



European  
Commission



# Innovation Procurement The power of the public purse

EU funded projects  
in the ICT domain

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# Innovation procurement - Capitalising on innovative solutions to modernize public services

The European public sector is facing significant challenges, including the need to modernise internal operations while delivering high quality public services. Innovation procurement can deliver solutions to these challenges and Information and Communication Technologies (ICTs) play a major role in this.

The EU research and innovation programmes FP7 and CIP, now grouped under Horizon 2020, offer support to innovation procurement in two complementary ways:

- In some cases, public sector challenges can be addressed by innovative solutions that are nearly or already in small quantity on the market and don't need new research and development (R&D). This is when Public Procurement of Innovative solutions (PPI) can be used effectively.

- In other cases, the required improvements are so technologically demanding that there are no near-to-the-market solutions yet and new R&D is needed. Pre-Commercial Procurement (PCP) can then be used to compare the pros and cons of alternative competing approaches and to de-risk the most promising innovations step-by-step via solution design, prototyping, development and first product testing.

By developing a forward-looking innovation procurement strategy that uses PCP and PPI in a complementary way, public procurers can drive innovation from the demand side. This enables the European public sector to modernize public services faster while creating opportunities for companies in Europe to obtain a first customer reference and gain international leadership in new markets.

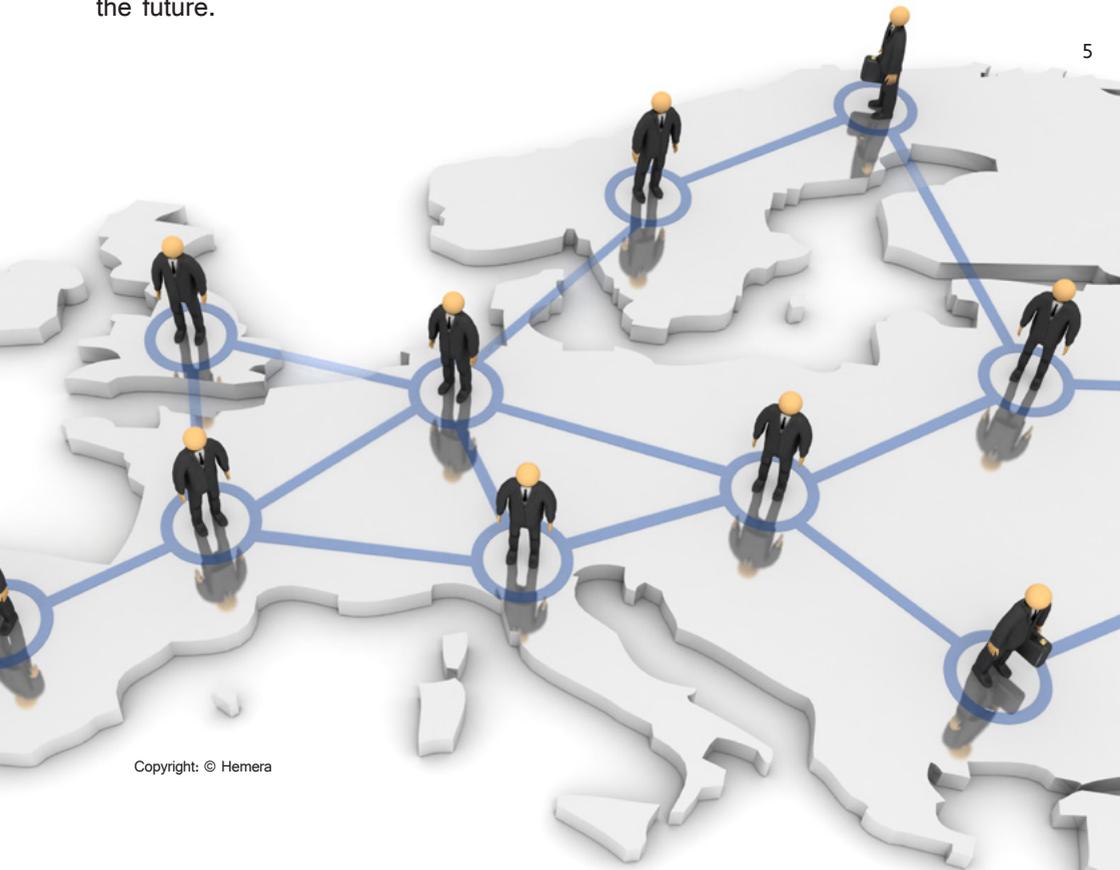


# About this brochure

This brochure provides an overview of projects that are focusing on innovation procurement in the ICT domain funded by the EU's research and innovation funding programs FP7, CIP and Horizon 2020. This includes projects in which public procurers from different countries around Europe pool resources to carry out PCP or PPI procurements together, plus coordination and networking projects that prepare the ground for new PCP or PPI procurements in the future.

European cooperation enables procurers to share the costs and risks of carrying out innovation procurements and find common answers to problems that are best tackled at European level for example to address issues such as cross-border interoperability, market fragmentation etc.

This brochure aims to share experiences about how different challenges of public interest in the EU can be addressed via innovation procurement. It provides also links where more information can be obtained so other procurers around Europe can use PCP and PPI approaches as well in the future.



