

HORIZON EUROPE AND CLUSTER 3 NOVELTIES



eNewsletter
NOVEMBER 2024



FUNDING
INFORMATION



NEWS AND
EVENTS



RELEVANT
INITIATIVES



SUCCESS STORIES
AND MORE



Funded by
the European Union

CONTENT:

- WHAT IS VERY USEFUL FROM FUNDING INFORMATION?
- WHICH NEWS AND EVENTS ARE ONGOING OR RELEVANT?
- SUCCESS STORIES OF SUCCESSFUL PROJECTS
- DO I KNOW HOW TO PARTICIPATE?

What APRE can advise this November 2024:

Cluster 3 applicants are just one step forward to the deadline of the Cluster 3 2024 calls!

Therefore, our recommendation is to try to be more attentive, check carefully the eligibility criteria, communicate with the other potential applicants, keep helping to create consortia and check if possible the completeness and correctness of the applications submitted.

APRE, as SEREN5 coordinator, together with the other beneficiaries, intend to improve and professionalise the skills of the Cluster 3 applicants and we are open in providing to NCPs community knowledge, skills and competences and try to simplifying applicants' access to Horizon Europe (HE) calls in Work Programme Civil Security for Society.

All the best in the approaching end of 2024.

SEREN5 coordinator, APRE
Flavia La Colla, lacolla@apre.it

Good luck with the submission process of Cluster 3 2024 calls.

WHAT IS VERY USEFUL TO KNOW FROM FUNDING INFORMATION?



CALLS IN CL3 2024 WILL CLOSE SOON – KEEP IN MIND

Be ready: CL3 2024 budget: **190 mil EUR**

1. Fighting Crime and Terrorism (FCT) – [HORIZON-CL3-2024-FCT-01](#)
2. Border Management (BM) – [HORIZON-CL3-2024-BM-01](#)
3. Resilient Infrastructure (INFRA) – [HORIZON-CL3-2024-INFRA-01](#)
4. Increased Cybersecurity (CS) – [HORIZON-CL3-2024-CS-01](#)
5. Disaster-Resilient Society (DRS) – [HORIZON-CL3-2024-DRS-01](#)
6. Support to Security Research and Innovation (SSRI) – [HORIZON-CL3-2024-SSRI-01](#)

Remember: All applicants can **apply by 20 November 2024!**

Encourage your database Security stakeholders, Research organization, Universities, Security end-users, Industry and NGO interested in Cluster 3 calls to participate.

GEP – GENDER EQUALITY PLAN

Gender Equality Plan is one of the Eligibility Criterion and GEP is a set of actions that aim to promote gender equality through institutional and cultural change.

Do not forget to provide some information about [GEP to your applicants](#), as in HE, organizations (beneficiaries or their affiliated entities) that are of type: Public Body, Research Institutions (public and private), Higher and Secondary Education (public and private) from MS or Associated Countries need to have a Gender Equality Plan (eligibility criterion). The requirement applies also for Affiliated Entities. Integration of the Gender Dimension in R&I content: mandatory by default, unless specified otherwise in topic description. Award Criterion under Excellence (methodology) and a self-declaration will be requested at proposal stage (for all categories of participants).

Essential factors for gender equality in R&I and recommended GEP content areas:

- Work-life balance and organisational culture
- Gender balance in leadership and decision- making

- Gender equality in recruitment and career progression
- Integrating the gender dimension into research and teaching content
- Measures against gender- based violence, including sexual harassment

3rd SEREN5 TRAINING FOR STAKEHOLDERS “SECURITY APPRAISAL PROCESSES” – FOLLOW UP

THE LATEST NEWS ON STAKEHOLDER TRAINING

The SEREN5 project is committed to provide training to Horizon Europe stakeholders to raise the quality of Horizon Europe projects. Since the inception of SEREN5 there have been several stakeholder training events, and this has now been extended to include training on the “**Security Appraisal Process**”.

The training took place online on the 22nd October 2024.
A total of 100 people participated in the training.

The Security Appraisal Process in Horizon Europe is that which has been designed to uphold compliance to the security rules laid down in ‘*Article 20 of the REGULATION (EU) 2021/695 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 28 April 2021*’. The main aim of the legislation is to protect EU Classified Information (EUCI) and/or Sensitive Information (SEN), that is used and/or produced within EU Commission R&I projects, against unauthorised disclosure and/or misuse. The Security Appraisal Process is coordinated by the EU Commission’s DG HOME and is carried out by the Commission in partnership with national security experts.

