

iProcure Security VPCP

Pre-Commercial Procurement of Innovative Triage Management Systems Strengthening Resilience and Interoperability of Emergency Medical Services



D3.3 Tender platform and evaluation system development report



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Executive Summary

This deliverable presents the main elements of the Innovation Procurement Platform. It highlights the main aspects of the technical concept including the development approach, frameworks and software tools that are used. Furthermore, the report includes the user interface (UI) design approach, which is building on research and analysis of good UI design practices. In addition, the frontend and backend of the Innovation Procurement platform is shown and main elements and functionalities explained. Finally, the Tender Manager component, that will allow the submission and evaluation of the tenders, is briefly presented.

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1 Introduction

This report provides an overview on the Innovation Procurement Platform¹ and the connected components that will be used to promote and manage the upcoming Call for Tender of the iProcureSecurity PCP project. The platform provides various functionalities which will allow suppliers to learn more about the upcoming call and find potential partners. As soon the Call for Tender is open, the platform will support suppliers in the submission of their offers. When the Call for Tender closes and all offers are received, the platform will allow the consortium to collect the evaluation results in a structured way.

In the following chapter the report highlights main aspects of the technical concept including the development approach, frameworks and the user interface (UI) design concept. Chapter 3 shows main functionalities of the frontend where suppliers can find more information about the tender and also look for other interested suppliers and the products and services that they promote. Furthermore, the backend of the platform is shown where suppliers can register to showcase their organisation. In addition, the tender manager component is presented which gives a brief overview on the submission and evaluation system. Finally, chapter 4 provides a brief conclusion and outlook of ongoing development and maintenance cycles throughout the project.

2 Technical Concept

2.1 Development approach

SYNYO follows an agile software development cycle for the platform development. This means that an early implementation will allow for continuous adaptions and revisions of the functionalities based on user requirements. This approach will ensure high intuitiveness and usability, and therefore sustainability beyond the project lifetime as the platform will be strongly tailored to the end-user needs. Figure 1 shows the applied Agile Software Development approach.



Figure 1: Software development cycle

¹ See https://innovationprocurement.com/ © 2022 iProcureSecurity PCP | H2020-SU-SEC-2020 | 101022061

2.2 Development framework

In order to be most efficient, the platform is implemented with a flexible and scalable architecture and is built on the basis of use cases, which ensures high intuitiveness and usability of the provided interfaces and functionalities. For the technical implementation, several programming platforms/frameworks are used – including Laravel, Bootstrap and MySQL.

The following table provides an overview of the development environment that is showing the software for the back-end and the front-end of the platform.

Table 1: Development framework

Resource Type	Name
HTTP server	Apache
Programming Language	РНР
Database	MYSQL
Theme	Limitless
HTML, CSS & JS Framework	Bootstrap
JavaScript Library	jQuery
JavaScript Library	Google Recaptcha
Operating System	Linux Ubuntu
PHP Framework	Laravel
Laravel Package	Laravel Passport
Laravel Package	Laravel Modules
Laravel Package	Guzzle
PHP framework	Symfony Components

As main PHP framework Laravel was been chosen. Laravel is a web application framework with expressive, elegant syntax. Main reason for picking Laravel was the fact that it provides in-built security features and is meant to be secure by default. However, it also provides additional flexibility for complex use cases. The most important security features are:

- Cookie Security and Session Management
- Authentication
- Protection against multiple vulnerabilities, such as
 - o Mass Assignment
 - o SQL Injection
 - Cross Site Scripting (XSS)
 - o Unrestricted File Uploads
 - o Path Traversal
 - Cross Site Request Forgery (CSRF)
- Security Headers

2.3 Platform administration concept

The platform architecture is built on a centralised approach with a central administration unit, the AdminBase Panel, in the back-end which hosts the database and the interfaces. For the frontend, the platform has a public and a restricted user area, the latter for registered users only.



Figure 2: Innovation Procurement Platform concept

The platform is conceptualised as an open platform, where different target groups such as suppliers find information and services. In addition, a restricted part, where access will be provided based on user registration and authorisation, will be used to share specific information with selected target groups and build a dedicated community.

In order to make the administration of the platform as lean and quick as possible, it will be administered through the AdminBase. This allows for the step-by-step integration of modules and functionalities during the project-lifetime but also after the project has ended. As Figure 2 shows, a smart web interface accesses the smart web storage system. The platform is controlled through this interface, which can be continuously extended and adapted.

2.4 Technical architecture

The AdminBase (ADM) is a modern and lightweight administration panel application and core part of the platform. It is designed as a single point of entry for all administration of user registrations. As well, it is used to administrate all core database entities (organisations, products, documents, images etc.) and to manage all roles and rights in between.