R&D / Pre-commercial Procurement (PCP)

Public Procurement of Innovative Solutions (PPI)



**Phase 0**

Curiosity Driven Research



**Phase 1**

Solution design



**Phase 2**

Prototype development



**Phase 3**

Original development and testing of limited volume of 1<sup>st</sup> test products / services



**Phase 4**

Deployment of commercial volumes of end-products  
Wide diffusion of newly developed solutions

Supplier A

Supplier B

Supplier C

Supplier D

Supplier B

Supplier C

Supplier D

Supplier C

Supplier D

Supplier(s)  
A, B, C, D  
and/or X

# Results of the first 15 EU funded joint cross-border Pre-Commercial Procurements

Results from finished and ongoing PCPs funded through FP7 and Horizon 2020 show that the strategic use of the power pursue to drive innovation from the demand side has significant positive impacts on:

- **Opening the route-to-the market for new market players:** 71% of PCP contracts are won by SMEs, more than twice the average in public procurement across Europe (29%).
- **Helping also established market players bring products to the market:** 17% of contracts are won by large companies as single bidder. 12% of contracts consist of consortia of SMEs and larger companies bringing innovative products together to the market.
- **Facilitating cross-border company growth:** 28% of PCP contracts are awarded cross-border, 25 times more than the average in public procurement across Europe (1,29%).
- **Bringing research results from the university to the market:** 28% of contracts have universities or research centers as partners in the winning consortia (often together with university startups)
- **Contributing to growth and jobs in Europe:** Nearly all bidders (97,5%) are doing 100% of the R&D for the contract in Europe
- **Reducing the R&D risks for procurers and encouraging commercialisation of results by vendors:** Leaving the IPR ownership rights with vendors reduced the R&D cost for procurers on average by 50% as vendors see wider commercialisation potential for their solutions.
- **Improving the quality and efficiency of public services:** All completed PCPs have delivered innovative solutions that achieve the expected quality and efficiency requirements set out initially by the procurers. 60% of procurers use PCP to obtain more open, interoperable solutions. Procurers from 50% of completed PCPs have already deployed the small test series developed during the PCP and are preparing wider commercial deployment with an enlarged buyers group.

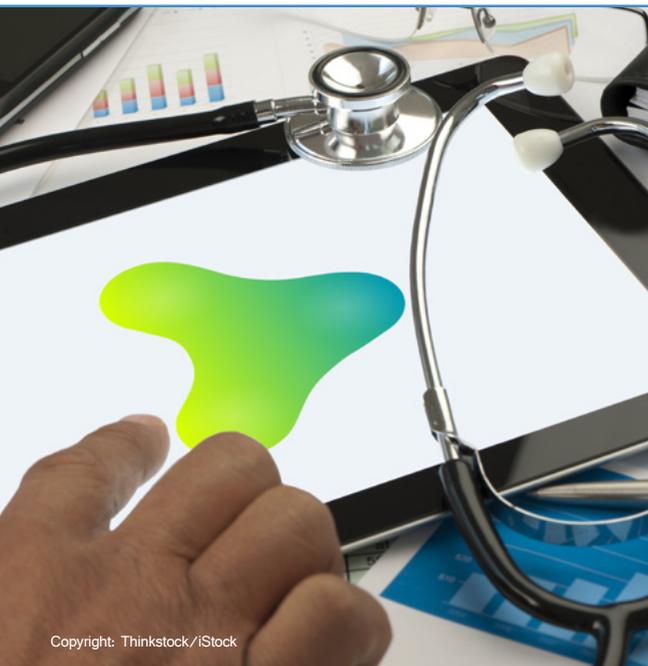


# Ongoing Projects

# DECIPHER PCP

## Safe mobile medical care for patients with chronic long term conditions

DECIPHER aims to improve existing healthcare services across Europe by enabling secure cross-border access to existing patient healthcare portals and efficient and safe medical care of mobile patients in EU member states. The project is undertaking a PCP to get solutions of special interest in the management of long-term conditions or unplanned care episodes.



Procuring partners:  
Fundation TicSalut (ES),  
ESTAV Centro (IT),  
TRUSTECH – Central  
Manchester Foundation  
Trust (UK)

Website:  
[www.decipherpcp.eu](http://www.decipherpcp.eu)

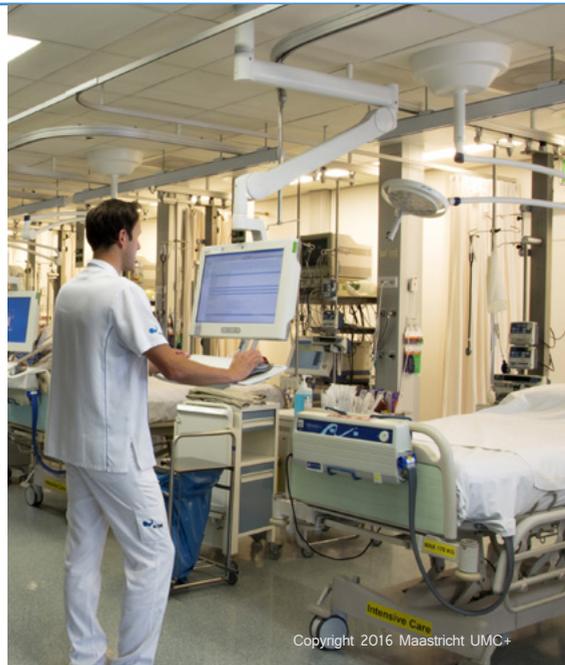
# Thalea<sup>)))</sup> II

## Deploying telemedicine for high-risk intensive care unit patients

THALEA II is the first PPI that follows a PCP in Health-ICT for Intensive Care Units. It will deploy tele-detection and tele-care solutions to mitigate negative impacts of one of the greatest social and economic challenges of the 21st century for Europe in health-care: Ageing of society and workforce. Taking stock of the experience acquired through the THALEA PCP, through this PPI a promising innovative technology will be purchased and deployed that will help save more lives and increase patients' quality of life.

