Latvian Research & Innovation Partner Catalogue 2026



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Latvian Council of Science

1.1.1.5. project "Support for Latvia's participation in international research and innovation programs"

Introduction

Latvian Research & Innovation Partner Catalogue 2026

Finding the right partner can determine whether a promising project idea develops into a strong, fundable consortium. This catalogue is designed to make Latvian expertise easy to find - both for consortium coordinators seeking specific expertise and for Latvian teams looking to join international projects.

Created and published by the Latvian Horizon Europe National Contact Point at the Latvian Council of Science, the catalogue brings together the expertise, capabilities, research infrastructure and project experience of Latvian research and innovation organisations in a single, comparable format. It enables potential partners to quickly understand what each team can contribute and how to get in touch.

What you will find here

This edition contains 120 profiles: 63 university teams, 30 research institutes, 9 SMEs, 8 large enterprises, 4 NGOs, one university hospital, one public authority, one research infrastructure and three other organisations. Their expertise spans health and biomedicine, digital technologies and cybersecurity, remote sensing, advanced materials, climate and environment, agriculture and the bioeconomy, and the social sciences and humanities.

Each profile represents a team rather than an entire institution. Several teams from the same organisation may therefore appear separately, each with its own expertise, infrastructure and collaboration interests.

How to use the catalogue

Each team has one page. The profile describes what the team can contribute to an international consortium, highlights selected projects and the team's roles in them, presents research infrastructure available to a consortium, and outlines the expertise it seeks in potential partners.

The sidebar provides key information at a glance: the contact person, core team, technology readiness level, Horizon Europe experience, the roles the team can take on, and the types of partners it is seeking. The table at the foot of each page shows the Horizon Europe programme parts of interest to the team, with its selections highlighted in bold.

To search by topic, use the Thematic Index at the end of the catalogue, where every team is listed alphabetically under each programme part it selected. In the digital version, names in both the index and the list of profiles link directly to the relevant profile page.

Get in touch

All information in the catalogue has been provided by the participating organisations and reflects their submissions as of October 2026. Contact details are included so that you can approach teams directly and explore opportunities for collaboration.

Profiles in this catalogue

120 Latvian research and innovation teams, in the order in which they appear in the catalogue. Click a name to jump to its profile. The thematic index at the end of the catalogue lists the same teams alphabetically under each Horizon Europe programme part.

Riga Technical University - Institute of Biomaterials and Bioengineering University
University of Latvia - Institute of Clinical and Preventive Medicine University
Institute of Electronics and Computer Science (EDI) Research institute
University of Latvia - Faculty of Medicine and Life Sciences University
University of Latvia - Centre for Diaspora and Migration Research (CMDR) Research institute
National Institute of Research and Innovation - Grant Office Research institute
LMT Large enterprise
Rīga Stradiņš University - Computational Systems Biology Group University
Tet Large enterprise
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory Research institute
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy University
Vidzeme University of Applied Sciences - Digital Health and XR University
Institute for Environmental Solutions Research institute
AiFlo Technologies Other
AS Sadales tīkls Large enterprise
Baltic Photonics Large enterprise
Baltic Satellite Service SME
Baltic Studies Centre Research institute
Blue Siren Solutions SME
Daugavpils University - Society "Park of Intellect" NGO
Digital Accelerator of Latvia NGO
dots. (WeAreDots) SME
Eirobaltik SME
EKA University of Applied Sciences University
Empyrio Other
European Forum for Agricultural and Rural Advisory Services (EUFRAS) NGO
GroGlass Large enterprise
InnoMatrix Research infrastructure
Institute of Agricultural Resources and Economics (AREI) Research institute
Institute of Economics of the Latvian Academy of Sciences Research institute
Institute of Electronics and Computer Science (EDI) - Wind Energy Research Research institute
Institute of Food Safety, Animal Health and Environment (BIOR) Research institute
Jāzeps Vītols Latvian Academy of Music University
Latvia University of Life Sciences and Technologies - Agrihorts Research institute
Latvia University of Life Sciences and Technologies - Animal Sciences Institute University
Latvia University of Life Sciences and Technologies - Bioprocess Engineering University
Latvia University of Life Sciences and Technologies - digiMEI University
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development University
Latvia University of Life Sciences and Technologies - Social Sciences University
Latvia University of Life Sciences and Technologies - Food Science and Technology University
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping University
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI Large enterprise
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services Large enterprise
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services Other
Latvian Institute of Aquatic Ecology - Ecotoxicology Research institute
Latvian Institute of Aquatic Ecology - Marine Ecosystem Research Research institute
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring Research institute
Latvian Rural Advisory and Training Centre (LLKC) Public authority
Latvian State Institute of Wood Chemistry Research institute
Latvian State Radio and Television Centre (LVRTC) Large enterprise
Linearis SME
Logics Research Centre SIA SME
Naco Technologies SME
National Institute of Research and Innovation - Biotic Interaction Research Group Research institute
National Institute of Research and Innovation - Cancer Biomarker group Research institute
National Institute of Research and Innovation - Cancer Gene Therapy Group Research institute

National Institute of Research and Innovation - Molecular and Functional Genomics Group Research institute
National Institute of Research and Innovation - Pharmaceutical Pharmacology Research institute
National Institute of Research and Innovation - Technology Transfer Office Research institute
NewDoor NGO
Riga East University Hospital Hospital
Rīga Stradiņš University - Extended Reality in Rehabilitation University
Rīga Stradiņš University - Feminist Investigations research group University
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group University
Rīga Stradiņš University - Institute of Oncology and Molecular Genetics University
Rīga Stradiņš University - Integrative Bioinformatics Group University
Rīga Stradiņš University - Motor Control Research University
Rīga Stradiņš University - Populist Encounters Research Group University
Rīga Stradiņš University - Precision Oncology University
Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology University
Rīga Stradiņš University - Social Sciences Research Centre Research institute
Rīga Stradiņš University - Sports Healthcare Research Centre University
Rīga Stradiņš University - Wearable Sensors and Smart Textiles University
Riga Technical University - Antibacterial Biomaterials and Hydrogels University
Riga Technical University - Bio-Textiles and Nanomaterials University
Riga Technical University - Building Energy and HVAC Research Team University
Riga Technical University - Faculty of Civil and Mechanical Engineering University
Riga Technical University - High Performance Materials and Structures University
Riga Technical University - Industrial and Power Electronics University
Riga Technical University - Innovation and Technology Transfer University
Riga Technical University - Mathematical Modelling University
Riga Technical University - Personal Protective Equipment Laboratory (PPELab) University
Riga Technical University - Surface and Biomaterial Spectroscopy University
Riga Technical University - Sustainable Construction Materials University
Riga Technical University - Wood and Timber Engineering University
Sprayify SME
Stratex SME
Transport and Telecommunication Institute (TSI) University
University of Latvia - Bioethics and Research Ethics Group University
University of Latvia - Center for Sustainable Chemistry University
University of Latvia - Centre for European and Transition Studies University
University of Latvia - Department of Environmental Science University
University of Latvia - Faculty of Science and Technology (Human Geography) University
University of Latvia - Institute of Atomic Physics and Spectroscopy Research institute
University of Latvia - Institute of Microbiology and Biotechnology University
University of Latvia - Institute of Numerical Modelling University
University of Latvia - Institute of Numerical Modelling (INM) Research institute
University of Latvia - Institute of Solid State Physics (Theory Laboratory) Research institute
University of Latvia - Institute of Solid State Physics - Energy Materials Research institute
University of Latvia - Institute of Solid State Physics - Ferroelectrics Research institute
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics University
University of Latvia - Latvian Language and Linguistics University
University of Latvia - Living Materials group University
University of Latvia - Microbial Strain Collection of Latvia (MSCL) University
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology University
University of Latvia - Social Work and Social Policy University
University of Latvia - Societal Resilience Research Group University
University of Latvia - Spectroscopy and Light Source Technology Laboratory University
University of Latvia - Thermoacoustics research group University
Vidzeme University of Applied Sciences - AI in Education University
Vidzeme University of Applied Sciences - History and Economics University
Vidzeme University of Applied Sciences - Mobility Research University
Vidzeme University of Applied Sciences - New Media Art and Aesthetics Research institute
Vidzeme University of Applied Sciences - Regional Economy and Tourism Research institute
Vidzeme University of Applied Sciences - Scientific Institute (ViAZI) University
Vidzeme University of Applied Sciences - Societal Resilience Research Group University
Vidzeme University of Applied Sciences - Strategic Communication and Media University
Vidzeme University of Applied Sciences - Sustainable and Circular Economy University

Vidzeme University of Applied Sciences - ViA VR-Lab University

Riga Technical University - Institute of Biomaterials and Bioengineering

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Professor

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CORE TEAM

- **Dagnija Loča** - drug delivery, biomaterials
- **Kristaps Rubenis** - ceramics processing
- **Jana Vecstaudža** - calcium phosphate synthesis

KEYWORDS

Biomaterials · Bone · Ceamics · Composites · 3D printing · Synthesis · Nanomaterials

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Manufacturing · Natural Resources

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Training & capacity building

Seeks partners among: SMEs · Universities · Large industry · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary expertise combining materials science, chemistry, bioengineering and cell biology, with particular strength in calcium phosphate bioceramics, bone cements, polymer-ceramic composites, hydrogels and drug- and ion-delivery systems for bone and soft-tissue regeneration.

- **Synthesis & formulation -** controlled precipitation and reactor synthesis, nanoparticle and granule production, composite formulation.
- **Processing -** extrusion, granulation, spray- and freeze-drying, pressing, room-temperature consolidation, sintering up to 1650 °C.
- **Characterisation -** XRD, FTIR, SEM/EDS, UPLC, particle size and porosity analysis, rheology, thermal analysis.
- **Biological evaluation -** in vitro cytocompatibility and cell-material interaction studies, implant prototyping.

SELECTED PROJECTS

BBCE - Baltic Biomaterials Centre of Excellence

Horizon 2020 Teaming Phase 2 · 2020-2027 · €15 m · coordinator

Coordinates a partnership integrating leading Latvian biomedical institutions with AO Research Institute Davos and FAU Erlangen-Nürnberg, strengthening infrastructure and translating bone regeneration technologies into application.

ImplantNano - nano-delivery system for one-shot regenerative therapy of peri-implantitis

EuroNanoMed III ERA-NET Cofund · 2020-2023 · transnational coordinator

Led an international consortium developing gallium-substituted calcium phosphate nanoparticles in biodegradable polymers, combining controlled antibacterial delivery with bone regeneration.

RISEus2 - rising competitiveness of early-stage researchers and research management

Horizon 2020 Twinning · 2021-2023 · coordinator

Led cooperation with biomaterials centres in Switzerland, France and Germany, covering researcher training and mobility, research management and industry engagement.

RESEARCH INFRASTRUCTURE & FACILITIES

An integrated infrastructure covering the full biomaterial development workflow: synthesis and processing laboratories (reactor synthesis, pilot-scale extrusion, spray- and freeze-drying, granulation, pressure-assisted room-temperature consolidation, thermal processing to 1650 °C); materials characterisation (XRD, FTIR, SEM/EDS, UPLC, laser diffraction, porosimetry, rheology, thermal analysis); and biological testing with Class II biosafety cabinets, CO_2 incubators, fluorescence microscopy and plate readers.

EXPERTISE WE ARE LOOKING FOR

Industrial partners developing new materials and technologies, and research organisations with complementary expertise in bone regeneration, drug delivery and implant development.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Clinical and Preventive Medicine

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CORE TEAM

· **Inese Poļaka** - leading researcher
· **Signe Mežinska** - leading researcher
· **Ilmārs Stonāns** - lead scientist
· **Danute Ražuka-Ebela** - researcher

KEYWORDS

Cancer biomarkers · Cancer screening · Volatile Organic Compounds · AI and machine learning · Biobanking · Biomedical ethics

DOMAINS OF APPLICATION

Healthcare · Medical Technologies

PROFILE AT A GLANCE

TRL: 4-6
Horizon Europe experience: Funded as a project partner · Funded as a project coordinator
Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication
Seeks partners among: Universities · SMEs · Hospitals · Research infrastructures · Large industry

WHAT WE CONTRIBUTE

Expertise in public health and disease prevention, including implementation research and population studies. Work covers cancer screening and oncoprophylaxis, volatile markers for disease detection, the human microbiome, biomedical ethics, biobanking, AI models for diagnostics, and infections including sepsis, tuberculosis and H. pylori.

