Opportunities in H2020 (video conference)

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HORIZON 2020 SUPPORT TO INNOVATION PROCUREMENT

HORIZON 2020

Pre-commercial procurement (PCP) versus public procurement of innovative solutions (PPI)



Public sector is faced with important challenges.

To tackle these challenges often public sector transformations are needed.

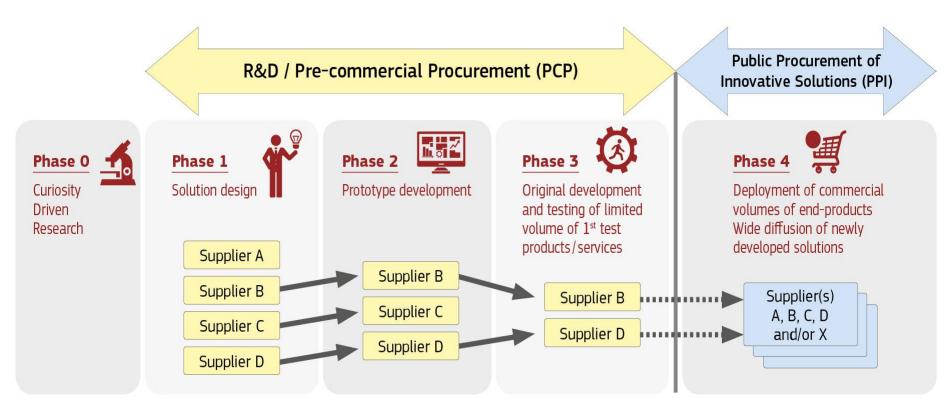
- In many cases, solutions are close to the market and would be provided if clear requirements/sufficient demand expressed by market. Incremental innovation (product adaptation, scaling up of production...) or non-R&D innovation (e.g. service innovation) can deliver required quality/price, so no need for R&D procurement. Public sector provides seal of approval for innovative solution by acting as launching customer/early adopter **(PPI)**

- In other cases, addressing the problem requires radical innovation, there is no available solution 'on' or 'close to' the market yet. There are different competing potential solution approaches but R&D still needed to de-risk and compare different technological alternatives before committing to large scale deployment. Procurer wants to induce step change in market (e.g. moving from proprietary/vendor lock-in to better open systems with multiple vendors incl. new players) **(PCP)**

European Commission

Complementarity

PCP to steer the development of new solutions towards concrete public sector needs, whilst comparing/validating alternative solution approaches from various vendors and enabling new players to prove themselves against established ones
 PPI to act as launching customer / early adopter / first buyer of innovative commercial end-solutions newly arriving on the market



Growing impact at Member State level



PCP and PPI in ESIF: PL, FR,... EE, LV develop innov. proc. strategy

DE, PL put innov. proc. in R&D&I strategy IT (\in 150M), ES (\in 250M) to PCP/PPI struct funds Baltics (LT, LV, EE) join Norden agreement FR sets 2% target for innov proc.

NO, FI, SE, DK, IS min. agreement on cross border innov. proc. collaboration (including 2,5% target)

AT, NO, DK, IS, IT include innov. proc. in R&D&I strategy ES (3%), NL and UK (2,5%) set expenditure target for innov. proc.

FI, SE, ES, Flanders (BE) launch support program & competence center for procurers

FI, SE, ES, Flander (BE) include innov. Proc. in R&D&I strategy

UK NHS and MOD PCPs and PPIs, NL launching customer (PPI)

2008 2009 2010 2011 2012 2013 2014-15

Progress PCP implementation Learn from first mover

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What can countries/regions do?



Political encouragement

- Modernising public sector 'a priority' Quality-efficiency improvement targets e.g. Lombardia/IT, UK, Flanders/BE
- Target % proc budgets to innovation Monitoring framework
 e.g. UK, NL, ES, Nordics, FR

Implementation

- Innov Proc Competence center Training / assisting procurers (e.g. SE, FI, ES, Flanders/BE, DE)
- Innov Proc financial support program (e.g. SE, FI, ES, Flanders/BE, DE)

Encourage demand side to meet supply side

- Early notification innov proc needs
- Open market consultations Meet the buyers events

Leverage EU funding

- Horizon 2020
- ESIF
- EIB loans

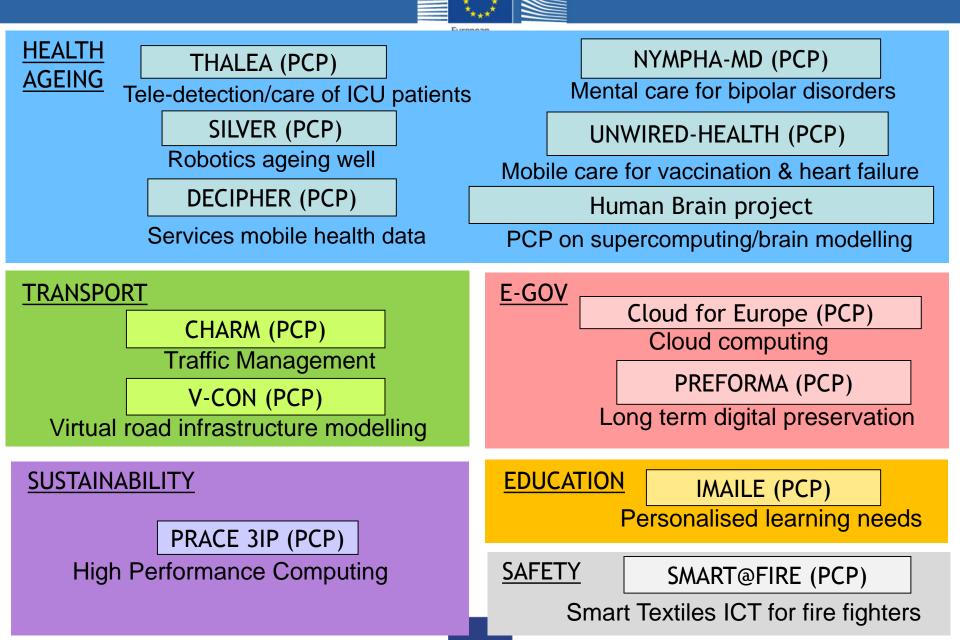
- Increased
- support for
- innov proc

Why European cooperation on PCP-PPI?