Procuring partners:  
University Hospital  
Aachen UKA (DE),  
Academic Hospital Maastricht  
(NL – coordinator),  
Sanitary Corporation  
Parc Tauli de Sabadell (ES),  
Federal Procurement  
Service BBG (AT)

Website:  
[www.thalea-pcp.eu/thalea-2](http://www.thalea-pcp.eu/thalea-2)





## Enabling self-management of treatment for chronic diseases

The EMPATTICS PCP aims at developing new ICT solutions that enables people with a variety of chronic diseases to become decision makers in the treatment of their diseases. The innovative ICT tools will be tested at a large scale and integrated in the strategic health policies in all regions of the procurers. Health management will be addressed holistically, including healthy lifestyles and prevention as well as disease management, leading to better experiences and outcomes along with a more effective and efficient use of health-care services.



Procuring partners:  
Health Knowledge Agency  
ACIS (ES – lead procurer),  
Galician Health Ministry (ES),  
Central Denmark Region  
CDR (DK),  
The Public Health Service  
of Aragón SALUD (ES),  
Health Cooperation Group for  
the Development of Shared  
Information Systems in  
Ile-de-France GCS D-SISIF  
(FR)

Website:  
[www.empattics.eu](http://www.empattics.eu)



## Mobile services for mental health treatment

NYMPHA-MD focuses on next generation services for mental health treatment with a special focus on bipolar disorder based on the use of new technologies, open standards and open platforms. Procurers representing mental care hospitals from Italy, Denmark, and Spain carry out a joint PCP to provide a set of pilot experimentations implementing mobile ehealth services for bipolar disorder treatment in a real-world context.

Procuring partners:  
Autonomous Province  
of Trento (IT),  
Mental Health Services Capital  
Region Copenhagen (DK),  
CSPT – University Hospital  
(ES)

Website:  
[www.nympha-md-project.eu](http://www.nympha-md-project.eu)



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## Empowering patients to optimise their recovery from a stroke

MAGIC focuses on transforming the delivery of health and social care services via mobile assistance to patients who have experienced a stroke. In response to the inability of today's healthcare services to keep pace with demand, MAGIC is running a PCP to bring new ICT based solutions to the market that improve the well-being of patients and optimise the opportunity for recovery post stroke.

Procuring partners:  
Regional Business Services Organisation (Northern Ireland - Coordinator and Lead Procurer), Regional Health and Social Care Board (Northern Ireland), Regional Agency for Public Health and Wellbeing (Northern Ireland), Ancona University Hospital (IT), Local Health Company TO3 (IT), 'Gabriele D'Annunzio' di Chieti-Pescara University department of physical medicine and rehabilitation (IT)

Website:  
[www.magic-pcp.eu](http://www.magic-pcp.eu)





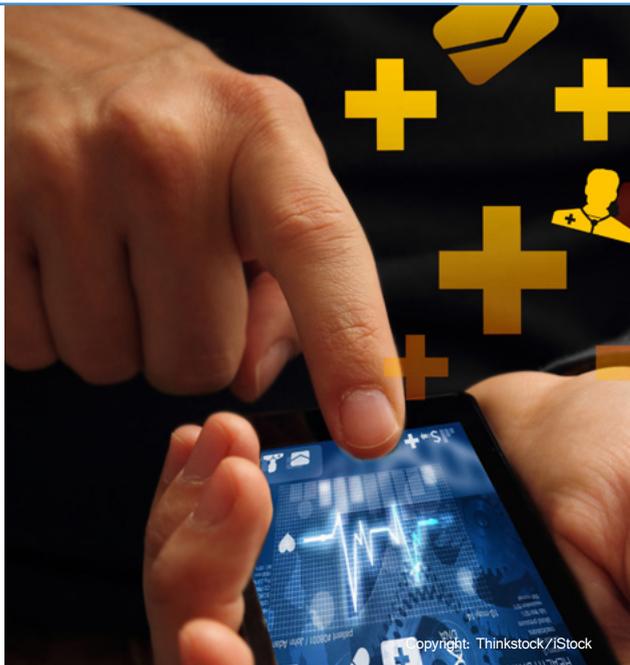
RELIEF

## Improving the monitoring and relieve of chronic pains

RELIEF addresses the needs of European health procurers to bring to the market innovative and sustainable ICT based solutions that improve the monitoring and relieve of chronic pains. The RELIEF PCP focuses on empowering patients in communication with clinicians to self-manage current and future pains. The RELIEF PCP aims to foster and accelerate the access to market for innovative solutions.

