



Latvijas Zinātnes
padome

APVĀRSNIS EIROPA 4. KLAŠTERIS: DIGITĀLĀ JOMA, RŪPNIECĪBA UN KOSMOSS

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Līdzfinansē
Eiropas Savienība



Latvijas Zinātnes
padome

APVĀRSNIS EIROPA

Darba programmas 2025

APVĀRSNIS EIROPA

EURATOM

SPECIALIZĒTA PROGRAMMA: EUROPEAN DEFENCE FUND

*Ekskluzīvs fokuss
uz aizsardzības
izpēti un izstrādi*

Izpētes
darbības

Izstrādes
darbības

ĪPAŠĀ PROGRAMMA APVĀRSNIS EIROPA & EIT ĪSTENOŠANAI*

Fokusēšanās uz civilajiem lietojumiem



I Pilārs ZINĀTNISKĀ IZCILĪBA

Eiropas Pētniecības padome

M.Sklodovskas-Kirī programma

Pētniecības infrastruktūras



II Pilārs GLOBĀLIE IZAICINĀJUMI UN EIROPAS INDUSTRIĀLĀ KONKURETSPĒJA

Klasteri

- Veselība
- Kultūra, jaunrade un iekļaujoša sabiedrība
- Civilā drošība sabiedrībai
- Digitālā joma, rūpniecība un kosmos
- Klimats, enerģētika un mobilitāte
- Pārtika, bioekonomika, dabas resursi, lauksaimniecība un vide

Kopīgais pētniecības centrs



III Pilārs INOVATĪVA EIROPA

Eiropas
Inovāciju padome

Eiropas
inovāciju ekosistēmas

Eiropas Inovāciju un
tehnoloģiju institūts*

DALĪBAS PAPLAŠINĀŠANA UN EIROPAS PĒTNIECĪBAS TELPAS STIPRINĀŠANA

Dalības paplašināšana & izcilības pārnese

Eiropas pētniecības telpas reforma un uzlabošana

Apvienošana
(Fusion)

Izplatīšana
(Fission)

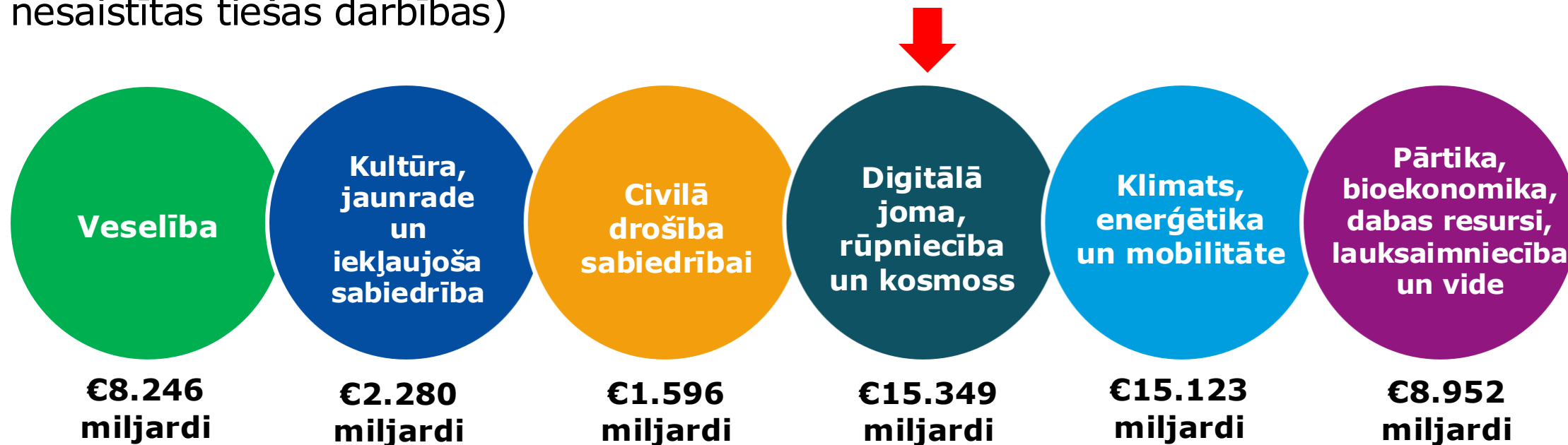
Apvienotais
pētniecības
centrs

* Eiropas Inovāciju un tehnoloģiju institūts (EIT) nav īpašās programmas sastāvdaļa.

GLOBALIE IZAICINĀJUMI UN EIROPAS INDUSTRIĀLĀ KONKURETSPĒJA

II Pilārs

Pamattehnoloģiju un risinājumu attīstība atbilstoši ES politikai un [ilgtspējīgās attīstības mērķiem](#) (6 klasteri, ieskaitot [kopīgo pētniecības centru](#) – ar kodolenerģiju nesaistītas tiešas darbības)



€53.5 miljardi

* €1.970 miljardi kopīgais pētniecības centrs (JRC)

DIGITAL, INDUSTRY & SPACE



2025.GADA DARBA PROGRAMMA

4. klastera darba programma:

https://research-and-innovation.ec.europa.eu/document/download/6a5f3b9a-9a7c-4ec9-8e81-22381f5a9d11_en

Saistošie dokumenti un citu klasteru 2025.gada darba programmas:

https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/horizon-europe-work-programmes_en

Apvārsnis Eiropa programmas ceļvedis:

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

DESTINATION 1

ACHIEVING GLOBAL
LEADERSHIP IN
**CLIMATE-NEUTRAL,
CIRCULAR AND
DIGITISED
INDUSTRIAL AND
DIGITAL VALUE
CHAINS**

DESTINATION 2

ACHIEVING
**TECHNOLOGICAL
LEADERSHIP** FOR
EUROPE'S OPEN
STRATEGIC AUTONOMY
**IN RAW MATERIALS,
CHEMICALS AND
INNOVATIVE
MATERIALS**

DESTINATION 3

DEVELOPING AN **AGILE
AND SECURE** SINGLE
MARKET AND
**INFRASTRUCTURE
FOR DATA-SERVICES
AND TRUSTWORTHY
ARTIFICIAL
INTELLIGENCE
SERVICES**

