



Apvārsnis Eiropa 3. klastera «Civilā drošība sabiedrībai» informācijas diena

Pasākuma programma:

- 10:00-10:45** prezentācija par Apvārsnis Eiropa 2024. gada 3. klastera "Civilā drošība sabiedrībai" darba programmas konkursiem.
- 10:45-11:10** prezentācija par Apvārsnis Eiropa 2024. gada 4. klastera "Digitālā joma, rūpniecība un kosmos" darba programmas atvērtajiem uzsaukumiem.
- 11:10-11:30** jautājumi un atbildes



Latvijas Zinātnes
padome

Apvārsnis Eiropa 3.klāstera «Civilā drošība sabiedrībai» aktualitātes

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NACIONĀLAIS
ATTĪSTĪBAS
PLĀNS 2020



EIROPAS SAVIENĪBA
Eiropas Reģionālās
attīstības fonds

I E G U L D Ī J U M S T A V Ā N Ā K O T N Ē



Latvijas Zinātnes
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APVĀRSNIS EIROPA

WORK PROGRAMMES 2023-2024

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



**Pillar I
EXCELLENT SCIENCE**

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



**Pillar II
GLOBAL CHALLENGES &
EUROPEAN INDUSTRIAL
COMPETITIVENESS**

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



**Pillar III
INNOVATIVE EUROPE**

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint Research Center



Pilāru pamatstruktūrojumi

Pillar I (Excellent Science)	Pillar II (Global Challenges and European Industrial Competitiveness)	Pillar III (Innovative Europe)
<ul style="list-style-type: none">▪ Bottom up▪ Any area▪ Often lower TRL	<ul style="list-style-type: none">▪ Thematic calls (predefined), top-down▪ Consortia▪ Mid-high TRL	<ul style="list-style-type: none">▪ Bottom up▪ Any area▪ From low to high TRL▪ Both consortia and individual companies



Apvārsnis Eiropa 3. klastera darba programma



EN

Horizon Europe

Work Programme 2023-2025

6. *Civil Security for Society*

darba programma:

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-6-civil-security-for-society_horizon-2023-2024_en.pdf

programmas ceļvedis:

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/programme-guide_horizon_en.pdf

[Informācija par 3.klāsteri](#)





Projektu tipi

Type	Activities	Financing rate
RIA (Research and Innovation Actions)	Activities to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution.	Up to 100%
IA (Innovation Actions)	Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services.	*Up to 70%
CSA (Coordination and Support Actions)	Activities that contribute to the objectives of Horizon Europe. This excludes R&I activities, except for 'Widening participation and spreading excellence'.	Up to 100%



* the rate is 70 percent for profit-making legal entities and 100 percent for non-profit legal entities



Tehnoloģiju gatavības līmenis

Technology Readiness Levels (TRLs) are indicators of the maturity level of particular technologies.

TRL 1 – basic principles observed

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

TRL 4 – technology validated in lab

TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 7 – system prototype demonstration in operational environment

TRL 8 – system complete and qualified

TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)



Konsorcijs

- Any entity can be part of a consortium, **but a consortium needs to include 3 independent legal entities each established in a different Member State or associated country and with at least one of them established in a Member State.**
- Applicants need to:
 - think about the roles each partner can play in the project and how they complement each other;
 - are there any knowledge gaps?
 - are leading entities in the field missing from the proposal?
 - do the involved entities cover the whole value chain?



