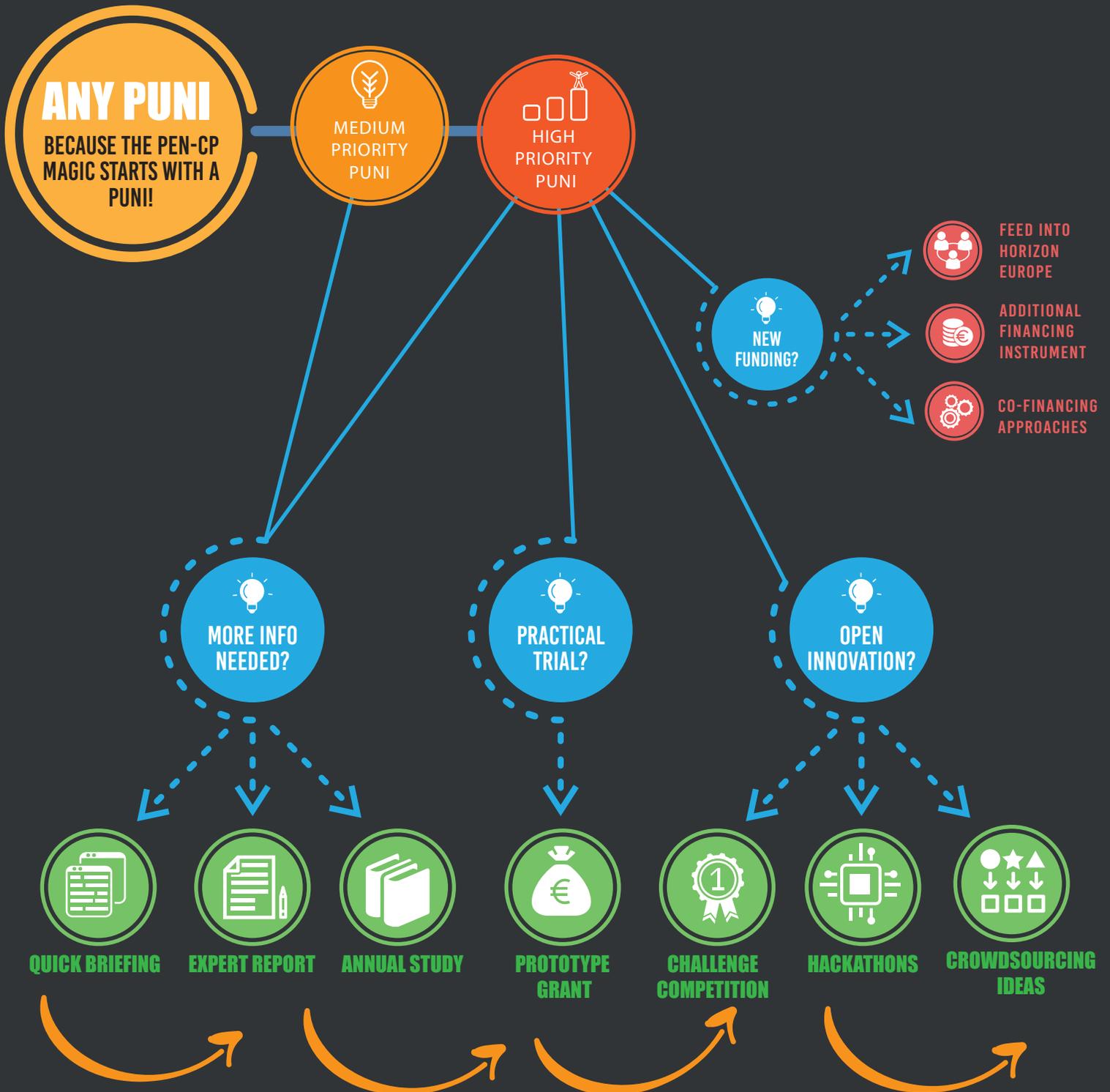




# MAGAZINE



# TABLE OF CONTENTS

- 2 Editorial
- 3 Three PEN-CP Expert Teams – a.k.a. the 3 PETs
- 6 Measuring PEN-CP impacts on innovation acceleration
- 9 Interesting start-ups and scale-ups in Europe – outcomes with the 1st PEN-CP Expert report
- 11 Training needs questionnaire
- 13 Planning visits at the 13 Customs partners
- 14 Updated PEN-POCs
- 15 H2020-collaboration: iProcureNet
- 16 H2020-collaboration: ARESIBO (updated on 26.2.2020)
- 17 H2020 National Contact Points (NCPs)
- 18 POP-Corner
- 19 PEN-Glossary
- 20 Magazine 8 topics & PEN-CP On-line



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## Dear PEN-CP Magazine Readers

Hopefully everyone had a productive first month of the new decade!

After some 16 months of constructing the foundation for PEN-CP – including setting up the POP-platform, populating POP with lots of useful data, finishing first Expert report, kicking off work in multiple Annual study chapters, liaising with multiple key stakeholders, and more – it is time to move to the next stage, what is called now PEN-CP 2.0.

The most important action with PEN-CP 2.0 is setting up and operationalizing the three PEN-CP Expert Teams, the 3 PETs, which will play a focal role in identifying, prioritizing and detailing Customs security challenges and user needs across the project (see pages 3-5). The diagram on the cover of this magazine visualizes the key instruments and actions each PET will be feeding into, as of March 2020. All partners, please be active in joining at least one of the three PETs, by the end of February.

As everyone should be aware, the first reporting period, P1, closes by the end of project month 18, on 29.2.2020. Within 60 days from the closure of each reporting period, each partner has to prepare the resources consumed and the financial report (including "Form C") to be submitted to EC. The coordinator can assist any partner with questions about the process; while the final submissions are performed by each partner directly to EC. Please email any questions to: [pen-cp@cross-border.org](mailto:pen-cp@cross-border.org). We will also organize the 6th Full Consortium Web-meeting during first half of March, focusing primarily on the P1 reporting formalities (date and time to be announced soon). In addition, you can always contact your H2020 National Contact Points to ask advice about the reporting formalities (see page 17).

Hope you enjoy reading the Magazine 7!

In Thun, 12.2.2020

Juha Hintsala

*PS. Please pencil in preliminary dates for Year 2 Annual event: 6-8.10.2020, in Dublin (this will be confirmed soon)*

### PEN-CP Magazine Editorial Team

Susana Wong Chan, UNIL  
Gillian Castle, CBRA  
Johan Pontén, CBRA  
Toni Männistö, CBRA  
Juha Hintsala, CBRA (Project Coordinator)

# ➤ Lifting the three PEN-CP Expert Teams into **FULL ACTION!**

## OVERVIEW

### ON THE THREE PEN-CP EXPERT TEAMS (PETS)

As discussed during the Year 1 Annual Event in Budapest, it is important now for PEN-CP to establish and operationalize the three Expert Teams (PETs), who will play a focal role in guiding the work scope for the remaining 3.5 years of the project. For now, the three PET groups are particularly important when it comes identifying priorities and driving follow-up activities with the Customs challenges and User needs/ requirements, i.e. the “PUNIs”. The three PETs naturally match fully with the PEN-CP technical themes:



#### PET-1

Data and risks



#### PET-2

Detection technologies



#### PET-3

Laboratory equipment

## ORGANIZATIONAL SET-UP AND SUPPORT



Each PET is self-organized, with minimum 4 customs partners (and maximum 13 partners) per team.