Procuring partners:  
Andalucía Health Service  
SAS (ES),  
Network of Hospital Procurers  
RESAH Ile-de-France (FR),  
Uppsala County  
Council CCU (SE)

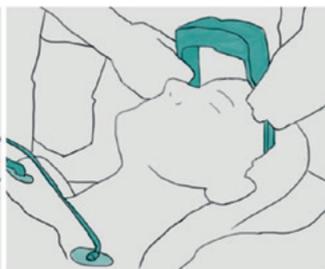
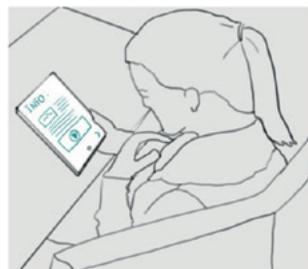
Website:  
[www.relief-chronicpain.eu](http://www.relief-chronicpain.eu)





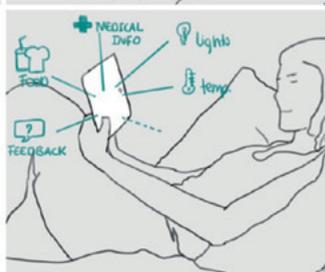
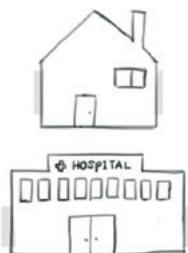
## Reducing healthcare stress through personalised e-health

STARS aims to implement a PCP to reduce unnecessary stress experienced by patients related to healthcare procedures. This will lower the harmful side-effects of sedating drugs, shorten hospital stay, shorten recovery time and relieve carers and related persons from continuous assistance. The goal is to reduce healthcare related stress as early as in the preclinical phase, proceeding through hospitalisation until the end of the aftercare period.



Procuring partners:  
National Institute for Rest and Care for Elderly Inrca (IT),  
Academic Hospital Maastricht (NL),  
Andalucía Health Service (ES),  
Hospital Sant Joan De Déu (ES),  
Fundation Parc Tauli (ES)

Website:  
[www.stars-pcp.eu](http://www.stars-pcp.eu)



# LIVE INCITE

EMPOWERING PATIENTS.  
IMPROVING CARE.

## Empowering patients after surgical procedures

LIVE INCITE aims to empower patients and support lifestyle changes in order to improve outcomes of surgical procedures as well as cost effectiveness of healthcare providers. It is well known that lifestyle factors strongly influence complications and mortality, therefore patient behaviour change is vital. Through the use of pre-commercial procurement LIVE INCITE will both challenge and stimulate the market to develop patient-centered interactive IT-solutions, promoting lifestyle changes.

Procuring partners:  
Hospital Clinic De Barcelona  
HCPB (ES),  
Bispebjerg-Fredrikberg  
Hospital/Region  
Hovedstaden (DK),  
Karolinska University  
Hospital/Stockholms  
County Council (SE)

Website:  
[karolinska.se/en/live-incite](http://karolinska.se/en/live-incite)



Copyright: LIVE INCITE



# Nightingale

Smart monitoring, safer care

## Developing the ultimate patient monitor

Nightingale is undertaking a PCP to develop the ‘ultimate patient monitor’ and refine wearable technology that can continuously monitor patients’ vital signs. This will be integrated with blood tests and other data to ensure early warning of clinical deterioration in and out of hospital. The new solutions will be used to connect patients, care givers and health professionals to deliver safe, reliable care.



Procuring partners:  
University Medical  
Center Utrecht (NL),  
Stockholm County  
Council (SE)  
University College London  
Hospitals NHS Foundation  
Trust (UK),  
Catholic University Leuven  
(BE)

Website:  
[www.nightingale-h2020.eu](http://www.nightingale-h2020.eu)



# Addressing the diabetes pandemic challenge through disease self-management

ProEmpower aims to make person-centred care for diabetic patients a reality. The project is undertaking a PCP to enhance the quality of medical decisions by personalised decision support tools that summarise patient clinical characteristics, treatment preference and ancillary data at the point of care. Early detection, personal decision support, self-management and peer support are to be delivered from a platform with interoperable and secure access to devices and health records.

Procuring partners:  
Turkish Republic Ministry of  
Health MOH (TK),  
Shared Services of the Ministry  
of Health SPMS (PT), Murcia  
Health Service SMS (ES),  
Regional Healthcare Society  
spa Campania region (IT)

Website:  
[www.proempower-pcp.eu](http://www.proempower-pcp.eu)





## Detecting the presence of resistant microorganisms to prevent infections

ANTISUPERBugs PCP will define and launch a PCP to challenge the industry to develop smart ICT solutions able to detect the presence of resistant microorganisms, give real-time feedback to the user and at the same time share the information with the healthcare provider electronic record systems linking the infection with the place of the detection.

Procuring partners:  
Catalan Oncology  
Institute ICO (ES),  
University Hospital  
Aachen UKA (DE),  
Autonomous Province  
Trento PAT (IT),  
Sheffield Teaching  
Hospitals NHS Foundation  
Trust STH (UK)

Website:  
[www.antisuperbugs.eu](http://www.antisuperbugs.eu)



## Telecare services for frail elderly people with multiple conditions

In STOP AND GO, six local and regional procurers from 4 different countries are undertaking together a PPI to trigger the market to deliver ICT based telecare services that enable to care for frail elderly that suffer from multiple conditions at the same time such as heart failure, diabetes, etc. The project aims to develop tender specifications suitable for Europe wide deployment of the solutions.

Procuring partners:  
ASP Catanzaro (IT), ASL  
Roma D (IT), SO.RE.SA  
(IT), Eastern Cheshire CCG  
(UK), City of Liverpool  
(UK), Santa Creu I Sant  
Pau hospital (ES), City of  
Helmond (NL)

Website:  
<http://stopandgoproject.eu>



# RITMOCORE

Improving treatment for bradycardias through  
public procurement of innovative solutions



## Setting an innovative model of treatment for elderly patients with bradycardia

RITMOCORE will implement a PPI to procure innovative solutions for elderly patients with bradycardia that are using or in need of a pacemaker. The new model of treatment aims to include integration of care pathways, remote monitoring of pacemakers, patient activation and the alignment of interests from all involved stakeholders. To deploy the new model, RITMOCORE approach proposes to shift from a conventional device purchase to an innovative comprehensive service delivery based on a risk-sharing model.