Figure 3: Software architecture

The restricted modules of the platform require a dedicated registration and user management, which is part of the technical architecture. Therefore, a dedicated registration and user management architecture was set up to ensure that all relevant user parameters can be taken into account.

2.5 UI conception

During the initial project months, SYNYO conducted extensive research on UI concepts and designs, focusing on the structure and appearance of the UI. This also included an analysis of typical tender submission and evaluation systems. Building on user experience (UX) research outcomes and state-of-the-art analysis, the development lead created a best practice template for structuring the platform user interfaces of the different modules. This includes not only the overall structure of how the content is provided, but also the size of particular sections. Figure 4 shows one of the templates that is used as an underlying guideline for the UI design of the whole platform.



Figure 4: UI conception

2.6 UI design elements

Based on the platform concept and the initial UI conception, SYNYO created the design elements for the platform. The design elements are also used for additional materials and videos that are created to promote the platform and help users (e.g. during the registration or submission process).



Figure 5: UI design elements

3 Innovation Procurement Platform

3.1 Frontend

Each entity on the frontend is accessible from the main menu. It provides a filterable directory which can be viewed in list and grid view depending on the user's preferences. Furthermore, clicking on an item will open a new window which provides detailed information regarding a single item.

The frontend has pages regarding cookie and privacy policies, terms and conditions as well as a settings function which can be accessed via a button in the footer of the page which allows to opt-in and out of specific cookie settings.

This section provides screenshots to demonstrate the "look and feel" of the Innovation Procurement Platform's frontend functionalities.

3.1.1 Home



Figure 6: Home

3.1.2 Tenders

The tender section reports all the open, closed and forthcoming tenders. By clicking on the specific tender, the information is displayed, such as the Prior Information Notice (PIN), the general description of the tender, general requirements, tender issuer, and the tender summary (including Tender Stage, contract type, CPV Code, Budget and Language) as well as the expertise offers and requests.



Figure 7: Tenders - List view

Within this section, suppliers can add potential expertise requests and offers for getting in touch with other suppliers to team up for upcoming tenders. In order to post requests and offers, the suppliers must be registered within the platform. The functionality for requests/offers, has been developed for the scope of the matchmaking. In fact, the iProcureSecurity PCP project wants to foster the cooperation and the creation of consortia, in order to create a solution which is fully comprehensive and covers all the collected requirements. This will be facilitated by merging skills and capabilities of different suppliers.



Figure 8: Tenders - Detail page

3.1.3 Products

This section is dedicated to the products. In order for the products to be displayed, the organisation must be registered as supplier within the Platform. All the registered suppliers will be able to add and display their products.



Figure 9: Products - Grid view



Figure 10: Products - Detail page

3.1.4 Services

This section is dedicated to the services. In order for the services to be displayed, the organisation must be registered as supplier within the Platform. All the registered suppliers will be able to add and display their services.



Figure 11: Services - List view

Innovation \$\$ Procurement	Q EUR v Register as Supplier
TENDERS SUPPLIERS PRODUCTS SERVICES DOCUMENTS	ABOUT
Home / Services / Application Design and U//UX	
Application Design and UI/UX Minds & Sparks GmbH	HUDS ANNO
Mindra & Sparka Application Design and UUXX anchos includes a variety of services to create, improve or evaluate the Mixel segma and UX of a specific varie-based application. The service offerst increation of modern and user theirdy design of vebbased applications that will enhance the functionalities and the identity of the solution and amaze users with a simple to use and visually pretry interface.	Contact Got a question or request? Leave message Address: Austra , Vienna , 1060 , Quimoendorfer Straille 73/17
DISCLAIMER: This service is only for demonstration purposes. Any content related to this service is not related to any existing service and only deals for demonstration and presentation purposes	Address: Alpina, venna, isola, usinphotorerana //// Webste: https://www.mindsadquebs.org/ + Karte Statellit Monochrome
Category Development	Slowakei
Service Price €35.00 €200.00 €2,000.00 €10,000.00 Hourry Daily Westy Monthly	Osterreich Derinder Osterreich Scontanter Osterreich Scontanter Osterreich Scontanter Osterreich Scontanter Osterreich Scontanter Scontanter Nazygehergigen Felre to logo Mas heider
€50,000.00 Thie finite	Share this service:

Figure 12: Services - Detail page

3.1.5 Documents

This section is dedicated to the documents related to the specific organisation. In order for the documents to be displayed, the organisation must be registered as a supplier on the Platform. All the registered suppliers will be able to add and display their documents.