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CLUSTER 3



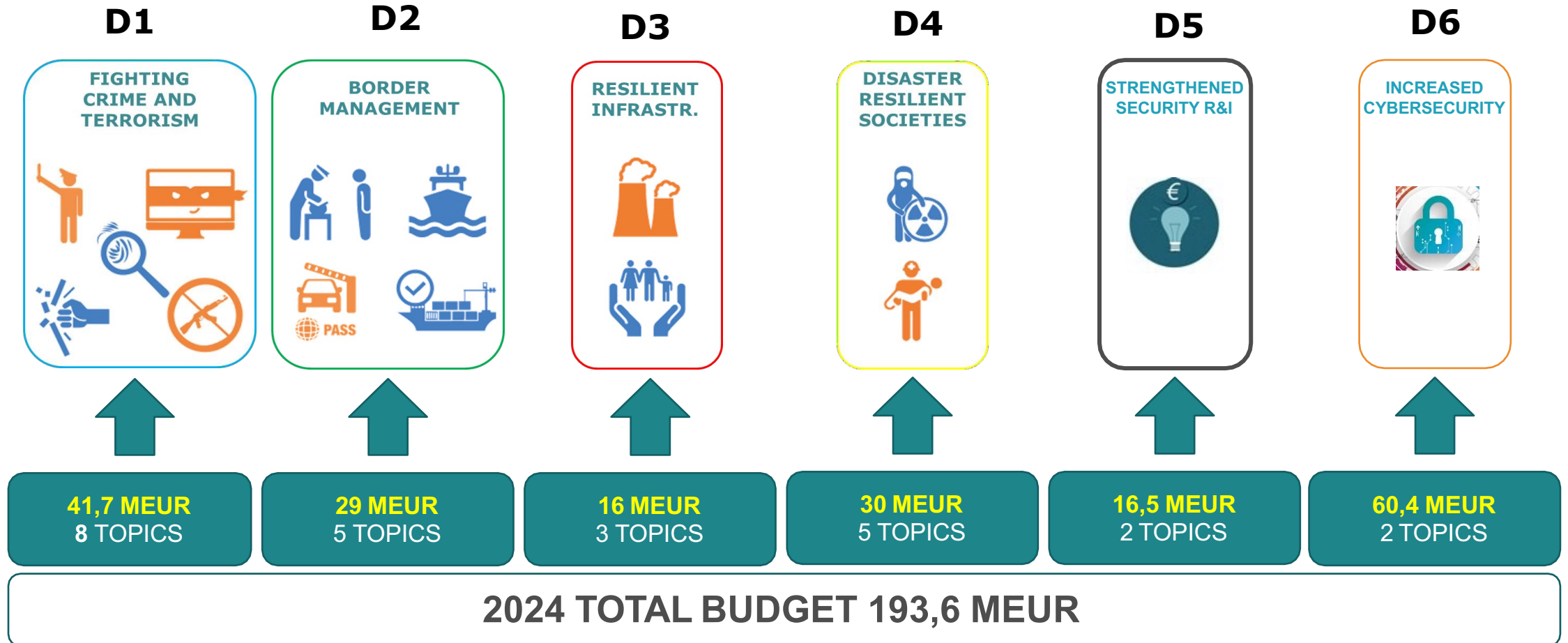
Uzsaukumu virzieni

- **D1:** Better protect the EU and its citizens against Crime and Terrorism
- **D2:** Effective management of EU external border
- **D3:** Resilient Infrastructure
- **D4:** Increased Cybersecurity
- **D5:** Disaster-Resilient Society for Europe
- **D6:** Strengthened Security Research and Innovation



Uzsaukumi

<https://www.youtube.com/watch?v=CgxnM1fuYx8>





Latvijas Zinātnes padome

EU Funding and Tenders portals

EU F&T Portal

European Commission | EU Funding & Tenders Portal

Sign in EN

Home Funding Procurement Projects & results News & events Work as an expert Guidance & documents

Search... Q

companies) to engage in activities that serve EU policies.

More details

Filters 8 item(s) found

Quick search

Select... Q

Programme Horizon Europe (HORIZON)

2021 - 2027

Horizon Europe (H...)

HORIZON-CL3-202...

Open for submission

All filters

Opening date / Publicatio... ↓

Radicalisation and gender
 HORIZON-CL3-2024-FCT-01-04 | Call for proposal
 Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage
 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Research and Innovation Actions**

CBRN-E detection capacities in small architecture
 HORIZON-CL3-2024-FCT-01-07 | Call for proposal
 Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage
 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Innovation Actions**

Tracing of cryptocurrencies transactions related to criminal purposes
 HORIZON-CL3-2024-FCT-01-08 | Call for proposal
 Opening date: 27 June 2024 | Next deadline: 20 November 2024 | Single-stage
 Open For Submission



