



INSTITUTE OF SOLID STATE PHYSICS
UNIVERSITY OF LATVIA

Passion drives progress

WP2026 TOPICAL AREAS

Sustainability and Collaboration



- Strengthen **long-term sustainability** of research infrastructures and human capital
- Foster **synergies with other EU and national funding sources**
- Encourage **cooperation with industry and SMEs** for innovation and reduced environmental footprint

Transnational Access



- Support both **curiosity-driven** and **challenge-driven research**
- Ensure **integrated and sustainable access** to state-of-the-art facilities
- Balance user access with training and education

Open Science and FAIR Data



- Expand the **EOSC Federation** and promote **FAIR principles**
- Advance trusted, secure data sharing across disciplines
- Enable **EOSC uptake** by research communities and infrastructures



WORK PROGRAMME 2025



Innovation Ecosystems



- Promote co-creation and technology development **with industry**
- Develop **research infrastructure innovation ecosystems**
- Advance next-generation scientific instrumentation and digital tools

Strategic Initiatives



- Support **Destination Earth** digital twins for climate and sustainability
- Foster AI integration and advanced data infrastructures
- Promote risk management, mitigation, and research security

ERA Alignment



- Align with **ESFRI, ERIC, and ERA** policies
- Strengthen global **partnerships and cooperation with Ukraine**
- Enhance **integration of widening** and candidate countries



CLUSTER 4: ADVANCING DIGITAL, INDUSTRY AND SPACE

Areas of intervention

- Manufacturing technologies
- Key digital technologies including quantum technologies
- Emerging enabling technologies
- Advanced materials
- Artificial intelligence and robotics
- Next generation internet
- Advanced computing and Big Data
- Circular industries
- Low carbon and clean industries
- Space including earth observation