Procuring partners:  
Hospital de la Santa Creu  
i Sant Pau (Barcelona,  
Spain)  
Liverpool Heart and  
Chest Hospital NHS Trust  
Foundation (Liverpool,  
UK)  
Elisabeth TweeSteden  
Hospital (Tilburg,  
Netherlands)  
Azienda Sanitaria Unica  
Regionale Marche  
(Ancona, Italy)

Website:  
[www.ritmocore-ppi.eu](http://www.ritmocore-ppi.eu)



# V-Con

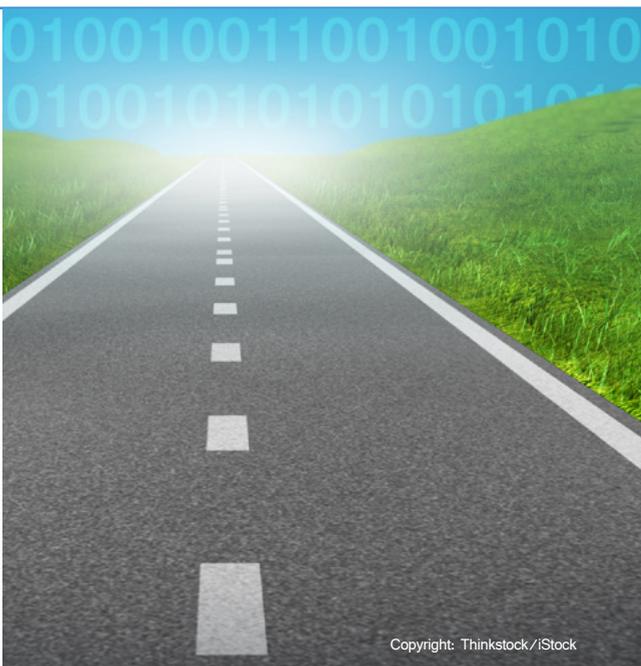
## Optimizing road infrastructure through virtual modelling

The V-Con project aims to improve the efficiency and effectiveness of the National Road Authorities by improving data exchange in the civil infrastructure sector. The PCP undertaken by the V-CON contracting authorities focuses on R&D for virtual modelling of road infrastructure.

Procuring partners:  
Rijkswaterstaat (NL),  
Trafficverket (SE)

Other procurers associated  
to the procurement: Centre  
Scientifique et Technique  
du batiment (FR)

Website:  
[www.rws.nl/en/  
highways/v\\_con/](http://www.rws.nl/en/highways/v_con/)



# CHARM

## Improving traffic management performance

CHARM focuses on the move towards open modular traffic management architecture. The road authority procurers in CHARM undertake a joint PCP that aims to get new modules developed that will optimise network performance, increase road safety and reduce CO2 emissions by improving network management, incident prediction and prevention and cooperative ITS (Intelligent Transport Systems).



Procuring partners:  
Rijkswaterstaat (NL),  
Highways Agency (UK).

Other traffic management  
authorities associated to the  
procurement:

Department of Mobility of  
Works (BE)

Website:  
[www.rijkswaterstaat.nl/  
english/about-us/  
doing-business-with-  
rijkswaterstaat/  
charm-pcp/index.aspx](http://www.rijkswaterstaat.nl/english/about-us/doing-business-with-rijkswaterstaat/charm-pcp/index.aspx)



# Increasing the energy efficiency of high performance computing

The Partnership for Advanced Computing in Europe (PRACE) provides access to 6 leading-edge high performance computing (HPC) systems to academia and industry from around the world. In PRACE 3IP PCP the partners pilot joint procurement and joint ownership of innovative HPC prototypes, focusing with the PCP on high energy efficiency supercomputing.

Procuring partners:  
CINECA (IT),  
Forschungszentrum Juelich  
GmbH (DE), Genci (FR),  
EPCC (UK), CSC (FI)

Website:  
[www.prace-ri.eu/PRACE-3IP](http://www.prace-ri.eu/PRACE-3IP)





## Open standardised smart metering for the water sector

In Smart.met seven water utilities aim to undertake a joint PCP to challenge industry to develop more efficient drinking water management solutions, steered through smart meters to improve customer service, decrease operating costs, better prioritize infrastructure investments and contribute to water conservation. The ambition is to arrive to an open standardised framework for smart metering in the water sector to reduce vendor lock-in and enable a whole new wave of innovations to find their way into the water sector.

Procuring partners:  
Viveraqua (Verona, IT)  
Promedio (Badaroz, SP)  
Eau de Paris (Paris, FR)  
Syndicat des Eaux et de l'Assainissement Alsace-Moselle (Bas-Rhin, FR)  
CILE (Liege, BE)  
Vizmuvek (Budapest Waterworks, HU)  
Hydrobru (Brussels, BE)

Website:  
[smart-met.eu/](http://smart-met.eu/)





Innovative Methods for Award Procedures of ICT Learning in Europe

## Personalized learning environments for primary and secondary schools

IMAILE is carrying out a PCP focusing on new technologies and services for e-learning which address the challenge of providing the next generation of Personal Learning Environments (PLE) for primary and secondary school. These should address students within the subjects of Science, Maths and Technology, support different learning styles in an individualized way, and be accessible from any device including 'bring your own device' (BYOD).