TENDERS SUPPLIERS PRODUCTS	SERVICES	DOCUMENTS					ABOUT
Home / Documents Documents (10)						Sort By	Name: A - Z \vee 📘 🚻
			SecurCube*	HELP			SECURCURE PHONELOG
Suppliers	Ý	Hidup	Add		Hidup	Hidup	Contractor interests Contractor interests
Search Suppliers	Q		Hours				THE PARTY OF THE P
Black Space Technology Ltd	1		To Your Day	· · · · · · · · · · · · · · · · · · ·			200
Help-Doctor	1		SECURCUBE FORENSICS REPORT	The second			0
Hidup Medical S.L.	4		CONTRACTOR OF THE OWNER OWNE				And the second s
SecurCube srl	3	Folleto informativo	Forensics Report Brochure ENG	Help-Doctor - OnePager	Investor Deck	Investor Deck EN	Phonelog Brochure
Types	v	Hidup		ALL HELP	Hidup	Hidup	
brochure	9	Medical			Medical	Medical	
catalogue	1	Pages: 13	Pages: 1	Pages: s	Pages: 19	Pages: 19	Pages: 4
Languages	v	Allowed at the last test					
			The second second	SecurCube	Hidup Medical		
English	8	Refer to the second second	and other search				
Spanish	2						
		Profile	Rapid Triage	SecurCube presentation	information brochure EN		
		INTERSPIEAD	ACK SPAI		Hidup Medical		
		Pages: 36	Pages: 1	Pages: 47	Pages: 13		
		Results: 1-10 of 10					

Figure 13: Documents - Grid view

3.1.6 Cookie Settings

The cookie settings can be accessed from all pages at any time to change the cookie preferences according to the end user's needs and requirements.



Figure 14: Cookie settings

3.2 Admin Base

The Admin Base is the central backend service that allows the end user to add data which can be displayed in the frontend. In order to do that, a user must first register an account. This is done via the frontend registration page, which leads to the backend registration form.

3.2.1 Registration

Innovation 55 ALL V Procurement	۹	
TENDERS SUPPLIERS PRODUCTS SERVICES DOCUMENTS		ABOUT
Home / Registration		
Welcome to the Innovation Procurement supplier's registration Welcome to the Innovation Procurement platform. Are you a supplier and would like to display your products and services on the platform? Then join the Innovation Procurement community and create a		
profile for your organisation and solutions. Suppliers are able to display their products and services on the platform and benefit of the smart and customized product and service process. Potential customers are able find products and services with only a few clicks and filter for the desired product and service using the easy-to-use filtering system. To list your products and services register your company using the SIGN UP NOW button below.	AdminBase Register your Organ	isation
Before registering on the Innovation Procurement platform, please read and agree with our Terms and Conditions.		Registration
The Innovation Procurement platform offers suppliers a wide range of opportunities and benefits such as: • Showcase your products and services on the platform to all users and visitors.		
 The user-friendly intelligent search and filtering engine of the platform makes it easier for users and ideal products and services. 	potential customers to find the Are yo	u a product or service supplier?
Direct contact with users and potential customers that are interested in your products and services.		
Enhanced display of your products and suppliers due to the polished design of the platform.		SIGN UP NOW
Visitors and users can immediately recognize the advantages and qualities of your products and ser	vices. If yo	u are already a member login <u>here</u> .

Figure 15: Registration - Frontend page

AdminBase Register your Organisation	Start Registration Email* This value is required. Already registered? To Login Puge START
InnovationProcurement Are you a supplier and would like to display your products and services on the platform? Then join the Innovation Procurement community and create a profile for your organisation and solutions. Suppliers are able to display their products and services on the platform and benefit of the smart and customiced product and service process. Potential customers are able to find products and services with only a few clicks and filter for the desired product and service using the easy-to-use filtering system. To list your products and services register your company here.	
Copylight © 2022 by SYNYO GmbH Terms and Conditions	

Figure 16: Registration - Admin base

3.2.2 Account

Each supplier has also the ability to administer their user account and profile. All data, such as user or company information, can be changed. There is also the possibility to change or reset the password as well as information regarding the deletion of a user account.

ADMINBASE	Innovation 💱 Procurement		T33 EUR \sim	nnovation Procurement ~	INTERSPREAD ~
🖒 Dashboard	Account Profile				
Products >					
Documents >	Dashboard / Profile				
✤ Services →					
Tenders		General	View on Marketplace EDIT		
≗ Profile →					
Overview			INTERSPREAD INTERSPREAD is an innovative company and research hub		
General		INTERSPREAD	focusing on Smart Technologies, Interactive Web Applications and Intelligent Marketing in context of the Digital		
Contact			Transformation. Applying a holistic approach that combines consulting, design, marketing and technology INTERSPREAD		
Credentials			provides clients with strong technical skills, fascinating ideas and enthusiastic employees.		
			Understanding social, cultural, economic and political dynamics within society and social phenomena in general, are indispensable prrequisites for identifying future technological demands.		
		Foundation Year	2010		
		Currency	EUR		
		Activity Radius	INTERNATIONAL		
		Body Type	PRIVATE		
		Profit Type	PROFIT		
		Person Type	LEGAL		
		Markets	NA		
		Contact	EDIT		
		Holochergasse 20/4 1150 Wien Austria			
		Credentials	EDIT		
		office@interspread.com *****			
		Account Removal			
		If you wish to remove your profile, please co	ntact office@adminbase.eu.		