DESTINATION 4

ACHIEVING **OPEN
STRATEGIC AUTONOMY
IN DIGITAL AND
EMERGING ENABLING
TECHNOLOGIES**

DESTINATION 5

OPEN STRATEGIC
AUTONOMY IN
**DEVELOPING,
DEPLOYING AND USING
GLOBAL SPACE-BASED
INFRASTRUCTURE,
SERVICES,
APPLICATIONS AND
DATA**

DESTINATION 6

**DIGITAL AND
INDUSTRIAL
TECHNOLOGIES
DRIVING HUMAN-
CENTRIC
INNOVATION**

TEMATISKĀS JOMAS



Global Leadership in Climate-Neutral, Circular, Digital Value Chains

- Manufacturing
- Construction
- Energy –Intensive Industries (Decarbonization and Energy Efficiency)
- Circularity and Zero Pollution
- Social Circular enterprises



Tech Leadership for Europe's Strategic Autonomy in Raw & Innovative Materials

- Raw materials
- Innovative Advanced Materials
- Safe and Sustainable by Design
- Textiles



Agile, Secure Data & AI Services in a Single Market

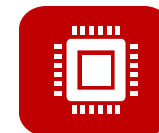
- Connected Collaborative Computing Networks (3C Networks)
- AI-GenAI, Data and Robotics



WORK PROGRAMME 2025



Open Strategic Autonomy in Digital & Emerging Technologies



- Quantum and high-performance computing
- Photonics
- Semiconductors
- AI, GenAI/Data/Robotics
- Artificial Intelligence in Science

Open Strategic Autonomy in Global Space Infrastructure & Data



- Accessing Space
- Acting in Space
- Using Space on Earth (Telecommunications)
- Earth Observation
- Satellite navigation
- Monitoring Space
- Boosting Space

Human-Centric Innovation in Digital & Industrial Tech



- Virtual Worlds
- AI, Data, and Robotics
- Standardisation and Knowledge Valorisation
- International cooperation

PROJEKTU VEIDI

TIPS	AKTIVITĀTES	FINANSĒJUMS
RIA (RESEARCH AND INNOVATION ACTIONS)	DARBĪBAS, KAS VĒRSTAS UZ JAUNU ZINĀŠANU IEGŪŠANU, JAUNU UN UZLABOTU TEHNOLOĢIJU, PRODUKTU, PROCESU, PAKALPOJUMU VAI RISINĀJUMU IZPĒTI UN IEVIEŠANU.	LĪDZ 100%
IA (INNOVATION ACTIONS)	DARBĪBAS, KAS VĒRSTAS UZ PLĀNOŠANU, PROJEKTĒŠANU VAI DIZAINA IZSTRĀDI JAUNIEM, PĀRVEIDOTIEM VAI UZLABOTIEM PRODUKTIEM, PROCESIEM UN PAKALPOJUMIEM.	* LĪDZ 70%
CSA (COORDINATION AND SUPPORT ACTIONS)	DARBĪBAS, KAS VEICINA PROGRAMMAS APVĀRSNIS EIROPA» MĒRĶU SASNIEGŠANU, BET NEATTIECAS UZ PĒTNIECĪBAS UN IZSTRĀDES (R&D) AKTIVITĀTĒM, IZŅEMOT «LĪDZDAĻĪBAS PAPLAŠINĀŠANU UN IZCILĪBAS IZPLATĪŠANU».	LĪDZ 100%

* 70% peļņu gūstošām juridiskām personām; 100% bezpeļņas juridiskām personām.

TEHNOLOĢIJAS GATAVĪBAS LĪMEŅI

Tehnoloģiju gatavības līmeņi (TRL) ir noteiktu tehnoloģiju brieduma rādītāji.

TRL 1 – ievēroti pamatprincipi

TRL 2 – izstrādāta tehnoloģiju koncepcija

TRL 3 – eksperimentāls koncepcijas pierādījums

TRL 4 – tehnoloģija, kas validēta laboratorijā

TRL 5 – tehnoloģija, kas validēta atbilstošā vidē

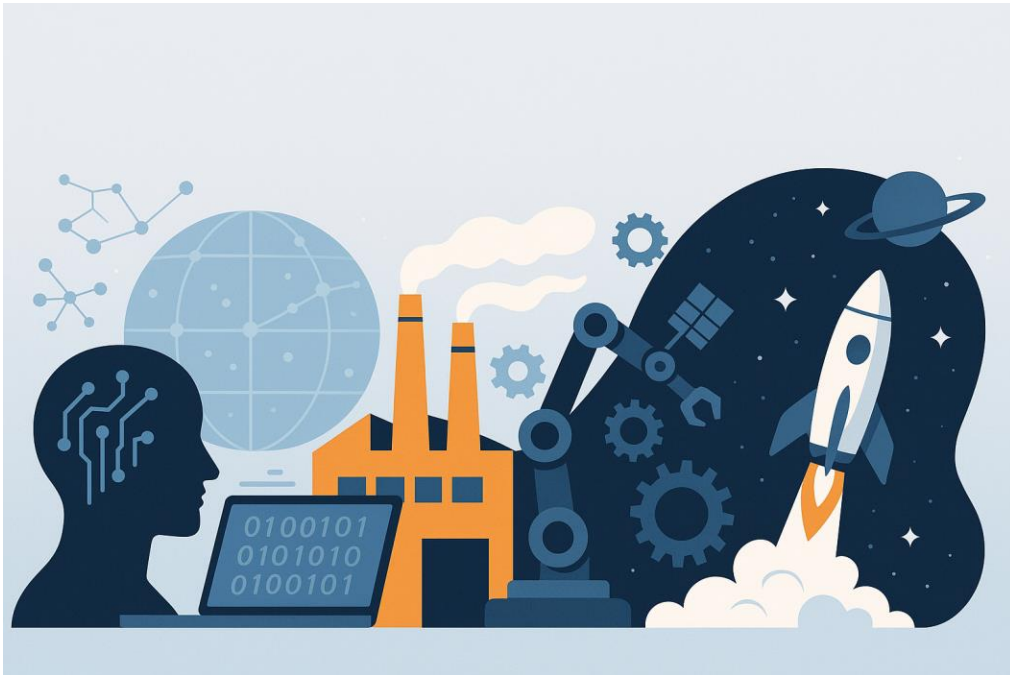
TRL 6 – tehnoloģija, kas demonstrēta atbilstošā vidē