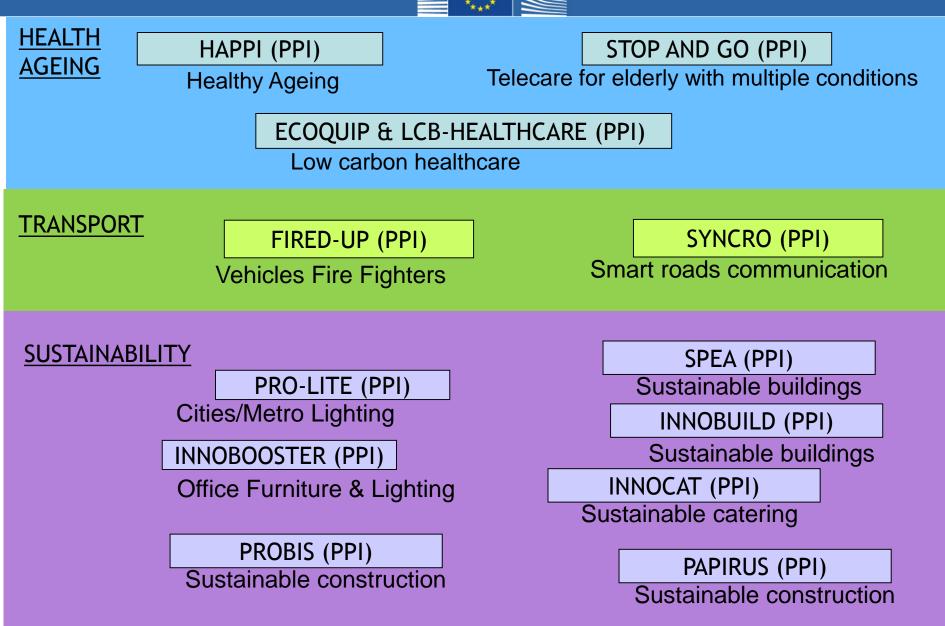
- Speed up public sector modernisation improve quality and efficiency of public services with breakthrough solutions
- Get better value for money through cooperation enable public sector around Europe to share cost + experience to buy new solutions that can respond to concrete public needs
- Address issues of common interest together e.g. where interoperability and coherence of solutions across borders, pooling of resources or market defragmentation is required
- Create growth and jobs in Europe help innovators bring European R&D to the market (the majority of R&D in H2020 funded PCPs should take place in Europe, ltd set of first test products can be bought in the PPI from companies in the PCP)

Overview EU funded projects doing <u>PCPs</u> (FP7) More info on: <u>http://ec.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.eu</u>

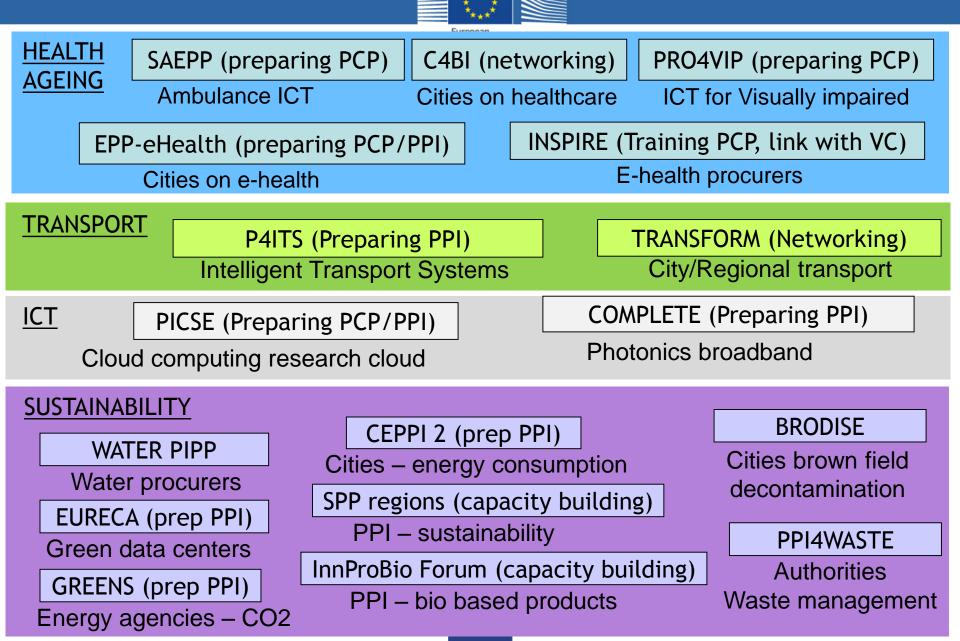


Overview EU funded projects doing PPIs (CIP)

More info on: <u>http://ec.europa.eu___igital-___enda/en/eu-funded-projects</u>



EU funded CSAs/Networks of procurers (FP7/CIP/H2020) More info on: <u>http://ec.europa.eueigital-enda/en/eu-funded-projects</u>



Evidence on impact from successful examples More info - PCP impact study- on: https://ec.europa.eu/digitalagenda/en/news/quantifying-impact-pep-europe-study-smart2014-0009

- Shortening of time-to-market: UK National Health service PCP examples achieve reduction from several years to 18 months
- Attracting venture capital: Companies in UK NHS PCPs attract significant VC investment, enabling them to grow faster
- Creating lead markets: Companies in UK ministry of defence PCPs are selling now also to US department of defence
- Retaining lead market position: possible via sustained PCP/PPI procurements (e.g. 60 ys of supercomputing PCPs -> IBM, Cray, HP)
- 20% cheaper products and higher product quality: evidence from US defense multi competitor, multi phase PCP-PPI procurements
- Removal of supplier lock-in -> 20% cost reduction: outcome of benchmarking of CHARM PCP on new traffic management centres thanks to move towards open architecture via PCP
- Benefits on local economy: Estonia PPI buying Mitsubishi electric vehicles increased local Estonian economic activity in related sectors