- **Public health -** disease prevention, implementation research and population studies.
- **Cancer screening -** screening and oncoprophylaxis, and volatile markers for cancer and other disease detection.
- **Microbiome -** human microbiome studies, including in cancer and the role of diets.
- **Biobanking and ethics -** biobanking and biomedical ethics.
- **AI and infections -** AI models for diagnostic needs, and work on infections including sepsis, tuberculosis and H. pylori.

SELECTED PROJECTS

EUCanScreen - implementation of cancer screening programmes
EU4Health · coordinator
Coordinates work on the implementation of cancer screening programmes.

AIDA - an artificially intelligent diagnostic assistant for gastric inflammation
Horizon Europe · task leader
Leads tasks within the development of an artificially intelligent diagnostic assistant for gastric inflammation.

LUCIA - understanding lung cancer related risk factors and their impact
Horizon Europe · participant
Participates in work on lung cancer related risk factors and their impact.

RESEARCH INFRASTRUCTURE & FACILITIES

Biobank; laboratory for serological testing and sample preprocessing; full-slide histology scanner PANNORAMIC® 250 FLASH III.

EXPERTISE WE ARE LOOKING FOR

Partners with expertise in bioinformatics, functional microbiome research and regulatory affairs of medical devices.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Institute of Electronics and Computer Science (EDI)

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CORE TEAM

- **Modris Greitāns** - signal processing, institute director
- **Rihards Novickis** - embedded systems
- **Jānis Judvaitis** - IoT and testbeds
- **Kaspars Sudars** - AI and data analytics

KEYWORDS

CCAM · Robotics · Embedded Systems · Smart Sensors/Systems · Energy Modelling · Grid Resilience · Energy Communities

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Energy · Smart Grids · Manufacturing · Transport & Mobility · Defence

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project coordinator · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Living labs

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs

WHAT WE CONTRIBUTE

Established in 1960, EDI is Latvia's leading research institute in smart embedded cooperative systems. Its mission is to perceive the world and design a better future by creating new knowledge, developing innovative technologies and demonstrating their practical value in real-life applications.

- **Embedded & cyber-physical systems -** smart sensors, IoT, edge computing, wireless communication, power electronics.
- **Perception & robotics -** advanced perception, cooperative radar, computer vision, CCAM, robotics and automation.
- **AI & machine learning -** federated learning, AI on edge devices, data-driven analytics for industry and mobility.
- **Energy systems -** energy modelling, grid resilience, energy communities, digitalised power electronics.

SELECTED PROJECTS

MOSAIC - essential electronic components and systems for an automated digital future

Horizon Europe Chips JU · partner

Develops cooperative radar perception architecture, identifying functional subsystems for efficient visual information processing and remote data acquisition.

AIMS5.0 - AI for sustainable manufacturing

Horizon Europe Chips JU · WP lead

Develops a modular, reconfigurable AI-based robotic system automating conveyor feeding of randomly distributed bottles of different size, weight and type.

PowerizeD - digitalised and intelligent power electronics

Horizon Europe Chips JU · use case lead

Develops federated learning algorithms and concepts for running AI on edge devices, improving performance from combined learning while preserving privacy.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratories and demonstration environments for embedded systems, robotics, perception and energy research; the full inventory is published at edi.lv/en/available-infrastructure.

EXPERTISE WE ARE LOOKING FOR

Strong consortia and coordinators preparing proposals who need a trusted R&D partner with an excellent reputation, responsible project implementation and a track record of delivering high-quality inputs on time.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Faculty of Medicine and Life Sciences

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Kristaps Jaudzems

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CORE TEAM

- **Vita Rovīte** - Vice-Dean for Research
- **Mārcis Leja** - Institute of Clinical and Preventive Medicine
- **Una Riekstiņa** - Department of Pharmaceutical Sciences

KEYWORDS

Biomedicine · Personalized Medicine · Drug Development · Biotechnology · Bioeconomy

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Education · Defence · Advanced Materials · Biodiversity

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

A faculty of 10 departments and 3 research institutes with more than 2 100 students and 313 full-time staff, spanning clinical medicine and public health, personalised medicine, drug and technology development, biodiversity and biotechnology, and analytical and sustainable chemistry.

- **Clinical medicine & public health -** digestive tumour screening (GISTAR), cardiovascular interventions (OCTOBER trial), health literacy and national oncology policy.
- **Personalised medicine -** diabetes risk prediction and continuous glucose monitoring (LatDiane), molecular epidemiology of drug-resistant bacteria, neurodegenerative disease.
- **Drug & technology development -** point-of-care devices, organ-on-a-chip models, ML models for multiple sclerosis, pharmaceutical crystallography with industry partners.
- **Biodiversity & biotechnology -** avian and plant ecology, wind energy bird risk mapping, genome editing (EditGrass4Food), microbial biotechnology.

SELECTED PROJECTS

EUCanScreen - implementation of cancer screening programmes

EU4Health · main coordinator

Coordinates a European joint action on the implementation and quality of cancer screening programmes.

TOGAS - towards gastric cancer screening implementation in the European Union

EU4Health · main coordinator

Coordinates work towards evidence-based gastric cancer screening across EU member states.

RESEARCH INFRASTRUCTURE & FACILITIES

A multidisciplinary infrastructure across 10 departments and 3 institutes, including the House of Science, House of Nature, Institute of Biology, field stations at Kolka, Pape and Engure, and Pauls Stradiņš Clinical University Hospital.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, clinical centres, pharmaceutical companies, biotech startups and health policy organisations working on personalised medicine, biomarker discovery, digital health, oncology, cardiovascular diagnostics, organic synthesis, green biotechnology and environmental risk modelling.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Centre for Diaspora and Migration Research (CMDR)

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Inta Mieriņa

Tenured Professor, Leading Researcher

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CORE TEAM

- **Inese Šūpule** - migration and integration policy
- **Oksana Žabko** - labour migration, workplace inclusion
- **Mārtiņš Kaprāns** - diaspora and minority studies
- **Ilze Koroļeva** - diaspora and youth studies

KEYWORDS

Diaspora Studies · Migration Studies · Transnationalism · Migration Policy · Societal Cohesion · Minority Research · Qualitative Research

DOMAINS OF APPLICATION

Public administration · Education · Cultural & Creative Industries

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project partner · Submitted as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Stakeholder engagement

Seeks partners among: Universities · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary centre in diaspora and migration studies, combining social sciences and humanities with policy-oriented research and stakeholder engagement. Brings research design and methodology, comparative and country-level studies, data collection and analysis, policy recommendations, dissemination and research-based capacity building to international projects.

- **Migration & diaspora -** history and geography of migration and diaspora, identity, transnationalism and translocality, education, social memory and integration.
- **Research methods -** qualitative, quantitative and mixed-methods research, including surveys, interviews, focus groups, comparative studies and policy analysis.
- **Policy impact -** evidence-based policy analysis and recommendations on migration, diaspora engagement, integration and related societal challenges.
- **Stakeholder engagement -** cooperation with public authorities, diaspora organisations and civil society through consultations, co-creation and knowledge exchange.

SELECTED PROJECTS

WICE - Welcoming Immigrants in Central and Eastern Europe

ERC Consolidator Grant · 2025-2029 · principal investigator Inta Mieriņa

Research on lessons from Russia's invasion of Ukraine for welcoming immigrants in Central and Eastern Europe.

LIFT - economic integration of the Nordic-Baltic region

EEA and Norway Grants · 2021-2023

Study of the economic integration of the Nordic-Baltic region through labour, innovation, investments and trade.

RECOM - reception of migrants under conditions of uncertainty

Latvian Council of Science · 2024-2026

Research on the management and local-level inclusion of migrants under conditions of uncertainty.

RESEARCH INFRASTRUCTURE & FACILITIES

Research datasets and resources on Latvian diaspora, migration and integration, including survey and qualitative research data, complemented by established networks for reaching diaspora communities and relevant stakeholders in Latvia and abroad. These resources can support comparative research, secondary data analysis, stakeholder engagement and new empirical data collection.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, public authorities and NGOs with complementary expertise in migration, diaspora, social inclusion, minority research, disinformation and FIMI, resilience, education, digital research methods and policy innovation, particularly for comparative and cross-country research.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Grant Office

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Elina Priede

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CORE TEAM

- **Elina Priede** - pre-award management, Horizon Europe
- **Marina Zaharova** - national and EU project management
- **Kristine Auzina** - national and EU project management

KEYWORDS

Research management · Pre-award · Post-award · Research management capacity building

DOMAINS OF APPLICATION

Research management

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Stakeholder engagement · Dissemination & communication · Training & capacity building

Seeks partners among: Universities · Research institutes

WHAT WE CONTRIBUTE

Multidisciplinary research institute with experience in competitive European funding, including 22 Horizon 2020 and 18 Horizon Europe projects (10 coordinated) and 31 COST Actions. The Grant Office contributes research management expertise: pre- and post-award management, training and capacity building, coordination, and communication and dissemination.

- **Pre-award management -** pre-award management of Horizon Europe projects, and management of national and EU-funded projects.
- **Post-award management -** pre- and post-award management of international projects, including project coordination.
- **Research management training -** training and capacity building in research management, including mentoring, e-learning and international internships for academic and non-academic staff.
- **Research management networks -** active in the European Association of Research Managers and Administrators (EARMA) and the BestPrac thematic group, and in developing a national research management network in Latvia.
- **Communication & dissemination -** stakeholder engagement and communication and dissemination activities in international research management projects.

SELECTED PROJECTS

Natalion - Natural Products Research as a Driver for Excellence in Innovation

HORIZON-WIDERA-2022-TALENTS-01 · 2023-2027 · coordinator

Fosters innovation excellence at NIRI (formerly the Latvian Institute of Organic Synthesis), with training in research management, science communication, technology transfer and entrepreneurial skills.

A4L_BRIDGE - Alliance4Life Bridging the Research and Innovation Gap in Life Sciences

HORIZON-WIDERA-2023-ACCESS-03 · 2024-2028 · partner

Involved in developing an industry relationship platform and an educational matrix (mentoring, e-learning, international internships) for academic and non-academic staff, including research managers.

RM ROADMAP - Research Management Framework Conditions for the European Research Area

HORIZON-WIDERA-2021-ERA-01-20 · 2022-2025 · voluntary contributor

Through its Latvian Project Ambassador, contributed voluntarily to co-creating a bottom-up research management roadmap and promoting training, networking, funding and mobility opportunities.

EXPERTISE WE ARE LOOKING FOR

Universities and research institutes with expertise in research management, including pre- and post-award management of international projects, stakeholder engagement, and training and capacity building, as coordinators or partners for Horizon Europe collaborative projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

LMT

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CORE TEAM

· **Krišjānis Nesenbergs** - cybersecurity
· **Armands Meirāns** - defence
· **Mārtiņš Zeps** - AI
· **Kristaps Bergfelds** - sensors

KEYWORDS

5G/6G networks · Non-terrestrial networks (NTN) · Satellite connectivity · Cybersecurity · Cyber-physical testing · Post-quantum cryptography · Autonomous systems (UAS/UGV)

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Energy · Transport & Mobility · Defence · Digital Technologies · Artificial Intelligence

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation · Living labs

Seeks partners among: Universities · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in 4G/5G/6G and satellite connectivity, cybersecurity, autonomous systems integration and IoT sensor networks, applied through field trials, prototypes and demonstrations in live networks. LMT has taken part in 25 international projects since 2019, as partner and coordinator, and works alongside major defence and telecom primes.

- **Mobile networks -** 4G/5G/6G integration and testing, private 5G networks and satellite or non-terrestrial connectivity.
- **Cybersecurity -** security research and cyber-physical testing, including cyber-threat prediction tools and AI-based security mechanisms.
- **Autonomous systems -** integration of unmanned aerial and ground systems (UAS/UGV) with tactical communications.
- **IoT & sensors -** IoT sensor networks and connectivity prototypes.

SELECTED PROJECTS

VANTAGE - Vertical Autonomous Next-generation Tactical Aerial European drone

European Defence Fund (EDF) · consortium coordinator

Leads an 8-partner consortium across 6 countries developing a next-generation tactical unmanned aerial system, responsible for overall project management and partner coordination.

iMUGS2 - Integrated Modular Unmanned Ground System 2

European Defence Fund (EDF) · work package leader

Within a 29-partner consortium, leads the work package on 4G/5G tactical communications and control systems for combat-ready unmanned ground vehicles.