TRL 7 – sistēmas prototipa demonstrācija darbības vidē

TRL 8 – sistēma ir pabeigta un kvalificēta

TRL 9 – faktiskā sistēma, kas pārbaudīta darbības vidē

APVĀRSNIS EIROPA 4. KLASTERIS



- Sustainable digital industry
- Tech sovereignty
- Secure AI/data

- Advanced materials
- Space systems
- Human-centric innovation



[Cluster 4 Work programme 2025](#)



[Cluster 4 Overview](#)



DIGITĀLĀ JOMA

- Digital and **emerging technologies** for **competitiveness** and **fit for the Green Deal**
- **Leading data** and **computing technologies**



RŪPNIECĪBA

- Climate neutral, circular and **digitized production**
- **Autonomy** in **key strategic value chains** for resilient industry



KOSMOSS

- **Autonomy** in **developing, deploying and using global space-based infrastructures, services, applications and data**

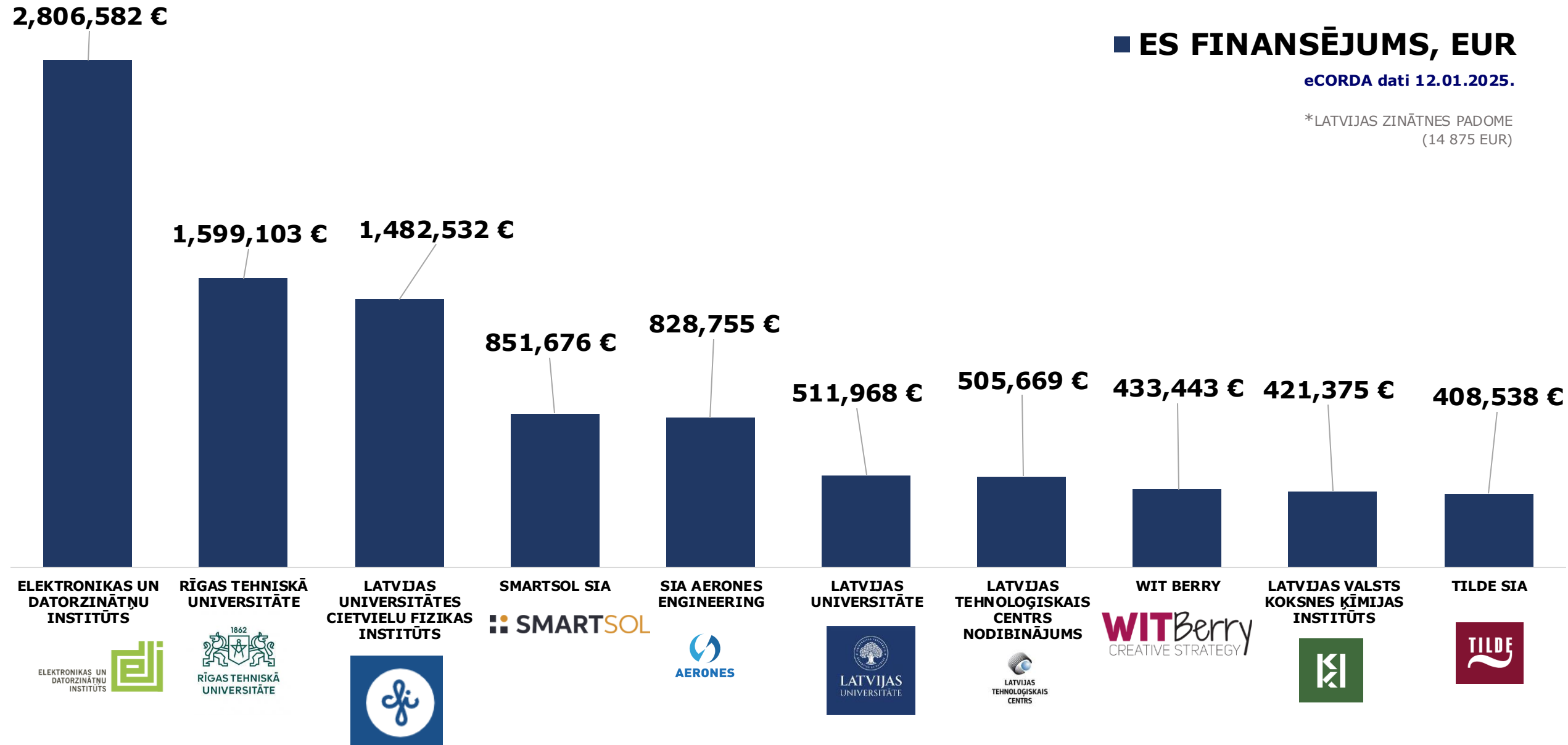


4. KLASTERA TOP 10 DALĪBNIEKI

■ ES FINANSĒJUMS, EUR

eCORDA dati 12.01.2025.

*LATVIJAS ZINĀTNES PADOME
(14 875 EUR)



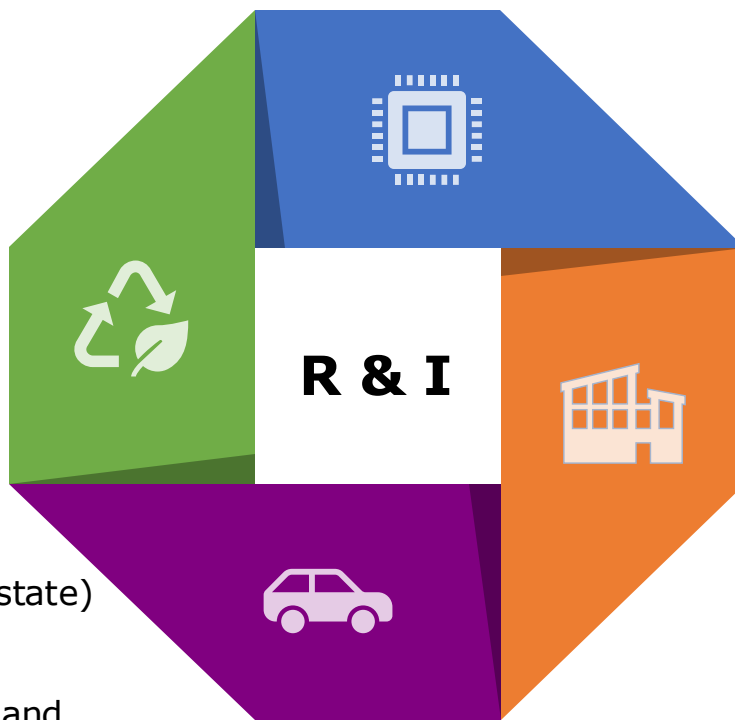
ES R&I PRIORITĀTES VIEDO MATERIĀLU JOMĀ

ENERGY

- Renewable and low carbon energy conversion and generation
- Energy storage systems
- Energy distribution and the transmission grid
- Renewable fuels