Each PET is chaired by one customs expert, which would normally change (circulation between the PET experts) at the end of each year - details to be agreed later.

To support the meeting planning and notetaking, CBRA attaches one technical expert per PET, and UNIL attaches a research expert across all three PETs.

## TOOLS AND DATA SHARING



PEN-CP Online Platform (POP) has sections dedicated per each PET-team



Webex platform can be used for all web-meetings  
Note: please avoid booking multiple PET-meetings at the exact same time, as then we need to subscribe to a 2nd Webex account).



In addition, information on emails and phone numbers can be shared among the PET experts.



Each PET can also discuss if they would opt to use Whatsapp (or similar tool) for “quick communications”.

### PET-1 DATA AND RISKS

Team leader is Jonathan Migeotte (BEL), and he is supported by Toni Männistö (CBRA) and Susana Wong (UNIL). The emails are: jonathan.migeotte@minfin.fed.be, toni@cross-border.org, susana.wongchan@unil.ch

### PET-2 DETECTION TECHNOLOGIES

Team leader is Trevor Francis (GBR), and he is supported by Gillian Castle (CBRA) and Susana Wong (UNIL). The emails are: Trevor.Francis2@homeoffice.gov.uk, gillian@cross-border.org, susana.wongchan@unil.ch

### PET-3 LABORATORY EQUIPMENT

Team leader is Micha Slegt (NLD), and he is supported by Vladlen Tsikolenko (CBRA) and Susana Wong (UNIL). The emails are: m.slegt@belastingdienst.nl, vladlen@cross-border.org, susana.wongchan@unil.ch

KEY CONTACTS  
TO SIGN-UP FOR  
EACH PEN-CP  
EXPERT TEAM

## Next actions FOR EACH OF THE 13 PEN-CP CUSTOMS PARTNERS



1. Agree internally on which PET-team(s), minimum one team (and maximum three teams) your administration will engage with