The SEREN5 Security Appraisal Process training had two main objectives:

- Provide support to the EU Commission in its mission to uphold the legislation
- Provide support to stakeholders to better understand the requirements of the legislation

The Security Appraisal Process Training

The Security Appraisal Process training takes on a novel approach to educating stakeholders, as it pivots around the ‘informational need’ of the learner. This need was deter-

mined by the European Research Executive Agency (REA), the department that manages EU research grants,

<ul style="list-style-type: none"> ➤ SECURITY APPRAISAL PROCESS <ol style="list-style-type: none"> 1. Aim (3) 2. Objectives (4) 3. Legislation (5) 4. Security Appraisal Process and HE Projects (6&7) ➤ EUCI – CLASSIFICATION LEVELS <ol style="list-style-type: none"> 1. The four Levels of EUCI (8) 2. Specific Rules to protect EUCI (9) ➤ SENSITIVE INFORMATION IN HE (10) ➤ EUCI and SEN – THE DIFFERENCES (11) ➤ SECURITY ISSUES TABLE – SELF ASSESSMENT <ol style="list-style-type: none"> 1. Security Issues Table – Explained (12) 2. Section 1 - EU Classified Information (EUCI) (13) 3. Section 1 - EUCI and non-EU Countries (14) 4. Section 2 – Misuse (15) 5. Section 3 – Other Security Issues (16) ➤ SECURITY SENSITIVE FLAGGED TOPICS <ol style="list-style-type: none"> 1. Accessing the Security Section (17) 2. Contents of the Security Section (18) 3. Sensitive Information with Security Recommendations Table (19) 	<ul style="list-style-type: none"> ➤ SECURITY SENSITIVE FLAGGED TOPICS (cont.) <ol style="list-style-type: none"> 4. Security Classification Guide Tables (20) 5. Security Aspects Letter (SAL) (21) 6. Security Staff Tables (22) ➤ SECURITY REVIEW <ol style="list-style-type: none"> 1. Pre-screening process for NON-FLAGGED security sensitive topics (23) 2. Screening process for NON-FLAGGED security sensitive topics (24) 3. Process for FLAGGED Security Sensitive Projects (25) 4. The Pathway to Security Scrutiny – Recap (26) 5. Outcomes of the Security Scrutiny (27) ➤ EUCI & SEN IN HE PROJECTS <ol style="list-style-type: none"> 1. Practical Guidance (28) ➤ EXAMPLES - DIFFERENCES BETWEEN EUCI AND SEN (29) <ol style="list-style-type: none"> 1. Working Example 1 - EUCI & SEN in HE Projects (30) 2. Tables to complete for Example 1 (31) 3. Working Example 2 - EUCI & SEN in HE Projects (32) 4. Working Example 3 – EUCI & SEN in HE Projects (33) ➤ FINALLY <ol style="list-style-type: none"> 1. Errors of previous project proposals (34) 2. Avoiding errors (35) 3. Guidance and legal documents and assistance (36)
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Fig.1

that identified the common errors made by previous applicants, when embarking upon the security appraisal process. In response to these findings, the training is viewed through the lens of the applicant/stakeholder and offers a more practical and meaningful guidance across all stages of the process. The training delivers depth of detail in a simple and logical manner that has a practical benefit to the learner and specifically those working their way through the security appraisal process. See Fig. 1 for the contents of the training. The training includes information on the differences between EUCI and SEN, as shown in Fig. 2.

SENSITIVE INFORMATION (SEN) (NON CLASSIFIED INFORMATION)	EU CLASSIFIED INFORMATION (EUCI)
WHAT IS SEN - information that is <u>used</u> and/or <u>generated</u> by a project that does not require a classification to be assigned to it	WHAT IS EUCI - information that is <u>used</u> within a project that has a pre-existing classification assigned to it (Background Information) And/or Information that is can be <u>generated</u> by a project that requires to be assigned a classification (Foreground Information)
SEN REQUIRES - a limitation on its dissemination against <u>unwanted</u> disclosure	EUCI REQUIRES - protection against <u>unauthorised</u> disclosure
SEN EXAMPLE - project research activities that identifies gaps in security such as limitations and flaws in a technology or methodology	EUCI EXAMPLE – government documents that provide details, plans, technologies and intelligence for the security and defence of a country and its people
FAILURE TO PROTECT SEN - potential for criminals to use the information to enhance their criminal activities	FAILURE TO PROTECT EUCI - cause varying degrees of prejudice to the interests of the European Union and/or one or more of the Member States
HOW TO PROTECT SEN - Those <u>external to the project consortium and the granting authority</u> , should <u>not</u> have access to sensitive deliverables e.g. security recommendations. If known in advance a specific pre-identified group of recipients or an individual recipient with an <u>established need-to-know</u> exists, then provision can be made for them to have access to SEN. If there is an established 'need-to-know' an <u>assessment</u> should be carried out and <u>justification</u> provided to the granting authority be requested	HOW TO PROTECT EUCI – Understanding the classification levels and following the 'specific rules' covered in this presentation