MOBILITY

- Advanced batteries (e.g. solid-state)
- Fuel cells systems
- Advanced lighter materials
- Advanced composite materials and structures
- Coatings and paints
- Hybrid manufacturing processes
- Safe and sustainable use components
- Resilient transport infrastructure
- Cost-efficient maintenance and repair



ELECTRONICS

- Sensors
- Novel computing and memory concepts
- Power electronics
- 5G/6G communication and beyond
- Optoelectronics
- Photonics
- Quantum components
- New chip production

CONSTRUCTION

- Enhanced energy efficiency in buildings (composite foams, thermal insulation)
- Robust and long-lasting building structures
- Greater wellbeing in buildings
- Materials for circularity improvement and environmental performance

INDUSTRY

Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains

Manufacturing

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON- HORIZON-CL4- INDUSTRY- 2025-01-TWIN- TRANSITION	<u>01</u>	Integrated approaches for remanufacturing (Made in Europe Partnership)	IA	from 5 to 6-7	5.00 to 7.00	5 to 7
	<u>02</u>	Physical and cognitive augmentation in advanced manufacturing (Made in Europe Partnership)	RIA	from 3 to 5-6	4.00 to 6.00	6 to 9
	<u>05</u>	Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership)	IA	6-7	5.00 to 7.00	6 to 8

INDUSTRY

Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains

Construction

Opening date: 22 May 2025

Deadlines: 23 September 2025 (1st stage), 14 April 2026 (2nd stage)

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON- HORIZON-CL4- INDUSTRY- 2025-01-TWIN- TRANSITION	<u>11</u>	Enhanced logistics and operations of construction sites	IA	from 5 to 6-7	6.50	2

INDUSTRY

Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains

Energy-Intensive Industries: Decarbonisation and Energy Efficiency

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION	31	From heat-driven processes to the use of mechanical and electric forces (Processes4Planet partnership)	IA	7	8.00 to 10.00	2 to 3
	32	Green and resilient flexible production processes (Processes4Planet partnership)	IA	6-7	8.00 to 10.00	2 to 3
	33	Integrated use of renewable energy carriers in industrial sites (Processes4Planet partnership)	RIA	5-6	6.00 to 8.00	3 to 4
	34	Smart integration of net zero technologies into Energy Intensive industries (Processes4Planet and Made in Europe partnerships)	IA	6-7	5.00 to 9.00	3 to 5
	37	Solving issues in carbon-neutral iron and steel making processes with diverse input materials of varying quality (Clean Steel Partnership)	RIA	6	14.00	2

INDUSTRY

Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains

Energy-Intensive Industries: Circularity and Zero Pollution

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON- HORIZON-CL4- INDUSTRY- 2025-01-TWIN- TRANSITION	35	Developing and embedding upcycling technologies into viable business (Processes4Planet partnership)	IA	7	8.00 to 12.00	4 to 6
	36	Safe and clean processing technologies and products (Processes4Planet partnership)	RIA	4-6	6.00 to 8.00	3 to 4
	38	Synergies and mutual learning with national and regional initiatives in Europe on Industrial decarbonisation (Processes4Planet and Clean Steel partnerships)	CSA	n/a	2.00	1
	39	Towards human-centric, sustainable and resilient energy-intensive industries (Processes4Planet and Clean Steel partnerships)	CSA	n/a	2.00	1

INDUSTRY

Destination 1: Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains

Social Circular Enterprises

Opening date: 22 May 2025

Deadlines: 23 September 2025 (1st stage), 14 April 2026 (2nd stage)

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-INDUSTRY-2025-01-TWIN-TRANSITION	21	Demonstrators for clusters of social circular enterprises	IA	6-7	5.00	2

INDUSTRY

Destination 2: Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials

Raw materials

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-MATERIALS	61	Technologies for critical raw materials and strategic raw materials from end-of-life products	IA	6-7	8.00	3
	62	Strategic Partnerships for Raw Materials: Innovative Approaches for sustainable production of Critical Raw Materials	IA	6-7	7.50	4
	63	Innovative solutions for the sustainable production for Semiconductor raw materials	IA	6-7	8.00	3
	64	EU Co-funded Partnership on raw materials for the green and digital transition	PCA	n/a	90.00	1

INDUSTRY

Destination 2: Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials

Innovative advanced materials

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-MATERIALS	42	Innovative Advanced Materials (IAMs) for product monitoring, smart maintenance and repair strategies in the construction sector (Innovative Advanced Materials for Europe partnership)	RIA	from 3 to 5-6	6.00	5
	43	Innovative Advanced Materials (IAMs) for robust, fast curing sealants and coatings for manufacturing and final assembly (Innovative Advanced Materials for Europe partnership)	IA	from 3-4 to 6-7	6.00	5
	44	Innovative Advanced Materials Innovation Procurement	CSA	n/a	2.00	1
	45	Materials Commons for Europe	IA	from 3-4 to 5-6	20.00	1

INDUSTRY

Destination 2: Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials

Innovative advanced materials (cont.)