Data collected from first <u>7 ongoing FP7 funded PCPs</u>

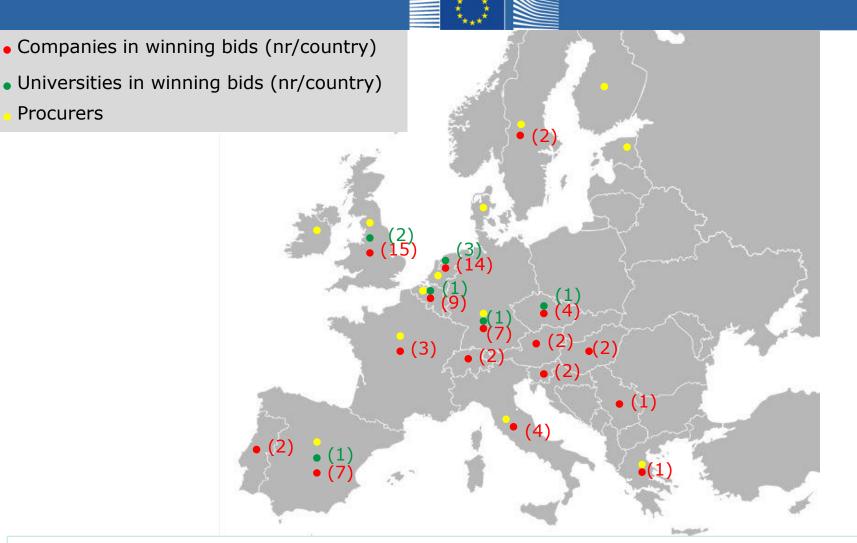


- 7 FP7 funded PCPs in ICT so far awarded contracts
 - 45 tenderers/consortia of tenderers have been awarded contracts in total
- Opening route-to-market for new players/SMEs
 - 75,5% of contracts won by SMEs (SME lead bidder, bidding alone or with partners)
 - Compared to 29% in public procurements across Europe

Mostly small young SMEs: 34,5% below 10 people, 81% below 50 people, 56% less than 10 years old

- Stimulating cross-border company growth
 - 33% of contracts won by bidders that are not from a country of any of the procurers in the buyers group (e.g. DE company working for UK+NL procurers)
 - Compared to 1,26% in public procurements across Europe
- Relevance of PCPs also to universities
 - 33% of winning contracts have university/R&D center partner in consortium
 - Winning SMEs are also often university start-ups
- Encouraging wider market commercialisation
 - Bidders offered on average 50% cheaper R&D price for keeping their IPRs (they see IPR value/real market beyond the first potential buyers, the PCP procurers)
- Creating growth and jobs in Europe
 - All bidders do 100% of R&D in Europe (except 1 doing 85% of R&D in Europe)

Geographic location winning bidders



Still companies out there that don't know about these procurement opportunities. Remaining 7 out of 14 FP7 PCPs will launch their call for tenders this year. Who can help promote upcoming PCP/PPI call for tenders in their countries? Overview on-going projects: http://ec.europa.eu/digital-agenda/en/eu-funded-projects



H2020 support to Innovation Procurement in 2016-2017

PCP/PPI Actions + Coordination and Support Actions (CSAs)

HORIZON 2020

Forms of support



Coordination and Support Actions (100% funding rate):

- Support only coordination activities e.g. preparation of a PCP or PPI by a group of procurers (identifying common challenges, open market consultation with industry before initiating a concrete PCP or PPI etc)
- CSAs do not provide EU co-financing for an actual PCP or PPI procurement
- PCP Actions (90% funding rate):
 - Provide EU co-financing for an actual PCP procurement (one joint PCP procurement per action) + for related coordination and networking activities (e.g. to prepare, manage and follow-up the PCP call for tender)

PPI Actions (35% funding rate):

Provide EU co-financing for an actual PPI procurement (one joint PPI procurement per action) + for related coordination and networking activities (e.g. to prepare, manage and follow-up the PPI call for tender)

! New !

PCP and PPI actions – participation requirement



Minimum 3 independent participants from 3 different MS or AC, of which minimum 2 public procurers (buyers group) from 2 different MS or AC

In addition, other entities can also participate

- In buyers group: also private/NGO procurers providing services of public interest

- In coordination/networking activities: any private/public type of entity (e.g. experts, end-users, certification bodies that assist procurers) that has no conflict of interest (no potential suppliers of solutions for the PCP/PPI)

Public procurers are contracting authorities or contracting entities as defined by the EU public procurement directives

MS = Member States AC = Countries Associated to Horizon 2020

PCP and PPI actions - Role different actors



Buyers group

- Beneficiaries that provide the financial commitments for the PCP or PPI.
- Min 2 public procurers from 2 different Member States or associated countries
- Shall represent the demand side for the innovations, a critical mass of procurers that can trigger wide implementation of the innovations, shall aim for ambitious quality/efficiency improvements in area of public interest.

Lead procurer

 Public procurer in project appointed by the buyers group to lead and coordinate the PCP or PPI. Can be part of buyers group or not.

Subcontractors

- Successful tenderers, selected by the buyers group & lead procurer as result of the PCP or PPI call for tender, to provide the R&D services (PCP) or innovative solutions (PPI).
- They do 'NOT' enter the grant agreement with the EC.

