CERIS
JOINT DEMONSTRATION EVENT ON
EUROPEAN INNOVATION ON BORDER SURVEILLANCE FROM HORIZON RESEARCH AND INNOVATION PROJECTS
1-3 SEPTEMBER 2025

JOKI VISITOR AND INNOVATION CENTRE
TURKU, FINLAND

This event is co-organised by the **European Commission**, **University of Turku, Turku University of Applied Sciences,** and the **Finnish Border Guard** under the Community for European Research and Innovation for Security (CERIS)**.** It aims at raising awareness and demonstrating to **members of the European Border and Coast Guard (EBCG) from national authorities and from Frontex**, regarding **European innovation on border surveillance** developed also thanks to Horizon Research and Innovation projects funded by the EU.

Solutions will cover capabilities of border surveillance for land and sea borders, that have been developed through EU research and innovation co-funding on security and border management and that are indicatively in Technology Readiness Level from 5 ("Technology validated in relevant environment") to 8 ("System complete and qualified"), but not yet full product or systems ready for use or marketing.

Users will have the opportunity to see innovative and potential European, EU-funded technologies for border surveillance of the future.

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Agenda

1 September 2025

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Location: Turku University of Applied Sciences, ICT-City, Joukahaisenkatu 3

17h30 - 20h00   **Arrival, icebreaking event, networking**

Auditorium of ICT-City

> *Welcome by Turku University of Applied Sciences (TUAS), University of Turku (UTU), Business Turku*

Lobby area of ICT-City

> *Business Turku stands*

18.00; 18.30; 19.00; 19.30   **Demonstration of e/MS Salama autonomous vessel**

TUAS Remote Operations Centre

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2 September 2025

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Location: JOKI Visitor and Innovation Centre, Lemminkäisenkatu 12B

8h30 – 9h00   **Registrations**

9h00 – 10h00   **Openings, welcome**

Seminar Room "Cave", JOKI Visitor and Innovation Centre

> *Prof Isto Mattila, University of Turku*
>
> *Giulio Maria Mancini, European Commission*
>
> *Jarkko Paavola, Turku University of Applied Sciences*
>
> *Lieutenant Colonel Jani Liikola, Finnish Border Guard*

10h00 – 10h30   **Keynotes**

Seminar Room "Cave", JOKI Visitor and Innovation Centre

> *Inspector Jefe, José Manuel Colodrás, Innovation and Development Service, Spanish Policia Nacional*
>
> *Sauli Eloranta, Vice-President, VTT Finland*

10h30 – 12h30	**Demonstration Sessions**
	"Cave", "Showroom", "Koski" rooms, JOKI Visitor and Innovation Centre
12h30 – 14h00	**Lunch Break**
14h00 – 16h00	**Demonstration Sessions**
	"Cave", "Showroom", "Koski" rooms, JOKI Visitor and Innovation Centre
16h00 – 18h00	**Visit to Regional Coast Guard Control Room and Aboa Mare Simulator Centre** (*bus transportation from JOKI Visitor and Innovation Centre to Auriga Business Centre*)
18h00 – 19h00	**Visit to Turku Maritime Museum**
19h00	**Dinner at Turku Maritime Museum**

3 September 2025

Location: JOKI Visitor and Innovation Centre, Lemminkäisenkatu 12B

9h00 – 9h30	**Opening**
	Seminar Room "Cave", JOKI Visitor and Innovation Centre
9h30 – 10h00	**Keynote(s)**
	Seminar Room "Cave", JOKI Visitor and Innovation Centre
	Denis Destrebecq, Innovation Unit, European Border and Coast Guard Agency (Frontex)
10h00 – 12h30	**Demonstration Sessions**
	"Cave", "Showroom" rooms, JOKI Visitor and Innovation Centre
12h30 – 14h00	**Lunch Break**
14h00 – 15h00	**Demonstration Sessions**
	"Cave", "Showroom" rooms, JOKI Visitor and Innovation Centre