Fig.2

The training takes the learner on a journey across all stages of the security appraisal process, and provides a one-page overview of the process as a quick reference guide for learners, as shown in Fig. 3

	WHAT Projects go to security scrutiny?	HOW Do projects get to Security Scrutiny?	WHY Do projects need Security Scrutiny?	WHO Carries out Security Scrutiny?	WHEN Does Security Scrutiny happen?
Security Scrutiny will only be undertaken on proposals that have been offered funding, and fulfil the criteria of either 1 or 2	criteria 1 Proposals submitted under a topic flagged as security sensitive will..... go directly to Security Scrutiny	To address and mitigate potential misuse of a project's information, such as that which could be channelled into crime or terrorism or be harmful to critical interests of the EU or one or more of the Member States	Security Scrutiny is carried out by National Security Experts appointed by the relevant Programme Committee and Chaired by the Commission	Undertaken prior to signature of the Grant Agreement
	criteria 2 Proposals submitted under a topic not flagged as security sensitive, but where..... an issue has been identified through the self-assessment, pre-screening and or screening, and where the projects information (EUCI and/or SEN) needs protecting			

Fig.3

Another aspect of the training is the inclusion of project proposal scenarios, that looks at the potential issues when EU Classified Information (EUCI) and Sensitive (SEN) Information is included within project activities. See Fig. 4

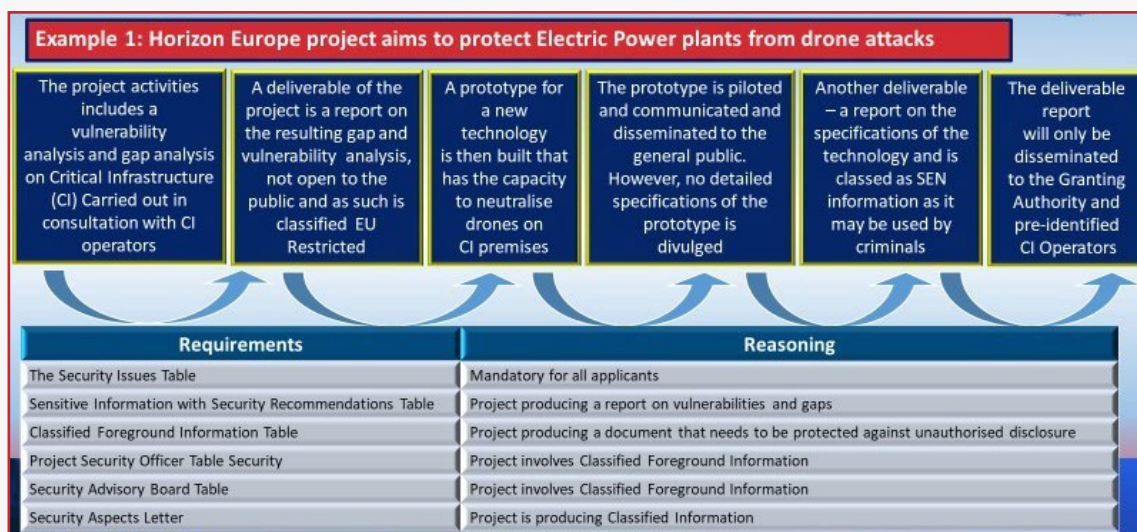


Fig.4

If you would like to know more about this and other training that SEREN5 can offer, please get in touch with SEREN5.

Many thanks [Doris Neumann](#) – [Maria Vittoria Abati](#) – [Zale Johnson](#) for delivering the training!

- Have you missed the training in Security Appraisal Processes? – Watch the video here: <https://lnkd.in/dTunp9Mf>
- Download the presentation through the SEREN5 website: <https://lnkd.in/d5NfZtSt>

TOWARDS FP10

Positions towards FP10

Updated lists of already published “positions” are available on several websites, such as from the [Czech NCPs](#), the [Austrian ERA portal](#) and again several new proposals are highlighted as [Slovakia Preliminary Position](#), Maltese position and The Netherlands Vision Paper, etc...