PCP and PPI actions – What is covered



PCP/PPI actions co-finance (1) + (2)

Open Market Consultation, preparation tender spec,	(1) PCP/PPI procurement	Evaluation results Preparing follow-u Dissemination etc
ket on, n sc, etc	Following up progress suppliers Validating, testing solutions Dissemination activities Standardisation, certification, etc (2) Coordination & Networking Acti	p PPI
Preparation Stage	Execution Stage	

Every project goes through a preparation stage and an execution stage

PCP and PPI actions – Proposal preparation



In the proposal, the consortium shall already identify

- A concrete 'common challenge' on which the PCP/PPI will focus (e.g. new solution needed to improve energy efficiency of data centres)
- **KPIs (targeted quality/efficiency improvements) for the PCP/PPI** (e.g. target is energy efficiency improvement of min 30%)
- Illustrating how this challenge fits in the innovation strategy / plans of the participating procurers that require innovative solutions

 (e.g. city procurer a/b/x aims to upgrade x/y/z data centres by 2018)
- Requested budget per participant and plan for preparing and executing the procurement + for the coordination and networking activities

Example proposal: contact IMAILE PCP project (<u>www.imaile.eu</u>) Note this is an FP7 not H2020 proposal (differences in funding rates & proposal template)

Material Info day: Practical info how to find partners, how to prepare a proposal etc (ppts + video)

Attractive success rates for proposers

PCP and PPI actions - Eligible activities



Preparation stage

- Preparation of one joint PCP or PPI procurement per action
 - Open market consultation /verification of market readiness to meet procurement need
- Outcome
 - Agreed common tender specifications + Joint procurement agreement
 - Confirmation of availability of financial commitments to start PCP/PPI

Execution stage

- Joint procurement of the R&D services (PCP) or innovative solutions (PPI)
- Follow-up of suppliers and validation of results
 - PCP: Validation/comparison of the performance of the competing PCP solutions against jointly defined criteria in real-life operational conditions
 - PPI: Evaluation of results of deploying and operating the procured solutions in real-life operating conditions
- Dissemination/exploitation of results

Other coordination/networking activities relevant to the action (e.g. preparation of follow-up PPI, contribution to standardisation / regulation / certification)

PCP and PPI actions – EU contribution



Reimbursement rate direct costs: Max 90% respectively 35% of eligible costs for PCP respectively PPI actions

- Eligible direct costs to carry out eligible activities defined in WP include:
 - Price of the R&D services (PCP) or innovative solutions (PPI) procured (if procurement conducted in compliance with requirements in Annex E WP)
 - Eligible coordination and networking activities
 - May include in-kind contributions (e.g. third parties putting resources at disposal of beneficiaries e.g. for testing of solutions)
 - VAT is an eligible cost unless for beneficiaries that can deduct it
- Requested reimbursement for coordination and networking activities can comprise max 30% (for PCP) / max 50% (for PPI) of total requested grant
- □ Plus 25% for indirect costs. But, no indirect costs on the price of the PCP/PPI procurement or on 3rd party resources not used at the beneficiary premises
- □ **Pre-financing:** Yes, 1st pre-financing at start project for costs for preparation stage, 2nd pre-financing before execution stage for rest of costs (incl. call for tender)



OVERVIEW UPCOMING H2020 CALLS ON INNOVATION PROCUREMENT (PCP+PPI) IN 2016-2017



2016-2017 calls in support of PCP and PPI From "draft WPs"

2016 (~40 M€)

PCP actions

- E-health: 18 M€ (<u>PM-12</u>)
- ICT based solutions for any area of public interest: 4 M€ (<u>ICT-34</u>)
- Earth observation: 3 M€ (<u>EO-2</u>)
- PPI actions
 - ICTs Ageing: 10,5M€ (<u>PM-13</u>)
- CSA actions
 - Urban transport deployment: 2M€ (<u>MG-4.4</u>)
 - Climate environment- raw materials - resource efficiency: part of larger call (<u>SC5-27</u>)
 - Civil protection: 1,5M€ (<u>2-DRS</u>)

2017 (~84 M€)

PCP actions

European Commission

- Robotics smart cities: 7 M€ (<u>ICT-27(d)</u>)
- Soil decontamination: 5 M€ (<u>SC5-26</u>)
- Broadband coms security: 10 M€ (<u>4-DRS</u>)
- Forensics: 10 M€ (<u>9-FCT</u>)
- Border control: 10 M€ (<u>13-BES</u>)

PPI actions

- E-health standards: 8,26 M€ (<u>PM-19</u>)
- Supercomputing: 26 M€ (<u>EINFRA-21</u>)
- Energy efficiency: part of larger call (<u>EE-19</u>)

CSA actions

 Competence centers & procurer networks any area preparing PCP/PPIs: 4 M€ (<u>ICT-33</u>)

PCP actions: co-finance (90%) actual procurement cost for joint PCPs + coordination costs PPI actions: co-finance (35%) actual procurement cost for joint PPIs + coordination costs CSA actions: co-finance (100%) only coordination costs e.g. procurer networks preparing future PCPs/PPIs

Calls for PCP actions



Call deadlines in red

- <u>Health Work program</u>
 - PM-12: E-health innovation in empowering the patient (\in 18M; 16 Feb 2016)

ICT Work Program

- ICT-34: Open to ICT based solutions for <u>any area of public interest (</u>€ 4M; 12 Apr 2016)
- ICT-27(d): Robotics based solutions for smart city applications (€ 7M; 25 Apr 2017)

Space Work program

- EO-2: Downstream earth observation services for public sector (€ 3M; 3 Mar 2016)
- <u>Climate Work program</u>
 - SC5-26: Soil decontamination (€ 5M; 7 Mar 2017)

Security Work Program

- 4-DRS: Broadband communication systems for disaster resilience (\in 10M; 24 Aug 2017)
- 9-FCT: Forensic tools/techniques for fight against crime/terrorism (€ 10M; 24 Aug 2017)
- 13-BES: Next generation info systems for border/external security (€ 10M; 24 Aug 2017)



Call deadlines in red

<u>Health Work program</u>

- PM-13: Deployment of ICT solutions for active/healthy ageing (€ 10,5M; 16 Feb 2016)
- PM-19: Uptake of standards for exchange of digital health records (€ 8,26M; 14 Ma 2017)
- <u>Research infrastructure Work Program</u>
 - EINFRA-21: Deploying innovative High Performance computing systems platform driven e-infrastructure innovation (€ 26 M; 20 Sept 2016)

Energy Work Program

 EE-19: Deploying innovative solutions for energy efficiency (part of larger call of € 47M; 7 June 2017)

Calls for Coordination and Support Actions



Call deadlines in red

ICT Work Program

- ICT-33(a): European wide networks of public procurers preparing future PCPs or PPIs in any area of public interest that requires ICT based solutions
- ICT-33(b): European wide networks of competence centers on innovation procurement (€ 4M for ICT-33 (a) and (b) together; 25 Apr 2017)