Exhibition opens to local researchers and local media

15h00 – 17h00	**Exhibition**
	Lobby area, JOKI Visitor and Innovation Centre

Exhibitors Stands

Exhibitor	Stand	Solution	Related EU-funded R&D&I[1]	Demo session
Cross-border Research Association	19	Data to improve visibility into maritime traffic and trade	PROFILE (Data Analytics, Data Sources, and Architecture for Upgraded European Customs Risk Management)	3 September 14h00, [Showroom]
European Dynamics SA	1	Collaborative C2 Platform	EURMARS (An advanced surveillance platform to improve the EURopean Multi Authority BordeR Security efficiency and cooperation)	2 September 10h30, [Cave]
Fraunhofer	7	UnderSec User Interface	UnderSec (Underwater Security)	2 September 11h30, [Showroom]
Frequentis AG	10	VesselEdge	MobiSpaces (New data spaces for green mobility)	2 September 14h00, [Showroom]
Fundación Vicomtech	4	Scene Understanding for Indirect Intrusion Detection in Border Surveillance and Patrolling	APPRAISE (fAcilitating Public & Private secuRity operAtors to mitigate terrorIsm Scenarios against soft targEts) BorderUAS (Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload) EWISA (Early Warning For Increased Situational Awareness) P-REACT (Petty cRiminality diminution through sEarch and Analysis in multi-source video Capturing and archiving platform)	2 September 10h30, [Showroom]

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[1] EU-funded research, development and/or innovation projects and programmes indicated by exhibitors upon submission of solution demo. The organisers are not responsible for verifying the nature of relation between the R&D&I and the demonstrated solution. Additional R&D&I may have concurred to the development of the demonstrated solution. EU-funded projects/programmes listed in alphabetical order. Links to project/programme's website if available, otherwise to EU project/programme database.

			RESCUER (first RESponder-Centered support toolkit for operating in adverse and infrastrUcture-less EnviRonments) RESPOND-A (Next-generation equipment tools and mission-critical strategies for First Responders) SAVASA (Standards Based Approach to Video Archive Search and Analysis) TESTUDO (Autonomous Swarm of Heterogeneous resources in infrastructure protection via threat prediction and prevention)	
Geosystems Hellas SA	6	THEIA: Enhancing Copernicus Security services	BORDERFORCE (Flexible system extending automated border surveillance by increased situational awareness adaptable to uncertain times with unforeseen events) EURMARS (An advanced surveillance platform to improve the EURopean Multi Authority BordeR Security efficiency and cooperation)	2 September 11h30, [Koski]
GMV Aerospace and Defence	11	SOCRATES C4I Border Maritime Surveillance suite	ANDROMEDA (An EnhaNceD Common InfoRmatiOn Sharing EnvironMent for BordEr CommanD, Control and CoordinAtion Systems) CLOSEYE (Collaborative evaLuation Of border Surveillance technologies in maritime Environment bY pre-operational validation of innovativE solutions) DRIVER (DRiving InnoVation in crisis management for European Resilience) EUCISE2020 (EUropean test bed for the maritime Common Information Sharing Environment in the 2020 perspective) MARISA (Maritime Integrated Surveillance Awareness) PROMENADE (imPROved Maritime awarENess by means of AI and BD mEthods)	2 September 15h00, [Cave]
GMV Aerospace and Defence	18	Copernicus-based Digital Twin model	Frontex Innovation "Copernicus Border Surveillance Service evolution" Prize Contest	3 September 14h00, [Cave]

HI Iberia Ingeniería y Proyectos	14	SEDA: AI-powered satellite data analysis for enhanced border surveillance and crime fighting	AGAMENON (Apoyo a la Gestión de la inmigrAción de MEnores No acompañados mediante sistemas de detecciÓN temprana)	3 September 10h00, [Cave]
			ALFA (Advanced Low Flying Aircrafts Detection and Tracking)	
			ANDROMEDA (An EnhaNceD Common InfoRmatiOn Sharing EnvironMent for BordEr CommanD, Control and CoordinAtion Systems)	
			BorderUAS (Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload)	
			CAMELOT (C2 Advanced Multi-domain Environment and Live Observation Technologies)	
			COMPASS2020 (Coordination Of Maritime assets for Persistent And Systematic Surveillance)	
			EFFECTOR (An End to end Interoperability Framework For MaritimE Situational Awareness at StrategiC and TacTical OpeRations)	
			MARISA (Maritime Integrated Surveillance Awareness)	
			NESTOR (aN Enhanced pre-frontier intelligence picture to Safeguard The EurOpean boRders)	
			Pre-PLUTARCO (Advanced Tech Solutions for Cross-Border Crime Fighting)	
			PROMENADE (imPROved Maritime awarENess by means of AI and BD mEthods)	
			RANGER (RAdars for loNG distance maritime surveillancE and SaR operations)	
			ROBORDER (autonomous swarm of heterogeneous RObots for BORDER surveillance)	