D1: Better protect the EU and its citizens against Crime and Terrorism

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<u>HORIZON-CL3-2024-FCT-01-01:</u> Mitigating new threats and adapting investigation strategies in the era of IoT	RIA TRL 5-6	5	1
<u>HORIZON-CL3-2024-FCT-01-02:</u> Open Topic	RIA TRL 5-7	4,5	2
<u>HORIZON-CL3-2024-FCT-01-03:</u> Lawful evidence collection in online child sexual abuse investigations, including undercover	RIA TRL 5-7	3,7	1
<u>HORIZON-CL3-2024-FCT-01-04:</u> Radicalisation and gender	RIA TRL 5-6	3	1
<u>HORIZON-CL3-2024-FCT-01-05:</u> Combating hate speech online and offline	RIA TRL 6-7	3	1
<u>HORIZON-CL3-2024-FCT-01-06:</u> Open Topic	RIA TRL 5-6	3	2
<u>HORIZON-CL3-2024-FCT-01-07:</u> CBRN-E detection capacities in small architecture	IA TRL 6-8	6	1
<u>HORIZON-CL3-2024-FCT-01-08:</u> Tracing of cryptocurrencies transactions related to criminal purposes	IA TRL 6-7	6	1



Tematikas galvenās iezīmes

Goals

- **Strengthen the ability of Police Authorities to combat crime and terrorism** using modern technologies.
- Enhance the **overall security of citizens against various forms of crime and terrorism.**

Main impacts

- **Improved forensics and lawful evidence collection**
- **Prevention, detection and deterrence** of societal issues related to various forms of crime.
- **Security of citizens against terrorism** (including in public spaces) preserving quality and openness.
- **Advanced intelligence picture** - enhanced prevention, detection and deterrence of various forms of organized crime.
- **Secure cyberspace** (prevention, detection, and protection from cybercriminal activities).

Budget 41.7 M EUR

- Each topic requires the **active involvement** (*as beneficiaries*) of **practitioners (Police Authorities)**
- Understand the functions of Police Authority
- Applicants must fill in the table **“Information about security practitioners”**
- Focus on modular, customizable, and easy to integrate solutions
- Robust methodology to evaluate the level of TRL (how it will be measured)



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Nozares profesionāļu piesaiste

Topic	Police Authority involvement
<u>HORIZON-CL3-2024-FCT-01-01:</u> Mitigating new threats and adapting investigation strategies in the era of IoT	At least 3 Police Authorities from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-02:</u> Open Topic	At least 2 Police Authorities and 2 forensic institutes from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-03:</u> Lawful evidence collection in online child sexual abuse investigations, including undercover	At least 2 Police Authorities and 2 forensic institutes from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-04:</u> Radicalisation and gender	At least 3 Police Authorities from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-05:</u> Combating hate speech online and offline	At least 2 Police Authorities and 2 Civil Society Organizations from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-06:</u> Open Topic	At least 3 Police Authorities from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-07:</u> CBRN-E detection capacities in small architecture	At least 2 Police Authorities and 2 urban municipalities from at least 3 different EU Member States or Associated Countries.
<u>HORIZON-CL3-2024-FCT-01-08:</u> Tracing of cryptocurrencies transactions related to criminal purposes	At least 3 Police Authorities from at least 3 different EU Member States or Associated Countries.



D2: Effective management of EU external border

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL3-2024-BM-01-01 : Open Topic	RIA TRL 4-6	3	2
HORIZON-CL3-2024-BM-01-02 : Interoperability for border and maritime surveillance and situational awareness	IA	6	1
HORIZON-CL3-2024-BM-01-03 : Advanced user-friendly, compatible, secure identity and travel document management	IA	6	1
HORIZON-CL3-2024-BM-01-04 : Integrated risk-based border control that mitigates public security risk, reduces false positives and strengthens privacy	IA	6	1
HORIZON-CL3-2024-BM-01-05 : Detection and tracking of illegal and trafficked goods	RIA	3	2

2 Border or Coast Guard Authorities and/or Customs Authorities from 2 different Member States/Associative Countries



HORIZON-CL3-2024-BM-01-01

(Open Topic)

Goals

- Address new, upcoming, or unforeseen challenges.
- Develop creative or disruptive solutions for border management.

Objective

- Outline plans for future follow-up research, development, and upscaling at national and EU levels.

Focus

- Propose innovative solutions within the scope of border management not covered by previous calls.
- Indicate potential for future demonstration, testing, and validation at higher TRLs (Technology Readiness Levels).

Budget 6 M EUR

Key-words

- Novelty
- Innovations
- Border management

✓ **2 Border or Coast Guard Authorities and/or Customs Authorities from 2 different EU MS or AC.**



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HORIZON-CL3-2024-BM-01-02

Interoperability for border and maritime surveillance and situational awareness

Goals

- Enhance border and maritime surveillance capabilities.
- Improve situational awareness and security of maritime infrastructures.