2. Send an email to the PET-1 / PET-2 / PET-3 teams (as listed above).



3. The team leader will then reply back to you, and inform the date and time for the kick-off web-meeting.

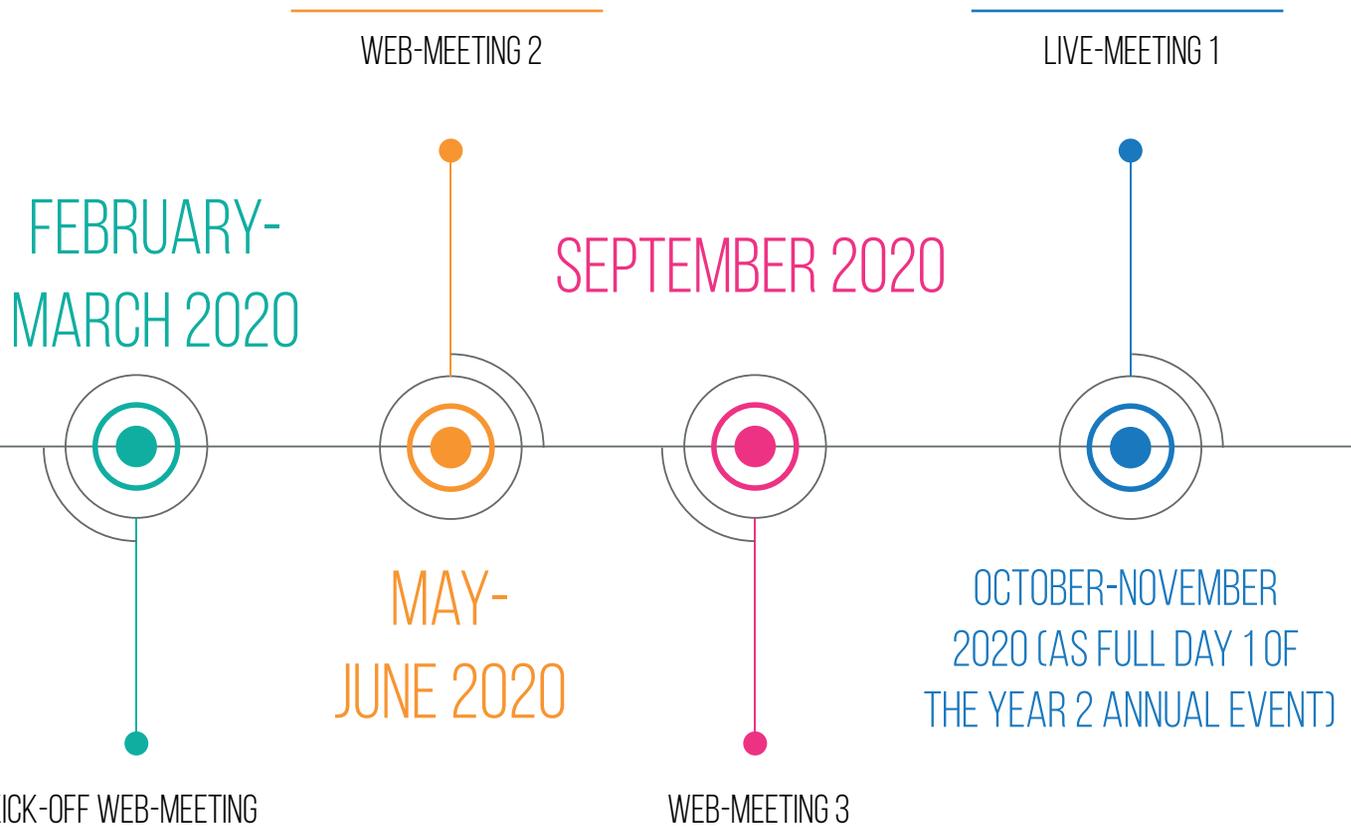


# Specific activities AND EXPECTED (MINIMUM) OUTCOMES BY 30 June 2020

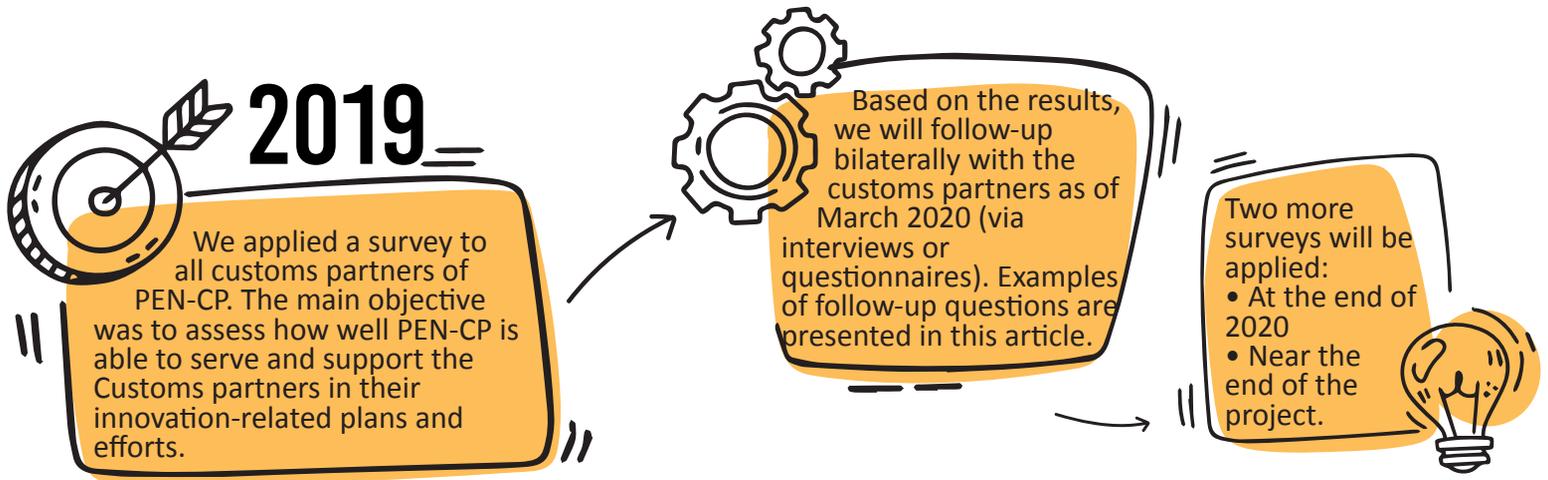


- Each PET group is asked to hold **two web-meetings** by the end of June 2020
- Discuss (and take notes) on important **Customs challenges and User needs/ requirements** (both in and out of the current PUNI database), while using the **“Priority 1/2/3”** grading with the important PUNIs (PET leaders will provide more details).
- **Carry out matching exercise** with the important PUNIs, and relevant solutions and projects (both in and out of the current PUNI database). Take notes on promising matches.
- Discuss and suggest follow-up actions, particularly in the context of **PEN-CP Prototype grant calls and Open innovation calls** (Challenge competitions & Hackathons & Crowdsourcing ideas).
- Brainstorm and agree on specific topics (PUNIs) which could be used for **Year 2 Innovation Award(s)**: “Who comes up with the best Solution idea to a specific problem” (detailed to be defined).
- Discuss and suggest **tangible topics for the future Horizon Europe program** (follow-up for H2020)
- After June 2020, we will revisit the agenda and priorities for the three PET groups to continue the work, in the most beneficial way for the PEN-CP partners and broader customs community.

## Proposed meeting plan for year 2020 (all meetings per PET-team)



# ➤ Measuring PEN-CP impacts in innovation acceleration – SURVEY RESULTS FROM THE 13 PEN-CP CUSTOMS PARTNERS



## RESULTS MOST VALUABLE PEN-CP SERVICES – TOP 6



1. Match customs challenges with promising solution



2. Collect customs challenges



3. Make customs administrations aware of solution providers which they did not know previously



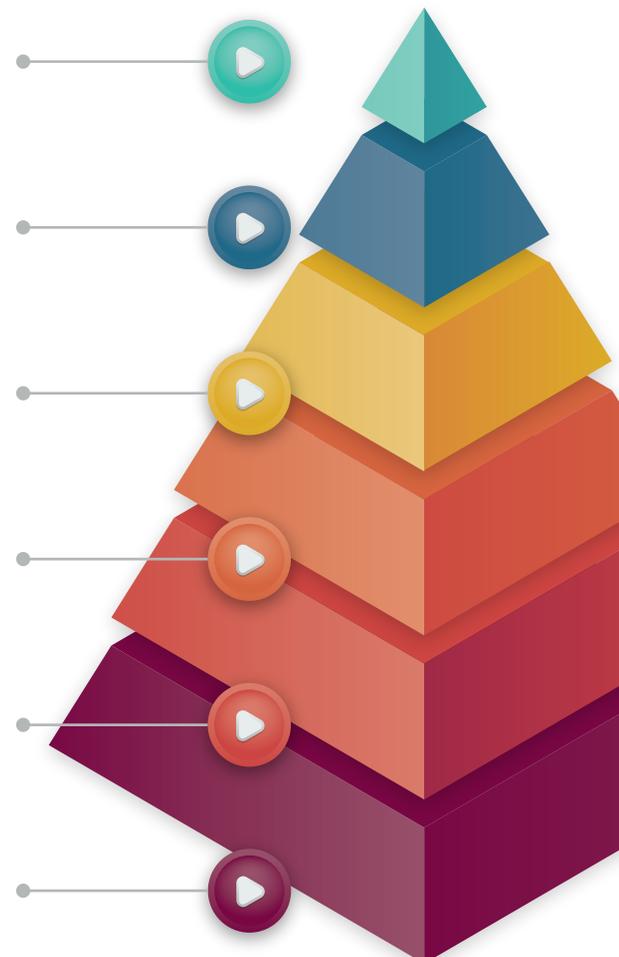
4. Keep track of promising innovations and developments in the market WITHIN the traditional customs domain.



5. Collect potential solutions for such challenges from customs officials, universities, firms (of various sizes, including SMEs, start-ups and scale-ups), etc.



6. Facilitate the sharing of user experiences of solutions, including technical test data sheets, among customs administrations.



## OTHER REASONS WHY THE PEN-CP CUSTOMS PARTNERS DECIDED TO JOIN THE PEN-CP

- To reinforce communication and cooperation between customs
- To improve cooperation between partners: (i) Exchange of information and knowledge and best practices, and (ii) Education and training about customs security
- To keep track on technical developments
- To be on the leading edge of development of new technology
- Possibility to co-fund innovation to share the burden and move development forward
- Possibility to have joint procurements
- Opportunity to "grow" the customs market and to share innovative work

7 CUSTOMS PARTNERS (OUT OF 13) HAVE A PERSON OR A DEPARTMENT THAT DEALS WITH THE TOPIC OF INNOVATION

### FOLLOW-UP QUESTIONS TO THOSE THAT HAVE SOMEONE IN CHARGE OR INNOVATION:

- What are the performed activities?
- Could there be any synergies with PEN-CP?
- What can PEN-CP do to boost their innovation activities?