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Figure 17: Account settings

3.2.3 Dashboard

After logging into the account, a dashboard will provide an overview of the functionalities a user has access to. It provides a description and an explanation text as well to help the user navigating through the interface.

ADMINBASE	Innovation 💱 Procurement	EED EUR V 😽 Innovation Procurement V INTERSPREAD V
🟠 Dashboard	DASHBOARD	
Products >		
Documents >	Dashboard	
✤ Services >		
Tenders	About Dashboard	
▲ profite →	Contract and manage products, services and documents that you with to be showcased in the invocation microardian microard	Makagabase. Use the menu on the left side or the sections below to access the different entities and add information to your Wiew on Markeplace Products Manage your offered products

Figure 18: Dashboard

3.2.4 Documents

Documents can be viewed, added and edited via the Documents menu point. Like other entities, the overview provides an introduction text for better usability.



Figure 19: Documents - List view

ADMINBASE	Innovation 💱 Procurement		ted EUR 🗸	nnovation Procurement ~	INTERSPREAD ~
🖒 Dashboard	Add Document				
Products >					
Documents >	Dashboard / Documents / Create				
Document List			_		
Add Document		Create Document			
✗ Services →		Title*			
Tenders		Title			
≜ Profile >		Language" Select one " " Select one	• •		
		Document" Datel auswahlen keine ausgewahlt Publich Vear Publich Vear			
		SAVE			
	Copyright © 2022 by SYNYO GmbH Terms and Conditions				

Figure 20: Documents - Add document

3.2.5 Products

Products can be administrated via the Admin Base too. An overview is provided from where the user can add or edit an existing product item.

ADMINBASE	Innovation אין ED EUR - Stronger Innovation Programment - INTERSPEAD - Procurement
✿ Dashboard	Product List App Product
Products >	
Product List	Deribbard / Produits
Add Product	
Documents >	About Products Page
✤ Services →	In this page you are able to see and manage all your products. You can use the button on the top right to add a new product. To edit an already existing product, hover over the product and select the newly appeared exit button (blue button). If you with to delet the product you also need to how the specific product and cick on the eleife button (blue button). How you with to delet the product and select the newly appeared exit button (blue button). If you with to delet the product you also need to how the specific product and cick on the eleife button (blue button). How you with to delet the product on revealed to your supplier, You can use the delet button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how you have also need to how you have also need to how the specific product and cick on the eleife button (blue button). How you have also need to how you have also need to have also need to how you have also need to have
Tenders	can see an used products on innovation vincurement.
≗ Profile >	
	No products have been added yet
	+ ADD PRODUCT
	Copyright © 2022 by SINVID CmbH Terms and Conditions

Figure 21: Products - List view

ADMINBASE	Innovation 53 Procurement		ted eur. ~	く) オン Innovation Procurement ~	INTERSPREAD ~
🖒 Dashboard					
Products	Add Product				
Product List	Dashboard / Products / Create				
Add Product					
Documents		Create Product			
✓ Services >>		Product Name*			
Tenders		Product Name			
Profile >		This value is required.	_		
Profile		Slug* Slug			
			Ď		
		General Description* General Description			
		Marketplaces* Innovation Procurement ×			
		Language" English			
		- Product Category*			
		Select one	~		
		Attributes			
		[No Attributes Available]			
		Launched			
		Tech. Readiness Level Select one			
		Keywords			
		Photos > Main			
		Requirements			
		Minimum dimensions of photo in pixel (w/h): 800/600. Accepted formats: jpg, png.			
		Max file size 2000Kb. Min file size 10Kb.			
		 Photos violating the rules stated in Terms and Conditions will be removed without notice. 			
		BROWSE			
		SAVE			
	Copyright © 2022 by SYNYO GmbH Terms and Conditions				

Figure 22: Products - Add product

3.2.6 Services

Similar to Products also Service can be administered. An overview is provided from where the user can add or edit an existing service item.