AUGMENTED CCAM - infrastructure for connected, cooperative and automated mobility

Horizon Europe · technical partner

In a 26-partner project across 13 countries, researched and tested 5G-based positioning services as an alternative to satellite (GNSS) positioning, together with Ericsson.

RESEARCH INFRASTRUCTURE & FACILITIES

Live 5G test environments: operational 5G networks for controlled trials, used to host NATO's Digital Backbone eXperimentation (DiBaX) exercises and 5G COMPAD defence communications demonstrations in Riga. Hybrid private 5G networks in real outdoor environments, defence and security test range access, drone and unmanned systems testing, and IoT and satellite connectivity prototypes. Facilities are made available to consortium partners for joint testing, validation and demonstration.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, defence and security agencies, SMEs and technology providers with expertise in AI and machine learning, post-quantum cryptography, cyber-physical security, autonomous systems software, non-terrestrial networks, sensors and IoT hardware, and robotics.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Computational Systems Biology Group

UNIVERSITY · RIGA, LATVIA · BIOSYSTEMS.LV



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Tenured Professor

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CORE TEAM

- **Janis Kurlovics**
- **Rui Tavares**
- **Liva Civkule**

KEYWORDS

Precision medicine · Mathematical modelling · Systems biology · Omics integration · Genome-scale metabolic models · Pathway-scale kinetic models · Combinatorial therapy

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Artificial Intelligence · Biotechnology

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Data management · AI / Digital tools · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Hospitals · Research infrastructures · NGOs

WHAT WE CONTRIBUTE

Integration of transcriptomics, proteomics and metabolomics data into genome-scale metabolic models to identify sample-specific metabolic flux distributions, supporting more specific diagnosis and prediction of therapeutic effects. Also develops pathway-specific kinetic models for mechanistic analysis.

- **Omics integration -** combining transcriptomic, proteomic and metabolomic data in genome-scale metabolic models for precision medicine and biomarker identification.
- **Therapy prediction -** sample-specific flux analysis to support diagnosis, prediction of therapeutic effects, combinatorial therapy and drug repurposing.
- **Kinetic modelling -** pathway-specific ordinary differential equation models of metabolic, signalling, regulatory and other processes for mechanistic analysis.
- **Pharmacokinetic modelling -** kinetic model estimating dose-dependent metformin distribution over human tissues, for personalised optimisation of therapy.
- **Bioprocess modelling -** genome-scale metabolic modelling linked to bioreactor control, including microbial valorisation of waste lipids into biosurfactants.

SELECTED PROJECTS

NALUNG - multi-omics prediction of neoadjuvant treatment response in resectable NSCLC

European Partnership PerMed · 2026-2029

Integrates omics data into genome-scale models to identify biomarkers for prediction of therapeutic outcome.

SysMito - mitochondrial metabolism as a driver of inflammation in cardiovascular disease

Latvian Council of Science · 2024-2026 · project leader

Integrates transcriptomics into central-metabolism-scale human models to identify metabolic reprogramming in the development of cardiovascular disease.

Mathematical model of pharmacokinetics for personalised metformin therapy

Latvian Council of Science · 2018-2020 · project leader

Developed a kinetic, ODE-based pharmacokinetic model to estimate dose-dependent metformin distribution over different human tissues.

GenCon - genome-scale metabolic modelling linked bioreactor control system

ERDF funded project · 2021-2023 · project leader

Led development of a bioreactor control system linked to genome-scale metabolic modelling.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Tet

LARGE ENTERPRISE · RIGA, LATVIA · TET.LV



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CORE TEAM

· **Uldis Libietis** - head of cybersecurity, CISO

· **Tet R&D team** - cloud, data centre and network experts assembled per project

KEYWORDS

Cybersecurity · Critical digital infrastructure · Artificial Intelligence · Cloud and Data centers · Quantum communication infrastructure · PQC · QKD · Cryptography

DOMAINS OF APPLICATION

Healthcare · Transport & Mobility · Public administration · Cybersecurity · Artificial Intelligence · Digital Technologies · Defence

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Pilot implementation · Stakeholder engagement · Exploitation · Dissemination & communication · Data management

Seeks partners among: Universities · Large industry · Hospitals · Research infrastructures · Public authorities · NGOs · End users · SMEs

WHAT WE CONTRIBUTE

One of Latvia's leading critical digital infrastructure operators, providing a secure infrastructure base through Tet Cloud in Latvia and Frankfurt, seven certified data centres, a nationwide optical fibre network and extensive cross-border connectivity to Estonia, Lithuania, Finland, Sweden, Poland and Germany - complemented by a Security Operations Centre, key management, post-quantum cryptography and quantum key distribution.

- **Cybersecurity -** SOC services, cybersecurity for critical infrastructure operators, supplier to ENISA and CERT.LV.
- **Quantum-safe security -** post-quantum cryptography, QKD equipment and key management systems in operational networks.
- **Cloud & data centres -** seven certified data centres with AI infrastructure; Uptime Tier III Design and Facility, PCI DSS, ISO 27001 and ISO 9001.
- **Connectivity -** national and cross-border optical fibre, 5G corridors and large-scale pilot deployments.
- **Sector experience -** critical infrastructure operators, military services, public administration, healthcare, finance and energy.

SELECTED PROJECTS

QARC - quantum-resistant cryptography in practice

Horizon Europe CL3-2024-CS-01-02 · No. 101225691 · partner, WP, task and pilot leader

Deploys post-quantum cryptography into real-world infrastructure, developing hybrid schemes, cryptographic agility and side-channel resistance, piloted with national cybersecurity authorities.

Lat-LitQN - Latvia-Lithuania cross-border quantum communication infrastructure

CEF Digital EuroQCI · No. 101249607 · coordinator and pilot leader

Builds and pilots the first cross-border quantum link between Latvia and Lithuania, deploying QKD devices and trusted nodes and validating a quantum key management system prototype.

5G-BALTICS - uninterrupted 5G coverage across the Via Baltica corridor

CEF Digital 5G Corridors · No. 101181148 · partner, WP and task leader

Delivers 5G coverage along the 663 km corridor, including 195 km of optical infrastructure and up to 27 new 5G sites in Latvia, with focus on cross-border continuity.

RESEARCH INFRASTRUCTURE & FACILITIES

Seven data centres with AI infrastructure capability, the Tet Cloud platform, a Security Operations Centre, national and cross-border optical fibre networks, QKD equipment and a key management system platform.

EXPERTISE WE ARE LOOKING FOR

Consortium coordinators and industry and academic partners in Tet's priority R&D areas: cybersecurity, quantum-safe security, critical digital infrastructure, and AI applications and infrastructure.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Solid State Physics, Thin Films Laboratory

RESEARCH INSTITUTE · RIGA, LATVIA · CFI.LU.LV



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CORE TEAM

· **Juris Purans**
· **Smagul Karazhanov**
· **Edgars Butanovs**

KEYWORDS

Thin films · Functional coatings · Magnetron sputtering · Pulsed laser deposition · Roll-to-roll coating · Plasma diagnostics · Mixed-anion materials

DOMAINS OF APPLICATION

Healthcare · Energy · Manufacturing · Education · Electronics & Photonics · Space Technologies · Advanced Materials

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in thin films, functional coatings and vacuum-deposition technologies, specialising in oxides, nitrides, hydrides and mixed-anion materials for smart windows, optoelectronics, UV detection, protective surfaces and antimicrobial applications. Offers scalable roll-to-roll deposition, characterisation, process optimisation, prototyping and validation.

- **Vacuum deposition -** DC, pulsed-DC, RF and high-power impulse magnetron sputtering (HiPIMS), pulsed laser deposition, thermal and electron-beam evaporation and metal-organic CVD (MOCVD), with optical emission spectroscopy monitoring.
- **Roll-to-roll coating -** scalable deposition on flexible substrates, supporting the move from laboratory-scale development to industrially relevant coating processes and prototypes.
- **Characterisation -** structural, compositional, optical, electrical and functional characterisation combined with process-structure-property analysis.
- **Functional materials -** oxide, nitride, hydride and mixed-anion thin films for smart windows, optoelectronics, UV detection, protective surfaces and antimicrobial coatings.

SELECTED PROJECTS

SWEB - Smart Windows for Zero Energy Buildings

Horizon Europe, ERA Chairs · coordinator

Contributes chromogenic materials, magnetron-sputtering processes and scalable coating technologies for energy-efficient smart windows, alongside research-capacity building and industrial cooperation.

SAFEPOWER - Safer and More Reliable Wide- and Ultra-Wide-Bandgap-Based Power Electronics

Horizon Europe, Cluster 5 · project partner

Gallium and nickel oxide thin-film deposition, composition and defect control, and structural, optical and electrical characterisation for next-generation power devices.

RESEARCH INFRASTRUCTURE & FACILITIES

Thin-film deposition facilities for magnetron sputtering, pulsed laser deposition, thermal and electron-beam evaporation, and MOCVD, with plasma process monitoring by optical emission spectroscopy.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, technology centres, SMEs and industrial partners with complementary expertise in functional materials, coating technologies, device development, modelling, characterisation, process scale-up and industrial validation.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy

UNIVERSITY · RIGA, LATVIA · SCIENCE.RSU.LV

RSU Faculty of Pharmacy Leading Research Group



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Pharmaceutical scientist, group leader

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CORE TEAM

- **Līga Pētersone** - formulation
- **Andrejs Sitovs** - pharmacokinetics
- **Zoltán Márk Horváth** - solid-state characterisation
- **Kirils Kukuls** - process technology

KEYWORDS

Pharmaceutical technology · Nutraceuticals · Formulation · Drug delivery systems · Tablets · Capsules · Pellets · Granules

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Manufacturing · Advanced Materials · Natural Resources · Food Systems · Agriculture · Biotechnology

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet

Can take on: Scientific leadership · WP leadership · Proposal writing · Task leadership · Pilot implementation · Dissemination & communication · Data management · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Hospitals · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

A pharmaceutical technology group working on formulation, dosage form design, drug delivery systems and analytical method development - with a technology base that covers the full path from powder processing to finished solid dosage forms.

- **Solubility & bioavailability -** improving poorly soluble drugs in oral dosage forms; amorphisation and drug-polymer interaction.
- **Dosage form design -** pharmacokinetic optimisation, abuse-deterrent and other "special" oral dosage forms, long-acting implants, 3D printing.
- **Continuous manufacturing -** hot-melt extrusion, twin-screw melt granulation, roll compaction, compaction simulation, fluid-bed and pan coating.
- **Characterisation -** solid-state analysis, vacuum-compression moulding sample preparation, rheology, particle size distribution, spectroscopy and chromatography.
- **Industry delivery -** contract development and technology transfer with pharmaceutical and chemical companies in Japan, Poland and Ukraine.

SELECTED PROJECTS

Sugar alcohols as binders in twin-screw melt granulation

RSU-LSPA consolidation grant · 2024-2026 · principal investigator

Develops high-drug-load immediate-release tablets with superior mechanical properties, funded through the EU Recovery and Resilience Facility.

Amorphisation and dissolution of poor glass formers

Latvian Council of Science FLPP · lzp-2024/10037 · 2025-2027 · principal investigator

Elucidates the mechanism of amorphisation and dissolution as a function of drug-polymer interaction and preparation method.

Microcrystalline cellulose type and roll compaction force in tablet manufacturing

Asahi-Kasei (Japan) · industrial contracts · 2025-2026 · principal investigator

Studies how MCC grade and compaction force affect granule and tablet properties for a high dose of poorly compactible substance.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratory of Finished Dosage Forms with a full pharmaceutical technology toolkit: rotary evaporation, air-jet micronisation, high-shear and fluid-bed processing, hot-melt extrusion, vacuum-compression moulding, roll compaction, compaction simulation, tableting, fluid-bed and pan coating, capsule filling and packaging.