Objectives

- Increase surveillance capability with cost-efficiency and data protection by design.
- Improve surveillance and situational awareness of sea borders and maritime infrastructures, including key areas like the Arctic.

Focus

- Fostering multi-level, multi-authority, and cross-border collaboration with interoperable sensing, analysis, and C2 (Command and Control) systems.

Budget 6 M EUR

Key-words

- Surveillance
- Interoperability
- Situational Awareness

**2 Border or Coast Guard Authorities
from 2 different EU MS or AC.**



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HORIZON-CL3-2024-BM-01-03

Advanced user-friendly, compatible, secure identity and travel document management

Goals

- Enhance the validation and compatibility of identity and travel documents.
- Strengthen the security of the Schengen area while maintaining free movement.

Objectives

- Improve capabilities to validate breeder and ICAO Type 1 and Type 2 digital travel documents.
- Ensure compatibility among verification tools without compromising personal data.
- Integrate seamlessly with existing or planned EU digital identity architectures.

Focus

- Develop advanced, user-friendly tools for document validation.

Budget 6 M EUR

Key-words

- Validation
- Security
- Compatibility

**2 Border or Coast Guard Authorities
from 2 different EU MS or AC.**



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HORIZON-CL3-2024-BM-01-04

Integrated risk-based border control that mitigates public security risk, reduces false positives and strengthens privacy

Goal

- Improve coordinated border, customs, and security control systems.

Objectives

- Develop advanced systems for assisted border crossing control.
- Minimize time and hassle for travelers while maintaining high security standards.
- Adapt resource allocation to dynamic requirements and emerging threats.

Focus

- Enhancing border control systems to improve coordination and efficiency.

Budget 5 M EUR

Key-words

- Border control
- Security
- Coordination

2 Border or Coast Guard Authorities from 2 different EU MS or AC.



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[Integrated Border Management Fund](#)





HORIZON-CL3-2024-BM-01-05

Detection and tracking of illegal and trafficked goods

Goal

- Advanced technologies and methods to detect, track, and intercept illegal and trafficked goods, strengthening border security and disrupting criminal activities.

Objectives

- Development of fully automated customs control checkpoints.
- Risk-based approach for customs using technological solutions (scanners, detectors, sniffing, imaging etc.).

Focus

- Enhancing detection capabilities for customs security, while facilitating trade.

Budget 6 M EUR

Key-words

- Detection
- Interception
- Tracking

✓ **2 Customs Authorities from 2 different EU MS or AC.**



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Tieslietu un iekšlietu aģentūru tīkls



EU-LISA

- **Managing large-scale IT systems for security, border management, and migration**
- Coordinating EU member states and other stakeholders
- Participate in **implementing new R&D systems**
- Provide **trainings for national authorities** on technical use of IT systems

 <https://www.eulisa.europa.eu/>

EUROPOL

- **Expert knowledge in security-related research and innovation**
- **Partner with research consortia to enhance project impact.**
- Contribute **valuable data and intelligence for research purposes**
- **Validation and testing** new security technologies and methodologies
- **Ensure projects alignment with EU security policies and priorities.**

 <https://www.europol.europa.eu>

FRONTEX

EUROPEAN BORDER AND COAST GUARD AGENCY

- **Identify and elaborate key research themes and research priorities**
- Support the **evaluation of project proposals**
- **Monitoring of Border Security** research projects
- Create a **consortium fit for the purpose – key role of EBCG authorities**

 <https://www.frontex.europa.eu/>



D3: Resilient Infrastructure

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL3-2024-INFRA-01-01 : Open Topic	IA TRL 6-8	5	1
HORIZON-CL3-2024-INFRA-01-02 : Resilient and secure urban planning and new tools for EU territorial entities	IA TRL 6-8	6	1
HORIZON-CL3-2024-INFRA-01-03 : Advanced real-time data analysis used for infrastructure resilience	RIA TRL 5-6	5	1



HORIZON-CL3-2024-INFRA-01-01

Improved preparedness and response for large-scale disruptions of European infrastructures (Open Topic).

Goals

- Advanced monitoring, risk assessment, and forecasting methods.
- Effective mitigation and modeling techniques.