Among the interesting recent proposals, we could highlight the October position of [European Research Infrastructures](#) or the [Joint Statement of 15 EU Members Supporting the Continuation of Widening Instruments in the Next FP](#).

How is the preparation of FP10 organized at the European level?

One of the significant initial initiatives was the activity of the *European Research Area and Innovation Committee (ERAC)*, which gathered inputs from member states and presented the [Opinion on FP10](#) in June 2024.

Additionally, an expert group led by Manuel Heitor, established by the European Commission, published the report in October 2024 titled ‘Align, Act, Accelerate: Research, Technology and Innovation to Boost European Competitiveness’, featuring twelve recommendations that will be crucial in shaping FP10.

The European Commission is also working on the mid-term evaluation of the Horizon Europe programme, which is expected to be available in the first half of 2025, and this will likely have a significant influence on the future FP10 program.

The European Commission’s legislative proposal for FP10 is expected to be released in July 2025. This will be followed by negotiations between the EU Council and the European Parliament, with the programme expected to launch in January 2028.

<https://www.horizontevropa.cz/en/you-might-interested/framework-programme-2028-2034/information>

<https://euronovia.eu/en/what-s-coming-up-for-the-next-eu-ri-framework-programme/>

COLLABORATION WITH END-USERS AND NATIONAL AUTHORITIES

One of the objectives of the SEREN5 is to increase collaboration between national authorities and practitioners. The SEREN5 team has conducted two workshops specifically aimed to further foster and increase awareness and opportunities of previously mentioned stakeholders.

The first workshop was conducted 20.10.2023 and experts from multiple EU nations discussed the aspects of end- users and national authorities' roles in the civil- security related R&D.

Key outcomes:

- Civil security R&D is interdisciplinary and heavily relies on the capability development-based approach.
- The uptake phase of the project and linkages to the industries are crucial to facilitate successful employment of the project results.
- Involvement of the practitioners in different stages of the project and establishing clear requirements for their involvement

The second workshop was conducted 26.06 as a side- event of the CERIS “project to the policy”.

This workshop hosted several experts from EU and representatives from different successful cluster 3 projects.

The key outcomes:

- 1) Just like workshop no 1, this event also highlighted the importance of involving end- users in all stages of the project which enables to develop proper response to the operational requirements emerging from the needs of the practitioners.
- 2) The workshop also emphasized the requirement to involve end- users in the Horizon Europe projects in the civil- security domain to achieve capability- based approach, which then helps to develop more holistic projects.
- 3) The participants also described the threats and opportunities involving the end users acknowledging the everyday obligations of the agencies that often are acting as first responders.

Which news and events are ongoing or relevant?



DECEMBER CERIS EVENT – “SECURING MAJOR PUBLIC EVENTS”

Next important CERIS event will be held on 12 December in Brussels by **DG HOME**, aims to bring together practitioners, local authorities, policymakers and researchers to discuss trends, risks, further research and lessons learned from the multitude of **major public events** taking place over the course of the year 2024. This event will look at security research needs and new threats, advanced technologies, crisis preparedness, and ethical and legal considerations in this field and present **significant security challenges**.

Additional information about CERIS events as well as the link to the registration page – register under the CERIS mailing list [here](#).

SEREN5 CONSORTIUM MEETING

SEREN5 team participated in the 9th consortium meeting of the SEREN5 project held in Malta on 24 – 26 September 2024 and co-organized with a series of activities:

- o SEREN5 9th CONSORTIUM MEETING
- o Internal Workshop
- o SEREN5 3rd Cluster 3 Network Meeting
- o 2nd SEREN5 Forum for Cluster 3 NCPs

Three days were dedicated to activities aimed at enhancing CL3 services for stakeholders, applicants, and enhance information exchange Cluster 3 NCPs, combined with the 2nd SEREN5 Forum for NCPs: “Participation of practitioners in Cluster 3 (benefits and challenges).

Thanks to the practitioners who shared their experience in European Framework Programmes and to the SEREN5 dedicated speakers:

[Iosif Vourvachis](#) – Hellenic Rescue Team

[Trevor Francis](#) – UK Border Force

It was really exciting discussions with more than 23 presentations that fit well to our daily works or strengthening our communication.



Thank you Mark Meilak and The Malta Council for Science and Technology – Xjenza Malta and APRE, Italy for great opportunity to organise such events.

CONFERENCE BORDERLESS BORDER MANAGEMENT

Conference „Borderless Border Management“. Location Narva, Estonia.