Figure 23: Services - Overview

ADMINBASE	Innovation 53 Procurement		(e) EUR \vee	くう オン Innovation Procurement 〜 INTERSPREAD 〜
🟠 Dashboard				
Products	Add Service			
Documents >	Dashboard / Services / Create			
Services >				
Service List		Create Service		
Add Service				
		Service Name* Service Name		
Tenders		This value is required.	_	
▲ Profile >		Slug*		
		Slug	D	
		Applications		
		Innovation Procurement ×		
		Language*		
			< ~	
		Service Category* Select one	U.S.	
		Currency for Service Prices* EUR *	·	
		Price Units		
		[No Category Selected]		
		Description*		
		B I ≟ ≒ ∉ ± ∞ ∞ ?		
		Photos > Main		
		Requirements Minimum dimensions of photo in pixel (w/h): 1500/844. 		
		Accepted formats: jpg, png. Max file size 1000Kb. Min file size 10Kb.		
		Photos violating the rules stated in Terms and Conditions will be removed without notice.		
		BROWSE		
		SAVE		
	Copyright © 2022 by SYNYO GmbH Terms and Conditions			

Figure 24: Services - Add service

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3.2.7 Tender Expertise Request/Offer

In this page, a user can see the currently listed tenders in the Innovation Procurement Platform. By clicking on a specific tender, a detail page will open, presenting detailed information of the tender. If allowed by the specific tender, the user will be able to create requests and offers to the tender.



Figure 25: Tenders - Overview

3.3 Tender Manager

The tender manager consists of two main parts. The first part is the Tender Submission module which allows the suppliers to submit their documents in an easy and structured way. The second part is the Tender Evaluation module which allows the evaluators to access and rate the documents according the defined procedure described in the Tender Documents.

3.3.1 Tender submission

The supplier signs up on the Innovation Procurement Admin Base and expresses interest on a particular Call for Tender.

TENDERS	📀 PCP Test ~
HOME MY TENDERS VIEW TENDERS	HELP
Open Tender Calls	
iProcureSecurity PCP Tender KENTRO MELETON ASFALEIAS (XEMEA) The iProcureSecurity PCP Call for Tenders invites all interested parties to present their offers for R&D services in the form of a solution that will provide Triage Management Systems which will strengthen the resilience and interoperability of European Emergency Medical Services (EMS).	~
Demo Tender 1 DEMO This Tender is for demonstration purposes only.	
Demo Tender 2 DEMO This Tender is for demonstration purposes only.	EXPRESS INTEREST

Figure 26: Overview on available tenders

The "My Tenders" tab shows all tenders where the supplier has expressed interest.

т	NDER	;								PCP Test	~
	IOME	MY TENDERS	VIEW TENDERS							HEL	.Р
	M	ly Tenders									
		Tender ID	Tender Title	Solution ID	Solution Name	Closing Date	Tender Status	Phase	Response Status		
		9	Demo Tender 1	14	TBD	30.12.2022 23:59 CET	OPEN		DRAFT	MANAGE	
		8	iProcureSecurity PCP Tender	13	Triage Solution	30.12.2022 23:59 CET	OPEN		SUBMITTED	EVALUATION PENDING	

Figure 27: My Tenders - Overview

In the following step the supplier will see all available details on the selected tender and will be able to download the Call for Tender Documents.

		PCP Te
OME	MY TENDERS VIEW TENDERS	ŀ
	iProcureSecurity PCP Tender	~
	Tender Code: X1234	_
	Issuer: KENTRO MELETON ASFALEIAS (KEMEA)	
	Description The iProcureSecurity PCP Call for Tenders invites all interested parties to present their offers for R&D services in the form of a solution that will provide Triage Management Systems which will strengthen the resilience and inter	operability
	The procent-county for Medical Services (EMS). The procurement addresses the procurer's unmet needs relating to different EMS-related spect, such as: planning and decision making, resource allocation, improved triage practices, data transmission and interoperability, us VMS solutions, resultability, data security and protection in attanded crisis management systems. ProcureSecurity RPD is a research & development (R&D) services procurement which is conducted through a P Commercial-Procurement (RCP). This procurement relates to a joint RPD that will be carried out by the following Contracting Authority. KNTRO MELTON ASFALLIAS (KEMEA), creace. The Contracting Authority is appointed to an I deal the joint RPC, and to sign and ward the framework agreement and the specific contracts for all planes or the RPC, in the name and and behild for the following topping.	ability of re-
	EMPRESA PUBLICA DE EMERGENCIAS SANITARIAS (EPES), Spain SERVICIO MADRILENO DE SALUD (SERMAS), Spain OSTERRECINCIENTES ROTES REUZ (ARC), Austria ACIENDA SANITARIA LOCALE BENVEVENTO (ASLBN), Italy AGENZIA REGIONALE EMERGENZA URGENZA (AREU), Italy ELLINIKOS ERVTIHOS STAVIAOS (HRC), Greece TEHINKO KENTRO ANAESIS VOTTHAS (ERAB), Greece TEMINKO KENTRO ANAESIS VOTTHAS (ERAB), Creece	
	Requirements All Tenderers must use the iProcureSecurity PCP Tender Documents, which can be accessed along with all of the other Tender Documents and related annexes by following the instructions in the Contract Notice on TED.	
	File Download	
	File Download All Documents (zip)	B
		Dì Dì
	All Documents (<i>zip</i>)	
	All Documents (.zip) Tender Document 1 (TD1): Call for Tenders	B
	All Documents (zip) Tender Document 1 (TD1): Call for Tenders Tender Document 2 (TD 2): Technical Offer	Eì Eì

Figure 28: Tender Details and Downloads

As soon as the supplier is ready to submit the completed documents, the user is guided by the system through a structured process to provide the requested information.