Objectives

- Testing and validation of multi-hazard scenarios.
- Creation of interactive hazard maps using Earth Observation and other data sources.

Focus

- **Resilience of the critical infrastructure operators to threats** as well as natural and human-made hazards.
- Avoid duplicating previous research (including from other Framework programme's projects).

Budget 5 M EUR

Key-words

- Critical infrastructure
- Innovations
- Disaster resilience

✓ **At least 2 critical infrastructure operators** (as beneficiaries) and **2 civil protection authorities** from at least **3 different EU MS or AC**.



HORIZON-CL3-2024-INFRA-01-02

Resilient and secure urban planning and new tools for EU territorial entities

Goals

- Innovative, easy-to-use solutions for local authorities.
- Secure, trusted services, effective emergency response, and resilience against complex threats.

Objectives

- Developing cost- efficient security tools.
- Improving the efficiency of emergency services and promoting best practices.
- Integrating advanced technologies, secure data management and robust urban planning tools.
- Evaluating resilience, identifying weaknesses, and recommending organizational changes

Focus

- Enhancing the **resilience and security of urban and peri-urban environments.**

Budget 6 M EUR

Key-words

- Safety-by design,
- Security-by-design
- First responders
- Trusted Application Programming Interfaces (API)
- Trusted data processing

- **2 local or governmental authorities (as beneficiaries) from 2 different EU MS or AC.**



HORIZON-CL3-2024-INFRA-01-03

Advanced real-time data analysis used for infrastructure resilience

Goal

- Innovative, user-friendly solutions for local authorities, integrating advanced technologies, secure data management, and robust urban planning tools.

Objectives

- Promoting best practices, creating trusted decision support tools, and spreading capabilities across the EU.
- Ensuring trusted, secure services, effective emergency response, and resilience against complex threats.

Focus

- Enhancing **urban resilience by evaluating and addressing weaknesses, developing cost-effective security tools, and improving emergency services efficiency.**

Budget 5 M EUR

Key-words

- Cyber resilience
- Earth Observation
- Real-time analysis
- Secure Data Management

- ✓ At least **3 infrastructure operators** (as beneficiaries) – can include civil protection authorities at national level from at least **3 different EU MS or AC.**



D4: Increased Cybersecurity

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<u>HORIZON-CL3-2024-CS-01-01</u> : Approaches and tools for security in software and hardware development and assessment	IA	4-6	6
<u>HORIZON-CL3-2024-CS-01-02</u> : Post-quantum cryptography transition	RIA	4-6	4



HORIZON-CL3-2024-CS-01-01

Approaches and tools for security in software and hardware development and assessment

Goal

- Ensuring resilient systems design and fostering automated vulnerability assessments.

Objectives

- Developing AI-based security services.
- Trustworthy certifiable hardware and software design.
- Software analysis, vulnerability discovery, and dynamic security assessment.

Focus

- Enhancing EU cybersecurity by **improving hardware and software security**.

Budget 37 M EUR

Key-words

- Vulnerabilities
- Software Analysis
- Predictive security



HORIZON-CL3-2024-CS-01-02

Post-quantum cryptography transition

Goals

- Advancement of post-quantum cryptographic algorithms.
- Support standardization and large-scale implementation.

Objectives

- Developing hybrid encryption tools.
- Demonstrating post-quantum cryptography on various platforms.
- Providing EU-wide implementation guidelines.

Focus

- Preparing for the **transition to quantum resistant cryptography**.
- **Protection against future quantum-powered attacks.**

Budget 18.9 M EUR

Key-words

- Post-quantum
- Cryptography

Regulation (EU) 2021/695

 [Article 22\(5\)](#)



D4: Disaster-Resilient Society for Europe

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<u>HORIZON-CL3-2024-DRS-01-01</u> : Prevention, detection, response and mitigation of chemical, biological and radiological threats to agricultural production, feed and food processing, distribution and consumption	RIA	4	2
<u>HORIZON-CL3-2024-DRS-01-02</u> : Open Topic	RIA	3	2
<u>HORIZON-CL3-2024-DRS-01-03</u> : Harmonised / Standard protocols for the implementation of alert and impact forecasting systems as well as transnational emergency management in the areas of high-impact weather / climatic and geological disasters	IA	3	2
<u>HORIZON-CL3-2024-DRS-01-04</u> : Hi-tech capacities for crisis response and recovery after a natural-technological (NaTech) disaster	RIA TRL 5-7	6	1
<u>HORIZON-CL3-2024-DRS-01-05</u> : Cost-effective sustainable technologies and crisis management strategies for RN large-scale protection of population and infrastructures after a nuclear blast or nuclear facility incident	RIA	4	1



HORIZON-CL3-2024-DRS-01-01

Prevention, detection, response and mitigation of chemical, biological and radiological threats to agricultural production, feed and food processing, distribution and consumption

Goal

- Enhance EU capabilities to manage CBR (chemical, biological and radiological) threats to the entire food chain.

