

ENLIGHTENMENT AND INNOVATION, ENSURED THROUGH PRE-COMMERCIAL PROCUREMENT IN CITIES



Report on PCP knowledge base

Deliverable 2.1







Public report Author: Hendrik van Meerveld & Joram Nauta

March 2014



About ENIGMA

common city challenges across the EU and improve the quality of life of their citizens. partners also aim to demonstrate how PCP can be used in a transnational context to tackle solutions in the field of public lighting through a joint Pre-Commercial Procurement (PCP). The and efficiency of public services by supporting the development and validation of breakthrough The goal of the European-funded ENIGMA project is to bring radical improvements to the quality

PCF

and design, prototyping, up to the original development of a limited volume of first products or products or services on the market but with the R&D phase, which involves solution exploration available on the market yet. Accordingly, PCP is not concerned with the procurement of existing to solve a socio-economic problem or challenge of public interest for which there is no solution development (R&D) services by the public sector. It is triggered by procurers identifying the need Pre-Commercial Procurement (hereafter PCP) essentially refers to the purchase of research and

process, to allow the development of innovative solutions that meet the needs of a Contracting The PCP instrument enables the commissioning of R&D services, under a staged competitive Authority. This approach is based on:

- Risk-benefit sharing according to market conditions;
- Competitive development in phases; and
- Separation of the R&D phase from deployment of commercial volumes of end products.

'know-how'. Furthermore, the degree of understanding and experience on PCP still varies a lot But from the perspective from practical implementation, there is still a lack of knowledge and PCP has received much attention, particularly by policy makers as a tool to promote innovation.

awareness-raising and experience-sharing on PCP, as well as encourage cooperation among public started in 2009 to support the establishment of networks of public procurers on PCP to promote In response to the positive reactions from the EU Council and Parliament on PCP, the Commission visible in the figure below which is shown on the Cordis website: PCP related initiatives. related initiatives have emerged in a number of countries around Europe. This has been made This however, does not mean nothing is being done in regard to PCP. Over the past few years, PCP

commercial procurement across Europe European Commission (2011), Compilation of results of the EC survey on the status of implementation of pre





of procurement in innovation has received much attention, PCP in particular are not extensively documented in 1 In part, this is indicated by a limited amount of documented cases, at least in scientific literature. Although the role



through this link. border PCP procurement, started beginning 2012. Examples of both type of projects can be found countries across Europe. Such projects, that receive EC co-financing for undertaking a joint crossreally undertake a PCP together on a topic that is of interest to public procurers from a number of for proposals to co-finance consortia of public procurers that want to go one step further and implemented pre-commercial procurements. In 2011, the Commission opened also the first calls procurers from different Member States in specific public sector domains that could lead to jointly

Switzerland Switzerland I Denmark I Denmark I Denmark I CHARN Sweden I CHARN I CHARN I Wetherlands I Netherlands I Fance Germany LFrance Germany France Portugal Austria Norway

FIGURE 1: OVERVIEW OF INITIATIVES REGARDING PCP IN EUROPE

gained. Many of the initiatives involve knowledge share and/or are aiming at dissemination the knowledge

About this report

knowledge, experiences and other (practical) contributions from within the ENIGMA-consortium This report is the result of the task aimed at acquiring a PCP Knowledge base by bringing together and outside.

report the best of the available knowledge and experience to this consortium and can be used to only their templates, but also their experiences will allow ENIGMA to compile and present in a for public procurement of innovations that ENIGMA can build on. Bringing together and using not design and execute the ENIGMA PCP. Other projects and initiatives have resulted in PCP (or PCP related) processes have been designed

knowledge of PCP from both within the partners and from other sources and use this to synthesize a process suitable for use across European national boundaries. The results will be shared with all The application of this generic PCP process task will gather all the existing experience and

Approach and structure of report

The approach taken in this task followed three steps. The result are reported in a similar structure.

- summarized in chapter 1 of this report. contributions from within the ENIGMA-consortium and outside the consortium. These are Inventory of knowledge base. This included searching for experiences and other (practical)
- 2 were analyzed for it content and manner in which they can contribute to the design and Labelling and selecting experiences and contributions. In an quick scan, the contributions

ENLIGHTENMENT AND INNOVATION, ENSURED THROUGH PRE-COMMERCIAL PROCUREMENT IN CITIES





chapter 2. execution the ENIGMA PCP or other future (trans-national) PCP's. This is summarized in

ω Synthesizing the results. summarized in chapter 3. This included mapping the selected contributions. This

Chapter 4 covers the conclusions and provides an outlook to other steps taken in the ENIGMA

1 INVENTORY OF KNOWLEDGE BASE

PCP RELATED PROJECTS AND INITIATIVES IN EUROPE

PREFORMA	UNWIRED-HEALTH	NYMPHA-MD	p	THALEA	IMAILE F	C4E C	PRACE 3IP P	<u>DECIPHER</u> D	SILVER S	V-CON V	fi	SMART@FIRE Ir	CHARM	Projects undertaking cross-border joint PCPs
			patients at increased risk	Focus: highly interoperable telemedicine-platform developed for detection of ICU-	Focus: E-learning	Cloudforeurope	Partnership for advanced computing in Europe 3rd implementation phase	Distributed European Community Individual Patient Healthcare Electronic Record	Supporting Independent Living for the Elderly through Robotics	Virtual Construction for Roads	first responders	Integrated ICT solutions for smart personal protective equipment for fire fighters and	Common Highways Agency Rijkswaterstaat Model	oss-border joint PCPs

Projects focusing on	Projects focusing on Networking / Awareness Raising related to PCP and PPI
INSPIRE	
P4ITS	
RAPIDE	Bringing innovative products and services to the market more quickly
P3ITS	Intelligent transport domain
PROGR EAST	government application domains for PCP

1.2 From the ENIGMA consortium partners

Consortium partners have—among others—been involved in the following PCP (related) projects.