<u>Transport Work Program</u>

 MG-4.4: Facilitating PPI on sustainable transport and mobility solutions in urban areas (€ 2M; 26 Jan 2016)

<u>Climate Work program</u>

 SC5-27: Preparing PCPs and PPIs in climate action, environment, resource efficiency, raw materials (part of a larger call of € 8,55 M; 8 Mar 2016)

<u>Security Work Program</u>

2-DRS: Situational awareness systems to support civil protection preparation and operational decision making for disaster resilience (€ 1,5 M; 25 Aug 2016)

Open call ICT- 34/33 for 'ICT based solutions'



ICT is pretty wide domain. ICT covers all Information and Communication Technologies such as:

- Components and systems: embedded ICT systems, minituarisation / system integration, advanced thin large organic and large area electronics
- Advanced computing (e.g. customised and low power computing)
- Future Internet (e.g. smart novel Internet architectures and experimentation platforms,
- optical and wireless network technologies, cloud computing infrastructure and services, tools and methods for software development, web entrepreneurship)
- Content technologies and information management (e.g. big data handling, content handling and modelling, automatic learning language translation systems, creative industries / social media ICTs, ICTs for learning / teaching and gaming, multimodal natural computer interaction)
- Robotics
- Micro- and nano electronics, cross-cutting ICT KETs, photonics (e.g. (O)LED lighting)
- High Performance computing
- Cybersecurity / trustworthy ICT
- Human-centric ICT solutions

European Assistance for Innovation Procurement





What is eafip?

A service set up by the DG CNECT (led by Stella & Corvers)

- Horizon 2020 supports groups of procurers to do joint PCPs/PPIs together)
- eafip supports single procurers to start PCP/PPIs on their own nationally

What does eafip offer?

- Training across Europe
 - 3 major events and 9 smaller workshops with procurers in different sectors between 2015-2018 to provide information and training on PCP and PPI
 Register <u>here</u> to the first major event in Paris, 27-28 October 2015!
- Toolkit and helpdesk
 - Training is based on toolkit on why and how to implement PCP/PPI
 - Helpdesk that will post replies to questions FAQs online

Register here to stay up to date

- Free local assistance
 - For public procurers starting concrete PCPs and PPIs for ICT based solutions
 - Includes legal assistance in the start-up and implementation of a PCP/PPI

Register <u>here</u> your interest in assistance <u>before 10 November 2015</u>



More info on Innovation Procurement:

http://ec.europa.eu/digital-agenda/en/innovation-procurement

- □ Ongoing PCP/PPI projects in ICT (and other) domains:
- <u>http://ec.europa.eu/digital-agenda/en/news/innovation-procurement-power-public-purse</u>
- More detailed info on modalities of PCP/PPI action instrument, evaluation criteria etc in General Annexes to the H2020 Work Program:
- <u>http://ec.europa.eu/research/participants/portal/desktop/en/funding/ref</u> erence_docs.html#h2020-work-programmes-2016-17
- Info about scope of each call topic, online drafting and submission of proposals on H2020 participants portal (search per topic e.g. ICT-34). Calls will be published when WPs are adopted (end October):
- http://ec.europa.eu/research/participants/portal/desktop/en/opportuniti es/h2020/search/search_topics.html



Possible synergies between ESIF and Horizon 2020 on innovation procurement

Lieve Bos Policy Officer Innovation Procurement Innovation Unit (F2) DG CNECT European Commission

HORIZON 2020



GENERAL RULE

IT IS NOT ALLOWED !!!!!!

- To use ESIF and H2020 funding accumulatively to finance the same cost/expenditure item

- To finance the own contribution of the participant from H2020 or ESIF



CATEGORIES OF POSSIBLE SYNERGIES BETWEEN H2020 AND ESIF ON PCP/PPI

Joint or simultaneous use of funds

Sequential funding

Additional funding

Alternative funding



A. JOINT OR SIMULTANEUS USE OF FUNDS

Different funding sources in the same project. This is only possible if the cost items (eligible and submitted) are NOT the same.

Requires very strict financial management to separate the cost items clearly from the conception phase of the project and will only work if the funding decisions of H2020 and ESIF are synchronised.

The rules of both funding sources (ESIF – H2020) should be respected by all beneficiaries even if they receive co-financing from only one funding source. A partner who receives co-financing from ESIF to participate in a H2020 project should also respect the H2020 rules and vice versa.



Possible scenario on PCP

- Preparation of the PCP procurement is supported by H2020 or ESIF
- In the framework of PCP action calls, some participants of the buyers group may receive co-funding from the ESIF and others from H2020.
- This case is applicable only if there is a clear distinction between budgets offered per OP and between expenditures co-funded by the ESIF (per OP) vs expenditures co-funded by H2020.

Example - each R&D provider is paid pro rata by each procurer in the buyers group according to the share of each procurer's contribution to the jointly committed budget.

Condition for success : synchronization between the ESIF calls and the H2020 PCP action calls



Coordination, Preparatory etc. activities are co-funded

by H2020 (CSAs) CO-FUNDING RATE 100% +

25% for eligible indirect costs

OR

Coordination, Preparatory etc. activities are co-funded by the ESIF (ESIF OPs or European Territorial Cooperation Programs)

DIFFERENT CO-FUNDING RATE PER PROGRAM AND/OR PARTICIPANT PROCURER A (Less developed Region)

CO-FUNDS HIS CONTRIBUTION TO THE JOINTLY COMMITTED BUDGET THROUGH THE ESIF

CO-FUNDING RATE up to 85% (for his contribution)

PROCURER C

CO-FUNDS HIS CONTRIBUTION TO THE JOINTLY COMMITTED BUDGET THROUGH H2020

CO-FUNDING RATE 90%* + 25% for eligible indirect costs (for his contribution)

EXECUTION OF A JOINT PCP

<u>PROCURER B</u> (Transitional Region)

CO-FUNDS HIS CONTRIBUTION TO THE JOINTLY COMMITTED BUDGET THROUGH THE ESIF CO-FUNDING RATE up to 60%(for his contribution)

PROCURER D

CO-FUNDS HIS CONTRIBUTION TO THE JOINTLY COMMITTED BUDGET THROUGH H2020

CO-FUNDING RATE 90% + 25% for eligible indirect costs(for his contribution)

* New from 2016-2017 Horizon 2020 work programmes onward



Possible Scenario on PPI

Some procurers located in a less developed Region purchases the innovative solution co-funded by the ESIF (up to 85% rate) and other procurers in other MS are co-funded by H2020 (35% rate) to buy the innovative solution.