Objectives

- Improve risk assessment, detection, alerting, mitigation, and response to CBR contamination in food chains.
- Increase understanding of food terrorism threats and vulnerabilities in the food chain.
- Develop capabilities to assess and respond to CBR contamination from soil to consumption.

Focus

- Strengthen knowledge of intentional and accidental CBR threats to the food chain.

Budget 8 M EUR

Key-words

- Food Chain Security
- Critical Infrastructure
- Food Terrorism

Avoid overlaps with relevant actions funded by other EU instruments:

- ✓ [European Defence Fund](#)
- ✓ [European Defence Industrial Development Programme](#)
- ✓ [Preparatory Action on Defence Research](#)



HORIZON-CL3-2024-DRS-01-02

Open Topic

Goal

- Address **new or unforeseen challenges with innovative solutions** to enhance collaboration among scientists, practitioners, risk managers, and local communities during disasters.

Objectives

- Foster **efficient knowledge transfer** and awareness of innovative solutions.
- Enhance **coordination among scientists, practitioners, risk managers**, and communities in disaster risk management.

Focus

- Disaster risk management cycle and governance from international to local levels.

Budget 6 M EUR

Key-words

- Disaster Management
- Awareness
- Knowledge Dissemination



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HORIZON-CL3-2024-DRS-01-03

Harmonised / Standard protocols for the implementation of alert and impact forecasting systems as well as transnational emergency management in the areas of high-impact weather / climatic and geological disasters

Goal

- Improve disaster response and management through harmonized protocols and advanced technologies.

Objectives

- Develop common standards for alert and impact forecasting systems.
- Identify opportunities for transferring scientific results into disaster logistics and response enhancements.
- Strengthen collaboration between the scientific community and responders.

Focus

- Strengthen links between scientists and responders for user-targeted research and best practices, integrate advanced Earth Observation technologies into disaster management tools.

Budget 6 M EUR

Key-words

- Standards
- Technology
- Collaboration

✓ **Standardization organizations, from at least 3 different EU Member States or Associated Countries.**



[European Space Agency](https://www.esa.europa.eu)



HORIZON-CL3-2024-DRS-01-04

Hi-tech capacities for crisis response and recovery after a natural-technological (NaTech) disaster

Goal

- Enhance crisis management and recovery capabilities for natural-technological (NaTech) disasters.

Objectives

- Develop a holistic crisis management framework for NaTech events.
- Improve understanding and mitigation of risks from infrastructure interdependencies and human systems.
- Develop a common platform for public and private operators to facilitate cross-border decision-making.

Focus

- Create a comprehensive management framework for crises involving natural and technological disasters.

Budget 4 M EUR

Key-words

- NaTech disaster
- Crisis Management

- ✓ **at least 2 first responders' organizations** (or agencies)
- ✓ **1 representative** of local or regional authorities in charge of managing NaTech (natural-technological) events, from at least 3 different EU MS or AC.

 [SevesoIII Directive](#)

 [CER Directive](#)

 [EC-ESA Earth System Science Initiative](#)



HORIZON-CL3-2024-DRS-01-05

Cost-effective sustainable technologies and crisis management strategies for RN large-scale protection of population and infrastructures after a nuclear blast or nuclear facility incident

Goal

- Strengthen protection strategies and technologies for populations and infrastructures after a nuclear or radiological incident.

Objectives

- Improve understanding and monitoring of radioactive fallout for safe evacuation.
- Integrate improved technologies and methodologies into RN crisis management systems.
- Identify and enhance protective measures, including medical countermeasures.

Focus

- Enhancing national practices for monitoring dose rates and nuclides to facilitate safe evacuations.