EXPERTISE WE ARE LOOKING FOR

Scientific and industrial partners for win-win collaboration in pharmaceutical technology and formulation.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Digital Health and XR

UNIVERSITY · VALMIERA, LATVIA

VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

- **Anna Broka** - social welfare, public policy
- **Katrīne Kūkoja** - public health, survey methodology
- **Mairita Zaķe** - system and simulation modelling

KEYWORDS

Digital Health · XR/VR/AR in Healthcare · User-Centred Design · Clinical & Real-World Validation · Health Technology Implementation · Patient Experience & Patient Journey · Public Health & Prevention

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Education · Digital Technologies · Artificial Intelligence · Robotics & Automation · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

Cross-disciplinary expertise in people-centred digital health and well-being, combining health technology, public health, social care, user-centred design, XR/VR, accessibility and quality assurance. The team supports co-design, validation, pilots and implementation research, and brings modelling of complex sociotechnical systems, digital twins and data-driven decision support.

- **Digital health and XR/VR -** web, mobile, IoT and XR/VR/AR solutions implemented and validated in clinical and real-world environments, including wearables, biofeedback and AI/ML.
- **User-centred development -** needs analysis, co-design with patients and professionals, usability and user-experience evaluation, and accessibility for vulnerable groups.
- **Mixed-methods research -** surveys, instrument adaptation, cognitive testing, interviews, thematic and statistical analysis, and implementation research.
- **Systems modelling -** system and simulation modelling, digital twins, scenario analysis and data-driven decision support.

SELECTED PROJECTS

Virtual Gym - virtual reality and sensor-supported physical activity and rehabilitation

Erasmus+ · project lead and principal investigator

Development and evaluation of technology-supported approaches to physical activity and rehabilitation, combining immersive technologies with user-centred development and real-world evaluation.

Mixed reality exercise for non-specific chronic low back pain

ERDF · principal investigator

Applied digital health study of mixed reality for physical exercise in people with chronic non-specific low back pain, covering user-centred intervention development, usability and clinical and real-world validation.

RESEARCH INFRASTRUCTURE & FACILITIES

XR/VR/AR systems (Meta Quest, Microsoft HoloLens, Magic Leap, HTC Vive/XR, Varjo); physiological and biosignal equipment (sEMG, ECG, respiration, blood pressure, NIRS, glucose monitoring); wearable sensors (Hexoskin, Movesense, biosignalsplux); motion capture; Tobii eye-tracking; spatial/UWB tracking; and 360° video and audio capture, supported by VR-ready computing.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, healthcare and rehabilitation providers, municipalities, social-care bodies, NGOs, SMEs and technology developers.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Institute for Environmental Solutions

RESEARCH INSTITUTE · PRIEKULI, LATVIA · VRI.LV



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CORE TEAM

- **Ilva Nakurte** - analytical chemistry, chromatography
- **Laura Pastare** - bioenergy, sustainability assessment
- **Andrea Primavera** - medicinal and aromatic plants, agronomy

KEYWORDS

Remote sensing · Earth observation · Environmental monitoring · Habitat mapping · Precision agriculture · Forest monitoring · Geospatial data analysis

DOMAINS OF APPLICATION

Defence · Digital Technologies · Artificial Intelligence · Space Technologies · Smart Cities · Biodiversity · Forestry

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Living labs · Pilot implementation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

An independent, interdisciplinary research institute working on the sustainable management of natural resources, with its own airborne remote sensing platform and analytical laboratories - able to take a consortium from data acquisition to validated, decision-ready outputs.

- **Earth observation -** airborne, UAV and Copernicus data acquisition, multi-sensor fusion, ML classification, time-series and change detection.
- **Environment & biodiversity -** habitat mapping and modelling, biotope expert assessment, nature conservation monitoring.
- **Forestry & agriculture -** data-based forest inventory and health assessment, logging monitoring, smart farming for medicinal and aromatic plants.
- **Phytochemistry -** quality, safety and contaminant research in medicinal plant value chains (GC-MS, LC-UV-MS, MP-AES).

SELECTED PROJECTS

ScaleAgData - scaling agricultural sensor data for agri-environmental monitoring

Horizon Europe RIA · GA 101086355 · 2023-2026 · 27 partners, 14 countries · coord. VITO (BE)

Leads the Water Productivity Research and Innovation Lab, fusing in-situ IoT sensor data with remote sensing for irrigation decisions and early detection of crop water stress.

LIFE PeatCarbon - peatland restoration for GHG reduction in the Baltic Sea region

LIFE Climate Action · No. 101074396 · 2022-2027 · €4.43 m · LV, FI, DK, DE

Delivers the remote sensing component: airborne hyperspectral mapping of peatland vegetation as the basis for GHG emission modelling and national reporting.

RESEARCH INFRASTRUCTURE & FACILITIES

ARSENAL airborne laboratory - eight integrated sensors (UV, VNIR, SWIR, MWIR, TIR, LWIR, LiDAR, high-resolution RGB) flown from the institute's own airfield in Vidzeme; UAV fleet, ground-penetrating radar and field spectroradiometry.

EXPERTISE WE ARE LOOKING FOR

AI and machine learning for EO, sensor and IoT developers, SAR and satellite data providers, soil and hydrological modellers, and GHG flux specialists.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe			
Widening participation and strengthening the European Research Area			

AiFlo Technologies

OTHER · LATVIA · AIFLO.APP

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CORE TEAM

· **Faiyaz Kazi** - technology director
· **Shoaib Sayyed** - CRO

KEYWORDS

AI hyper-automation · Low-code platform · Business process automation · SaaS ERP · Digital transformation · Enterprise AI · Workflow automation · Cloud computing · Intelligent document processing · CRM automation

DOMAINS OF APPLICATION

Artificial Intelligence · Digital Technologies · Healthcare · Pharmaceuticals · Smart Grids · Energy · Medical Technologies · Transport & Mobility · Manufacturing · Public administration · Cybersecurity · Robotics & Automation · Smart Cities · Electronics & Photonics

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project coordinator · Through LTC's guidance, SIA "AiFlo Technologies" gains not only accelerative support from SustainX, but also the strategic positioning needed to validate their technology, demonstrate measurable environmental impact, and scale their AI solutions into broader European markets.

Can take on: AI / Digital tools · Task leadership · Pilot implementation · Living labs · Training & capacity building · Validation & testing

Seeks partners among: SMEs · Research infrastructures · End users · Large industry · Public authorities

WHAT WE CONTRIBUTE

Expertise in AI-driven workflow automation, natural language processing, intelligent process optimisation and secure data integration, using agile development, human-in-the-loop AI training, predictive modelling and user-centric design. Contributes design and deployment of scalable AI pilot systems, data analytics and coordination of digital transformation work packages.

- **AI workflow automation -** workflow automation, natural language processing, intelligent process optimisation and secure data integration.
- **Software development -** agile development, human-in-the-loop AI training, predictive modelling and user-centric system design.
- **AI pilot systems -** design and deployment of scalable AI pilots, advanced data analytics and coordination of digital transformation work packages.
- **Cloud & integration -** scalable cloud infrastructure, proprietary AI orchestration frameworks and secure API gateways for high-performance data processing and third-party software integration.
- **Cross-disciplinary strengths -** computer science, software engineering and business process management applied to the integration and evaluation of AI technologies.

SELECTED PROJECTS

TRUST-AI: Trustworthy Artificial Intelligence for Automated Public Services

Horizon Europe (Research and Innovation Action) · Technical Work Package Leader

Led the development of transparent, explainable machine learning modules and bias-mitigation frameworks for automated decision-making pipelines in cross-border public administration.

DigiProcess: Cognitive Process Automation in Manufacturing Ecosystems

Digital Europe Programme · Project Coordinator

Headed a pan-European consortium of academic and industrial partners digitizing complex supply chain workflows using intelligent process mining and adaptive automation.

RESEARCH INFRASTRUCTURE & FACILITIES

AiFlo SaaS platform: an AI-powered, low-code business automation suite covering CRM, field sales, HR and recruitment, project management and helpdesk, with a no-code workflow builder. A multi-model AI decision engine automates intent identification, data extraction and routing of inbound communications. Ready-to-deploy demonstrators (AI hiring, WhatsApp autopilot, conversational copilots, lead scoring) and a business automation living lab for prototyping and testing workflows with integrations such as Slack, HubSpot, Salesforce, Shopify and Stripe.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, municipalities, SMEs, NGOs and technology providers with expertise in AI-driven hyper-automation, low-code workflow orchestration (such as AiFlo.app), digital governance, data analytics and policy innovation, for Horizon Europe collaborative projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

AS Sadales tīkls

LARGE ENTERPRISE · RIGA, LATVIA · SADALESTIKLS.LV

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CORE TEAM

· **Pēteris Lūsis** - innovation manager
· **Rihards Sirmais** - innovation unit
· **Diāna Gauče** - development manager, network management

KEYWORDS

Smart Grids · Energy Transition · Critical Infrastructure Resilience · AI · Grid Digitalisation · Flexibility Services · DER Integration

DOMAINS OF APPLICATION

Energy · Smart Grids · Medical Technologies · Digital Technologies · Artificial Intelligence · Cybersecurity · Smart Cities

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Access to Latvia's national electricity distribution network, with more than 93,000 km of infrastructure, over 1.1 million metering points and 100% smart meter deployment, for real-world testing and validation. Expertise in smart grids, grid digitalisation, AI and big data, DER integration, flexibility services, network resilience and predictive maintenance.

- **Smart grids & flexibility -** DER integration, flexibility services and markets, load and generation forecasting, state estimation, DER management systems (DERMS) and battery storage integration.
- **AI & data analytics -** AI and big data applications, grid observability and AI-driven forecasting, such as pre-storm damage prediction.
- **Infrastructure inspection -** drone inspection, LiDAR surveying, computer vision defect detection and digital twins across more than 55,000 km of overhead network.
- **Earth observation -** satellite-based monitoring for vegetation management and critical infrastructure surveillance.

SELECTED PROJECTS

ST FLEX - Flexibility services for network congestion management

Recovery and Resilience Facility (RRF), Latvia · 2024-2026 · project lead

Flexibility platform for forecasting congestion, reserving flexibility and activating retailer and aggregator resources. Provides real network environments, smart meter data, pilots and validation.

ST ODA - AI-based pre-storm damage forecasting for distribution networks

Recovery and Resilience Facility (RRF), Latvia · 2024-2026 · project lead

Big-data and machine-learning platform predicting weather-related failures in medium- and low-voltage overhead networks. Provides operational datasets, infrastructure knowledge, model validation and deployment environments.

RESEARCH INFRASTRUCTURE & FACILITIES

A national-scale electricity distribution network (more than 93,000 km, over 1.1 million metering points, 100% smart meters) as a living lab for critical infrastructure testing.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, technology providers, critical infrastructure operators and public authorities with expertise in smart grids, AI, digital twins, DER, flexibility, storage, cybersecurity, Earth Observation, autonomous inspection, robotics and resilience.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Baltic Photonics

LARGE ENTERPRISE · GARKALNE, LATVIA · BALTICPHOTONICS.LV

Ilona Vanaga

Project manager

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CORE TEAM

- **Ainārs Ozols** - technical director
- **Pēteris Pitāns** - lead electronics engineer
- **Guntars Veckāgans** - senior mechanical and manufacturing engineer

KEYWORDS

Night-vision technologies · Gen3 image intensifiers · GaAs photocathodes · Microchannel plates · Low-light imaging · Vacuum optoelectronics · High-voltage electronics

DOMAINS OF APPLICATION

Defence · Electronics & Photonics

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry

WHAT WE CONTRIBUTE

Expertise in night-vision technologies, image intensification and electro-optical sensing under photon-limited conditions, combining semiconductor materials science, vacuum optoelectronics, optical engineering and high-voltage electronics. In consortia, contributes experimental methodology, component development, prototype integration, performance testing and work-package leadership.

- **Image intensifiers -** third-generation (Gen3) image intensifiers, gallium arsenide (GaAs) photocathodes, microchannel plates and phosphor screens, including customised tubes.
- **Photocathode processing -** wafer-processing optimisation, photocathode activation and photoemission characterisation.
- **High-voltage electronics -** compact and pulsed high-voltage power supplies, circuit simulation, transformer design, EMC and embedded electronics.
- **System integration -** component miniaturisation and integration with digital cameras and embedded sensing platforms, prototype integration and laboratory validation.

SELECTED PROJECTS

Head-worn digital night vision and sensor fusion

European Defence Fund · submitted proposal · consortium coordinator

Coordinates a six-partner consortium proposing a digital night-vision system that combines complementary sensor modalities for depth estimation and contextual information.