Will be held on 4th to 5th of March 2025, so at this time is still under preparation, but as this topic is important, we would like to draw your attention to such an exceptional opportunity.

The aim is to promote cooperation and opportunities in research and innovation domain for more effective border management. Further details coming in December, in case of interest and questions the point of contact is lauri.teppo@etag.ee



CYBER COMMUNITY IN SLOVAKIA

Cyber Community in Slovak Republic

In the European Union, a common European community for cybersecurity competences is being established, with membership open to entities from all member states. The legal framework that defines the basic attributes of its functioning is Regulation (EU) No 2021/881 of the European Parliament and Council.

National coordination centres play the role of national hubs and “gatekeepers” in this process they assess membership applications in the initial stage and later assist in actively organizing and supporting cooperation among national members of the Community.

[NCC-SK – CYBER SECURITY COMPETENCE AND CERTIFICATION CENTRE](#) currently has more than 120 members in the cyber community. Each member is represented in a working group according to their area of focus. Cyber community working groups enable members to share their knowledge and experiences and collaborate to achieve common goals.

Important part of the services for the community comprises raising awareness on various opportunities for projects funding and collaboration with members from other EU countries. Slovak organisations participate very successfully in cybersecurity-oriented calls of the Digital Europe Programme. Horizon Europe, on the other hand, is less used and provides a lot of new opportunities for mutually beneficial cooperation with Slovak companies and other organisations. To that end, NCC-SK plans to promote this instrument and actively support consortia matchmaking efforts with the members of the community.

As SEREN5 continues its mission to support security research and innovation, the partnership with the ECCC is still in strong issue to build a more secure and resilient Europe.



ECCC 
EUROPEAN CYBERSECURITY
COMPETENCE CENTRE

INTRODUCTION TO CYBERSECURITY

Cybersecurity pilot trainings

Polish Platform for Homeland Security – a non-profit organisation, whose mission is to increase the level of security in Europe plans to organise a [free online training in cybersecurity for entrepreneurs](#)

This goal by strengthening the competencies and facilitating cooperation between all actors relevant to enhancing European civil security e.g. through training activities.

Platform is a part of CYRUS EU funded project (Digital Europe Programme) and the trainings took place on the 29/10/24, focusing on cybersecurity fundamentals.

[DEICy 2024](#) – The other cybersecurity activity in Digital Economy, Internet of Things, Cybersecurity (Virtual edition), organised by EEN etc. on November 24 until November 29 – global challenges & opportunities in digital transformation and the goal of this international brokerage event is to create a strong network of research and development institutions, business and industry partners, European and national institutions, non-government organizations in close relation for better knowledge and understanding of the digital transformation in areas: digital economy & society, artificial intelligence, machine learning, deep learning, data science, cybersecurity etc.

You can participate – enhance your knowledge in international level in cybersecurity area and try to use all opportunities to start.

SINGLE COMPETITIVENESS FUND FOR RESEARCH AND INNOVATION

European Commission considers creating a Single Competitiveness Fund for Research and Innovation

Science | Business reports that the European Commission is discussing a significant change in the financing of research and innovation as part of the upcoming multiannual financial framework (2028–2034), including the preparation of the 10th Framework Programme. There are discussions about merging several current programs, such as Horizon Europe, Digital Europe, the EU4Health Program, the European Defence Fund, and others, into a

single fund called the Competitiveness Fund. This fund aims to simplify funding and increase flexibility in allocating resources for key projects, which should boost productivity and innovation in the EU.

More information on these preliminary discussions can be found on [Science|Business](#), as well as [Euractiv](#) and [POLITICO](#).

INTRODUCTION TO UK AND POLAND PARTNERSHIP IN HE

Innovate UK in partnership with the Polish National Centre for Research and Development (NCBR), British Embassy in Warsaw and the UK Science and Innovation Network in Poland organise two-day partnership workshop on 13 and 14 November 2024 in Warsaw. This invite-only event will host around 20 organisations from both countries, offering a platform to facilitate dialogue and foster collaboration and will focus on “Harnessing collaborative R&I to enhance the safety and security of citizens, communities and the environment.”

Key themes included: **Enhancing Cybersecurity** (Generative AI, Combating cybercrime, Post-quantum technologies), **Fighting Crime and Terrorism** (Prevention, detection, and deterrence, Societal impacts, Modern forensics), **Boosting Disaster Resilience** (Education and preparedness, Operational management, Response to climate, geological, and CBRN events),

Explore development opportunities through Horizon Europe proposals.