Budget 6 M EUR

Key-words

- Risk Assessment
- Crisis Management
- Nuclear

- ✓ **at least 2 first responders' organizations** (or agencies)
- ✓ **1 representative** of local or regional authorities in charge of disaster response, **from at least 3 different EU MS or AC.**



[SevesoIII Directive](#)



[CER Directive](#)



D5: Strengthened Security Research and Innovation

Opening date: 27 June 2024

Deadline: 20 November 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL3-2024-SSRI-01-01 : Demand-led innovation through public procurement	Pre-commercial Procurement TRL 6-8	5,25	2
HORIZON-CL3-2024-SSRI-01-02 : Accelerating uptake through open proposals for advanced SME innovation	IA TRL 6-7	1,5	4



HORIZON-CL3-2024-SSRI-01-01

Demand-led innovation through public procurement

Goals

- Enhance border security
- Combat crime and terrorism
- Protect infrastructure and public spaces
- Increase societal resilience to natural and human-made disasters

Objectives

- Acquire R&D services for developing innovative technologies and systems
- Create advanced tools and techniques for security and resilience

Focus

- Public procurement of R&D services
- Addressing security and resilience challenges

Budget 10.5 M EUR

Key-words

- End-users
- Innovative solutions

CSA → PCP action

- At least **3 end-user organizations** and **3 public procurers from 3 different EU MS or AC.**



HORIZON-CL3-2024-SSRI-01-02

Accelerating uptake through open proposals for advanced SME innovation

Goals and objectives

- Develop **mature technological solutions** for **EU security priorities**, improving **civil security market access** for SMEs.
- Strengthening partnerships between **small and medium EU security industry actors** is crucial for sustaining **EU innovation capacity** and **reducing dependencies** on non-EU suppliers in critical security areas.
- Projects must involve **security end-users** as validators and adopters and should foster collaboration between SMEs, research organizations, and industrial players, focusing on innovation management and market access.

Budget 6 M EUR

Key-words

- Reduce tech dependency
 - Uptake of innovations
 - Entrepreneurship
- A **minimum of 3 to a maximum of 7 partners**.
 - At least **2 SMEs from 2 different MS**
 - At least **1 end-user organization** in the areas addressed by the proposal, namely one of the following options:
 1. Option A "*Fighting Organized Crime and Terrorism*"
 2. Option B "*Disaster-Resilient Society*"
 3. Option C "*Resilient Infrastructure*"
 4. Option D "*Border Management*", provided that the applications attain all thresholds.
 - At least **2 Member States must be represented in the consortium**. Participation of non-SME industries and Research and Technology Organizations (RTOs) is not excluded, but it **must be limited to 15% of the budget**.
 - At least **50% of the budget must be allocated to SMEs**.



Uzziņu materiāli

Security Research Communities

- [Security Research NCP Network](#)
- [Community for European Research and Innovation for Security](#)

EU Security Documents and Policies

- [EU Security Union Strategy](#)
- [A Counter-Terrorism Agenda for the EU: Anticipate, Prevent, Protect, Respond](#)
- [New Pact on Migration and Asylum](#)
- [EU Strategy to tackle Organised Crime 2021-2025](#)
- [The European Code of Conduct for Research Integrity](#)
- [How to handle security sensitive projects](#)

Horizon Europe programme

- [Completing ethics self-assessment](#)
- [Horizon Europe Work programme 2023-2025 \(13. General Annexes\)](#)
- [Horizon Europe Model Grant Agreement](#)
- [EU Regulation 2021/695](#)



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CLUSTER 4



D4: Digital and Emerging Technologies for Competitiveness and Fit for the Green Deal

Opening date: 23 April 2024

Deadline: 18 September 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<p><u>HORIZON-CL4-2024-DIGITAL-EMERGING-02-01:</u> Developing and deploying a network of quantum gravimeters in Europe</p>	<p>IA TRL 6/TRL 8</p>	<p>25</p>	<p>1</p>
<p><u>HORIZON-CL4-2024-DIGITAL-EMERGING-02-02:</u> Stimulating transnational research and development of next generation quantum technologies, including basic theories and components</p>	<p>RIA TRL 1-4/TRL 6</p>	<p>15</p>	<p>1</p>



Digitālo jauninājumu uzsaukumi

HORIZON-CL4-2024-DIGITAL-EMERGING-02-01 *Developing and deploying a network of quantum gravimeters in Europe*

- Demonstrate the advantages of quantum gravimeters in operational settings.
- Deliver results that go beyond the *state-of-the-art* for real-world applications.
- Identify new use cases and provision of innovative quantum gravimeter services for these use cases.
- Establish terrestrial networks of gravimeters, with at least eight units.