Passive low-light sensing for autonomous platforms

European Defence Fund · submitted proposal · partner, low-light sensing lead

Develops experimental intensified CMOS sensor heads for passive visible and near-infrared imaging, including miniaturisation, calibration and laboratory characterisation, supporting AI perception on unmanned platforms.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratory and production infrastructure for night-vision component assembly, characterisation and testing at Berģi, Garkalne Parish.

EXPERTISE WE ARE LOOKING FOR

Technology providers and system integrators in embedded computing, edge AI and detector readout electronics for night-vision and solar-blind UV-C sensing (FPGA development, embedded processors, low-noise electronics, energy-efficient AI inference).

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Baltic Satellite Service

SME · RIGA, LATVIA · FORESTRADAR.COM · GEOHUB.NET



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CORE TEAM

- **Andrei Grishanov** - EO systems and software engineering
- **Linda Gulbe-Viluma** - remote sensing, data analytics
- **Eliza Alexandru** - project development

KEYWORDS

Earth Observation (EO) · Remote Sensing · Geospatial Intelligence · GeoHub Platform · AI & Machine Learning · GIS & Spatial Analytics · Environmental Monitoring

DOMAINS OF APPLICATION

Defence · Digital Technologies · Artificial Intelligence · Smart Grids · Energy · Transport & Mobility · Public administration

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project partner · providing services for Horizon project partners

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

An SME delivering Earth observation, geospatial intelligence and digital platform solutions for environmental monitoring, climate resilience, infrastructure management and public sector decision support - bridging research and operational deployment, from methodology through pilot to sustained service.

- **GeoHub platform -** cloud geospatial intelligence platform integrating satellite, UAV, IoT and GIS data for real-time monitoring, collaborative workflows and interoperable data exchange.
- **Forest monitoring -** change and disturbance detection, biomass and health assessment from Copernicus and commercial data with AI analytics.
- **Smart Flood -** flood risk assessment, near real-time monitoring, impact mapping and decision support for emergency response and climate adaptation.
- **Utility network monitoring -** continuous monitoring of vegetation encroachment and land-use change along energy, water, transport and communication corridors.

SELECTED PROJECTS

EO-BALP - Earth Observation Baltic Platform (GeoHub)

European Space Agency · lead partner and platform developer

Built and extended the GeoHub platform for discovery, visualisation, processing and sharing of EO data and value-added services.

Automated vegetation management for overhead power lines

European Space Agency · lead partner · with the Latvian distribution system operator

AI-enabled satellite monitoring across ~60 000 km of electricity distribution infrastructure, automating vegetation risk detection and maintenance prioritisation.

RESEARCH INFRASTRUCTURE & FACILITIES

GeoHub geospatial intelligence platform (geohub.net), available to consortia as a hosting, processing and dissemination environment; testing facilities and established end-user networks in the Baltic countries and beyond for pilot deployment and validation.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Baltic Studies Centre

RESEARCH INSTITUTE · RIGA, LATVIA · BSCRESEARCH.LV

BSC BALTIC STUDIES CENTRE



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CORE TEAM

- **Elīna Dāce**
- **Emīls Ķīlis**
- **Tālis Tisenkopfs**
- **Maija Ušča**

KEYWORDS

Circular bioeconomy · Agricultural and food knowledge and innovation systems · Food system transformation · Sustainable digitalisation · Just urban · Rural and regional development · Multi-actor approach

DOMAINS OF APPLICATION

Transport & Mobility · Environment · Agriculture · Food Systems · Natural Resources · Forestry · Biodiversity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Living labs · Stakeholder engagement · Policy recommendations

Seeks partners among: Universities · SMEs · Public authorities · NGOs

WHAT WE CONTRIBUTE

Interdisciplinary, action-oriented research with policy makers, municipalities, SMEs and advisory organisations. BSC drives conceptual and methodological development, data gathering, impact assessment and participatory approaches, combining social science with environmental methods such as life-cycle assessment and food waste quantification.

- **Knowledge and innovation systems -** agricultural and food knowledge and innovation systems, and multi-actor approaches to innovation.
- **Regional development -** just urban, rural and regional development, including participatory governance.
- **Food and land systems -** food system transformation, sustainable land use and the circular (bio)economy.
- **Participatory research -** qualitative and participatory methods, stakeholder engagement, impact assessment and living labs.

SELECTED PROJECTS

CIRCLE - circular use of bioresources across agriculture, forestry and aquaculture

Baltic Research Programme, EEA grant · coordinator and research partner

Led proposal development and implementation, and coordinated the work packages on the conceptual and analytical framework, intra- and cross-sectoral circularity, and dissemination, exploitation and outreach.

PLUS CHANGE - participatory land use strategies for biodiversity, climate and social objectives

Horizon Europe · work package leader and research partner

Coordinates the work package on evidence-based instruments and incentives for changing land-use decisions, and leads the Kaigu wetland practice case in Latvia, including multi-stakeholder workshops.

FOSSNET - Pan-European Food Systems Science Network

Horizon Europe · research partner

Leads a task on guidelines, methods and tools for inclusive collaboration, coordinates the Āgenskalns market food hub territorial lab in Riga and co-leads outreach workshops for Baltic, Eastern and Southeastern member states.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Blue Siren Solutions

SME · LATVIA · BLUESIRENSOLUTIONS.LV



Marta Barone

Chair of the Board

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CORE TEAM

· **Inta Dimante-Deimantovica**
· **Barbara Massalska-Duszczyk**

KEYWORDS

Aquatic ecosystems · Water quality · Environmental monitoring · Eutrophication management · Sediment remediation · Ecosystem restoration · Sustainable water management

DOMAINS OF APPLICATION

Environment · Biodiversity · Natural Resources · Food Systems · Education

PROFILE AT A GLANCE

Horizon Europe experience: Our team members have experience as funded project partners in Horizon Europe projects through their previous research institutions

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

A newly established company with interdisciplinary expertise in aquatic ecosystems, water quality, environmental monitoring, pollution and eutrophication, citizen science and ecosystem restoration. It links environmental research with stakeholder engagement and can contribute to methodology development, monitoring, pilots, data analysis, dissemination and project coordination.

- **Water quality & monitoring -** water and sediment sampling, design of monitoring programmes, and environmental data collection and analysis.
- **Eutrophication & restoration -** development, testing and demonstration of solutions for pollution and eutrophication reduction and ecosystem restoration.
- **Citizen science -** participatory approaches, knowledge co-creation and collaboration with citizens, public authorities and local communities.
- **Pilots & demonstration -** design and implementation of pilot activities, including nature-based solutions for sustainable water management.

SELECTED PROJECTS

TRUST ALUM - building trust in target groups for ALUM treatment

Interreg Baltic Sea Region 2021-2027 · team member was project manager at lead partner

Led an international project on lake restoration with aluminium-based treatment of eutrophication, including a pilot application in Lake Velnezers, Riga, and knowledge transfer to public authorities.

BioFloat - floating islands as biodiversity pit stops and pollution cut-outs

Interreg VI-A Estonia-Latvia 2021-2027 · team member is project manager at lead partner

Leads the project testing floating islands as urban green infrastructure, piloting three islands in Latvia and Estonia to enhance biodiversity and reduce pollution, with monitoring and municipal collaboration.

RESEARCH INFRASTRUCTURE & FACILITIES

Field-based capacity for aquatic environmental monitoring and sampling, including water and sediment sampling.

EXPERTISE WE ARE LOOKING FOR

Partners for projects in aquatic ecosystem restoration, water quality, pollution and eutrophication management, biodiversity, aquaculture and nature-based solutions, with expertise in environmental engineering, chemical and biological analyses, remote sensing, modelling, AI and data analytics, sensors and water treatment technologies.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Daugavpils University - Society "Park of Intellect"

NGO · DAUGAVPILS, LATVIA · INTELEKTAPARKS.LV



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CORE TEAM

- **Oļģerts Rihlickis** - project management
- **Sandra Zariņa** - adult education
- **Ingrīda Kupšāne** - cultural studies
- **Eva Bogdāne** - science communication

KEYWORDS

Integration · Migration · Civil society · Refugees · AI · Culture · Science communication · Senior and adult education

DOMAINS OF APPLICATION

Education · Cultural & Creative Industries · Digital Technologies · Artificial Intelligence · Cybersecurity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication · Data management · AI / Digital tools

Seeks partners among: SMEs · NGOs · Research infrastructures · End users · Public authorities · Universities · Municipalities

WHAT WE CONTRIBUTE

A lifelong learning, culture and science communication society bringing expertise in language education, intercultural communication, social inclusion and community engagement, combining academic knowledge with practical work with youth, adults, seniors, third-country nationals, refugees and minority communities.

- **Education & methodology -** development of learning materials and methodologies, language acquisition, cultural orientation, volunteer training.
- **Digital education -** digital learning platforms, interactive and augmented reality activities, use of AI tools in education.
- **Media literacy -** disinformation prevention, countering hate speech, digital citizenship and social cohesion.
- **Community engagement -** stakeholder and community involvement, inclusive learning environments, pilot activities and validation.

SELECTED PROJECTS

Intercultural communication training for professionals

AMIF · No. PMIF/13.4./2024/1/01 · 2024-2026 · coordinator

Develops and delivers intercultural communication training, strengthening professionals' skills in working with culturally diverse communities.

UA-SUP - support for the integration of Ukrainian civilians in Latvia

AMIF · No. 2024.LV/NVO_UKR/028/L7 · 2025 · coordinator

Supported social and economic integration through language learning, cultural orientation, community activities and practical support.

Inclusion of third-country nationals through Latvian language learning

AMIF · No. PMIF/13.2./2023/1/10 · 2023-2026 · coordinator

Provides language learning and integration activities helping third-country nationals build language skills and connections with the host community.

RESEARCH INFRASTRUCTURE & FACILITIES

Digital research and innovation infrastructure including the MySkills cloud-based skills and networking platform and the Text Laboratory (TekstLAB) for creative writing, learning and knowledge exchange, together with a digital environment for disseminating research results and methodological materials.

EXPERTISE WE ARE LOOKING FOR

Universities, municipalities, research institutes, NGOs and SMEs interested in inclusive and connected communities - with experience in integration and migration, civil society and refugee support, AI and digital solutions, culture, science communication, adult and senior education, and youth work.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Digital Accelerator of Latvia

NGO · LATVIA · DIGITALLATVIA.LV

Līga Ignate

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CORE TEAM

- **Salvis Roga** - GovTech, public sector innovation
- **Kārlis Siliņš** - cybersecurity, digital resilience
- **Ivars Eglājs** - AI, advanced digital technologies

KEYWORDS

Digital Transformation · GovTech · Digital Innovation Ecosystems · Artificial Intelligence Adoption · Digital Skills · Public Sector Innovation · Technology Uptake

DOMAINS OF APPLICATION

Education · Digital Technologies · Defence · Artificial Intelligence · Public administration · Cybersecurity · Smart Cities

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet

Can take on: Stakeholder engagement · Dissemination & communication · Training & capacity building · WP leadership · Task leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

Expertise in digital transformation, GovTech, digital innovation ecosystems, digital skills and the practical uptake of innovative technologies. Acts as a bridge between technology providers, research organisations, public authorities, SMEs and end users, contributing pilots, stakeholder engagement, dissemination, exploitation and project coordination.

- **Digital transformation -** identification of digitalisation needs, innovation uptake and collaboration between technology providers and potential users.
- **GovTech -** engagement of public authorities, identification of public-sector challenges and piloting of innovative digital solutions in real operational environments.
- **Pilots & demonstration -** stakeholder recruitment, coordination of use cases, user engagement and validation of solutions with organisations in Latvia.
- **Skills & capacity building -** training needs assessment, development and coordination of training activities, and adoption of emerging technologies.

SELECTED PROJECTS

POLIGONS - Digital and Security Technology Skills Fund

European Social Fund Plus (ESF+) · coordinator, lead organisation

Coordinates a national initiative strengthening advanced digital and cybersecurity skills, bringing together skills development organisations and supporting training that responds to labour-market needs.

GovTech4All / GovTech4All 2.0

Digital Europe Programme · project partner

Connects public-sector organisations, innovation actors and technology providers in the European GovTech ecosystem, through stakeholder engagement, dissemination and support for scaling digital solutions.

RESEARCH INFRASTRUCTURE & FACILITIES

Access to a digital innovation ecosystem of public authorities, SMEs, technology providers, training organisations, regional stakeholders and potential end users, as part of the European Digital Innovation Hub ecosystem.