Opening date: 10 June 2025 Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-MATERIALS	46	Innovative Advanced Materials (IAMs) for photonics, enabling low-power and ultra-broadband performance for telecommunication (Innovative Advanced Materials for Europe partnership)	RIA	from 3 to 6	5.00	2
	47	Innovative Advanced Materials (IAMs) for conformable, flexible or stretchable electronics (Innovative Advanced Materials for Europe partnership)	RIA	from 3 to 6	5.00	3

INDUSTRY

Destination 2: Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials

Safe and sustainable by design

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-MATERIALS	51	Development of safe and sustainable by design alternatives to Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	IA	from 3-4 to 6-7	7.00	4
	52	Accelerate the uptake of life-cycle assessment (LCA) for Safe and Sustainable by Design (SSbD) chemicals and materials and resulting products	RIA	from 3-4 to 5-6	4.00 to 5.00	3 or 4

Textiles

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-MATERIALS	31	Digitally enabled local-for-local textile and apparel production (Textiles for the Future Partnership)	IA	6-7	5.00	2

DIGITAL

Destination 3: Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services

Connected Collaborative Computing Networks (3C networks)

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-DATA	<u>08</u>	Large-scale pilots for supply end-to-end infrastructures integrating device, network computing and communication capabilities for Telco Edge Cloud deployments, as a basis for Connected Collaborative Computing Networks (3C networks)	RIA	from 3 to 7	75.00	1
	<u>09</u>	Alignment of stakeholders towards the supply-side large-scale pilot of end-to-end infrastructures integrating device, network computing and communication capabilities	CSA	n/a	1.80 to 2.50	1
	<u>10</u>	Roadmap for next generation computing technologies from IoT device level to edge to cloud to HPC	CSA	n/a	1.80 to 2.50	1
	<u>11</u>	Open Internet Stack: development of technological commons/open-source 3C building blocks	RIA	n/a	10.00	1
	<u>12</u>	Preparing the Advancement of the state of the art of submarine cable infrastructures	CSA	n/a	1.90 to 2.10	1

HORIZON-CL4-2025-03-DATA-08 (*piemērs*)

What **experts are looking for?**

- Industrial-scale prototyping of end-to-end telco-edge-cloud infrastructures, supporting key vertical sectors and operational deployment across the EU;
- Validating AI-driven, open orchestration platforms to optimize resources (e.g. bandwidth, computing, hardware) across the telco-edge-cloud continuum;
- Fostering cross-industry collaboration to develop and adopt open, sovereign, and interoperable telco-edge-cloud platforms in Europe;
- Integration of emerging processor architectures and extend open-source frameworks, leveraging synergies with initiatives like IPCEI-CIS, SNS, Cloud-Edge-IoT, and Open Internet Stack;
- Demonstrating cybersecurity-by-design and sustainability in next-generation edge-cloud infrastructure and services.

Topic evolution

- Some “building blocks” can be found in previous calls such as:
 - *HORIZON-CL4-2021-DATA-01* (Edge and IoT platforms) & *HORIZON-CL4-2021-DIGITAL-EMERGING-01* (Smart Networks and 6G) up to a limited extent.
 - Running projects from SNS JU Stream C (Experimental infrastructures) and Stream D (Large scale trials and pilots)

What **IS NOT welcome?**

- Starting at low TRLs or lacking clear progress toward TRL 7 is not aligned with project expectations.
- Proprietary or closed platforms that hinder openness and interoperability are not suitable.
- Single-supplier solutions limiting diversity and innovation are discouraged.
- Neglecting hardware integration in favor of software-only approaches fails to meet performance and sustainability targets.

Links to other topics

- [HORIZON-CL4-2025-03-DATA-09](#) (related CSA)
- [HORIZON-CL4-2025-03-DATA-11](#) Open Internet Stack (RIA)
- [HORIZON-CL4-2025-03-DIGITAL-EMERGING-09](#) Challenge-Driven GenAI4EU Booster (RIA)

Related projects

- Projects from SNS Stream C (Experimental infrastructure) and Stream D (Large scale trials and pilots)
- IPCEI-CIS and HEXA-X-II (SNS Flagship)
- Open-source initiatives (non-EU): Sylva, CAMARA, Nephio, ANUKET

DIGITAL

Destination 3: Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services

AI-GenAI / Data / Robotics **Opening date: 10 June 2025** **Deadline: 2 October 2025**

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-DATA	<u>13</u>	Fostering Innovative and Compliant Data Ecosystems	IA	from 6-7 to 8	7.00 to 9.00	5 or 6
HORIZON-CL4-2025-04-DATA	<u>02</u>	Empowering AI/generative AI along the Cognitive Computing continuum	RIA	from 3 to 6-7	6.00 to 8.00	4 or 5
	<u>03</u>	Software Engineering for AI and generative AI	RIA	from 4 to 6	4.00 to 6.00	3 or 4

DIGITAL

Destination 4: Achieving open strategic autonomy in digital and emerging enabling technologies

Quantum and High-Performance Computing

Opening date: 10 June 2025 Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-DIGITAL-EMERGING	<u>01</u>	Continuation of the Quantum Technologies Flagship	CSA	n/a	4.50	1
	<u>02</u>	Quantum Computing – complementing the quantum computing FPAs with the development of a technology agnostic software stack	RIA	from 3-4 to 5-6	5.00	2
	<u>03</u>	Supporting Digital Partnerships in Quantum Technologies	RIA	from 2-3 to 3-5	2.50	3
	<u>04</u>	Post-exascale HPC	CSA	n/a	2.50	1

DIGITAL

Destination 4: Achieving open strategic autonomy in digital and emerging enabling technologies

Photonics

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-04-DIGITAL-EMERGING	<u>01</u>	Advanced sensor technologies and multimodal sensor integration for multiple application domains	IA	from 3 to 7	4.00 to 6.00	4 to 6

Semiconductors

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-DIGITAL-EMERGING	<u>08</u>	Strengthening the fabless Startup and SME ecosystem in Europe	CSA	n/a	1.00	1

DIGITAL

Destination 4: Achieving open strategic autonomy in digital and emerging enabling technologies

AI-GenAI / Data / Robotics Opening date: 10 June 2025 Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-DIGITAL-EMERGING	07	Robust and trustworthy GenerativeAI for Robotics and industrial automation	RIA	from 2 to 6	40.00 to 45.00	2
	09	Challenge-Driven GenAI4EU Booster	RIA	from 3 to 6	15.00	3
HORIZON-CL4-2025-04-DIGITAL-EMERGING	04	Assessment methodologies for General Purpose AI capabilities and risks	RIA	from 2 to 5	3.00 to 4.00	2
	05	Soft Robotics for Advanced physical capabilities	IA	from 4 to 7	10.00	2
	07	Enhanced Learning Strategies for General Purpose AI: Advancing GenAI4EU	RIA	from 2 to 5	15.00	2