### FOLLOW-UP QUESTIONS TO THOSE THAT COLLECT CUSTOMS CHALLENGES:

- What type of challenges are being collected?
- How are these challenges being collected?
- Are these challenges shared somehow?
- How are these challenges addressed?
- Can PEN-CP gain access to these challenges?

8 CUSTOMS PARTNERS COLLECT CUSTOMS CHALLENGES

Challenges refer to problems your administration or customs officers are facing today or expecting to face in the future in both operational and/or managerial work.

## 8 CUSTOMS PARTNERS HAVE A SUGGESTION BOX

### FOLLOW-UP QUESTIONS TO THOSE CUSTOMS ADMINISTRATION WITH "SUGGESTION BOXES":

- Are challenges and solutions collected through the "suggestion box"?
- Can PEN-CP use this tool to collect challenges, user needs and potential solution ideas?

### FOLLOW-UP QUESTIONS TO THOSE CUSTOMS ADMINISTRATIONS THAT HAVE IMPLEMENTED OPEN INNOVATION ACTIVITIES:

- Provide details on the organization, participation, outcomes and lessons learned of each open innovation activity

## 4 CUSTOMS PARTNERS HAVE ORGANIZED OPEN INNOVATION ACTIVITIES (HACKATHONS AND CHALLENGE COMPETITIONS)

## 7 CUSTOMS PARTNERS HAVE MONITORED EMERGING PRODUCTS AND SERVICES

### FOLLOW-UP QUESTIONS TO THOSE THAT MONITOR EMERGING PRODUCTS AND SERVICES

- How the monitoring is done?
- How often the monitoring occurs?
- Main objective to monitor

### FOLLOW-UP QUESTIONS TO THOSE CUSTOMS ADMINISTRATIONS THAT HAVE COOPERATED WITH FIRMS:

- What type of cooperation do you engage with firms?
- Objective of the cooperation
- Provide past experiences on such cooperation. We are mostly interested on cooperation with firms related to help them in the process of ideation, design, testing, validation, evaluation of new products and services.

## 8 CUSTOMS PARTNERS (OUT OF 13) COOPERATE WITH FIRMS

# ➤ The 1ST PEN-CP EXPERT REPORT was completed in December 2019!

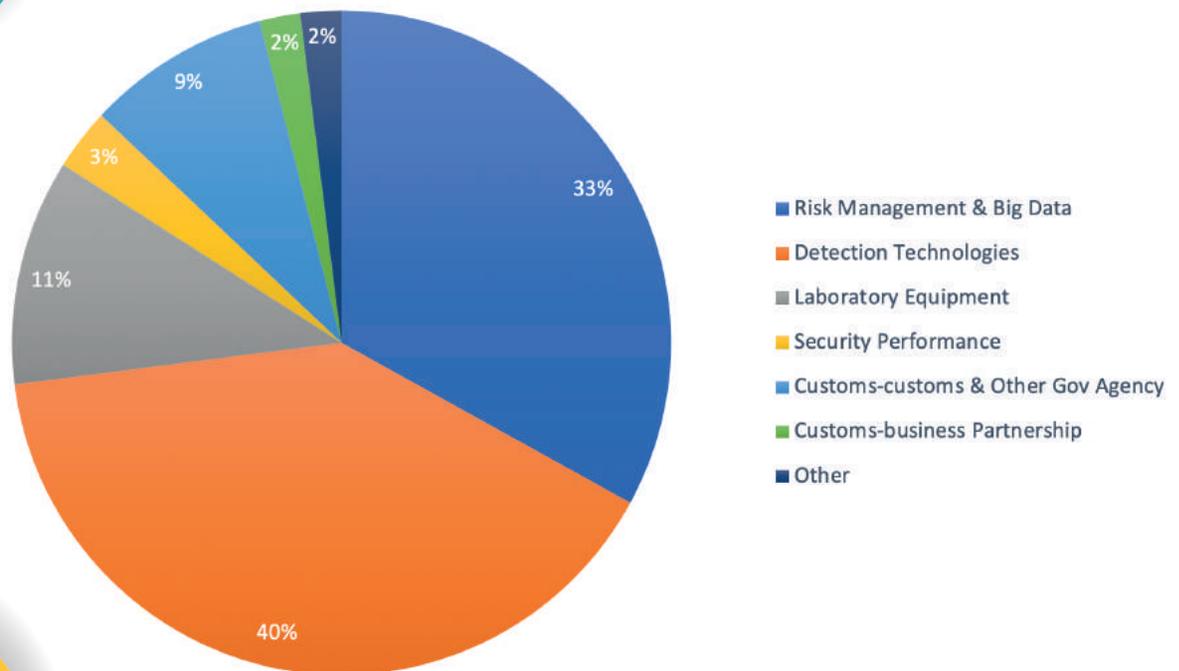
As shared in PEN-CP Magazine 5 (July 2019) interview article, the European Start-up Network, ESN, was selected to carry out the work for the 1st Expert Report in our project. The final outcomes on “Mapping start-up and scale-up landscape in Europe – and how to work further with the mapping outcomes” -study is now available on the POP-platform (Archive-section). In addition, the shortlist of 87 customs security relevant startup and scaleup companies is currently being entered in the PIO-section of the POP-platform.

## PHASE 1

Phase 1, namely scanning and identifying startups and scaleups in the relevant customs areas, provided insights within the startup and scaleup ecosystem related to customs operations and security innovations. ESN scanned its extensive database and identified high-potential startups and scaleups according to the jointly developed criteria. The longlist of 250 startups and scaleups was presented to customs experts, together with a mapping of startups and scaleups according to the themes and geographical spreading.

## PHASE 2

Phase 2, namely shortlisting, consisted of conducting a careful investigation about the business status, maturity stage, funding status and growth needs of startups and scaleups. ESN shortlisted 87 companies, out of which 55 are scaleups, in the customs thematic areas and assessed their readiness to cooperate in the context of the PEN-CP network. PEN-CP has also been provided with verified contact information of decision makers, across the 87 companies.



## PHASE 3

Phase 3 was about accessing startups and scaleups for innovation, communication and interaction purposes. In the final report, ESN devises a multi-channel communication and interaction approach to effectively engage startups and scaleups. The approach is funnel-based and is supported by social media communications.