EXPERTISE WE ARE LOOKING FOR

Universities, research and technology organisations, public authorities, municipalities, SMEs, large technology companies and innovation agencies with expertise in trustworthy AI, cybersecurity, data spaces, GovTech, smart cities, human-centred technology, digital skills, technology assessment and evidence-based policy.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

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CORE TEAM

· **Project teams** - formed per project scope - senior project manager, lead software architect, AI/data analytics specialist, computer vision and sensor integration engineer, business analysis and validation expert

KEYWORDS

Artificial Intelligence (AI) · Custom Software Development · Cloud Computing · Data Analytics · Computer Vision · Digital Twins · IoT and Sensor Integration

DOMAINS OF APPLICATION

Transport & Mobility · Public administration · Defence · Digital Technologies · Artificial Intelligence · Smart Cities · Robotics & Automation

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: WP leadership · Task leadership · Pilot implementation · Living labs · AI / Digital tools

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

A technology company with more than 20 years of experience in custom software development, digital transformation, artificial intelligence, cloud technologies and data-driven innovation, designing and scaling digital solutions for complex operational, societal and infrastructure challenges across the public and private sectors.

- **Software & system engineering -** custom development, enterprise platforms, application modernisation, data integration and API development.
- **AI & analytics -** machine learning, computer vision, sensor fusion, AI-driven prediction and decision support.
- **Digital twins & simulation -** digital twin design and implementation for infrastructure and mobility.
- **Intelligent transport systems -** smart mobility, road safety solutions, traffic and infrastructure monitoring.

SELECTED PROJECTS

SMARTIN - smart digital solutions for multimodal, resilient urban infrastructure

Horizon Europe · 2025-2028 · €5.53 m · 17 partners · coord. ERTICO ITS Europe

Leads work on multimodality, dynamic space management and digitalisation uptake, including passenger transport planning tools, dynamic lane management and AI-based travel pattern modelling.

EvoRoads - a holistic safe system approach for all road users

Horizon Europe · 2024-2027 · €5.39 m · 20 partners · coord. ERTICO ITS Europe

Leads smart micromobility safety solutions and the deployment and validation of infrastructure monitoring, AI-based defect detection and digital twin technologies in Riga.

RESEARCH INFRASTRUCTURE & FACILITIES

The FITS solution - a modular software platform for data collection, integration, processing, analytics and decision support, serving as a research, demonstration and validation environment for AI, computer vision, digital twin, smart infrastructure and IoT work.

EXPERTISE WE ARE LOOKING FOR

Partners in AI and data analytics, computer vision and advanced sensing, digital twins and simulation, smart cities and ITS, road safety and vulnerable road users, sustainable and multimodal mobility, infrastructure monitoring and predictive maintenance, CCAM, IoT and edge computing, and geospatial data and mobility modelling.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Eirobaltik

SME · LATVIA · MARUSHA.LV

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CORE TEAM

· **Sofija Āboltiņa** - product development

· **Ivis Āboltiņš** - manufacturing technology

KEYWORDS

Sustainable · Research · Innovations · Cosmetics · Beauty · Projects · Management · Pilot · Solutions · Technical

DOMAINS OF APPLICATION

Manufacturing · Biotechnology · Healthcare · Pharmaceuticals · Natural Resources

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: No experience yet

Can take on: Task leadership · Pilot implementation · Validation & testing

Seeks partners among: SMEs · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

A small enterprise in sustainable beauty and cosmetics offering pilot implementation and evaluation of sustainable solutions, with cross-disciplinary strengths in product research management and in the implementation and evaluation of technical solutions in cosmetics manufacturing.

- **Sustainable cosmetics -** research and production of natural and sustainable beauty products.
- **Pilot implementation -** testing and evaluation of sustainable solutions in a working manufacturing setting.
- **Product development management -** management of new product research and of technical solutions in manufacturing.

SELECTED PROJECTS

Sustainable solutions in natural cosmetics and beauty

Company-led development and pilot work

Evaluation and pilot implementation of sustainable solutions in natural cosmetics, including management of new product research and of technical solutions in manufacturing.

RESEARCH INFRASTRUCTURE & FACILITIES

Testing facilities for filling and pressing of beauty products, together with established cooperation with a range of laboratories for analysis and studies.

EXPERTISE WE ARE LOOKING FOR

Research institutes, SMEs, NGOs and technology providers with expertise in AI, sustainability and innovation in the natural cosmetics and beauty sector.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

EKA University of Applied Sciences

UNIVERSITY · RIGA, LATVIA · AUGSTSKOLA.LV



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CORE TEAM

· **Jelena Titko**
· **Kristine Uzule**
· **Jelena Budanceva**

KEYWORDS

Sustainability and Green Transition · Entrepreneurship and Innovation · Digital Transformation · Creative Industries · Education and Skills · Social Inclusion · Consumer Behaviour

DOMAINS OF APPLICATION

Education · Cultural & Creative Industries · Digital Technologies

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement

Seeks partners among: Universities · SMEs · Research infrastructures · Public authorities · NGOs

WHAT WE CONTRIBUTE

Cross-disciplinary expertise in business and management, sustainability, entrepreneurship, education, social sciences, digital technologies and creative industries. Offers qualitative, quantitative and mixed-method research, stakeholder engagement and co-creation, pilot design, training, impact evaluation and dissemination in European projects on sustainability, digital education and inclusion.

- **Research methods -** qualitative, quantitative and mixed-method research, surveys, interviews, focus groups, case studies, stakeholder and policy analysis, and statistical and bibliometric analysis.
- **Behavioural research -** consumer behaviour, UX/UI testing and eye-tracking studies using Smart Eye AI-X and iMotions software.
- **VR & neurotechnology -** research on human-computer interaction, cognitive processes and immersive learning using VR systems and ECG/EKG sensors.
- **Entrepreneurship & education -** entrepreneurship education, digital and inclusive education, capacity building and Train-the-Trainer activities.

SELECTED PROJECTS

GREENENTRE4DEAF - green entrepreneurship education for deaf and hard-of-hearing people

Erasmus+ KA220-HED · project partner · task leader

Co-leads project management and co-design activities with higher education professionals, deaf and hard-of-hearing learners and green entrepreneurs, and leads a Business Model Canvas-based green enterprise tool.

Eco-Escaper - digital escape rooms for climate literacy education

Erasmus+ KA220-SCH · project partner · work package leader

Leads development of the Gamified Online Teacher Ecosystem for educators using digital escape rooms, and contributes teacher guidance, quality assurance, risk planning and the sustainability strategy.

RESEARCH INFRASTRUCTURE & FACILITIES

Consumer Behaviour Research Lab (Smart Eye AI-X eye-tracking and iMotions), VR Neurotechnology Lab with VR and ECG/EKG sensors, digLAB for digital game and VR prototyping and testing, and research software including NVivo, Jamovi, VOSviewer and SmartPLS.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, technology providers, public authorities, municipalities, NGOs and industry with expertise in sustainability, entrepreneurship and innovation ecosystems, digital technologies and AI, education, social inclusion, creative industries, behavioural research, UX/UI and VR.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Empyrio

OTHER · LATVIA · EMPYRIO.COM



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CORE TEAM

· **Pavel Sics**
· **Andris Kronbergs**
· **Julija Novarro**

KEYWORDS

Sewage sludge mono-incineration · Toroidal fluidized-bed thermal processing · PFAS and toxic contaminant destruction · Energy-positive waste-to-energy · High-moisture biomass drying · Compact containerized utility systems · Circular phosphorus precursor ash (P-Ash)

DOMAINS OF APPLICATION

Smart Cities · Environment · Waste water management

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Pilot implementation · Scientific leadership · Living labs · Stakeholder engagement · Dissemination & communication

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Engineering of compact, decentralised thermal systems that reduce organic sludge volume and destroy PFAS, microplastics and pathogens, with recovery of phosphorus-rich ash. The team has led on-site pilot deployment and validation at TRL 6-8 and combines thermal engineering, environmental chemistry, digital automation, regulatory policy and commercial development.

- **Thermal sludge utilisation -** compact decentralised systems for sludge volume reduction, with energy-positive drying and thermal processing that runs without external fuel at steady state.
- **Contaminant destruction -** thermal treatment for complete destruction of PFAS, microplastics and pathogens, with multi-stage flue gas purification for EU air quality compliance.
- **Resource recovery -** secondary recovery of phosphorus-rich ash from waste residues.
- **Pilot deployment -** containerised test units (about 60 m^2 footprint) with automated PLC control for on-site pilot validation.

SELECTED PROJECTS

Compact thermal utilisation for municipal sewage sludge

Norway Grants (Green Industry Innovation Programme) · TRL7 demonstration · coordinator

Designed, built and operated a compact containerised thermal facility at municipal wastewater sites, demonstrating fuel-free processing of high-moisture sludge with 90% volume reduction.

X2.0 - Deeptech Innovation Acceleration

Horizon Europe (X2.0 Innovation Programme) · lead beneficiary

Executed commercial scaling, deployment roadmaps and utility integration frameworks for decentralised environmental infrastructure, including IP strategy and partnerships with European water utility networks.

PHOSPHA-SCALE - Sustainable sludge management and circular economy

Horizon Europe (EIC Accelerator Framework) · work package leader

Led process optimisation for thermal processing to produce high-purity phosphorus-rich ash, coordinating safety, heavy metal compliance and nutrient bioavailability evaluations with industry and research partners.

RESEARCH INFRASTRUCTURE & FACILITIES

TRL7 operational pilot plant; mobile containerised testing units; digital and automation control platforms; partner laboratory network.

EXPERTISE WE ARE LOOKING FOR

Municipal wastewater utilities (20,000-200,000 inhabitants), research institutions, industrial processors and digital modelling experts.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

European Forum for Agricultural and Rural Advisory Services (EUFRAS)

NGO · LATVIA · EUFRAS.EU

Anita Dzelme

Vice-Chairman of the EUFRAS board

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CORE TEAM

- **Rui Almeida**
- **Pablo Asensio**
- **Alexandros Koutsouris**
- **Sylvain Sturel**

KEYWORDS

Agricultural advisory services · AKIS · Knowledge exchange · Farmer innovation · Rural development · Multi-actor collaboration · Capacity building · Digitalization

DOMAINS OF APPLICATION

Agriculture · Food Systems · Environment · Biotechnology · Digital Technologies · Education

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Stakeholder engagement · Dissemination & communication · Policy recommendations · Training & capacity building · Pilot implementation · Exploitation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

EUFRAS brings expertise in agricultural and rural advisory services, Agricultural Knowledge and Innovation Systems (AKIS), multi-actor collaboration and capacity building. It contributes European-wide advisory networks, stakeholder engagement, training and dissemination, and supports pilots and the uptake of research results in practice.

- **Advisory services & AKIS -** expertise in agricultural and rural advisory services and Agricultural Knowledge and Innovation Systems, bridging research, innovation and practical agricultural application.
- **European advisory network -** connects advisors, farmers, researchers, policymakers and other stakeholders across Europe.
- **Knowledge exchange -** peer learning, training, capacity building and dissemination of research and innovation results to practitioners.
- **Multi-actor collaboration -** stakeholder engagement and support for pilot activities and for the uptake of results in practice.

SELECTED PROJECTS

ClimateSmartAdvisors - connecting the EU agricultural advisory community

Horizon Europe · project partner

Contributes its European network of agricultural advisory organisations, supporting knowledge exchange, capacity building and the development of climate-smart advisory services.

EU-FarmBook - European knowledge reservoir for agriculture and forestry

Horizon Europe · project partner

Contributes expertise in advisory networks and knowledge exchange, supporting a European platform for sharing research and innovation results with farmers, advisers and other practitioners.