TENDERS	(PCP Test Y
HOME MY TENDERS VIEW TENDERS		HELP
Tender Submission Overview	Tender Submission Overview	0
General Information Administrative Section (ENVELOPE A) Technical Section (ENVELOPE B)	Below an overview on main information to be submitted is provided. For further details please consult the Tender Documents. If you have questions: All questions or requests for clarification must be received by the Lead Procurer in English within the submission deadline. The questions or reque for clarification must be addressed to: lpspcp-procurement@kemea-research.gr Attention:	sts
Financial Section (ENVELOPE 6) Financial Section (ENVELOPE C) Cover Letter	 In Annex 1, a detailed explanation of the documents, actions to be taken and related envelopes can be found. More detailed information about the final layour requirements for the Phases 2 and 3 offers will be provided in the subsequent Call-offs. The period of validity of the Tenders is six (6) months from the deadline indicated above (horter validity period is not admissible and shall conduct to the rejection of the offer). Tenders and supporting documents must be written in English or a full English translation shall be provided at no cost to the Lead Procurer. Tenders must not be qualified or accompanide by transment or a covering letter than might be construed as rendering the tender equivocal. Unauthorized alterations or additions must not be made to any component of the tender documents. 	n
	General Information Please include below the SOLUTION NAME, TENDER TYPE and SOLUTION SHORT DESCRIPTION.	
	Administrative Section (ENVELOPE A) Envelope 4 shall contain information and evidence on the legal capacity, non-disqualification from exclusion criteria, economic and financial standing of the bidder, technical and professional eligibility and fulfilment of the compliance criteria, to be provided by means of the documents and forms described below: The legal capacity and the representation of the Tenderer, all the members of a the Consortium (if applicable), subcontractors (if applicable) and Third Parties (if applicable) and Third Parties of a Construm will have to fill in itigs in by duy autorized person – and submitting the Legal Capacity Ore Tenderer Statement (TDS) in the case of algoint ender, all the members of a Construm will have to fill in itigs in by duy autorized person – and submitted. To prove compliance with the exclusion election and particular aver driver ital the randerer all the members of the Construction (if applicable), subcontractors (if applicable) and Third Parties (if applicable) shall fill in, sign - by duy authorized person – and submitted.	

Figure 29: Tender Submission Process Overview

The system asks for a set of general information and for uploading the administrative, technical and financial envelopes individually. Additionally, a cover letter has to be uploaded as well as sent via post to the lead procurer.

TENDERS	😔 R91	Test ~
HOME MY TENDERS VIEW TENDERS		HELP
Tender Submission Overview General Information Administrative Section (ENVELOPE A) Technical Section (ENVELOPE B) Financial Section (ENVELOPE C) Cover Letter	Administrative Section (ENVELOPE A) Envelope A shall contain information and evidence on the legal capacity, non-disqualification from exclusion oriteria, economic and financial standing of the bidder, technical and professional eligibility and fulfiment of the compliance criteria, to be provided by means of the documents and forms described balos: • The legal capacity and the representation of the Tenderer, all the members of a the Consortium (if Applicable), subcontraction (if Applicable) and Third Partiss (if Applicable) and ball be proved by filling, signing - by duly subcontege person – and submitting the Legal Capacity of the Tenderer. • In the case of a joint ender, all the members of a Consortium mill have to filling ingine - by duly subcontege person – and submit the Consortium (if Applicable) in the case of a joint enders. • The legal capacity can be added to a subcontracting fits again and the tender subcontractions (if Applicable), subcontractions (if Applicable), and Third Parties (if Applicable) • In the case of a joint enders. • The legal capacity descentracting the Subcontracting fits assument (TDS) • In the case of a joint enders. • The legal capacity constraint of a generative fits the index of the members of the Consortium (if Applicable), subcontractors (if Applicable), and Third Parties (if Applicable) subcontractors (if Applicable) (if Applicable	
	ENVELDPE A Date/audmählen Keine ausgenshit	
	PREVIOUS NEXT]

Figure 30: Tender Submission Upload

Before completing the submission, the user can check again all uploaded files.