# GOOD PRACTICE RECOMMENDATIONS: ENGAGING WITH AND EXPANDING THE POOL OF STARTUPS AND SCALEUPS

- Treat startups as partners for a win-win relationship, not agencies or employees.
- Choose the collaboration model that is right for your institution and that best delivers on your objectives.
- Create a culture of entrepreneurship, encourage agents to interact with startups and scaleups. Build a mindset, a culture and a process to organize efforts.
- Careful consideration and understanding of the objectives is critical: what is the motivation of my organization to engage with startups and scaleups? It is key to focus on real internal challenges.
- Reflect about resources and returns. What are the resources that the institution is ready to implicate within the process in terms of time, budget, people? What is the expected Return on Investment? What does the institution want to get from the collaboration with a startup and scaleup?
- Consider training of colleagues contributing to the project. Providing them with direction as to how to interact with startups and scaleups, set expectations.
- Make it easier, as much as possible, for startups and scaleups to work with the institution. It is fundamental to be clear on the process and timing from the very beginning.
- Whenever possible, simplify and standardize contracts.
- Be crystal clear from the beginning about Intellectual Property ownership and encourage consulting legal advice.
- Embrace failure. Often, attitude towards failure is still extremely careful and when fear is present among employees, it blocks creative energy and out-of-the-box thinking. If failure is tolerated at a certain extent within the organization, employees learn how to deal with missteps and move forward.
- In order to be able to successfully expand the pool of startups and scaleups, it is also crucial to develop key performance indicators. Gather and analyse data and feedback on a regular basis to measure and monitor the progress of the collaboration. Test, measure, learn and iterate is the right flow.
- Challenges of the institution evolve, while some of the defined challenges will be solved, new challenges will arise.

## NEXT STEPS



As mentioned above, the shortlisted 87 customs security relevant startup and scaleup companies are currently being entered in the PIO-section of the POP-platform. We invite the three PEN-CP Expert Teams, the 3 PETs, to check them out, while exploring and assessing potential partners particularly for future prototype grant and open innovation (challenge competitions, hackathons and crowdsourcing ideas) calls and activities, across the three technical themes of the PEN-CP network (big data & risk, detection technologies and laboratory equipment) – and, hopefully some interesting matches will be identified!

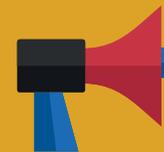


# TRAINING NEEDS QUESTIONNAIRE

**Is Launched!**

**1**

This questionnaire aims to survey the PEN-CP related training needs and training possibilities in the partner countries.



**2**

Before filling out the questionnaire please contact your training department, subject matter experts, professional departments and please fill the questionnaire with your common opinion.



**3**

If you have any question, please contact:  
Ms. Susana Wong Chan (susana.wongchan@unil.ch)  
Dr. Dézsi Zsolt (dezsi.zsolt@nav.gov.hu)



The questionnaire is located on the PEN-CP Online Platform.  
You must have a POP account to fill in the questionnaire. If  
you do not have an account contact Ms. Susana Wong Chan.

## THE LINK



<https://cmt.eurtd.com/groups/profile/85016/pen-cp>

**MARCH  
15**

**Deadline**

# TRAINING SURVEY OVERVIEW (FILL THE FULL SURVEY ON THE POP-PLATFORM)

**QUESTION 1:** During the PEN-CP annual event, the partners suggested a list of training topics. Please rate the level of importance of each training topic in the context of your country.

	5 very important	4	3	2	1 not important
Customs control of trains	<input type="radio"/>				
X-ray image analysis	<input type="radio"/>				
Control of electric cars (x-ray control, physical control)	<input type="radio"/>				
Control of drugs (drug trafficking, types of drugs, how to identify them)	<input type="radio"/>				
Master course for recruitment staff on x-ray image analysis	<input type="radio"/>				
Post clearance audit (using special IT software)	<input type="radio"/>				
Transfer pricing	<input type="radio"/>				
Cooperation with other agencies at the border	<input type="radio"/>				
Customs trade partnership in risk management	<input type="radio"/>				
Training for other border agencies on prohibitions and restrictions	<input type="radio"/>				
Radiation safety	<input type="radio"/>				
Deep rummage in maritime traffic	<input type="radio"/>				
Deep rummage in aircraft	<input type="radio"/>				
Comparison of X-ray images with customs declarations	<input type="radio"/>				

**QUESTION 2:** Please list other training topics that your administration deem significant at national level in the context of risk management & big data, detection technologies, laboratory equipment, security performance measurement, customs-customs and other-government-agency cooperation and customs-business partnership programs

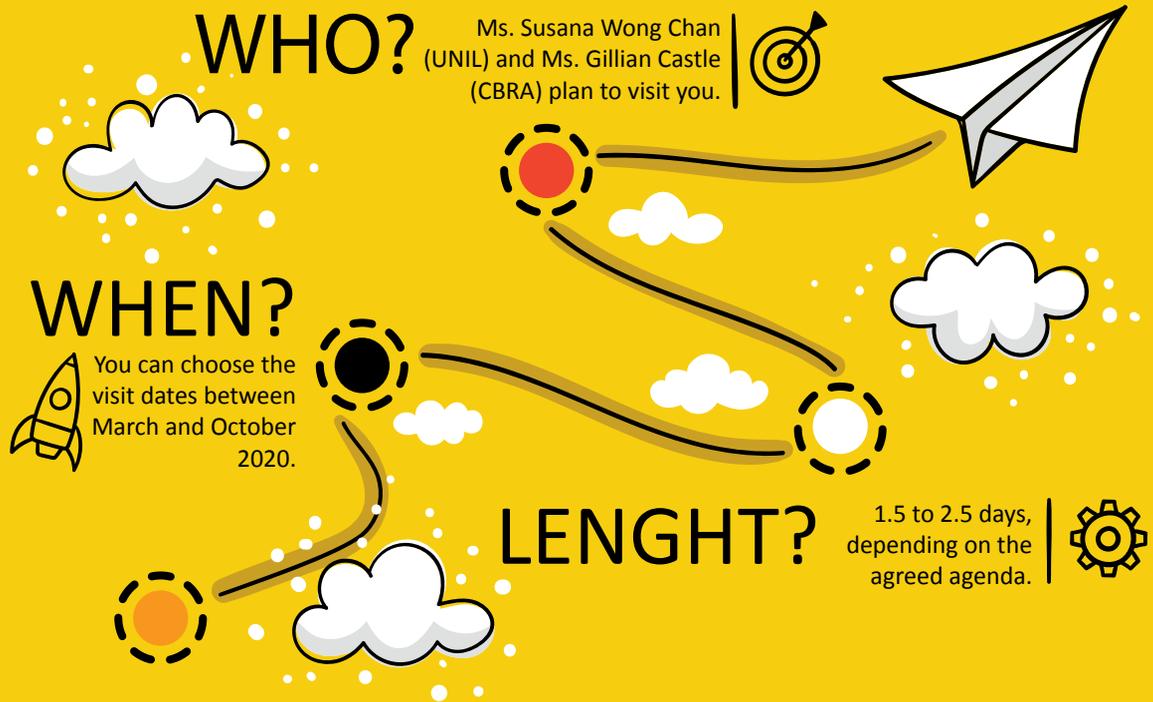
**QUESTION 3:** From the above list, please indicate which topics your administration have training materials available in English and which could be shared with the PEN-CP partners.