STRATUS - strengthening Agricultural Knowledge and Innovation Systems

Horizon Europe · project partner

Contributes its advisory network and AKIS expertise to stakeholder engagement, knowledge exchange and stronger links between research, advisory services and farming practice.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, advisory organisations, SMEs, NGOs, public authorities and technology providers with expertise in sustainable and climate-smart agriculture, agroecology, digitalisation, AKIS, knowledge exchange, farmer innovation and rural development. Practical solutions that can be tested with farmers and advisers and scaled across European networks are of particular interest.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · A Soil Deal for Europe			
Widening participation and strengthening the European Research Area			

GroGlass

LARGE ENTERPRISE · LATVIA · GROGLASS.COM

Janis Zemitis

Head of Research and Development Department

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CORE TEAM

· **R&D department** - optical measurement and modelling, large-scale sputtering and sol-gel coating, coating development on glass and plastics

KEYWORDS

Magnetron sputtering · Physical vapour deposition (PVD) · Sol-gel coatings · Large-area coating · Optical thin films · Anti-reflective coatings · Optical modelling and simulation · Thin-film characterization · Glass and polymer substrates · Industrial scale-up

DOMAINS OF APPLICATION

Manufacturing · Advanced Materials

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: No experience yet

Can take on: Pilot implementation · Validation & testing

Seeks partners among: Large industry · SMEs · Universities · Research infrastructures · End users

WHAT WE CONTRIBUTE

Thin-film coating development from optical design through to full industrial scale, combining optical modelling of multilayer stacks, large-area magnetron sputtering (PVD) and large-area sol-gel coating on glass and polymer substrates larger than 2 × 3 m. Offers process scale-up, coating characterisation, demonstrator and pilot-scale samples for partners, and industrial validation and exploitation.

- **Optical modelling -** optical measurement and modelling of multilayer thin-film stacks, including anti-reflective coatings.
- **Magnetron sputtering -** large-area physical vapour deposition (PVD), including high-power impulse magnetron sputtering (HiPIMS) on targets of approximately 2.6 m.
- **Sol-gel coating -** large-area wet-chemical coating of glass and polymer substrates.
- **Alternative deposition -** plasma-enhanced and plasma-ion-beam-assisted CVD and large-area ion implantation evaluated for glass surface modification.
- **Scale-up & validation -** process development from laboratory coupon to production-size parts, with prototype testing through tempering, environmental cycling and optical performance evaluation.

SELECTED PROJECTS

HiPIMS for large-area glass and acrylic coating processes

Latvian RRF / NextGenerationEU 5.1.1.2.i (CFLA) · 10/2024-03/2026 · project owner

Integrated commercial HiPIMS power supplies into an industrial vacuum coating line, deposited and characterised SiO_2, TiO_2, Al-doped ZnO and SiN_x layers, and produced full-size anti-reflective prototypes.

Silicon nitride barrier layers for temperable anti-reflective coatings

Latvian RRF 5.1.1.2.i (CFLA) · 01/2026-09/2027 (ongoing) · project owner

Develops a scalable process for defect-free Si_3N_4 sodium-diffusion barrier layers, benchmarking five substrate pre-treatment routes and validating the chosen process on full-size prototypes.

Alternative deposition methods to magnetron sputtering for large-format coatings

Latvian Competence Centre programme, co-financed by RRF · 10/2023-09/2025 · project owner

Evaluated hollow-cathode plasma-enhanced CVD, plasma-ion-beam-assisted CVD and large-area ion implantation, and validated selected routes on prototypes partly made on the company's own line.

EXPERTISE WE ARE LOOKING FOR

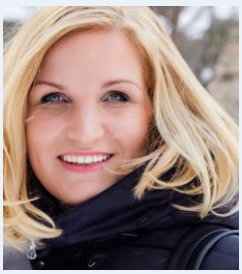
Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

InnoMatrix

RESEARCH INFRASTRUCTURE · LATVIA · INNOMATRIX.ORG



Līga Brasliņa

Founder & Research and Innovation Lead

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CORE TEAM

· **Līga Brasliņa** - founder, research and innovation lead

KEYWORDS

Research-to-market · Technology commercialisation · Market intelligence · Market validation · Exploitation strategy · Stakeholder engagement · User research

DOMAINS OF APPLICATION

Healthcare · Transport & Mobility · Public administration · Digital Technologies · Smart Cities · Food Systems · Agriculture

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs

WHAT WE CONTRIBUTE

Research and innovation SME specialising in research-to-market pathways, market intelligence, commercialisation, market validation and stakeholder and user research. Combines social sciences, innovation management and data-driven analysis to turn research results into solutions that respond to market and societal needs.

- **Market intelligence -** international market, competitor and ecosystem analysis, segmentation, benchmarking and secondary-data analysis.
- **Market validation -** surveys, structured expert and stakeholder interviews, and user and customer research.
- **Commercialisation -** exploitation and commercialisation planning, business model development and market uptake strategies.
- **Impact assessment -** socio-economic impact assessment and dissemination-oriented research.

SELECTED PROJECTS

Mini Private 5G - international market and commercialisation potential

LMT · 2025 · research and market intelligence partner

Assessed international market potential and adoption environment through market and regulatory analysis and research with more than 400 industry experts, identifying barriers, priority industries and commercialisation pathways.

Mobility data product commercialisation strategy

LMT · 2023 · market research and commercialisation strategy partner

Developed a commercialisation strategy covering market definition, target segments, benchmarking, customer research, regulatory and privacy considerations, and a roadmap for piloting and market entry.

FORGE - Fair, Open Research-to-market Growth Engine

Horizon Europe EIE proposal development · 2026 · research-to-market expertise

Contributes research-to-market, commercialisation, market validation and innovation ecosystem expertise to a research-to-market transfer approach combining technology-transfer diagnostics, exploitation tools and pilots.

RESEARCH INFRASTRUCTURE & FACILITIES

Own CAWI (Computer-Assisted Web Interviewing) research panel in Latvia, giving direct access to respondents for quantitative research, market validation, user research and public opinion studies, and supporting pilot testing and user-needs assessment. Tools for mixed-method research, including stakeholder and expert interviews, market and competitor analysis, ecosystem mapping and socio-economic assessment, and project-specific datasets.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, technology developers, SMEs, industry, public authorities and innovation intermediaries with research-based technologies that need market validation, user research, commercialisation and impact assessment.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Institute of Agricultural Resources and Economics (AREI)

RESEARCH INSTITUTE · LATVIA · AREI.LV



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CORE TEAM

- **Vita Šterna**
- **Alberts Auziņš**
- **Sanita Zute**
- **Līvija Zariņa**

KEYWORDS

Sustainable agriculture · Circular bio-economy · Crop breeding · Innovative agrotechnologies · Biomass valorisation · Resilient regions

DOMAINS OF APPLICATION

Biodiversity · Natural Resources · Food Systems · Agriculture · Environment

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Expertise in sustainable and precision agriculture, crop breeding and genetic resources, agroecology, circular bioeconomy, food and feed systems and urban agriculture. Offers crop evaluation, field trials, remote sensing, biomass valorisation, pilots and demonstration, with experience coordinating projects and leading work packages in European and international research.

- **Crop breeding -** crop evaluation, field trials and crop genetic resources.
- **Precision agriculture -** remote sensing, data-driven farming and digital agriculture.
- **Circular bioeconomy -** valorisation of biomass and agricultural by-products and circular use of agricultural resources.
- **Urban agriculture -** urban horticulture trials, including an experimental rooftop garden in Riga, and knowledge transfer on sustainable urban cultivation.
- **Agroecology & food -** agroecology, food and feed systems, food quality and biodiversity assessment.

SELECTED PROJECTS

BIO2 - natural biomass and microbial biocontrol for organic farming

Horizon Europe · 2025-2029 · work package leader

Leads a work package on natural biomass-based and microbial biocontrol solutions that reduce reliance on contentious inputs in organic farming.

AGRI-BIOCIRCULAR-HUB - smart agriculture and circular bioeconomy hub

Horizon Europe · 2025-2028 · work package leader

Leads a work package strengthening research and innovation capacity in smart agriculture and the circular bioeconomy in widening countries and beyond.

CIRCLE - circulation of bioresources in agriculture, forestry and fisheries

EEA Grants · 2021-2024 · project coordinator

Led the project promoting circular economy approaches and the sustainable use and valorisation of bioresources across agriculture, forestry and fisheries.

RESEARCH INFRASTRUCTURE & FACILITIES

Experimental agricultural fields (470 ha), field-testing and demonstration sites for sustainable agriculture and circular bioeconomy solutions; crop breeding and genetic resources collections; precision and digital agriculture equipment, including remote sensing and field data collection; laboratory equipment systems; biomass and agricultural by-product valorisation facilities.

EXPERTISE WE ARE LOOKING FOR

Coordinators and partners interested in developing collaborative projects in agriculture and the bioeconomy.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - A Soil Deal for Europe			
Widening participation and strengthening the European Research Area			

Institute of Economics of the Latvian Academy of Sciences

RESEARCH INSTITUTE · RIGA, LATVIA · EILZA.LV



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CORE TEAM

· **Janis Vanags**
· **Valdis Seglins**

KEYWORDS

Macroeconomic analysis · Labor market intelligence · Human capital evaluation · Artificial intelligence and economy · Sustainable economic development · Policy impact assessment · Regional development

DOMAINS OF APPLICATION

Public administration · Education · Digital Technologies · Artificial Intelligence · Environment · Agriculture

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator

Can take on: Consortium coordination · Proposal writing · Scientific leadership · WP leadership · Task leadership

Seeks partners among: Universities · Large industry · SMEs · Public authorities · NGOs

WHAT WE CONTRIBUTE

Expertise in macroeconomic and regional development, structural economic transformation, human capital evaluation and labour market intelligence, including the socio-economic impacts of technological and AI-driven change. Contributes methodology development, pilot implementation analysis, data-driven intelligence, and dissemination and policy forums.

- **Macroeconomic analysis -** macroeconomic modelling, statistical indicator analysis and forecasting, including long-term scenario planning for sustainable national and regional development.
- **Labour market intelligence -** employment shifts, up-skilling frameworks and human capital evaluation, including socio-economic impacts of technological and AI-driven transformations.
- **Policy & impact assessment -** quantitative and qualitative research methods, and policy and impact assessments tailored to European and regional priorities.
- **Datasets & forecasting -** economic intelligence datasets, labour market indicators and specialised forecasting tools.

SELECTED PROJECTS

EQUALS-EU - European Regional Partnership for Gender Equality in the Digital Age

Horizon 2020 · research partner, consortium contributor

Contributes research on bridging gender gaps in the digital sector through regional partnerships, social innovation research and evidence-based policy recommendations.

Vision to 2050 - Strategic Development Doctrine and Long-Term National Growth

National institutional research, self-funded · lead research institution

Macroeconomic forecasting, evaluation of structural quantitative and qualitative growth indicators, and long-term scenario planning for sustainable national and regional development.

RESEARCH INFRASTRUCTURE & FACILITIES

Office spaces, administrative facilities and meeting infrastructure for international project coordination, consortium workshops and hosting visiting researchers and experts.

EXPERTISE WE ARE LOOKING FOR

Multidisciplinary universities, research institutes, public authorities, municipalities, SMEs and technology providers with expertise in artificial intelligence governance, advanced data analytics, macroeconomic modelling, digital transformation, labour market intelligence, socio-economic impact assessment, sustainability and policy innovation, for Horizon Europe collaborative projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Institute of Electronics and Computer Science (EDI) - Wind Energy Research

RESEARCH INSTITUTE · RIGA, LATVIA · EDI.LV



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CORE TEAM

· **Edmunds Kamolins**
· **Nikita Dmitrijevs**
· **Marija Mironova**

KEYWORDS

Wind resource assessment · Wind measurements · Model and reanalysis validation · Machine learning for forecast correction · Extreme weather events · Coastal and urban environments · Sensor systems

DOMAINS OF APPLICATION

Energy · Environment · Digital Technologies · Artificial Intelligence · Electronics & Photonics · Advanced Materials

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · AI / Digital tools · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in wind energy and wind resource assessment, combining atmospheric science, electrical engineering, sensor technology, data science and permanent magnet materials. Contributes field measurements, data analysis and validation, numerical modelling, digital tools, pilot testing in the Baltic region, and dissemination and exploitation of results.

- **Wind resource modelling -** wind flow and wind resource modelling across multiple scales, including coastal, port, urban and forested environments, and numerical modelling of wind turbine performance.
- **Measurements & validation -** meteorological and SCADA data analysis, and validation of reanalysis datasets and model outputs against LiDAR and meteorological mast measurements.
- **Data science & AI -** machine learning for forecast correction and anomaly detection, signal processing and extreme weather analysis.
- **Sensors & monitoring -** sensor systems, data acquisition and condition monitoring.

SELECTED PROJECTS

NEWA - New European Wind Atlas

ERA-NET Plus / EU FP7 · 2015-2019 · Latvian coordination

Coordinated Latvian participation in creating a high-resolution European wind atlas; wind data analysis and model validation for the Baltic region.