PUBLIC CONSULTATION (QUESTIONNAIRE)

European Commission has launched a public consultation to support the evaluation of the three HOME funds – AMIF, ISF Borders and Visa, ISF Police – for the period 2014-2020. The aim of this call for contributions is to gather feedback and insights from a large and diverse audience on the support provided by the funds during this period.

For this purpose, a questionnaire for each fund is now available and tailored to the participants' specific relation and familiarity with the funds, to ensure a meaningful contribution.

Your feedback will help shape the future of funding in the HOME Affairs main policy areas.

Go to the consultation and fill in the questionnaires:

For **AMIF** (deadline 22 November): [Asylum, Migration and Integration Fund \(AMIF\) for 2014-2020 – ex post evaluation \(europa.eu\)](#)

For **ISF Borders and VISA** (deadline 21 November): [Internal Security Fund – Borders and Visa \(ISF BV\) 2014-2020 – ex post evaluation \(europa.eu\)](#). For **ISF Police** (deadline 21 November): [Internal Security Fund \(ISF\) Police 2014-2020 – ex post evaluation \(europa.eu\)](#)

This public consultation will be **open until 21 November 2024**. Input received will be taken into account to strengthen the evidence base of the evaluation and further develop this initiative.

PRE-SCREENING OF PROJECT PROPOSALS IN CL3 CALLS

Pre-screening of project proposals for upcoming Cluster 3 calls 2024.

Are you preparing a project proposal for the upcoming Cluster 3 calls with submission 20/11/2024?

Would you like to receive valuable feedback directly from expert evaluator, including recommendations on improving your project at the last minute? The NCP_WIDERA.NET project offers you a free pre-screening service for project proposals.

This service is available only to applicants from [25 WIDENING COUNTRIES](#) under specific conditions described here <https://www.ncpwideranet.eu/wideraexperts/>.

For detailed information please get in touch with your respective national contact points.

SEREN5 SURVEY ON THE BARRIERS LIMITING THE PARTICIPATION OF NEWCOMERS IN SECURITY RESEARCH PROJECT

Barriers of participations in Cluster 3 projects and how to overcome them.

Why is the interest in participating in Security research projects still low in so many widening countries? What are the barriers? In the latest survey, SEREN5 asked respondents to assess nearly thirty identified barriers. It is evident that the biggest problem is the ability to write a project proposal and possibly pay for consultancy services. Furthermore, the capacity of the organization to work on the project and the integration of newcomers into consortia that have been successfully collaborating for a longer time are significant issues.

Would you like to read more? Visit SEREN5 Reports in [CORDIS](#) or contact us contact@seren-project.eu

Would you like to fill out our survey? It is open until the end of May 2025. Click here: <https://ec.europa.eu/eusurvey/runner/SEREN5-WideningApplicantsBarriersAndNeeds>

For more information you can contact: Svejcarova Lenka TC svejcarova@tc.cz



SUCCESSFUL PROJECTS



o **Project name and abbreviation:** Detecting Document frauD and iDentity on the fly (D4FLY).

Programme: Horizon 2020.

Project duration: 1 September 2019 – 31 August 2022.

Budget: € 6 984 727,50.

D4FLY in a nutshell:

Border authorities seek to improve their capabilities and capacities to respond to emerging threats in document and identity verification and in this case, the advanced technology in document analysis and biometric on-the-move identity verification can enable faster and more secure document issuance, traveling, and border checking processes. The overall D4FLY concept was to identify, reduce, and avoid vulnerabilities in the identity lifecycle of modern border management, thereby strengthening European Smart Borders against serious and organized crime.

The D4FLY project augmented the capabilities and capacities of border authorities in countering emerging threats in document and identity verification (e.g., forged documents, impostor fraud, morphed faces) at manual and highly automated border control points, as well as in the issuance process of genuine documents.

The project set of tools and systems improved the quality of verification and reduced major time sinks in the processes, enabling a real on-the-move border crossing experience for travelers.

The D4FLY solution consists of a border control kiosk equipped with enhanced enrollment, verification, and detection capabilities; smartphone applications for improved performance and verification capabilities; and a non-stop on-the-move system for biometric verification. Four different border control points and one document fraud expertise center formed the project's testing and demonstration grounds.

Novel sensor hardware based on advanced light-field cameras and algorithms developed during the project enhanced verification accuracy and robustness through the combined usage of 2D+thermal face, 3D face, iris, and somatotype biometrics. Additionally, analytical tools to identify known criminals based on somatotype and 3D face data generated

from mugshots and observation data were developed. The innovative approaches have also been successfully demonstrated in a series of prototypes using technologies such as AI-based recognition systems, smartphone applications, and biometric corridors.