**QUESTION 4:** From the above list, please indicate which topics your administration could cooperate with PEN-CP by providing subject matter experts and/or trainers. Select all the applicable

**QUESTION 5:** Indicate if your training materials are available in internet and/or intranet Learning Management System (LMS)

# ▶ PLANNING visits across the 13 PEN-CP Customs Administrations

As discussed during the Year 1 Annual Event in Budapest, PEN-CP partners UNIL and CBRA propose a plan to visit the Customs partners, to collect Customs challenges, to provide training on the POP-platform, and more. Please contact Ms. Susana Wong Chan to agree on the visit schedule and details: [susana.wongchan@unil.ch](mailto:susana.wongchan@unil.ch)



## THE ACTIVITIES

Please find on this page suggestions for “Recommended activities” and “Additional activities” during the visits.

You are welcome to choose a combination of visit activities which best suite the priorities of your administration!



**Recommended activities**

**COLLECTION OF CUSTOMS CHALLENGES, NEEDS AND IDEAS** from customs officers, working in one or more of the PEN-CP technical topics (Data and risk, Detection technologies, Laboratory equipment).  
**Estimated time: 3-4 hours (per technical topic)**

**COLLECTION OF USER EXPERIENCES** on products and services that your administration is currently using.  
**Estimated time: 2-3 hours**

**PEN-CP ONLINE PLATFORM TRAINING** for customs officers working in one or more of the PEN-CP technical topics.  
**Estimated time: 1-2 hours**

**MEETING WITH THE DEPARTMENT IN CHARGE OF THE “SUGGESTION BOX”** (if available).  
**Estimated time: 1 hour**



**Additional activities**

**PRESENTATION OF THE PROJECT TO YOUR ADMINISTRATION.** We can briefly present the project to those customs officers that are not yet familiar with the project but might have interest to join some activities in the near future.  
**Estimated time: 30 minutes (20min presentation and 10min questions)**

**INNOVATOR BREAKFAST.** We can meet with promising start-ups and scale-ups that are located in your country and share information with them about upcoming PEN-CP Open innovation and Prototype grant calls.  
**Estimated time: 2-3 hours**

**BRAINSTORMING** on relevant topics for Annual study chapters, Standardization roadmap, Open innovation, etc  
**Estimated time: 1-2 hours**

# ► PEN-CP Points-of-Contacts (PEN-POCs)

Continuous interactions with other relevant networks, projects, expert groups, commercial parties etc. is crucial for the full success of PEN-CP. The goal is that each PEN-CP partner, particularly the 13 Customs partners, would have minimum one role in representing PEN-CP in discussions and events with other parties, during the remaining 3.5 years of the project.

During the past 6 months, the second version of PEN-CP Points of Contacts (PEN-POCs) table has evolved in an organic style, and by now we have seven (EST, NOR, BEL, HUN, IRL, GBR, NLD) of the 13 Customs with minimum one such role agreed. It would be great if by June 2020 we had each of the remaining Customs partners included in this table – considering of course that additional external entities, attractive for cooperation with PEN-CP, will be jointly identified soon.

The practical role of the PEN-POCs is straight forward, not requiring many working hours per year. For example, with the H2020 procurement network iProcureNet, we have preliminary plans for two phone meetings per year, as well as joining each other's physical meetings at least twice during the coming four years. At the other end of the spectrum, we are in preliminary discussions with 1-2 expert groups on cooperating in the context of technology grants and open innovation instruments, which all would require more work from the PEN-POC.

External entity (project, network, expert group etc.)	PEN-POC1	PEN-POC2
H2020 Police network iLEAD, <a href="http://i-lead.eu/">http://i-lead.eu/</a>	Janno Rätsep (EST)	Trevor Francis (GBR)
H2020 Police network iLEAnet, <a href="https://www.ileanet.eu/">https://www.ileanet.eu/</a>	Trevor Francis (GBR)	Janno Rätsep (EST)
H2020 Procurement network iProcureNet, <a href="https://twitter.com/iProcureNet_EU">https://twitter.com/iProcureNet_EU</a>	Hans Wilhelmssen (NOR)	Kevin Humphreys (IRL)
H2020 Security Research NCP Network, SEREN4, <a href="http://www.seren-project.eu/index.php/home/seren-4">http://www.seren-project.eu/index.php/home/seren-4</a>	Jonathan Migeotte (BEL)	Toni Männistö (CBRA)
H2020 SC7 Networks of Practitioners and Community of Users, <a href="https://www.securityresearch-cou.eu/">https://www.securityresearch-cou.eu/</a>	Trevor Francis (GBR)	Juha Hintsa (CBRA)
H2020 Security Research Events, <a href="https://www.sre2019.eu/about-conference">https://www.sre2019.eu/about-conference</a>	Freja De Middeleer (BEL)	Boriana Rukanova (TUD)
C2020 Customs Eastern and South-Eastern Land Border Expert Team, CELBET, <a href="https://www.celbet.eu/about/">https://www.celbet.eu/about/</a>	Zsolt Dezsi (HUN)	TBD
C2020 Customs Detection Technology Expert Group, CDTPG	Kevin Humphreys (IRL)	Trevor Francis (GBR)
C2020 Customs Laboratories European Network, CLEN	Micha Slegt (NLD)	Johan Ponten (CBRA)
WCO SAFE Working Group	Gillian Castle (CBRA)	TBD
WCO Permanent Technical Committee	Toni Männistö (CBRA)	TBD
WCO Capacity Building Committee and PICARD program	Susana Wong Chan (UNIL)	Gillian Castle (CBRA)
WCO Performance Measurement Working Group	Boriana Rukanova (TUD)	TBD
Pan-European Start-up/Scale-up organizations (for monitoring, promotion etc.)	Yannick van Ranst (BEL)	AP Hameri (UNIL)
Solution providers to match Customs user needs and challenges	Susana Wong Chan (UNIL)	Vladlen Tsikolenko (CBRA)

Plus, the Project Coordinator is the PEN-POC towards C2020 TAXUD Office as well as towards WCO Management.

# ➤ H2020-IPROCUENET: Putting Procurement Experts at the Heart of Security Innovation



NUMEROUS INNOVATIVE SECURITY SOLUTIONS NEVER MAKE IT TO MARKET. IPROCUENET SETS OUT TO CHANGE THIS BY MOBILISING A SOMETIMES-OVERLOOKED EXPERT GROUP



@Ministère de l'Intérieur-J. Rocha

Europe is still struggling to ensure the market uptake of many innovative security solutions – despite the production of high-quality novel technologies and knowledge all over the continent. This gap is further widened by the specific character of the security market: fast-changing, driven almost entirely through national, and sometimes regional and local, legislation and standards, and often subject to constrained budgets.

This is where procurers come in: They are at the steering wheel – shaping the security market and enabling it to respond to ever new challenges.