Pri	ojects focusing on Networking / A	\ware	Projects focusing on Networking / Awareness Raising related to PCP and PPI
•	BLISS	•	CHARM
•	SPEA	•	SILVER
•	PROGR-EAST	•	V-CON
•	LCB-HEALTHCARE	•	SBIR







<u>ا</u> Other

- Useful sites:Procurement forum (link)
- PCP projects on cordis website (link)
- PCP initiatives (link)



N Labelling and selecting experiences and contributions

Several project have resulted in guides for executing a PCP

	0
Document	Comments
Pre-Commercial Procurement: Driving Innovation to	This documents concerns a communication from the
ensure high quality public services in Europe. (link)	commission to the European parliament, the council,
	the European economic and social committee and
	the committee of the regions. It provides a
	description of PCP, and discusses various rules and
	conditions that apply.
A practical guide to PCP ⁴ (<u>link</u>)	This guide is the result of the PROGR-EAST project
	and describes the various (preparatory) steps taken
	in a PCP.
Pre-Commercial Procurement for Intelligent	This document is the result of the P3ITS project.
Transport Systems A Guide for PCP Actors (link)	Although the project focused on intelligent transport
	systems, the guide produced is generally applicable.
Forward Commitment Procurement (link)	Although not designed for PCP's, the FCP method has
	been applied in a number of (pilot) projects aiming at
	procuring innovation (e.g. PPI projects). The results of
	those projects are promising.
	There is special emphasis on the way the contracting
	authorities comes to an optimal procurement
	strategy which includes the identification of needs
	and market engagement.

1.2 Templates/documents

Various templates and tools have been made available through other projects.

	and a supplier of the supplier
Project	Comments
PROGR-EAST (link)	various templates including those for developing
n	business cases for authorities.
SILVER (still to be officially published)	various templates used through the PCP process
	(notifications, specifications, etc.).
CHARM (link)	various templates or example documents used
	through the PCP process. (notifications,
	specifications, etc.).
LCB-HEALTHCARE / ECO-QUIP (link)	Examples of document that were used in the LCB-
	HEALTHCARE project, particularly for engaging with
	potential suppliers. (NOTE: not all are publically
	available)

1.3 Workshop materials

available through the ENIMA website (link). Several training sessions have been organized. Material and presentations have been made

http://ec.europa.eu/information_society/activities/esafety/doc/rtd_projects/fp7/p3its_handbook.pdf





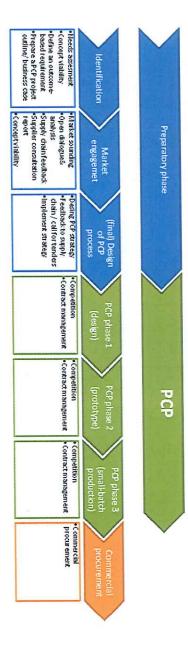
http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=COM:2007:0799:FIN:EN:PDF http://www.progreast.eu/files/PCP%20GUIDE.pdf



N Synthesizing results - integration of knowledge base

2.1 First steps in developing a generic PCP process

PCP-guide and experiences from the LCB-HEALTHCARE project 6 Below, an overview is presented in that incorporates the process overviews from the PROG-EAST



and includes various steps. Furthermore, the preparatory phase is a phase in which the contracting authority/authorities are in close contact to potentials suppliers. The picture emphasized the importance of preparation. A well prepared process is vital to success,

2.2 Integrating knowledge in the generic process

Identification

- Decision model on starting PCP (PROG-EAST, European Commission guide)
- Business case development (PROG-EAST, LCB-HEALTHCARE)

Market consultation

- PIN format (LCB-HEALTHCARE, SILVER)
- Consultation documents (LCB-HEALTHCARE, CHARM, SILVER)

Design of PCP process/implementation

- Proces format/examples (SILVER, SBIR)
- Contract format (SILVER, PROG-EAST)

ENLIGHTENMENT AND INNOVATION, ENSURED THROUGH PRE-COMMERCIAL PROCUREMENT IN CITIES



⁶ FCP was conceived and the methodology first developed by the Environmental Innovations Advisory Group (EIAG) chairmanship of Dr J. C. Frost (OBE). The FCP methodology was further developed by the UK Department for Business Innovation & Skills (BIS), and in 2009 FCP was adopted in 2009 as the methodology for delivery of innovation established by Lord Sainsbury, then UK Minister for Science and Innovation, in 2003 (DTI, 2006) under the procurement in pilot projects within the LCB-Healthcare Project.



3 Conclusions and future steps

- knowledge and know-how on implementing PCP. Although PCP has received much attention in the last couple of years, there is still a lack of
- Much knowledge is present within and outside the ENIGMA consortium.
- ENIGMA and a generic process in designing/executing (transnational) PCP's. Integrating knowledge offers good opportunities in developing a suitable PCP process for
- available through the (internal) ENIGMA website First steps have been taken and are documented in this report. Material has been made
- Next steps of WP2 of ENIGMA aim at further developing an generic PCP process and PCP