Preparation of the PPI may be co-funded either by the ESIF or by the H2020 (CSAs). In case they haven't received co-financing for the preparatory activities these can be co-funded by the PPI actions according to the rules applicable to these actions.

Applicable Scenario in cases:

Under a joint Framework Contract/Agreement which provides the joint technical specifications separate specific contracts (possibly with lots) are implemented by the individual procurers according to their national law for the purchase of the innovative solutions they each individually need. The procurers pay individually the invoices corresponding to the innovative solutions each buys.

Or

The lead procurer launches one procurement procedure, awards all the contracts and pays all the invoices on behalf of the group of procurers



PROCURER A

purchases the innovative solution with the support of H2020

CO-FUNDING RATE 35%* + 25% for eligible indirect costs (for his contribution)

PROCURER C

purchases the innovative solution with the support of H2020

CO-FUNDING RATE 35 % + 25% for eligible indirect costs (for his contribution)

EXECUTION OF ONE JOINT PPI

<u>PROCURER B</u> (Less developed Region)

PROCURER D Less developed Region

purchases the innovative solution with the support of the ESIF in line with the objectives of the relevant O.P CO-FUNDING RATE up to 85%(for his contribution)

purchases the innovative solution with the support of the ESIF in line with the objectives of the relevant O.P *CO-FUNDING RATE up to 85% (for his contribution)*

* New from 2016-2017 Horizon 2020 work programmes onward

Coordination, Preparation etc. activities are co-funded by H2020 (CSA)

CO-FUNDING RATE 100% + 25% for eligible indirect costs

OR

Coordination, Preparation etc. activities are co-funded by the ESIF

DIFFERENT CO-FUNDING RATE PER PROGRAM AND/OR PARTICIPANT



In one project/consortium that prepares a future joint PCP or PPI, Procurers A and B from less developed regions are co-funded by the ESIF (up to 85% co-funding rate) and procurers B and C are cofunded by H2020 (via CSAs – if there is a specific call with co-funding rate 100% + 25% for eligible indirect costs)

- The execution of the joint PCP/PPI can follow one of the scenarios presented in the previous slides.
- Minimum conditions for success:
- - Separate and distinguished cost/expenditure items even at project proposal level
- - Synchronization and coordination between ESIF MAs and H2020 Managing Bodies



		_	
<u>PROCURER A</u> (Less developed Region)	<u>PROCURER B</u> (Transitional Region)		
Coordination and networking activities to prepare for a PCP are co-funded by the ESIF	Coordination and networking activities to prepare for a PCP are co- funded by the ESIF		
CO-FUNDING RATE up to 85% (for his	CO-FUNDING RATE up to 60% (for his		EXECUTIO
contribution)	contribution)		OF A JOIN
PROCURER C	PROCURER D		
Coordination and networking activities to prepare for a PCP are co-funded by H2020 (CSA)	Coordination and networking activities to prepare for a PCP are co- funded by H2020 (CSA)		РСР
CO-FUNDING RATE 100% + 25% for eligible indirect costs	CO-FUNDING RATE 100% + 25% for eligible indirect costs (for his contribution)		



		_	
<u>PROCURER A</u> (Less developed Region)	PROCURER B (Transitional Region)		
Coordination and preparation etc. activities for a PPI are co-funded by the ESIF	Coordination and preparation etc. activities for a PPI are co-funded by the ESIF		
CO-FUNDING RATE up to 85% (for his contribution)	CO-FUNDING RATE up to 60% (for his contribution)		EXECUTI
PROCURER C			OF A JOI
Coordination and preparation etc. activities for a PCP are co-funded by H2020 (CSA)	PROCURER D Coordination and preparation etc. activities for a PCP are co-funded by H2020 (CSA)		PPI
FLAT CO-FUNDING RATE 100% + 25% for eligible indirect costs (for his contribution)	FLAT CO-FUNDING RATE 100% + 25% for eligible indirect costs (for his contribution)		



B. SEQUENTIAL FUNDING

Separate successive and legally/financially not linked projects with alternating H2020 or ESIF support – - First PCP and then PPI –

This is an easier way to combine funds with less risk of (involuntarily) creating double co-funding scenarios.

> <u>Sequential funding can go in both directions:</u> <u>First ESIF and then H2020 or vice versa.</u>



Possible Scenario

First PCP (H2020) to develop and test the innovative solution and then PPI (ESIF)for the deployment of the innovative solutions developed and tested through PCP and vice versa (ESIF for PCP and H2020 for PPI)

Example:

A group of Public Procurers from different cities are looking for a new sustainable public water supply system. It requires R&D. At first they implement a PCP (Phases 1,2,3) with the support of H2020 and different solutions are developed and tested.

Thereafter they implement a PPI with the support of ESIF/ERDF to cofund the preparation of the call for tender and the purchase of these new solutions (each MA for the territory covered by its OP).



C. ADDITIONAL/PARALLEL USE OF FUNDS

ESIF money is not linked to a H2020 project (PCP/PPI), but a regional/national authority decides to co-fund a regional/national project or beneficiaries to enhance the H2020 project or programme in its region.

This may be particularly relevant to skills development or capacity building in innovation and cooperation

Example

Skills enhancement of the public procurer focused on the use of the innovative product that is purchased in the framework of a PPI that is co-funded by H2020



D. ALTERNATIVE FUNDING

- □ ESI Funds could be used for project proposals that have received positive evaluation under H2020 and could not be co-funded due to lack of H2020 funds under the call.
- These proposals could be reoriented towards ESIF requirements and submitted at national/regional level, if this type and topic of project fits into the operational programmes of the concerned territories.