DIGITAL

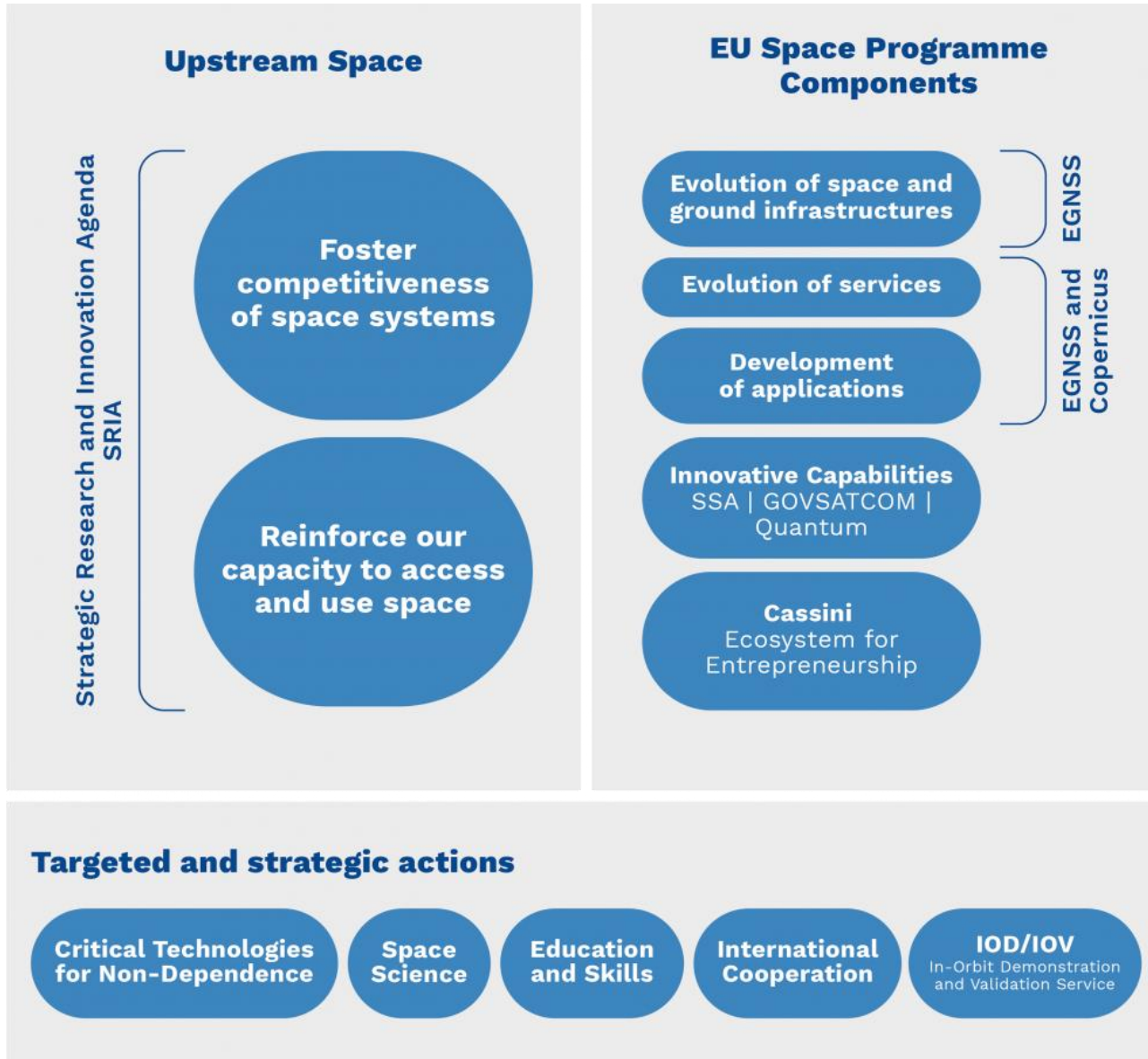
Destination 4: Achieving open strategic autonomy in digital and emerging enabling technologies

Artificial Intelligence in Science

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-DIGITAL	61	AI Foundation models in science	RIA	from 1 to 4	4.00 to 6.00	2 or 3
	62	Facilitated cooperation for AI in Science	CSA	6-7	3.00	1

EU SPACE RESEARCH FUNDING



- Enhance and evolve the **Galileo and Copernicus space** and ground infrastructures
- Advance **EGNSS and Copernicus services** for improved functionality and impact
- Develop innovative applications combining **EGNSS, Copernicus**, and other service
- Build new space capabilities for **Space Situational Awareness (SSA), GOVSATCOM**, and explore quantum technologies
- Foster space entrepreneurship through the Cassini ecosystem
- Support critical technologies, in-orbit validation & in-orbit demonstration (IOV/IOV) services, space science, outreach, and global cooperation

 [EU space research](#)

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Accessing Space

Opening date: 22 May 2025 Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	11	CSA on access to European spaceports	CSA	n/a	1.00	1
	12	Digital solutions for autonomy for space transportation systems, design and simulation tools - Digital enablers and building blocks	RIA	4-5	1.00 to 3.00	2
	13	Digital solutions for autonomy for space transportation systems, design and simulation tools - targeting demonstration	IA	7-8	4.00 to 7.00	2

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Acting in Space

Opening date: 22 May 2025 Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	21	ISOS Pilot Mission Detailed Design – Servicing component	RIA	6	6.00 to 12.00	2
	22	ISOS Pilot Mission Detailed Design – HOST component	RIA	6	12.00 to 17.50	1
	23	ISOS Pilot Mission Detailed Design – Logistics component	RIA	6	10.00 to 12.00	1
	24	ISOS Pilot Mission Detailed Design – satAPPS component	RIA	6	2.00 to 3.00	2

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Using Space on Earth – Telecommunications and Earth Observation

Opening date: 22 May 2025 Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	31	Digital enablers and building blocks for Earth Observation and Satellite telecommunication for Space solutions	RIA	4-5	1.00 to 5.00	3
	32	Preparing demonstration missions for collaborative Earth Observation and Satellite telecommunication for Space solutions	IA	7-8	2.00 to 6.00	3

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Using Space on Earth – Earth Observation

Opening date: 22 May 2025 Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	41	Copernicus Climate Change Service (C3S) evolution: new and innovative processing and methods for future Sentinels and other satellites for reanalyses	RIA	5-6	10.00	1
	42	Copernicus Atmosphere Monitoring Service (CAMS) evolution: improved soil-vegetation-atmosphere modelling and data assimilation of atmospheric constituents	RIA	5-6	3.00	1
	43	Copernicus Anthropogenic CO ₂ Emissions Monitoring & Verification Support (CO2MVS) capacity: new and innovative methods to estimate the impact of fires on vegetation and related carbon fluxes	RIA	5-6	3.00	1

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Using Space on Earth – Earth Observation (cont.)