Procuring partners:  
Halmstad municipality (SE),  
Ministry of Finance of  
Saxony Anhalt (DE), City  
council of Viladecans (ES),  
Municipality of Konnevisi  
(FI)

Website:  
[www.imaile.eu](http://www.imaile.eu)



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## Efficient and safe cloud services for governments' use

Cloud for Europe is a cooperation between 24 partners, public authorities and research institutions, across 12 countries. The main project objectives are to identify obstacles for the use of cloud services in the public sector, defining services that overcome these obstacles, procuring R&D through PCP from industry to find innovative solutions for cloud services.

**Procuring partners:**  
Agency for a Digital Italy (IT), ministry of Finance, Tax and Customs (NL), Institute for the Public Administration Shared Services (PT), Ministry of Finance (Slovakia), National Institute for Research and Development (RO)

**Website:**  
[www.cloudforeurope.eu](http://www.cloudforeurope.eu)





Procurement Innovation for Cloud Services in Europe

# Network of procurers on European Science Cloud

The PICSE Procurers' Platform will give access to a unique repository of information supporting the move from outright purchase ICT hardware to 'pay-per-usage' made possible by commercial cloud computing. It will set out a realistic roadmap of future procurement based on the levels of ambition for adoption of cloud services over the next five years. PICSE will identify key financial, legal constraints impacting business development and procurement and provide a range of best practices that address those barriers focussing initially on the public research domain and libraries, across Europe and beyond.

Procuring partners:  
European organization  
for nuclear research  
(CERN) (CH),  
Trust-IT services LTD (UK),  
Cloud Security Alliance  
Europe (UK)

Website:  
[www.picse.eu](http://www.picse.eu)



## Creating a competitive marketplace of innovative cloud services for scientific users

HNSciCloud is driven by the PCP commitment of leading research organisations from across Europe. The objective of the HNSciCloud PCP is to create a competitive marketplace of innovative cloud services serving scientific users from a wide range of domains. The marketplace builds on a hybrid cloud platform including commercial cloud service providers, publicly funded e-infrastructures and buyers' in-house resources.

Procuring partners:  
European Organization for Nuclear Research CERN (CH),  
National Institute for Nuclear Physics INFN (IT),  
German Electron-Synchrotron DESY (DE), National Center for Scientific Research CNRS (FR),  
Karlsruhe Institute for Technology KIT (DE), SURFsara (NL),  
Science and Technology Facilities Council STFC (UK),  
European Molecular Biology Laboratory EMBL-EBI (DE),  
Institute for High Energy Physics IFAE (ES)

Website:  
[www.hnscicloud.eu](http://www.hnscicloud.eu)



## Network of procurers for novel broadband network solutions

COMPLETE is creating a common information platform and support National Research and Education Networks and public entities in coordinating procurement procedures for novel optical broadband network solutions, while synchronising Horizon 2020, national and Structural Funds financing sources. The aim is to improve the quality of decision making and optimize spending of public resources when purchasing broadband transport network equipment and related services.

Procuring partners:  
Institute of Bioorganic  
Chemistry Pan (PL),  
Greek Research  
and Technology  
Network s.a. (GR),  
CESNET (CZ)

Website:  
[www.photonics-complete.eu](http://www.photonics-complete.eu)



# SELECT

for Cities

## Enabling large-scale co-creation, testing and validation of urban IoE applications and services

Antwerpen, Copenhagen and Helsinki are gearing up for the following innovation challenge: how can the cities reinvent themselves as linked and large-scale Internet of Everything (IoE) labs, with easy access to developers and innovators to pilot, test and validate their solutions? The SELECT for Cities PCP aims to develop an open, service-oriented platform that enables large-scale co-creation, testing and validation of urban IoE applications and services.

Procuring partners:  
Copenhagen Solutions  
Lab (DK), Digipolis (BE),  
Forum Virium Helsinki  
(FI).

Other procurement  
associated partners:  
City of Antwerp (BE) and  
iMinds (BE).

Website:  
[www.select4cities.eu](http://www.select4cities.eu)





# Towards a sustainable ecosystem for long term digital preservation

Today's libraries and archives preserve ever more digital media content and need efficient checks for electronic files. PREFORMA is using PCP to develop innovative tools to assess and correct standards compliance. Interacting with the IT industry, standardisation bodies and memory institutions, the project will provide a reference implementation of common file format standards and build a sustainable network for digital preservation.

Procuring partners:  
National Archives-Riksarkivet (SE), Sound and Image-Beeld en Geluid (NL),  
Royal Institute for art Patrimonium-KIK (BE),  
Greek Film Center (GR),  
Local Government Management Agency – LGMA (IE),  
Foundation Prussian Cultural Heritage (DE),  
Town Hall Girona (ES),  
Ministry of Culture–EVKM (EE),  
National Library – Kungliga Biltioteket (SE)

Website:  
[www.preforma-project.eu](http://www.preforma-project.eu)





# Completed Projects

# Thalea<sup>)))</sup>

## Developing telemedicine for high-risk intensive care unit patients

Intensive Care Units (ICU) strive every day to improve the care for acutely live-threatened patients. Between beginning 2015 and October 2016, five hospitals from Germany, The Netherlands, Spain, Belgium and Finland carried out the THALEA PCP to get a highly interoperable telemedicine-platform developed for tele-detection and tele-care of ICU-patients at increased risk. The three innovation systems delivered at the end of the PCP by Dendrite Clinical Systems Ltd, NewCompliance Group B.V. and Philips Medizin Systeme Böblingen GmbH all meet the procurer's initial requirements. The novel algorithms and improved risk-detection of the telemedicine solutions will enable earlier diagnosis and improve efficiency in the ICU significantly, enabling a reduction in sepsis mortality by 25% and in the length of hospital stay by 20-50%.