CONDITIONS FOR SUCCESS

Include innovation procurement in the RIS3 SWOT and policy mix.

Build PCP/PPI references into OPs in every relevant thematic objective.

Ensure support of public demand driven innovation in the framework of the European Territorial Cooperation.

Involve MA from the beginning to ensure availability of ESIF & synchronisation.



Thank you very much for your attention

Lieve Bos Policy Officer Innovation Procurement Innovation Unit (F2) DG CNECT European Commission

HORIZON 2020

Why split between PCP and PPI This enables to...



- Get better and 20% cheaper products (US defense data)
- Use PPI also if no(more) R&D needed for procurement need
- Use a small budget PCP to de-risk a large budget PPI
 - PPI spec can be 'completely rephrased' benefiting from PCP lessons learnt
- Use conditions that encourage job creation 'in Europe'
 - Because PCP falls outside WTO rules
- Prevent foreclosing of competition & crowding out of private investment in R&D
 - Companies that are not financing their R&D via procurement/PCP (e.g. via grants, own company resources) can still bid for deployment contracts/PPIs
- Facilitates access to procurement market for SMEs
 - Gradually increasing contract sizes, tasks, required manpower
 - Stringent financial guarantee/qualification requirements:'no' in PCP,'ltd' in PPI

... above not the case if R&D is procured as part of/inside large deployment contract

Examples EU funded transnational PCPs Traffic Management



CHARM

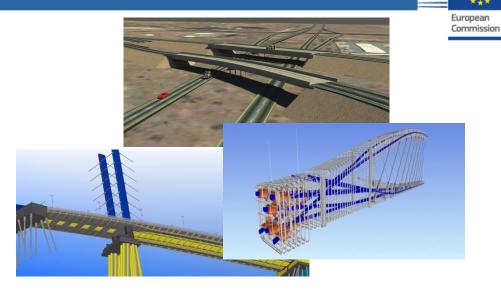
Project timing: Sept 2012 (48 months) Value PCP: € 2,88M Contact: ian.chalmers@highways.gsi.gov.uk Project Website: tinyurl.com/CHARM-PCP

CHARM is a cooperation between 3 road authority procurers: Rijkswaterstaat (NL), Highways Agency (UK), Department Mobility and Public Works - MOW (BE). Other Traffic management authorities (e.g. Traffikverket (SE) associated to the project to follow-up its progress)

European Commission

CHARM contracting authorities jointly procure R&D services via the PCP to move towards an open modular traffic management architecture by getting 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.

Examples EU funded transnational PCPs Virtual Road Construction





Project Timing: Oct 2012 (48 months) Value PCP: € 1,467M Contact: benno.koehorst@rws.nl Project Website: www.rws.nl/en/highways/v_con

V-CON is a cooperation between procurers in the domain of road administation: Rijkswaterstaat (NL), Centre Scientifique et Technique du batiment (FR), Trafficverket (SE), TNO (NL)

The PCP undertaken by the V-CON contracting authorities focuses on R&D for virtual modelling of road infrastructure.

Examples EU funded transnational PCPs Digital preservation





Project Timing: January 2014 (36 months) Value PCP: € 2,136M Contact: borje.justrell@riksarkivet.se Project website: www.preforma-project.eu

Procurers: Riksarkivet - National Archives(SE), Beeld en Geluid (NL), Koninklijk Instituut voor het kunstpatrimonium (BE), Greek Film Center (GR), Local Government Management Agency - LGMA (IE), Stiftung Preussischer Kulturbesitz (DE), Ayuntamiento de Girona (ES), Ministry of Culture - EVKM (EE), Kungliga Biltioteket - National Library (SE) Other partners: Packet Expertisecentrum Digitaal Erfgoed (BE), Promoter SRL (IT), Fraunhofer (DE), University of Skövde (SE), University of Padua (IT),

The PREFORMA PCP addresses the challenge faced by memory institutions of increasing transfers of electronic documents and other media content for long term preservation. PREFORM intends to establish a long-term sustainable ecosystem of innovative tools and to provide a reference implementation of the most common file format standards for the assessment and for the correction of the collections to be archived.

Examples EU funded transmational PCPs **E-learning**





Commission

Innovative Methods for Award Procedures of ICT learning in Europe

Project Timing: February 2014 (42 months) Value PCP: € 4,6M Contact: Ellinor Wallin (ellinor@euprojektkonsult.se) Project website: http://www.imaile.eu

IMAILE procurers are: Halmstads Kommune (SE) and Alexandersson University Institute Varberg (SE), University of Magdeburg (DE), Municipality of Konnevesi (FI), City Council Viladecans (ES). Other partners: Region Saxony Anhalt (DE), Oulu IT Center of Excellence (FI), INOVAMAIS (PT), ENTER (Austria), INOVA Eszak-Alfold Regional Development and Innovation Agency (HU)

The IMAILE PCP will focus 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. This should address students within the topics of Science, Math and Technology, support different learning styles in an individualized way and be accessible from any device including to bring your own device (BYOD).

Examples EU funded transnational PCPs Telemedicine for ICU-patients at increased risk

European Commission



halea

Project Timing: February 2014 (42 months) Value PCP: € 1,55M Contact: Legewie Volker (vlegewie@ukaachen.de) Project website: www.thalea-pcp.eu

Procurers: University Clinic Aachen (DE), University Hospital Maastricht (NL), Parc Tauli Sabadell University Hospital (ES), Hospital East Limburg (BE), Northern Ostrobothnia Hospital District (FI) Other Partners: Ministry for Research & Innovation North-Rhine Westphalia (DE), NLAgency (NL), AIAQS (ES)

Through the THALEA project, 5 hospitals from Germany, Netherlands, Spain, Belgium and Finland will initiate a joint Pre-Commercial Procurement focusing on getting a highly interoperable telemedicine-platform developed for detection of ICU-patients at increased risk.