			SAFESHORE (System for detection of Threat Agents in Maritime Border Environment)	
			TRESSPASS (robusT Risk basEd Screening and alert System for PASSengers and luggage)	
Institute of Geodesy and Cartography in Warsaw	9	Integrated Digital Twin of EU Borders	Frontex Innovation "Copernicus Border Surveillance Service evolution" Prize Contest	2 September 14h00, [Koski]
KEMEA and SATWAYS	5	PROMENADE and NESTOR	ANDROMEDA (An EnhaNceD Common InfoRmatiOn Sharing EnvironMent for BordEr CommanD, Control and CoordinAtion Systems) NESTOR (aN Enhanced pre-frontier intelligence picture to Safeguard The EurOpean boRders) PROMENADE (imPROved Maritime awarENess by means of AI and BD mEthods)	2 September 11h30, [Cave]
KIOS Research and Innovation Center of Excellence	16	AIDERS: web-based platform for real-time situational awareness	AIDERS (Real-time Artificial Intelligence for DEcision support via RPAS data analyticS) SESAME (Secure and Safe Multi-Robot Systems)	3 September 11h00, [Cave]
Kondorcad Landsurv	13	Geospatial Digital Twin for land border	Frontex Innovation "Copernicus Border Surveillance Service evolution" Prize Contest	2 September 15h00, [Showroom]
Laurea University of Applied Sciences	17	Virtual Control Room (VCR) AI-based platform	AI-ARC (Artificial Intelligence based Virtual Control Room for the Arctic) EUCISE2020 (EUropean test bed for the maritime Common Information Sharing Environment in the 2020 perspective) VIGIMARE (Vigilant Maritime Surveillance of Critical Submarine Infrastructure)	3 September 11h00, [Showroom]
Magellium	8	ARGO 360: A wide-area surveillance smart airborne optical sensor for the automatic	SEAGUARD (Sea Environmental Awareness and Guard enhanced with Unmanned AI Robotic Detection)	2 September 14h00, [Cave]

		detection and geolocation of events of interest over both land and sea		
Polska Agencja Kosmiczna	12	GEXTRECS	GEXTRECS (GOVSATCOM Extreme Events Crisis Management Service)	2 September 15h00, [Koski]
Tekever	3	ARX	COMPASS2020 (Coordination Of Maritime assets for Persistent And Systematic Surveillance) Portugal's recovery and resilience plan (Next Generation EU)	3 September 12h00, [Cave]
University of Reading	15	UAV platform for real-time target detection, tracking and geolocation approximation for maritime and coastal border surveillance	EURMARS (An advanced surveillance platform to improve the EURopean Multi Authority BordeR Security efficiency and cooperation)	3 September 10h00, [Showroom]
VTT Technical Research Centre of Finland	2	SwarmPatrol	FireMan	2 September 10h30, [Koski]

Demonstrations Sessions

	Cave	Showroom	Koski
2 September 10h30 – 11h00	European Dynamics	Fundación Vicomtech	VTT Technical Research Centre of Finland
2 September 11h30 – 12h00	KEMEA and SATWAYS	Fraunhofer	Geosystems Hellas SA
2 September 14h00 – 14h30	Magellium	Frequentis AG	Institute of Geodesy and Cartography in Warsaw
2 September 15h00 – 15h30	GMV (Socrates)	Kondorcad Landsurv	Polska Agencja Kosmiczna
3 September 10h00 – 10h30	HI Iberia Ingeniería y Proyectos	University of Reading	
3 September 11h00 – 11h30	KIOS Research and Innovation Center of Excellence	Laurea University of Applied Sciences	
3 September 12h00 – 12h30	Tekever		
3 September 14h00 – 14h30	GMV (Digital Twin)	Cross-border Research Association	