Cluster 4 Overview

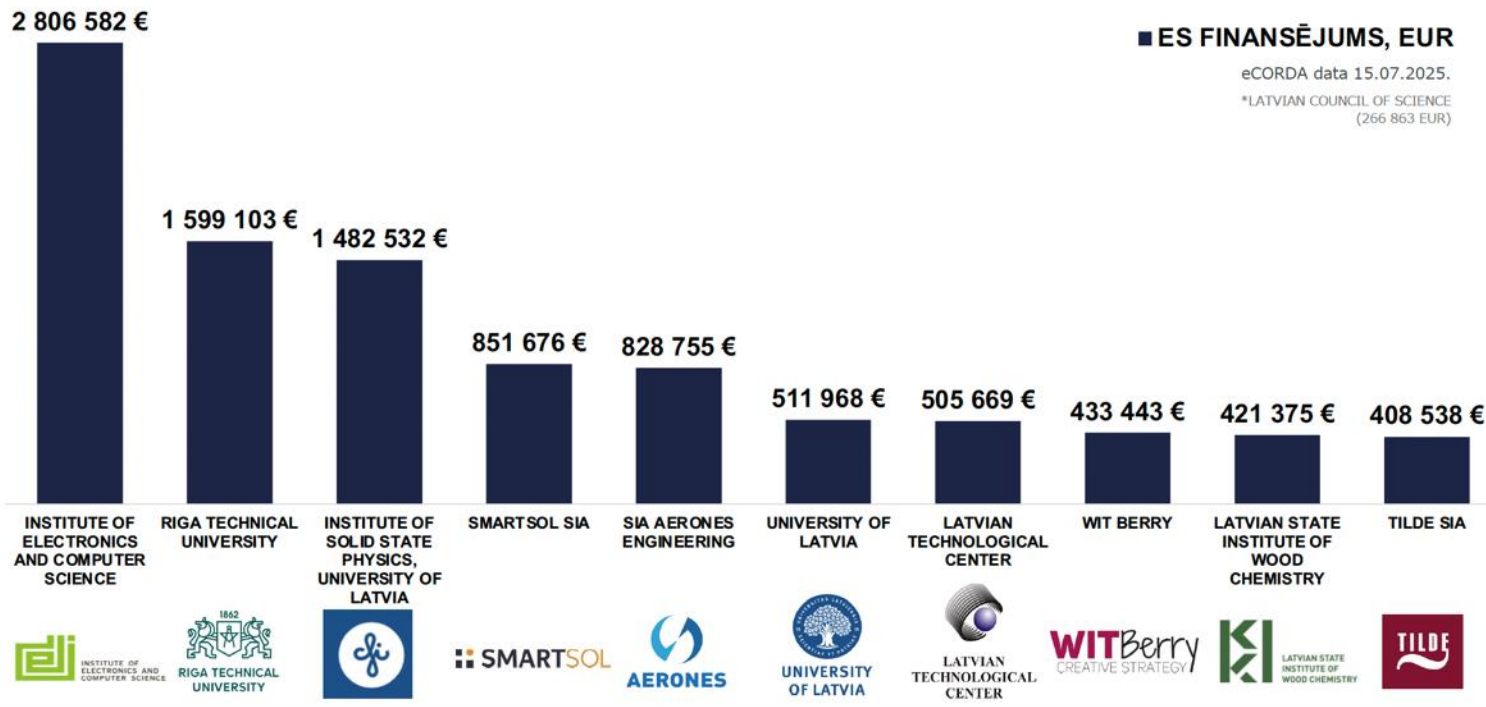


CLUSTER 4 TOP 10 PARTICIPANTS

■ ES FINANSĒJUMS, EUR

eCORDA data 15.07.2025.

*LATVIAN COUNCIL OF SCIENCE
(266 863 EUR)





INDUSTRY

Destination: Leadership in materials and production for Europe

Innovative Advanced Materials-based Technologies

Opening date: 6 January 2026 Deadline: 21 April 2026

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-05-MAT-PROD	01	New or enhanced Innovative Advanced Materials (IAM) enabled sensing functionality	RIA	from 3 to 5-6	8.00	3



INDUSTRY

Destination: Leadership in materials and production for Europe

Sustainable Advanced Materials, Raw Materials and Chemicals

Opening date: 16 December 2025

Deadlines: 17 March 2026 (1st stage), 13 October 2026 (2nd stage)

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-02-MAT-PROD	21	Development of safe and sustainable alternatives to substances of concern	IA	5-7	6.00 to 7.50	6



INDUSTRY

Destination: Leadership in materials and production for Europe

Sustainable Advanced Materials, Raw Materials and Chemicals

Opening date: 6 January 2026

Deadline: 21 April 2026

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-02-MAT-PROD	23	Accelerating the discovery and development of chemicals and innovative advanced materials through digitalisation and artificial intelligence (Innovative Advanced Materials for the EU partnership)	IA	5-7	13.00	4



INDUSTRY

Destination: Leadership in materials and production for Europe

Fast-tracking Circularity

Opening date: 6 January 2026 Deadline: 21 April 2026

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-01-MAT-PROD	01	Advanced manufacturing for key products (Made in Europe partnership)	IA	5-7	6.00 to 8.00	6
	04	Optimise the usage of resources in a circular economy (Processes4Planet and Clean Steel partnerships)	RIA	from 4-5 to 6	5.00 to 7.00	10
	05	Circular innovative advanced materials: facilitating the transition from design to markets (Innovative Advanced Materials for the EU and Made in Europe partnerships)	RIA	from 4-5 to 6	5.00 to 6.50	7



INDUSTRY

Destination: Leadership in materials and production for Europe

Sustainable Advanced Materials, Raw Materials and Chemicals

Opening date: 16 December 2025

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Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-02-MAT-PROD	21	Development of safe and sustainable alternatives to substances of concern	IA	5-7	6.00 to 7.50	6



INDUSTRY

Destination: Leadership in materials and production for Europe

Disruptive technologies for carbon capture and clean energy use

Opening date: 6 January 2026 Deadline: 21 April 2026

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-01-MAT-PROD	31	Efficient capture / purification / utilisation of CO2 for the production of competitive products (Processes4Planet partnership)	RIA	from 4-5 to 6	5.00 to 7.00	9