Opening date: 22 May 2025 Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	44	Copernicus Marine Environment Monitoring Service (CMEMS) evolution: new and innovative ocean data assimilation techniques	RIA	5-6	5.00	1
	45	Supporting the AI/ML digital transition of Copernicus Services	RIA	5-6	12.00	1
	46	Innovative Earth observation services in support of maritime litter detection and ship source pollution policies	IA	7-8	5.00	1

SPACE

Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data

Boosting Space through non-dependence of the EU for key critical space technologies

Opening date: 22 May 2025

Deadline: 25 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-02-SPACE	Z1	Space Critical EEE Components for EU non-dependence – RISC-V Microprocessor on 7nm	RIA	from 3 to 5	4.50 to 5.00	1
	Z2	Space Critical Equipment and Related Technologies for EU non-dependence – Chip Scale Atomic Clocks and Solar Cells	RIA	from 3 to 5-6	3.50 to 4.00	2
	Z3	Space Critical EEE Components for EU non-dependence - Connectors	RIA	from 3 to 5-6	0.80 to 1.00	1
	Z4	Space Critical EEE Components for EU non-dependence – Advanced Packages and Memories	RIA	6-7	2.50 to 3.00	2
	81	EU-Japan cooperation on the exploitation of Quantum Space Gravimetry data	RIA	3	0.45 to 0.50	1

DIGITAL

Destination 6: Digital and industrial technologies driving human-centric innovation

Virtual worlds

Opening date: 10 June 2025 Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-HUMAN	<u>14</u>	Core technologies for virtual worlds	RIA	from 3 to 5	5.00 to 6.00	7
	<u>15</u>	GenAI4EU: Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience	IA	from 4 to 6	4.00 to 5.00	4 or 5
	<u>16</u>	Drive the evolution of the internet towards open and interoperable Web 4.0 and Virtual Worlds: building blocks in priority areas	RIA	n/a	3.00	5
	<u>17</u>	Specific support for the Virtual Worlds Partnership and the Web 4.0 initiative	CSA	n/a	2.50	1

DIGITAL

Destination 6: Digital and industrial technologies driving human-centric innovation

AI-GenAI / Data / Robotics

Opening date: 10 June 2025

Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-HUMAN	18	GenAI4EU central Hub	CSA	n/a	3	1

Standardisation and Knowledge Valorisation Opening date: 22 May 2025 Deadline: 23 Sept. 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-HUMAN	60	Horizon Standardisation Booster	CSA	n/a	1.5	1
	61	Standardisation landscape analyses tool	CSA	n/a	1	1
	62	Artificial Intelligence for knowledge valorisation	CSA	n/a	2	1

DIGITAL

Destination 6: Digital and industrial technologies driving human-centric innovation

Standardisation and Knowledge Valorisation (cont.)

Opening date: 22 May 2025 Deadline: 23 September 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-INDUSTRY-2025-01-HUMAN	<u>63</u>	Value creation pilots for scaling up innovative solutions	CSA	n/a	2	1
	<u>64</u>	Pilot initiatives on Technology Infrastructures	CSA	n/a	0.5 to 1	5 to 10
	<u>65</u>	System innovation experimentation for Industry 5.0	IA	n/a	3	1
	<u>66</u>	Assessment of Technology Infrastructure needs in Ukraine	CSA	n/a	1.5	1

DIGITAL

Destination 6: Digital and industrial technologies driving human-centric innovation

International Cooperation

Opening date: 10 June 2025 Deadline: 2 October 2025

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2025-03-HUMAN	19	International cooperation in semiconductors	CSA	n/a	3	1
HORIZON-CL4-2025-04-HUMAN	08	GenAI for Africa	RIA	from 4 to 6	1 to 2	4 or 5

STATISTIKA (*piemērs*)

D3: World Leading Data and Computing Technologies

Call	Topic		Type of action	Proposals	Projects Funded	Scores	Success ratio, %
<u>HORIZON-CL4-2023-DATA-01</u>	02	Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language (AI, data and robotics partnership)	RIA	29	5	12.5 to 14.5	17.2
	07	Collaboration with NSF on fundamental research on new concepts for distributed computing and swarm intelligence	CSA	1	1	11	100.0
	04	Cognitive Computing Continuum: Intelligence and automation for more efficient data processing (AI, data and robotics partnership)	RIA	66	5	13.5 to 15.0	7.6
	06	Coordination and Support of Cognitive Computing Continuum research and policy	CSA	3	1	14	33.3

Saite uz visiem konkursa projektiem iekš CORDIS



Plašāka statistika atrodama te: <https://www.lzp.gov.lv/lv/apvarsnis-eiropa-2021-2027>
(Fails Apvārsnis Eiropa konkursu apkopojums)

SAISTOŠIE ĀRĒJIE RESURSI

AI, dati un skaitļošana

- [The AI Continent Action Plan](#)
- [A European Strategy for Data](#)
- [European Alliance for Industrial Data, Edge and Cloud presents its first deliverables](#)
- [European Industrial Technology Roadmap for the NG Cloud-edge](#)

Viedie materiāli

- [Advanced Materials for Industrial Leadership](#)
- [EU Critical Raw Materials Act](#)
- [European Union Observatory for Nanomaterials](#)
- [AI Needs for Optical Chips](#)

Kosmoss

- [In-space Operations and Services \(ISOS\)](#)
- [EU Space Research](#)
- [The European Space Agency \(ESA\)](#)
- [European Global Navigation Satellite System \(EGNSS\)](#)
- [CASSINI Challenges](#)

Citi

- [How to master Europe's digital infrastructure needs \(White Paper\)](#)
- [Telco Cloud Thematic Roadmap](#)