TENDERS		📀 PCP Tec	st ~
HOME MY TENDERS VIEW TENDERS		н	HELP
Tender Submission Overview General Information Administrative Section (ENVELOPE A)	Submission Summary Please finally check if all information and attached documents are correct. Attention: Please mind that after you click on "SUBMIT" you will not be able to make	any changes for this Tender Submission.	
Technical Section (ENVELOPE B) Financial Section (ENVELOPE C) Cover Letter	General Information Solution Name Tenderer Type	Triage Solution	
Submission Summary	remensi iyo	Jongwe Hersewise	
	Administrative Section (ENVELOPE A) ENVELOPE A	B ENpot	
	Technical Section (ENVELOPE B) ENVELOPE B	Billpor	
	Financial Section (ENVELOPE C)	B Elkpor	
	Cover Letter Cover Letter	B Ritper	
	ALL DOCUMENTS Submission Documents Package	submission_13_Ges.zip	
		SJØMIT	

Figure 31: Tender Submission Check

Finally, the supplier has to confirm that all entered and uploaded data is correct. In addition, the supplier is advised that once the submission is complete, no further changes can be made.

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D3.3 Tender platform and evaluation system development report

TENDERS			PCP Test 🗡
HOME MY TENDERS VIEW TENDERS	Confirm Submission	×	HELP
	I confirm that the provided data is correct and complete.		
Tender Submission Overview	 I am aware that the data cannot be changed after submission. Subr 		
General Information	Attention, sease millio diacatter you click on soowin- you will not be able to make	e any changes for this render Submission.	
Administrative Section (ENVELOPE A)			
Technical Section (ENVELOPE B)			
	General Information		
Financial Section (ENVELOPE C)	Solution Name	Triage Solution	
Cover Letter			
Submission Summary	Tenderer Type	Single Tenderer	
4	Administrative Section (ENVELOPE A)		
	ENVELOPE A	🗎 EN.pdf	
	Technical Section (ENVELOPE B)		
	ENVELOPE B	🖪 EN.pdf	
	Financial Section (ENVELOPE C)		
	ENVELOPE C	EN.pdf	
		An or	
	Cover Letter	EN.pdf	

Figure 32: Tender Submission Confirmation

After submission the supplier will be informed that the submission process was completed. Also, the "My Tenders" tab will indicate the new status.

3.3.2 Tender evaluation

The tender evaluation system is currently completing the first development cycle and is being updated and aligned with the final decisions that have been taken during the finalisation of the Tender Documents. The tender evaluation module has a unique login screen which is made available only to the defined board members. The system will allow the Administrative Board to guide the evaluation procedure as defined in the Tender Documents and highlighted below.

The iProcureSecurity PCP Buyers Group will proceed with the tenderers' eligibility based on the information provided in the Administrative Section of the proposal (exclusion, selection and on/off award criteria, all related documents submitted in ENVELOPE A). This will be followed by the technical evaluation (all related documents submitted in ENVELOPE B) and the financial evaluations (all related documents submitted in ENVELOPE C).

TENDERS		😳 PCP Rest Y
HOME		HELP
Submission Evaluation for iP	rocureSecurity PCP Tender (ID 8)	
GENERAL INFORMATION		
Solution Name	Triage Solution	
Solution Description		
Туре	Single Tenderer	
ADMINISTRATIVE SECTION (ENVELOPE A	V	
ENVELOPE A		OPEN
TECHNICAL SECTION (ENVELOPE B)		
ENVELOPE B		OPEN

Figure 33: Tender Evaluation Overview

Then the Technical Committee and the Evaluation Committee will proceed to the scoring, according to the criteria and procedures described above. At the end of the evaluation procedure, a ranking will be drawn up, in which the tenders will be inserted based on the overall score achieved, in descending order.

CHNICAL SECTION (ENVELOPE B)	
ENVELOPE B	OPEN
Contract Implementation	0 - 10
Functional Quality Criteria	0 - 40
Non-Functional Quality Criteria	0 - 15
Commercial Feasibility	0 - 5
Evaluation of the solution and sustainability of testing	0 - 10
	SAVE

Figure 34: Tender Evaluation Scoring

In case that tenders of two or more tenderers obtain the same overall score, but with different partial scores for the price and for all the other different evaluation elements, the tenderer who obtained the best score on the Technical Offer will be placed first in the ranking.