D4FLY also created a resilient document verification system capable of verifying a multitude of physical and electronic security features (e.g., Kinograms®, MLIs, CLIs), detecting complex forms of electronic fraud and advanced morphing, and identifying fraud in breeder documents. The potential benefits of blockchain technology in identity verification were also investigated.

All tools and solutions were validated against European societal values, fundamental rights, ethics, privacy, data protection, and applicable legislation.

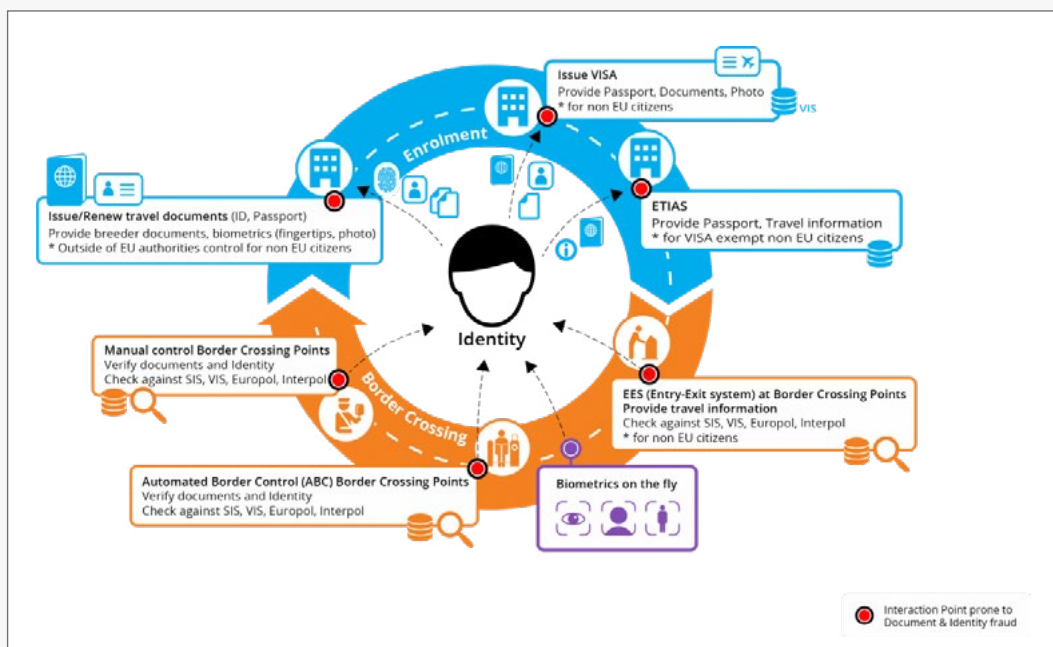
The D4FLY project involved 19 partners consisting of border control authorities, universities, research institutes, and industrial companies from 11 countries.

More information about the project: <https://d4fly.eu/>.

More information on CORDIS: <https://cordis.europa.eu/project/id/833704>.

Project video on YouTube:

<https://www.youtube.com/watch?v=haMgPI0Q0ZA&list=PLJFFWNEv1cG5g7q4hadZ-k9E8-dx3u3sao&index=18>.





o **Project name and abbreviation:** Deep AR Law Enforcement Ecosystem (DARLENE).

Programme: Horizon 2020.

Project duration: 1 September 2020 – 31 December 2023.

Budget: € 6 954 860.

DARLENE in a nutshell:

Augmented reality (AR) holds massive potential for smart policing and for law enforcement agencies (LEAs) that need to continuously undergo digital transformation to stay one step ahead of criminals and terrorists. By overlaying useful information directly on top of the real world, AR technology can greatly improve situational awareness, a vital skill that is often critical to the survival and safety of officers and civilians in crime-fighting situations. Currently available technologies, however, lack the processing capacity to deliver rapid, real-time scene interpretation necessary when responding to criminal and terrorist incidents.

DARLENE was a three-year EU-funded project that investigated how cutting-edge augmented reality (AR) technology could be deployed to help law enforcement agencies (LEAs) and first responders make more informed and rapid decisions, especially in situations where time was critical. The project developed innovative augmented reality (AR) tools aimed at improving situational awareness when responding to criminal and terrorist activities. DARLENE combined innovative AR smart glass technology and powerful computer vision algorithms with 5G network architectures, enabling agile processing of real-time data by LEAs even in high-pressure situations. The project also carried out an integrated ethical, data protection, and social impact assessment of augmented reality tools to ensure compliance with ethics requirements and foster public trust in the lawful use of technology.