Examples transnational PPI Sustainability





Low carbon healthcare PPI project started 2006 Introducing more energy efficient LEDs in network of over 20 hospitals in 8 EU countries

30% energy consumption saving
88% maintenance savings
Total cost savings enable take-in +10% patients





For more info:<u>http://lowcarbon-healthcare.eu/</u> National brand names for PPI: Forward Commitment Procurement (FCP) in UK Technology procurement in Nordics (e.g. Sweden NUTEK cases)

Examples transnational PPI Sustainability





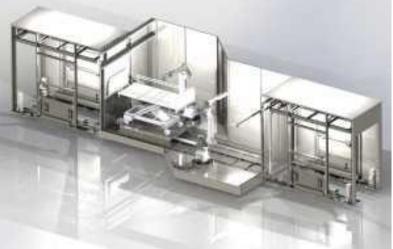
Project Timing: April 2012 (48 months) Value project: € 2M Contact: Gaynor Whyles (gaynor.whyles@jeraconsu Project website: http://www.ecoquip.eu

Follow-up of LCB healthcare project

PPI procurement for more efficient and sustainable healthcare solutions Procurers: Bologna university hospital Authority (IT) Erasmus University Medical Centre (NL), Nothingham univ hospital & Rotherham NHS trusts (UK) Such Deskidzka hospital (PL)

Erasmus University Medical Center Sustainable robotics based bed washing procurement won European PPI award 2014

Cost reduction of 35% CO2 footprint reduction of 65%



Example transnational PPI Health ageing



PUBLIC PROCUREMENT OF INNOVATIONS

Project Timing: October 2012 (42 months) Value project: € 4M Contact: Dominique Legouge, Resah-Idf (d.legouge@resah-idf.com) Project website: http://www.happi-project.eu

6 healthcare purchasing groups from FR, UK, IT, BE and LU launched on 30 September 2014 the <u>first 'joint'</u> <u>transnational PPI procurement</u> in the healthcare domain in Europe: Resah-Idf (FR), NHS commercial solutions (UK), SCR Piemonte (IT), Centrale de Marchés Mercure (BE), Entente des hôpitaux (LU).

The French lead procurer is procuring (establishing a framework agreement with several vendors under French law) on behalf of the whole group of procurers to procure 5 different lots of equipment. All 6 purchasing groups can then setup specific contracts under their own national legislation to buy products from any of the vendors selected under the framework agreement. (Similar as is possible in Horizon 2020)

- Lot 1: Fall detection and alert system
- Lot 2: Treadmill for rehabilitation and analysis of walking disorders
- Lot 3: Walking course for preventing falls and maintaining independence
- Lot 4: Bed thermoregulation system
- Lot 5: Chair enabling users to maintain independence and reducing effort for aides

Example transnational PPI Elderly Care



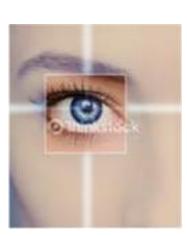


Project Timing: April 2014 (36 months) Value PPI: € 17,2M website: stopandgoproject.eu

STOP AND GO contains 6 procurers: Regional Health Agency Campania (IT), Health agency province Catanzaro (IT), Health agency Rome (IT), Eastern Cheshire Clinical Commissioning Group (UK), Health procurement agency/Junta de Andalucia (ES), Gemeente Helmond (NL)

The €17,2M PPI aims 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.

Examples EU funded network of procurers eHealth domain





Project Timing: February 2015 (22 months) Contact: pmo.aquas@gencat.cat Project website: www.pro4vip.eu

PRO4VIP is a coordinating and networking project with partners: Agència de Qualitat i Avaluació Sanitàries de Catalunya - AQuAS (ES), Barcelona Macula Foundation research for vision - BMF (ES), UCLPartners (UK), Berufsförderungswerk - BWF (DE), Rittmeyer regional institute for the deaf - RITT (IT), University Salerno - US (IT), Friuli Venezia Giulia region - FVG (IT), Trieste AREA (IT), European Blind Union - EBU (FR), ECRIN European Research Infrastructure Network (FR), ZENIT (DE)

European Commission

Low vision is globally increasing as a result of the ageing world population. The PRO4VIP network brings together healthcare procurers that aim to develop 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.

Examples EU funded network of procurers eHealth domain



SMART AMBULANCE EUROPEAN PROCURERS PLATFORM

SAEPP

Project Timing: January 2015 (8 months) Contact: dexter.montgomery@nhs.net Website: www.smartambulanceproject.eu

SAEPP is a coordinating and networking project with partners: NHS Commercial Solutions (UK), Ambulance Today (UK), University Medical Center Groningen - UMCG (NL), Falck (DK), Region Zealand (DK), INEM (PT), South Karelia Central Hospital (FI), BITECIC (UK), South East Coast Ambulance Service (UK), Yorkshire Ambulance Service (UK), Royal College of Art (UK), University of Sheffield (UK), University of West England (UK), Fibico (ES), TECNALIA (ES), Saimaa university of applied sciences (FI), Lappeenranta university of technology (FI)

The SAEPP network of ambulance procurers and users is preparing the ground for a PCP to develop an ICTequipped ambulance of the future that enables a shift from a vehicles that services as a means of urgent transport to an on-board mobile treatment space. The objective of the ambulance redesign is to enable prehospital care in order to avoid unnecessary hospital admissions and the associated patient distress and hospital costs.

Examples EU funded network of procurers eHealth domain







Project Timing: January 2015 (24 months) Contact: a.duran@bravosolution.es Project website: www.innovationithospitals.com

EPP eHealth is a coordinating and networking project with partners: Bravosolution (ES), Region Zealand (DK), Servicio Andaluz de Salud - SAS (ES), Servicio Madrileno de Salud - SERMAS (ES), University Hospital Krakow (PL), dane-ianalizy (PL), Optimat (UK)

The EPP eHealth consortium aims to transform the market for eHealth solutions through dialogue and innovation procurement. The project will make progress towards this aim by creating a network of procuring organisations that understand the opportunities that eHealth can offer. The project will create a critical mass of procurers that will proactively develop forward looking procurement plans to create a coherent demand for eHealth solutions.