Procuring partners:  
University Clinic  
Aachen (DE), University  
Hospital Maastricht (NL),  
Parc Tauli Sabadell  
University Hospital  
(ES), Hospital East  
Limburg (BE), Northern  
Ostrobothnia Hospital  
District (FI)

Website:  
[www.thalea-pcp.eu](http://www.thalea-pcp.eu)





# Supporting independent living of elderly through robotics

As people get older, they face increasing risk of some severe condition that will affect their ability to continue living independently at home. In SILVER, seven local and regional authorities from five different EU Member States carried out a PCP together to tackle this challenge. Between mid 2013 and mid 2016 SILVER developed and tested across all five partner countries new robotics based solutions that enable to care for 10% more elderly living independently at home by 2020, while maintaining the same amount of care staff.

Procuring local and regional authorities:

City of Odense and region of Southern Denmark (DK),  
City of Västerås (SE),  
Cities of Vantaa and Oulu (FI), City of Stockport (UK), City of Eindhoven (NL)

Website:  
[www.silverpcp.eu](http://www.silverpcp.eu)



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## Network of procurers to foster demand for innovation in eHealth

INSPIRE created a network of procurers engaged in several PCP and PPI procurements nationally and at EU level (e.g. STOPANDGO, THALEA, RELIEF, ANTISUPERBugs, EMPATTICS). The INSPIRE Academy also created training material that facilitates the introduction of new technologies and ICT-based services in the healthcare delivery system, through evidence based service – and business model thinking. INSPIRE achieved also practical impact on the use of PCP and PPI instruments by linking innovation procurement with venture capital activities.



### Partners:

Nordic Healthcare Group (FI), BITECIC (UK), AIAQS (ES), Resah-Idf (FR), TEHA (IT), BBG (AT)

### Website:

[inspirecampus.eu](http://inspirecampus.eu)



# EPP eHealth

## Network of procurers for eHealth solutions

EPP-eHealth, that set out to transform the market for eHealth solutions through dialogue and innovation procurement, has created a network of procuring organisations in healthcare to pool demand for e-Health goods and services. The EPP-eHealth procurers also published Joint Statements of Unmet Needs, a Public Procurement of Innovative solutions (PPI) Strategy for eHealth and established a sustainable platform for future collaboration. EPP eHealth procurers have already engaged in a number of new innovation procurements (e.g. STARS, RELIEF).

### Partners:

BravoSolution – Coordinator (UK),  
Dane-i-Analizy (PL),  
Optimat Limited (UK),  
Region Zealand (DK),  
Andalucia Health Service (SAS),  
Madrid Health Service-SERMAS (ES),  
University Hospital of Krakow (PL)

### Website:

[www.innovationithospitals.com](http://www.innovationithospitals.com)





## Network of healthcare procurers for visual impairment

PRO4VIP formed a network of healthcare procurers to address the problem of visual impairment, a global issue that is on the rise as a result of the ageing population. PRO4VIP developed a joint innovation procurement roadmap for novel cost-effective ICT-based assistive technologies for visually impaired people and clinical tools that help physicians with the early detection of such conditions.

### Partners:

Health Evaluation and Quality Agency Catalonia – AQuAS (ES), Barcelona Macula Foundation - Research for Vision (ES), UCL Partners Limited (UK), University Salerno (IT), Autonomous Region Friuli Venezia Giulia (IT), Regional Institute for the Blind Rittmeyer in Trieste (IT), Vocational Training Center Düren (DE), ZENIT (DE), European Blind Union – EBU (FR), ECRIN-ERIC (FR), Sara Bedin (IT)

### Website:

[www.pro4vip.eu](http://www.pro4vip.eu)



## SMART AMBULANCE EUROPEAN PROCURERS PLATFORM

# European network of procurers for smart ambulances

The SAEPP network of ambulance procurers and users prepared the ground for innovation procurement focusing on the ICT-equipped ambulance of the future enabling a shift from a means of urgent transport to an onboard mobile treatment space. The objective of the ambulance redesign was to enable pre-hospital care in order to avoid unnecessary hospital admissions and the associated patient distress and hospital costs.

Partners: NHS Commercial Solutions (UK), Ambulance Today LTD (UK), BITECIC Limited (UK), FALCK Denmark (DK), Fundation for Biomedicine Research Cordoba (ES), Fundation Tecnalia Research and Innovation (ES), Region SJAELLAND (DK), The Royal College of Art

(UK); INEM (PT), Lappeenranta University of Technology (FI), South East Coast Ambulance Service (UK), Yorkshire Ambulance Service NHS Trust (UK), The University of Sheffield (UK), South Karelia Social and Health Authority (FI), University of the West of England, Bristol (UK), Academic Hospital Groningen (NL), Saima University of Applied Sciences (FI)



Image supplied courtesy of the Royal College of Art



## Network of procurers preparing deployment of Intelligent Transport Systems

P4ITS created a network of public procurers experienced in cooperative Intelligent Transport Systems (ITS) and planning to deploy them in the near future. P4ITS aimed at a more concerted approach to innovation procurement to support a wider market roll-out of cooperative ITS and enhanced traffic management solutions in Europe. A number of partners that participated in P4ITS and its predecessor P3ITS have implemented in the meantime PCP and/or PPI procurements on advanced traffic management and ITS (Province North Brabant, Trafikverket Sweden, ASFINAG).