INDUSTRY

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

AI for manufacturing and energy-intensive industries

Opening date: 16 December 2025

Deadlines: 17 March 2026 (1st stage), 13 October 2026 (2nd stage)

Topic	Title		Type of action	TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL4-2026-02-DIGITAL-EMERGING	51	AI improved advanced manufacturing and production processes in factories	RIA	from 4-5 to 6	4.00 to 6.00	5
	53	Innovative AI methods and technologies for the process industries	RIA	from 4-5 to 6	4.00 to 6.00	5



Destination 3: Sustainable, secure and competitive energy supply

Opening: 18 December 2026

Deadline(s): 31 March 2026 (First Stage), **20 October 2026** (Second Stage)

Topic	Title	Type of action	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-CL5-2026-04-Two-Stage-D3-02	Next generation of renewable energy technologies	RIA	4.00	6



EIC WP2026 Pathfinder

Opening date: 5 February 2026

Deadline: 12 May 2026

Topic	Type of action, TRL	EU contribution per project (EUR million)	Indicative Budget (EUR million)
EIC Pathfinder OPEN	HORIZON EIC Grants, TRL 1-4	up to 4M	166

Opening date: 5 February 2026

Deadline: 28 October 2026

Topic	Type of action, TRL	EU contribution per project (EUR million)	Indicative Budget (EUR million)
EIC Pathfinder CHALLENGES	HORIZON EIC Grants, TRL 1-4	up to 4M	96

2026 Challenge themes: *Advanced Materials for Miniaturised Energy Harvesting Systems; Biotechnology for Healthy Ageing; DeepRAP: Deep Reasoning, Abstraction & Planning towards Trustworthy Cognitive AI Systems.*



EIC WP2026 Transition

Opening date: 5 February 2026

Deadline: 16 September 2026

Topic	Type of action, TRL	EU contribution per project (EUR million)	Indicative Budget (EUR million)
EIC Transition	HORIZON EIC Grants, TRL 3-5/6	0.5M to 2M	100



EIC WP2026 Accelerator

Opening date: Continuous submission **Cut-offs (batches):** 7 Jan, 4 Mar, 6 May, 8 Jul, 2 Sep, 4 Nov 2026

Topic	Type of action, TRL	EU contribution per project (EUR million)	Indicative Budget (EUR million)
EIC Accelerator OPEN	HORIZON EIC Accelerator Blended Finance, TRL 6-9	Grant ≤ 2.5 M + Investment 1-10 M	414

Topic	Type of action, TRL	EU contribution per project (EUR million)	Indicative Budget (EUR million)
EIC Accelerator CHALLENGES	HORIZON EIC Accelerator Blended Finance, TRL 6-9	Grant ≤ 2.5 M + Investment 1-10 M	220

2026 Challenge themes: Advanced Materials for Renewable Energy and Energy Storage; Alternative Concepts and Key Enabling Technologies for Fusion Power Plants; Biotech for Regenerating Agricultural Soils; Boosting the European Critical Raw Materials Value Chain; Deep Tech for Climate Adaptation.



Excellence Hubs

Opening date: 2 September 2026

Deadline: 4 March 2027

Topic	Type of action, TRL	EU contribution per project (EUR million)	Number of projects to be funded
HORIZON-WIDERA-2026-03: Excellence Hubs	CSA	1.5-4.5 EUR	30

Mērķis: pārvarēt inovāciju plaisu ES valstu starpā, veidojot reģionālo inovāciju ekosistēmu tīklus, balstoties uz *quadruple helix* sadarbību

Galvenās darbības:

- attīstīt kopējus R&D stratēģiskos plānus;
- īstenot pilotprojektus, kas stiprina akadēmijas un uzņēmumu sadarbību;
- veicināt talantu piesaisti, u.c.

