiology based on Europe-wide Healthcare information system.

Source: **DG INFSO Unit H1 – “ICT for Health”**

Nigel Strang [nigel.strang@ec.europa.eu](mailto:nigel.strang@ec.europa.eu)

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a), c) and d)→

- Better medical expertise access in remote areas, via improved decision-support systems
- Support for patient mobility and patient safety through PHR accessed throughout Europe.
- Improved disease management and treatment through provision of personalised services.
- Reinforced participation of patients in care processes and health management.

Source: **DG INFSO Unit H1 – “ICT for Health”**

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b), c) and d) →

- Faster medication innovation and lower costs through a more efficient research process.

Source: **DG INFSO Unit H1 – “ICT for Health”**  
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# PCP →

- Wider access for patients to public health information data portals using mobile platforms.
- Standard mobile solutions for future implementations of closed loop applications.

Source: **DG INFSO Unit H1 – “ICT for Health”**  
Nigel Strang [nigel.strang@ec.europa.eu](mailto:nigel.strang@ec.europa.eu)

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# Leading actors

- Medical professional organizations
- Patient organizations
- Member state providers of health services
- Mobile phone operators
- Standardization organizations
  - Healthcare record standards
  - Terminologies and ontologies
- Healthcare software editors
- Healthcare information providers



# Thank you!



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