Partners: ERTICO – ITS Europe (BE), North Denmark Region (DK), AustriaTech (AT), ASFINAG (AT), Flanders Region (BE), Vigo City Council (ES), CTAG (ES), Finnish Transport Agency (FI), VTT (FI), HBMO (HU), ITS Bretagne (FR), City of Verona (IT), CRP Henri Tudor (LU), ITS Sweden (SE), Liguria Region (IT), OHL Concessionaires (ES), TOPOS Aquitaine (FR)

Website: [www.p4its.eu](http://www.p4its.eu)



# Smart personal equipment to reduce the risks faced by firefighters

Every year, more than 100 firefighters lose their lives whilst saving others. The SMART@FIRE procurers tackled this challenge by undertaking a PCP to reduce the risks inherent to firefighting. The PCP successfully identified, developed and tested the first integrated and affordable solutions for “smart” Personal Protective Equipment (PPE) for fire fighters in Europe. These solutions incorporate indoor localisation systems and sensors that monitor biometric (e.g. heart rate) and environmental parameters (e.g. toxic gases). The “smart PPE” now gives the commanding officer an overview of the physical condition of his team members, the dangers they are exposed to, and their location on site, all of which greatly increase the safety of firefighters. The two consortia that made it to the final phase of the PCP are now preparing certification and commercialization of the solutions.

Procuring partners:  
Federal Home Affairs  
Ministry (BE),  
SDIS Fire Department  
Bouches-du-Rhone (FR)  
Other procurers associated  
to the procurement: Fire  
Department city Dortmund  
(DE),  
Greater Manchester Fire  
and Rescue Authority (UK),  
National Disaster Response  
Agency (NL)

Website:  
[www.smartatfire.eu](http://www.smartatfire.eu)



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Human Brain Project

## Interactive supercomputing for human brain research

Brain research requires supercomputing resources but is in need of using these differently, namely interactively. Researchers need to steer model simulations or to quickly analyse large amounts of data. The Human Brain Project, an EC FET Flagship project, launched in 2014 a PCP on developing technologies needed to facilitate this interactivity. Two contractors made it to the final phase of this PCP: Cray and a consortium of IBM and NVIDIA. Both performed all R&D in Europe and deployed pilot systems based on their solutions, which are now used for brain research.



Procuring partner:  
Forschungszentrum Jülich (DE)

Other associated procurers:  
Barcelona Supercomputing Center (ES),  
Karlsruhe Institute of Technology (DE),  
Federal Polytechnical School of Lausanne – EPFL (CH),  
ETH Zürich (CH),  
CINECA (IT)

Website:  
[www.humanbrainproject.eu](http://www.humanbrainproject.eu)

# Useful links

- Innovation Procurement  
<https://ec.europa.eu/digital-single-market/en/innovation-procurement>
- Pre-Commercial Procurement  
<https://ec.europa.eu/digital-single-market/en/pre-commercial-procurement>
- Public Procurement of Innovative Solutions  
<https://ec.europa.eu/digital-single-market/en/public-procurement-innovative-solutions>
- Innovation Procurement Platform online networking forum for procurers about innovation procurement  
<https://www.innovation-procurement.org/>
- Overview of Horizon 2020 EU funding opportunities for PCP and PPI and Horizon 2020 template tender documents for PCP and PPI procurements  
<https://ec.europa.eu/digital-single-market/en/news/calls-eu-funding-opportunities-pre-commercial-procurement-and-public-procurement-innovative>
- First results of ongoing and completed EU funded PCPs  
<https://ec.europa.eu/digital-single-market/en/news/updated-results-ongoing-pre-commercial-procurements-pcp-projects>
- Applying for Horizon 2020 funding for PCP and PPI—Horizon 2020 participants portal  
<http://ec.europa.eu/research/participants/portal/>
- Horizon 2020 online manual on innovation procurement  
[http://ec.europa.eu/research/participants/docs/h2020-funding-guide/crosscutting-issues/innovation-procurement\\_en.htm](http://ec.europa.eu/research/participants/docs/h2020-funding-guide/crosscutting-issues/innovation-procurement_en.htm)
- Quickfinder Horizon 2020 calls that provide EU funding for innovation procurement  
[http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/ftags/innov\\_proc.html#c,topics=flags/s/InnovationProcurement/1/1&+callStatus/asc](http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/ftags/innov_proc.html#c,topics=flags/s/InnovationProcurement/1/1&+callStatus/asc)
- Innovation Procurement Newsletter: link to subscription form  
[http://ec.europa.eu/information\\_society/newsroom/cf/dae/subscription-quick-generic-form-fullpage.cfm?service\\_id=167](http://ec.europa.eu/information_society/newsroom/cf/dae/subscription-quick-generic-form-fullpage.cfm?service_id=167)
- Past and Future Innovation Procurement Events  
<https://ec.europa.eu/digital-single-market/node/76799>
- First results of ongoing and completed EU funded PCPs  
<https://ec.europa.eu/digital-single-market/en/news/updated-results-ongoing-pre-commercial-procurements-pcp-projects>