## Joining forces among European security procurers

iProcureNet, launched in May 2019, is a Horizon 2020 funded practitioners' network based on this principle. Fifteen partners from eleven European countries, among them ten public procurement institutions, have joined forces in the project.

During the next four and half years, iProcureNet will establish a network of European security procurement experts. Based on their joint expertise, iProcureNet will compare national investment strategies, analyse security markets, identify innovation needs, and map the European procurement

environment. In the end, the project will have significantly contributed to the market uptake of innovative solutions and to the joint procurement of security solutions across national borders.

## What is in it for PEN-CP?

Procurement is crucial for any stakeholder involved in important security questions. PEN-CP customs experts are therefore invited to contact iProcureNet (contact@iprocuenet.eu) in order to join our Online Community. There, you may for example get involved in the "Border Control and External Security" discussion group to assess and discuss the procurement of equipment and services in this field.

For anyone already familiar with the basics of public security procurement, the first iProcureNet Advanced Security Procurement Conference, might be of interest. We are very happy to welcome Hans Wilhelmssen (Norwegian Customs) from PEN-CP there to discuss the role of procurement in a panel, together with other security practitioner networks.

**iProcureNet Advanced Security Procurement Conference**

*Portuguese Criminal Police Headquarters, Lisbon*

31st March – 1st April 2020

[www.iprocuenet.eu/events](http://www.iprocuenet.eu/events)

For further information on the project, please contact us:

Souade Nacer, Coordinator, French Ministry of Interior

Christiane Abele, Communications manager, ARTTIC

[www.iprocuenet.eu](http://www.iprocuenet.eu) @iprocuenet\_EU /iProcureNet

[contact@iprocuenet.eu](mailto:contact@iprocuenet.eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 832875.

# ► H2020-ARESIBO: ENHANCING BORDER SECURITY WITH AUGMENTED REALITY AND ENRICHED SITUATION AWARENESS



**ARESIBO**

A NEW H2020-PROJECT ARESIBO DEVELOPS ENHANCED DATA ANALYSIS AND AUGMENTED REALITY TECHNOLOGIES TO

SUPPORT A BETTER BORDER SECURITY. AS A PROJECT PARTNER, CROSS-BORDER RESEARCH ASSOCIATION MANAGES CUSTOMS LIAISON IN ARESIBO, CONTRIBUTES TO THE COLLECTION OF END-USER REQUIREMENTS, AND PARTICIPATES IN OPERATIONAL PILOTS.

## What will ARESIBO achieve?

ARESIBO seeks to improve situational awareness at the EU's external land and maritime borders. ARESIBO solutions build on data analysis and Augmented Reality (AR) technologies, which have a great potential to support tactical decision-making of border guard services. The project will also explore how border security could also be enhanced by unmanned surveillance platforms (air, ground, underwater).

The key end-users of ARESIBO innovations are border guards that can use new technologies to keep border patrols and command & control operators updated on changes in the border security environment. ARESIBO solutions can be used for many purposes: border surveillance, land and coastal patrolling, threat analysis, search and rescue operations, and coordination of multi-agency operations. The solutions will help to mitigate the illegal activities around the borders.

## Why is this project needed?

Border security has become a, increasingly important political priority in EU over the past years. Border security operations have also become more demanding with the changing threat landscape and ambitious operational goals of border guards. Fortunately, border guards can access more situational information today than some years ago. The challenge today, however, is that border guards do not always know how this information could be optimally used for situational awareness and risk assessment purposes. Also, the number of Border

Guards is stable while the illegal activities are increasing, so ARESIBO has to act as a force multiplier. Enhanced data analysis and Augmented Reality technologies can help overcome this challenge.

## What is the link between PEN-CP and ARESIBO?

Cross-border Research Association is responsible for customs engagement in ARESIBO. The customs community is a rich source of border security expertise that can help ARESIBO partners to develop new border control solutions. PEN-CP, and the PICARD program of the World Customs Organization (WCO) are natural partners for customs liaison.

## How can PEN-CP partners contribute to ARESIBO and ultimately benefit from the project's outcomes?

ARESIBO kindly asks PEN-CP partners' support in validating end-user requirements. In particular, ARESIBO is interested in learning how could unmanned vehicles support customs operations and if customs datasets can help border guard operations, or vice versa. Customs' inputs are also asked for the elaboration of the concept of operation (CONOPS) and the demonstration scenarios. Support would also be welcomed in the identification of best practices for the design of the Risk Analysis framework for border surveillance. Finally, we would like to explore how customs and border guards could strengthen their cooperation at the external EU borders.

As the next step, Vittoria Luda di Cortemiglia (vittoria@cross-border.org), the CBRA expert working in ARESIBO project, will prepare and send out a short questionnaire to all PEN-CP Customs partners, by mid-March 2020.

(Editorial note: article was updated on 26.2.2020)



[WWW.ARESIBO.EU](http://WWW.ARESIBO.EU)



[WWW.FACEBOOK.COM/ARESIBOEU](http://WWW.FACEBOOK.COM/ARESIBOEU)



[WWW.LINKEDIN.COM/COMPANY/ARESIBOEU/ABOUT/](http://WWW.LINKEDIN.COM/COMPANY/ARESIBOEU/ABOUT/)



# H2020 SECURE SOCIETIES NATIONAL CONTACT POINT (NCP) SYSTEM - FOR THE BENEFIT OF PEN-CP CONSORTIUM PARTNERS



As already published in PEN-CP Magazine 5 (September 2019), it could be useful to get in touch with your National Contact Points, NCPs, for the H2020 Secure Societies program, in case you have any questions or doubts on how to finalize the reporting for PEN-CP Period 1 (which finishes 29.2.2020). Below you can find a list of NCP contacts in the 13 PEN-CP Customs countries. Please note that some countries have more than one contact - the full list of NCPs can be searched at: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

Country	Contact person	Institution	Email
Albania	Enri Hide	European University of Tirana	enri.hide@uet.edu.al
Austria	Jeannette Klonk	Austrian Research Promotion	jeannette.klonk@ffg.at
Belgium	Pascale Van Dinter	Belgian Science Policy Office	pascale.vandinter@belspo.be
Estonia	Aavo Kaine	Estonian Research Council	aavo.kaine@etag.ee
Hungary	Gergely Meszaros	National Research, Development and Innovation Office	gergely.meszaros@nkfih.gov.hu
Ireland	Michael Murphy	Enterprise Ireland	michael.murphy@enterprise-ireland.com
Latvia	Kaspars Kalniņš	State Education Development Agency	kaspars.kalnins@viaa.gov.lv
Lithuania	Eglė Elena Šataitė	Agency for Science, Innovation and Technology	egle.elena.sataite@mita.lt
Macedonia	Nikola Dujovski	University St. Kliment Ohridski	ndujovski@fb.uklo.edu.mk
Netherlands	Paul Kruis	Netherlands Enterprise Agency	paul.kruis@rvo.nl
Norway	Berit Berg Tjørhom	Research Council of Norway	bbt@rcn.no
Slovakia	Peter Beno	CVTI SR	peter.beno@cvtisr.sk
UK	Tanja Aijo	Innovate UK	NCP-Security@innovateuk.gov.uk