The project team developed much of the technology from scratch. A project partner developed the AI glasses and necessary algorithms. Existing methods and technologies were also identified and integrated into the overall prototype concept.

The prototype system was then demonstrated in two test cases, both involving police officers. The first simulation involved the identification of suspicious objects and injured people at an airport. The second simulation involved dealing with armed criminals in crowded spaces, such as hotels or shopping malls. These tests aimed to see if the DARLENE system could facilitate more coordinated responses in active shooting situations. The DARLENE system provided law enforcement officers with extra information about the location of people and objects in these scenarios, using an array of pre-installed sensors. Officers on the ground were then able to better visualise the situation.

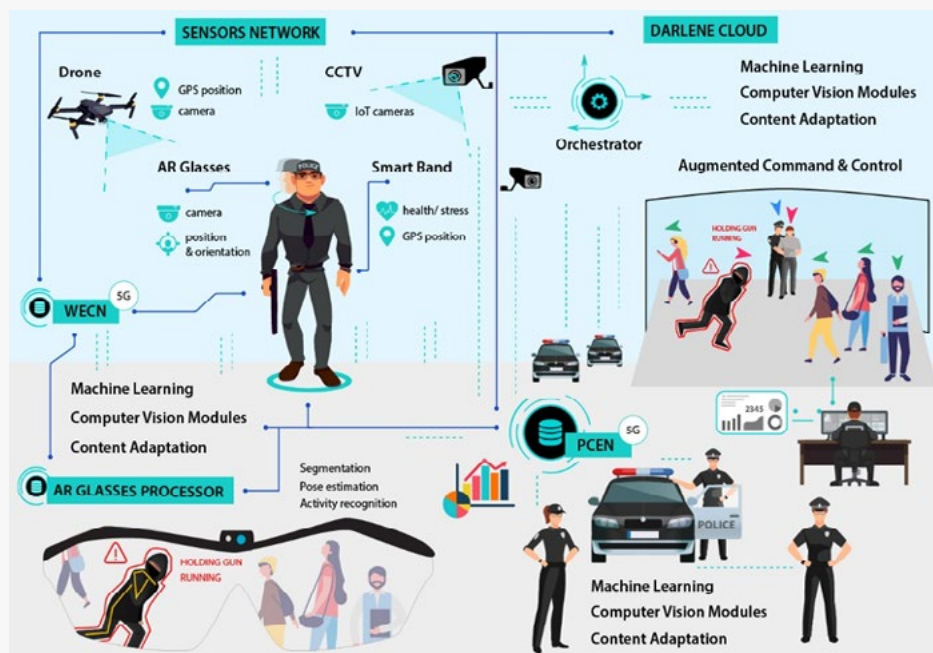
The project, coordinated by Ethniko Kentro Ervnas Kai Technologikis Anaptyxis (Greece), involved 15 partners from 10 countries.

More information about the project: <https://www.darleneproject.eu/>.

More information on CORDIS: <https://cordis.europa.eu/project/id/883297>.

Project videos on YouTube:

<https://www.youtube.com/channel/UCCYIcxHbPLUepNCvlf0VC6g>.



YOU ARE INVITED TO PARTICIPATE

- **Unlock New Opportunities: SEREN5's Matchmaking Service** – for Coordinators Seeking Partners from Widening Countries – please reach out to Dr. Ilknur YILMAZ, Cluster 3 National Contact Point for Türkiye, at ilknur.yilmaz@tubitak.gov.tr
- Newsletter : [Subscribe to Seren5 Newsletter](#)
[Download/view latest Seren5 Neewletters](#) or write and send to us some useful contribution directly (Dr.Marta Kollárová, marta.kollarova@cvtisr.sk)
- The ideas check service is suitable for clients – Fill out the form found on the [SEREN5 website](#) and submit it to Dr. Yotam Beit-Yannai yotam@iserd.org.il and your local NCP. Try our online advice.
- All potential applicants are welcome to participate in this platform – **Security Research Map (SeReMa)**
- For more information: <https://security-research-map.b2match.io/>





Do I know which web page is useful?

Visit [SEREN5 website](#) and [Funding and Tenders Portal](#) to get relevant information.

Get involved in European Research and [Horizon Europe](#).



Follow us and discover our news and Cluster 3 and SEREN5 actions!

We wish you all the best during last 2024 year days and stay in touch with our SEREN5 team.

Stay connected for our future events and opportunities!

Follow us online
Please subscribe to our YouTube channel and join our LinkedIn group



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