KANĀDAS UN BALTIJAS VALSTU TĪKLOŠANAS PASĀKUMS



May 29, 2025 17:30–19:30 EET

Darba valoda: **angļu**



[Kanādas-Baltijas Apvārsnis
Eiropa tīklošanas pasākums](#)



[Pasākuma programma](#)



TEMATISKIE PASĀKUMI EIROPĀ



[EUCNC & 6G Summit 2025](#)



[EPOSS ANNUAL FORUM 2025](#)

**3rd -6th June, Neuchâtel,
Switzerland**



[LETI Information Days](#)

**17th -19th June 2025,
Grenoble, France**



[Conference | The Future of
Digital Investments in the EU](#)

**2nd -3rd July 2025, Aalborg,
Denmark**



[AI, Data, and Robotics
Forum](#)

**23rd-24th September,
Stavanger, Norway**



[European Big Data Value
Forum](#)

**12th-14th November,
Copenhagen, Denmark**

PROJEKTA PIETEIKUMA PRIEKŠPĀRBAUDE

WIDERA Pre-screening portal



Latvijas Zinātnes padome kopā ar WIDERA NET projekta partneriem piedāvā iespēju izmantot ekspertu datu bāzi, lai iesniegtu projekta pieteikumus priekšpārbaudei.

Iespēju var izmantot tie interesenti, kuri gatavo projekta pieteikumu sekojošu programmu ietvaros:

- **II Pīlāra klasteros:** Veselība; Kultūra, jaunrade un iekļaujoša sabiedrība; Civilā drošība sabiedrībai; **Digitālā joma, rūpniecība un kosmos**; Klimats, enerģētika un mobilitāte; Pārtika, bioekonomika, dabas resursi, lauksaimniecība un vide
- Dalības paplašināšana un izcilības izplatīšana (*Widening*)
- Eiropas pētniecības un inovācijas sistēmas reformēšana un pilnveidošana
- Eiropas Inovāciju padome *Pathfinder*

Iesniegt savu pieteikumu priekšpārbaudei var tikai **darba pakas vadītājs vai projekta koordinators**.

Lai pieteiktos, dodies uz tīmekļa vietni - <https://wideraexperts.eu/>

CLUSTER 4

<https://ideal-ist.eu/event/proposal-check-2024>



PROJEKTA PIETEIKUMA PRIEKŠPĀRBAUDE

- Programmas "Apvārsnis Eiropa" projektu **koordinātoru konsultēšana**
- **24** ārvalstu ekspertu konsultācijas Latvijas koordinātoriem (projektu pieteikumu priekšpārbaude)
- Viena konsultācija līdz **5000** EUR
- ZI var pieteikties atbalstam kvalitatīvu projektu pieteikumu priekšpārbaudei piesaistot ārvalstu ekspertu
- LZP piešķir finansējumu tad kad par šo pieteikumu ir saņemts virs kvalitātes sliekšņa vērtējums

<https://www.lzp.gov.lv/lv/atbalsts-eiropas-savienibas-programmas-apvarsnis-eiropa-projektu-pieteikumu-latvijas-koordinatoru-konsultesana>

KĻŪT PAR EKSPERTU



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If you need further guidance, access the [key steps for experts](#).

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/experts/standard-briefing-slides-for-experts_he_en.pdf



EU Experts

Call for Expression of Interest

Funding & Tenders Portal Expert Database 2021-2027

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/experts/call-for-expression-of-interest_en.pdf

NKP PLĀNOTĀS APMĀCĪBAS APVĀRSNIS EIROPA JAUNAJIEM DALĪBNIEMIEM

- Ievads projektu pieteikumu sagatavošanā programmā Apvārsnis Eiropa
- No idejas līdz pieteikumam programmā Apvārsnis Eiropa
- Juridiskie aspekti programmā Apvārsnis Eiropa: no *Grant Agreement* līdz *Consortium Agreement*
- Programmas Apvārsnis Eiropa projekta finansēšanas modeļi

Lai pieteiktos apmācībām, lūdzam aizpildīt aptauju:

<https://docs.google.com/forms/d/e/1FAIpQLScTCeyEbV06K9sVSwsSIMWr-oWudQlgxJA0g9d-QOIBYSvX2cQ/viewform?usp=header>



Interese par NKP organizētajām
apmācībām "Apvārsnis Eiropa" jaunajiem
dalībniekiem

INFORMĀCIJA UN JAUNUMI

Apvārsnis Eiropa Nacionālais kontaktpunkts aktualizē savus adresātu sarakstus un lūdz Jūs veltīt 2 minūtes sava laika un aizpildīt aptauju:

https://docs.google.com/forms/d/e/1FAIpQLSdn-gzfe7nVfRfKL0HP5ec0Pv2U44PegySLUe0m8evdFO_5iw/viewform

- Pievienojoties adresātu sarakstam saņemsiet informāciju par Apvārsnis Eiropa aktualitātēm, konkursiem, pasākumiem un pieejamiem atbalsta mehānismiem.
- Jebkurā brīdī var atteikties no informācijas saņemšanas aptaujā atzīmējot "*Nevēlos turpmāk saņemt informāciju par Apvārsnis Eiropa*".



<https://www.lzp.gov.lv/lv/apvarsnis-eiropa>



<https://www.linkedin.com/company/nkplv/>



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<https://www.x.com/apvarsnis>



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PLOTNIECE**

European Innovation Council (EIC) |
European Innovation Ecosystems
(EIE) | European Institute of
Innovation and Technology
(EIT) | Research infrastructures (RI)

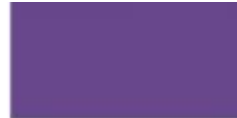
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Latvijas Zinātnes
padome

PALDIES!

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2027
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attīstības plāns



Latvijas Zinātnes
padome

1.1.1. specifiskā atbalsta mērķa "Pētniecības un inovāciju kapacitātes stiprināšana un progresīvu tehnoloģiju ieviešana kopējā P&A sistēmā" 1.1.1.5. pasākuma "Latvijas pilnvērtīga dalība Apvārsnis Eiropa programmā, tajā skaitā nodrošinot kompleksu atbalsta instrumentu klāstu un sasaisti ar RIS3 specializācijas jomu attīstīšanu" projekts "Atbalsts Latvijas dalībai starptautiskās pētniecības un inovācijas programmās". ietvaros