# ► PEN-CP Online Platform – “POP-Corner”

## Updated POP statistics

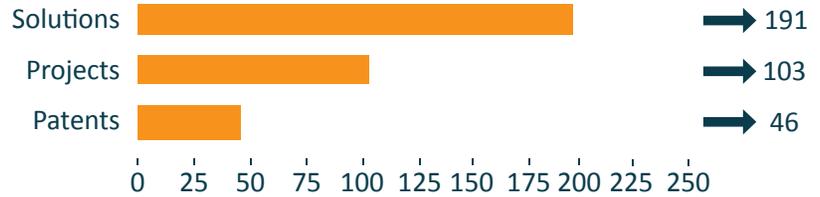


**52** Registered users on the POP-platform

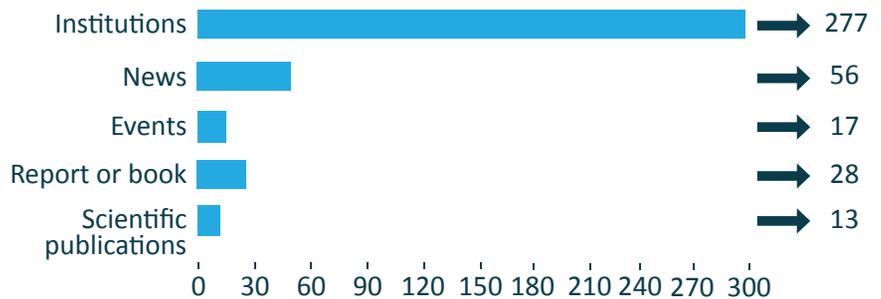


**32** User Needs/ Customs Challenges (PUNIs)

Number of Security Innovation Monitoring (PSIM) items: 341



Number of Information Observatory (PIO) items: 409



**POP USER GUIDE** - Check out the **VIDEOS**

« **PASSWORD** »

Email [pen-cp@cross-border.org](mailto:pen-cp@cross-border.org) for the password



How to create a PEN-CP Online Platform account  
<https://vimeo.com/349890798>



What is PEN-CP User Need Ideas (PUNI) and how to add one  
<https://vimeo.com/349891263>



How to add a potential solution  
<https://vimeo.com/349890596>



About PEN-CP Security Innovation Monitoring (PSIM)  
<https://vimeo.com/350704256>



About PEN-CP Information Observatory (PIO)  
<https://vimeo.com/349889753>



How to use the filters  
<https://vimeo.com/349891128>



How to manage notifications in the PEN-CP Online Platform (POP)  
<https://vimeo.com/349890949>

# PEN-CP KEY TERMS AND ABBREVIATIONS



## POP

### PEN-CP Online Platform



You can access POP using this website

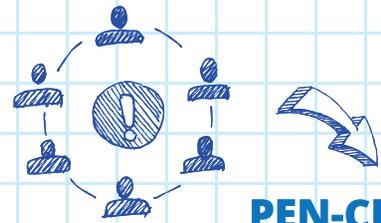


<https://cmt.eurtd.com/groups/profile/85016/pen-cp>



01

02



## PEN-CP User Need Ideas

Which includes:

- Challenges
- User needs

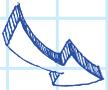
## PUNI

03

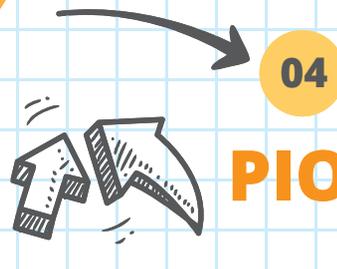
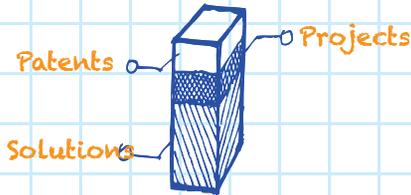


## PSIM

### PEN-CP Security Innovation Monitoring



Monitoring items include:



04

## PIO

### PEN-CP Information Observatory



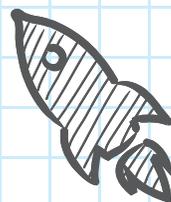
## PEN-POC 05

### PEN-CP Point of Contact

Examples:

- ✓ H2020 Police network iLEAD
- ✓ H2020 Procurement network iProcureNet
- ✓ H2020 Security Research NCP Network, SEREN4
- ✓ H2020 Security Research Events
- ✓ C2020 Customs Detection Technology Expert Group, CDTPG
- ✓ C2020 Customs Laboratories European Network, CLEN

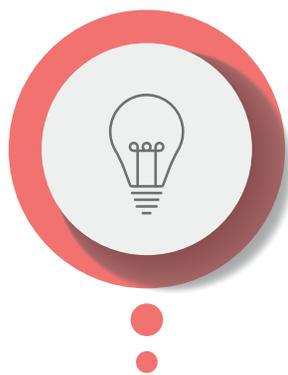
06



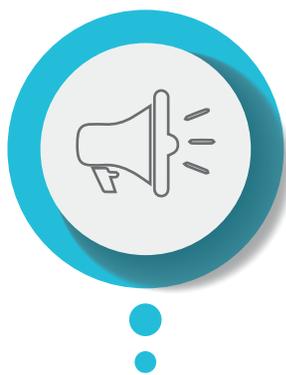
## PCIA

### Customs Innovation Award

## ➤ MAGAZINE 8 TOPICS, FROM YEAR 1 ANNUAL EVENT



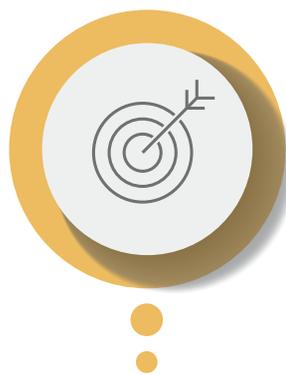
PEN-CP  
Innovation Award  
– Final results



Customs officer  
communication  
toolbox –  
Breakout session  
report



Topics for  
prototype grants  
& Open  
innovation calls –  
Breakout session  
report



Topics for future  
Annual study  
chapters & Expert  
reports



PEN-CARDS-  
interesting inputs

### FOR MORE INFORMATION:



[www.pen-cp.net](http://www.pen-cp.net)



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[www.researchgate.net/project/PEN-CP-EU-H2020](http://www.researchgate.net/project/PEN-CP-EU-H2020)



[www.linkedin.com/groups/8183667/](http://www.linkedin.com/groups/8183667/)



<https://youtu.be/OXwQPHHS5Ls>