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HORIZON-CL4-2024-DIGITAL-EMERGING-02-02: *Stimulating transnational research and development of next generation quantum technologies, including basic theories and components*

- Support networking and coordination for the *Quantum Flagship* by implementing calls for proposals, primarily resulting in grants to third parties.
- Foster synergy between European, national and regional initiatives.
- Promote broader partnerships between the European stakeholders in quantum technologies.



D6: A human-centred and ethical development and industrial technologies

Opening date: 23 April 2024

Deadline: 18 September 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<u>HORIZON-CL4-2024-HUMAN-03-01</u> : Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities (AI, Data and Robotics Partnership)	RIA TRL 2-3/TRL 4-5	25	2
<u>HORIZON-CL4-2024-HUMAN-03-02</u> : Explainable and Robust AI (AI Data and Robotics Partnership)	RIA TRL 2-3/TRL 4-5	7,5	2
<u>HORIZON-CL4-2024-HUMAN-03-03</u> : Digital Humanism - Putting people at the centre of the digital transformation	CSA	1,5	1
<u>HORIZON-CL4-2024-HUMAN-03-04</u> : Facilitate the engagement in global ICT standardisation development	CSA	6	1



Uz cilvēku vērsta un ētiska attīstība, rūpnieciskās tehnoloģijas

HORIZON-CL4-2024-HUMAN-03-01:

Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities (AI, Data and Robotics Partnership)

- Enhance the applicability and performance of large AI systems.
- Integrate innovative data modalities (e.g., sensor measurements, remote sensing) into AI systems.
- Improve multimodal AI capabilities and handle more data types in one system.

HORIZON-CL4-2024-HUMAN-03-02:

Explainable and Robust AI (AI Data and Robotics Partnership)

- Strengthen AI systems' reliability and operational robustness
- Ensure AI systems are transparent, accountable, and their operations are clearly understandable.



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Uz cilvēku vērsta un ētiska attīstība, rūpnieciskās tehnoloģijas (2)

HORIZON-CL4-2024-HUMAN-03-03: *Digital Humanism - Putting people at the centre of the digital transformation*

- Create an active network and cross disciplinary communities on digital humanism.
- Bring together ICT experts, ethnologists, sociologists and experts in fundamental rights.
- Define and strengthen the EU's human-centered digital transformation through cross-disciplinary, world-class foundational and application-oriented research.

HORIZON-CL4-2024-HUMAN-03-04: *Facilitate the engagement in global ICT standardisation development*

- Share information about global sectorial ICT standardisation ecosystems and engagement of European stakeholders in global standardisation settings.
- Increase awareness on ICT standardisation development.
- Financially support standardisation meetings in Europe.



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D6: A human-centred and ethical development and industrial technologies

Opening date: 23 April 2024

Deadline: 10 September 2024

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
<u>HORIZON-CL4-2024-HUMAN-02-35</u> : Intellectual asset management support for public research organisations, academic institutions and their spin-offs	CSA	2	1
<u>HORIZON-CL4-2024-HUMAN-02-36</u> : Synergy with national and regional initiatives in Europe on Innovative Materials	CSA	4	1



Uz cilvēku vērsta un ētiska attīstība, rūpnieciskās tehnoloģijas (3)

HORIZON-CL4-2024-HUMAN-02-35:

Intellectual asset management support for public research organisations, academic institutions and their spin-offs

- Provide support to public research organisations and their spin-offs in fostering a stronger culture of entrepreneurship.
- Build capacity in public research organisations and academic institutions.
- Building stronger capabilities for intellectual asset management in academic institutions and public research organisations.

HORIZON-CL4-2024-HUMAN-02-36:

Synergy with national and regional initiatives in Europe on Innovative Materials

- Well-coordinated European, national and regional initiatives in the field of twodimensional materials (2DMs) and other advanced materials.
- Well-coordinated national and regional funding programmes allowing for joint calls between interested countries.
- Contribution to the further development of a strong European innovation ecosystem for R&I in 2DMs and other advanced materials.

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