TENDERS				😔 PCP	Test ~
HOME					HELP
Submission R	tanking				
iProcureSecurity Rank	PCP Tender Submission ID	Name	Submitted by	Total Score	
1	16	Demo Solution 1	Demo Organisation 1	98	
2	17	Demo Solution 2	Demo Organisation 2	88	
3	18	Demo Solution 3	Demo Organisation 3	74	
4	19	Demo Solution 4	Demo Organisation 4	63	
5	20	Demo Solution 5	Demo Organisation 5	54	

Figure 35: Tender Evaluation Ranking

The evaluation system is currently being tested and constantly improved to ensure it is fully validated and in place as soon as the evaluation procedures will start. As the consortium includes several procurers which are new to PCPs and the connected tender evaluation procedures, final testing will also include all board members. Thereby not only relevant end user feedback can be retrieved to ensure the tool is highly intuitive and usable. It also allows the consortium to actually go through the needed process steps of the evaluation and to ensure that all partners are fully aware of the upcoming evaluation tasks.

Furthermore, the Tender Manager component was built to ensure following important general transparency principles:

- a) The exact time and date of the receipt of tenders, requests to participate and the submission of plans and projects can be determined precisely.
- b) It ensures that, before the time limits laid down, no-one can have access to data transmitted.
- c) Only authorised persons may set or change the dates for opening data received.
- d) During the different stages of the procurement procedure access to all data submitted, or to part thereof, is possible only for authorised persons.
- e) Only authorised persons must give access to data transmitted and only after the prescribed date.
- f) Data received and opened in accordance with these requirements remain accessible only to persons authorised to acquaint themselves therewith.
- g) Where the access prohibitions or conditions referred to under points (b), (c), (d), (e) and (f) are infringed or there is an attempt to do so, it is ensured that the infringements or attempts are clearly detectable.

3.4 Platform guidance materials

Besides that, technical development, SYNYO also worked on several supporting and guiding materials that will help the project to attract users to the platform and support them during different steps. Initially a Platform Manual for supplier registration was created as shown below.

Innova Procur	tion 💱 ement
	tion Procurement Platform
Platform Manual for registration	ome to the Innovation Procurement Platform! may you, how to properly register and use to the Innovation Procurement Platform. Troorment Platform provides suppliers with the option to register their organisations, show- references, splated additional relevant documents, and services with other sets the Innovation Procurement Platform and services and services with the option to register their organisations, show- references in the Innovation Procurement Platform builder the additional relevant documents, and services with the option to register their organisations, there references and relevant documents, and marks and services with the option to register their organisations, there references and relevant documents, and marks and services with the option to register their organisations, there references and relevant documents, and marks and services with the option to register their organisations, there references and relevant documents and relevant documents at the investment platform allows the motions in difference there are base informations.
	on_providing all the relevant information on the specific ender, as well as the automatic proce- indicated selection of offers. Two, serving as rompapered, insulve and exp-es-use tool for indicated selection of offers your organisation, products and services quests and offers t connext with other upplers.
	Acck and submit tender proposals
	SISTER? register as Supplier button
	tplace for Innovation Procurement
	Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler Image: Argener en Suppler
	Internation Incomment/Parton Manual
	Innuation Procurement Pardone Manual 2

Figure 36: Platform Manual

Furthermore, a tutorial video was created to explain suppliers the purpose of the platform and how to register.



Figure 37: Platform Video Tutorial

4 Conclusion

The Innovation Procurement Platform including the matchmaking, tender submission and evaluation functionalities is a core element of the iProcureSecurity PCP project. Besides the main goal of the project which is to innovate triage management, the project also seeks to contribute to increase the uptake of innovation procurement as a whole. As can be seen from this report, the development efforts will not only support the process of the current PCP project but should also help future innovation procurement actions.

The platform was designed to make it easy for suppliers to provide information about their organisation, products and services. Furthermore, it allows to easily make new offers and requests on available expertise and capabilities and to get in touch with other suppliers to team up and jointly address upcoming Call for Tenders. Especially for innovation drivers such as SMEs and start-ups it is important to raise awareness and get recognised. The first feedback from suppliers that registered was very positive. Further outreach activities will be conducted during the next months to promote the Call for Tender as well as the platform itself. Currently, the platform has a strong focus on suppliers. This was essential due to the tight schedule of the iProcureSecurity PCP project. However, in future also further features for procurers are considered e.g., to highlight new innovation procurement actions, to find and get in touch with interesting suppliers and to learn from ongoing and completed innovation procurement projects.

The provided system will be further updated and improved based on the insights of the project. An internal risk assessment is conducted regularly to ensure all processes can be performed as planned and all provided data is handled according to latest cyber security standards. Already during the initial development, these aspects have been considered carefully (e.g., during the selection of the available frameworks and components).

For the project consortium, the developed system will provide more convenience in disseminating, collecting and managing all relevant data and documents related to the tender. According to the learning of the pandemic, consortia and teams have to be able to work efficiently together also when no physical meetings are possible. The developed system also wants to contribute to solve this issue and thereby provide another important element to help distributed international procurer teams to work together remotely.