NACIONĀLAIS LĪMENIS

PRAKTISKAS IEVIRZES PĒTĪJUMI



Atvērs: 2026.gada janvāris

Finansējuma apmērs: vienam projektam publiskā finansējuma maksimālais no 30 000~600 000 EUR + līdzfinansējums no pētniecības organizācijas un industrijas

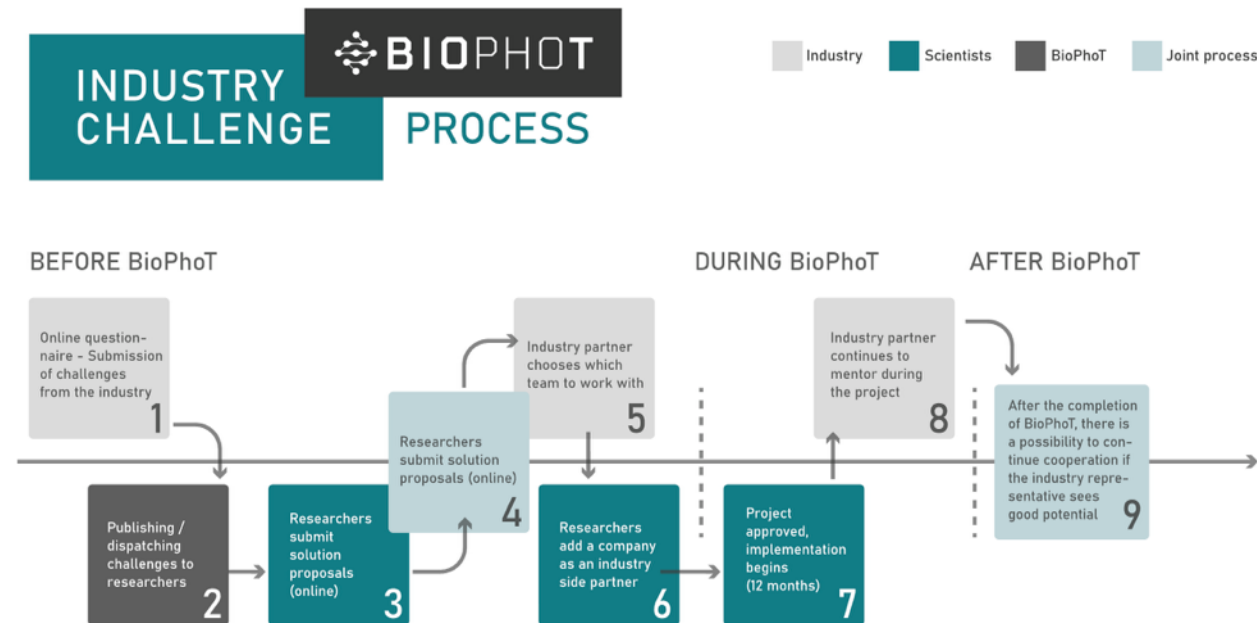
Mērķis: atbalstīt praktiskas ievirzes un sadarbības pētījumu, tai skaitā starpdisciplināru pētījumu, īstenošanu, kuri virza RIS3 stratēģijas specializācijas jomu attīstību

Atbalstāmās darbības:

- tehniski ekonomiskā priekšizpēte;
- pētniecība (fundamentālie pētījumi, rūpnieciskie pētījumi, eksperimentālā izstrāde);
- tehnoloģiju tiesību aizsardzība;
- projekta ietvaros radīto zināšanu izplatīšana



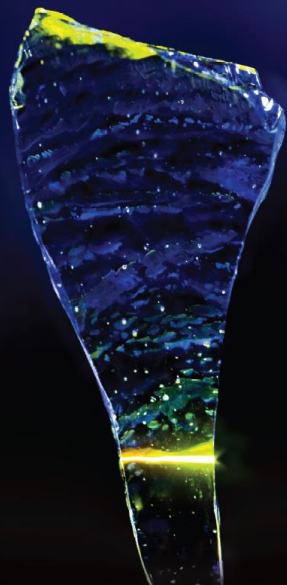
BIOPHOT INDUSTRIJAS IZAICINĀJUMI





LATVIJAS UNIVERSITĀTES
CIETVIELU FIZIKAS INSTITŪTS

INSTITUTE OF SOLID STATE PHYSICS
UNIVERSITY OF LATVIA



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THANK YOU!

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