Direct-drive small wind turbine with aerodynamic pitch control

EUROSTARS-2 · E! 9349 · 2017-2019 · research group leadership

Led the design and modelling of the direct-drive generator.

High-efficiency rare-earth-free electric motor

ERDF · No. 1.1.1.2/VIAA/1/16/173 · 2018-2020

Electromagnetic design and modelling of an electric motor without rare-earth magnets.

RESEARCH INFRASTRUCTURE & FACILITIES

Energy Research Centre laboratory at EDI, Riga, with a test bench for electrical machines and magnetic systems. WindCube LiDAR for vertical wind profile measurements up to 300 m, with long-term wind measurement datasets from the Baltic region. Numerical modelling, including electromagnetic (FEM) simulation of magnetic systems and electrical machines, and wind resource modelling software. Access to EDI's wider infrastructure in electronics, embedded systems and signal processing.

EXPERTISE WE ARE LOOKING FOR

Experienced project coordinators and consortium leaders, and universities, research institutes, SMEs, industrial companies and energy-sector end users with complementary expertise in renewable energy technologies, advanced numerical modelling, AI and data analytics, sensor technologies and critical raw materials.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Institute of Food Safety, Animal Health and Environment (BIOR)

RESEARCH INSTITUTE · RIGA, LATVIA · BIOR.LV

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Scientific Secretary

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CORE TEAM

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· **Vadims Bartkevičs**
· **Margarita Terentjeva**

KEYWORDS

Food safety · Veterinary medicine · Animal health and infectious diseases · Public health · One Health · Food and environmental contaminants · Fisheries and aquaculture

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Biotechnology · Environment · Agriculture · Food Systems

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Pilot implementation · Dissemination & communication · Data management

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

One Health expertise integrating human, animal and environmental health, including infectious diseases, zoonoses and risk assessment. Specialised laboratories cover microbiology, pathology, medical diagnostics, chemistry, and food and environmental analysis, supported by experience in surveillance, pathogen detection including next-generation sequencing, and Horizon Europe, Interreg and COST projects.

- **One Health surveillance -** national and international surveillance of infectious diseases, zoonoses, environmental risks and other biological threats, with risk assessment and data-driven decision support.
- **Pathogen detection -** molecular biology, microbiological diagnostics and next-generation sequencing for foodborne and environmental pathogens, including development and validation of new methods.
- **Chemical analysis -** chromatography and mass spectrometry for food and environmental samples, including PFAS in water.
- **Field research -** sample collection in aquatic environments, fisheries, animal health and environmental monitoring, including use of autonomous surface vessels.

SELECTED PROJECTS

ASFaVIP - live attenuated vaccines for African swine fever in wild boar and pigs

Horizon Europe · 2025-2026 · WP7 participant

Works in Work Package 7 on oral vaccination of wild boar: bait deployment trials, biomarkers for monitoring, non-invasive sampling and ASF epidemiology.

PAIR - Pandemic Information to Support Rapid Response

Horizon Europe Innovation Action · 2024-2028

Provides animal-origin samples and evaluates the portable PANPOC respiratory virus detector in field settings, testing its use for veterinary surveillance.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratories with digital microscopes, spectroscopy, cell culture, microbiology and molecular biology equipment, real-time PCR, Sanger, Nanopore and Illumina sequencers, mass spectrometers including high-resolution instruments, and liquid and gas chromatographs.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Jāzeps Vītols Latvian Academy of Music

UNIVERSITY · RIGA, LATVIA · JVLMA.LV

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CORE TEAM

- **Valdis Bernhofs**
- **Jachin Edward Pousson**
- **Jānis Kudiņš**
- **Anda Beitāne**
- **Guntars Prānis**

KEYWORDS

Systematic musicology · Music neuroscience · Cognitive musicology · Music perception and cognition · Artistic research · Music education · Interdisciplinary research · Digital humanities · Cultural heritage

DOMAINS OF APPLICATION

Education · Cultural & Creative Industries

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project partner

Can take on: Scientific leadership · Living labs · Dissemination & communication · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Specialised expertise in musicology (systematic, historical and ethnomusicology), artistic and practice-based research, music education, performing arts and cultural studies, combining qualitative and quantitative methods. Connects scientific research with artistic practice in research design, evaluation and dissemination.

- **Musicology -** systematic, historical and ethnomusicological research, including archival and historical research.
- **Artistic research -** practice-based research and artistic experimentation linking scientific research with artistic practice.
- **Music education -** research on music education and performing arts, and on how music and the arts contribute to education, cultural development and wellbeing.
- **Empirical methods -** interviews, observation, case studies, experimentation and participatory research, combining qualitative and quantitative approaches.
- **Evaluation & transfer -** pilot studies, stakeholder engagement, knowledge transfer, dissemination and evidence-based recommendations.

SELECTED PROJECTS

CERS - National Research Programme 'Latvian Culture - a Resource for National Development'

National Research Programme · 2023-2026 · state budget

Government-commissioned multidisciplinary programme fostering the development of Latvian culture and its effective use as a resource for Latvia's sustainable development.

BCMI - brain-computer music interfacing for embodied musical interaction

European funding programme

Three research teams develop a brain-computer music interface (BCMI) system, addressing limited interdisciplinary collaboration, lack of usable tuned equipment, and lack of evidence for reliable use in ecologically valid contexts.

Combining German and Baltic expertise: from assessment to intervention in music therapy

Baltic-German University Liaison Office

Establishes and develops interdisciplinary collaboration between higher education institutions in the Baltic States and Germany in psychology, music therapy and music science.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Agrihorts

RESEARCH INSTITUTE · LATVIA · AGRIHORTS.LBTU.LV



Viktorija Zagorska

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CORE TEAM

- **Janis Gailis, Betija Rubene** - pollinators, crop pests, distribution modelling
- **Jevgenija Necajeva** - weed biology and biodiversity
- **Regina Rancane** - apple orchard plant protection
- **Vitālijs Komašilovs** - hyperspectral plant health assessment

KEYWORDS

Integrated pest management · Pollinators · Ecological modelling · Insect ecology · Weed biology · Weed biodiversity · Soil seed bank · Weed

DOMAINS OF APPLICATION

Digital Technologies · Biodiversity · Agriculture · Environment

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Interdisciplinary expertise in plant protection, entomology, weed biology, pesticide resistance, molecular diagnostics, microbiology and precision horticulture. Contributes experimental design, pest and pollinator monitoring, molecular identification of plant pathogens and hyperspectral assessment of plant health. Social scientists and economists from LBTU can be involved on request.

- **Crop protection -** pest and pollinator monitoring, plant protection in apple orchards including apple scab, and decision support systems.
- **Weed science -** weed biology and biodiversity, soil seed bank analysis and weed resistance to plant protection products.
- **Molecular diagnostics -** molecular identification of plant pathogens and detection of resistance genes, supported by DNA and microbiology laboratories.
- **Hyperspectral sensing -** use of hyperspectral data for plant health assessment, with two hyperspectral cameras available.
- **Pests & pollinators -** wild pollinators, crop pests and their natural enemies, species distribution modelling and pest resistance to plant protection products.

SELECTED PROJECTS

RustWatch - European early-warning system for wheat rust diseases

Horizon 2020 · task leader

Leads a task on yellow rust identification.

OPER8 - European thematic network on alternative weed control

Horizon · project partner

Disseminates the laser weeding solution in arable crops and prepares recommendations for policy makers.

HEALTHYTOMATO - tomato disease development risk warning system

Lead partner

Mainly analyses hyperspectral data for the development of the risk warning system.

RESEARCH INFRASTRUCTURE & FACILITIES

Research greenhouse, controlled-environment climate rooms, DNA and microbiology laboratories, two hyperspectral cameras, and access to experimental plots and farmers' fields. These support laboratory testing, controlled-environment experiments, field trials and validation of new technologies under practical growing conditions.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes and consortia with expertise in molecular biology, environmental DNA analysis, UAV, hyperspectral data analysis and ecology.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · A Soil Deal for Europe · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Animal Sciences Institute

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV

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CORE TEAM

· **Liga Paura**
· **Daina Jonkus**
· **Aiga Nolberga-Trupa**
· **Lasma Cielava**

KEYWORDS

Agricultural animal breeding and quantitative genetics · Research of genetic resources of farm animals · Feeding and welfare of farm animals · Feed efficiency and livestock emission study

DOMAINS OF APPLICATION

Biodiversity · Agriculture

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Living labs · Stakeholder engagement · Pilot implementation

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Expertise in agricultural animal breeding and feeding research, with stakeholder and study-farm engagement for pilot studies and method and technology demonstrations. Extensive experience of interdisciplinary collaboration in international projects, combining animal science, veterinary medicine, engineering and social sciences.

- **Animal breeding -** agricultural animal breeding, quantitative genetics and research on farm animal genetic resources.
- **Gene polymorphisms -** genetic characterisation of Latvian cattle and pig populations for milk and meat quality traits.
- **Feeding and welfare -** feeding and welfare of farm animals, feed efficiency and nutrient digestibility studies.
- **Livestock emissions -** on-farm emission evaluation and measurement, and climate-smart cattle breeding systems.
- **Feed additives -** innovative feed ingredients and additives in livestock diets, including insect and earthworm protein.

SELECTED PROJECTS

Genetics of economically important traits in dairy cows and pigs

National scientific funding · work package leader

Characterises Latvian cattle and pig genetic resources, including gene polymorphisms (CSN3, CSN2, LGB, HAL, PRKAG3) linked to milk and meat quality, as a basis for conservation and breeding.

Climate Care Cattle Farming System

ERA-NET Cofund · work package task leader

Develops climate-smart cattle breeding systems that reduce greenhouse gas and ammonia emissions while keeping production efficient, including on-farm emission evaluation and measurement.

Feed and nutrient digestibility in lambs

Ministry of Agriculture · project leader

Studies how nutrients in fodder fed with different technologies are converted into live weight gain and removed in solid manure and urine.

Innovative feed and additive study in livestock diets

European Agricultural Fund for Rural Development · work package leader

Tests lactobionic acid, sapropel, potassium humate, and insect and earthworm protein in the diets of dairy cows, laying hens, calves and pigs.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Bioprocess Engineering

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV



Liene Jansone

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CORE TEAM

· **Zanda Kruma** - professor
· **Evita Straumīte** - professor
· **Liene Ozola**

KEYWORDS

Bioprocess Engineering (Research Expertise) · Fruit and Berry Pomace (Research Interest / Application Area) · Vinegar Fermentation (Research Expertise / Application Area) · Bioactive Compounds (Research Interest) · Phenolic Compounds (Research Interest) · Organic Acid Production (Research Expertise / Bioprocessing) · Microbial Fermentation (Methods & Mechanics - Yeast & Lactic Acid Bacteria)

DOMAINS OF APPLICATION

Food Systems · Biotechnology

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet
Can take on: WP leadership · Task leadership · Proposal writing · Pilot implementation
Seeks partners among: Universities · Research infrastructures

WHAT WE CONTRIBUTE

Food biotechnology, sustainable bioprocessing and zero-waste side-stream valorisation, turning fruit and berry pomace into functional ingredients, vinegars and fermented beverages. LBTU also links researchers, students and companies through incubator cooperation, Challenge Labs, startup support and innovation events.

- **Side-stream valorisation -** transformation of fruit and berry pomace into functional ingredients, specialised vinegars and bio-based fermented beverages.
- **Fermentation -** microbial fermentation with yeast and lactic acid bacteria, vinegar fermentation and organic acid production.
- **Bioactive compounds -** profiling of phenolic and other bioactive compounds for functional food and beverage development.
- **Analytical chemistry -** HPLC, SFC-SFE-LC with tandem mass spectrometry, SPME with GC-MS, and gastrointestinal tract simulation.

SELECTED PROJECTS

Apple and northern berry vinegars for functional beverages
Post-doc project · Project Nr. 5.2.1.1.i.0/2/24/I/CFLA/002 · researcher, work package leader
Studies the physicochemical and bioactive compound profile of apple and northern berry vinegars and their application in functional beverage development.

Functional evaluation of apple, Japanese quince and berry pomace vinegars
EU Cohesion Policy 2021-2027 · 1.1.1.9/LZP/2/25/212 (PD10) · researcher, work package leader
Post-doc project on the advanced functional evaluation of vinegars from apple, Japanese quince and northern berry pomace and their adaptation for new product development.

RESEARCH INFRASTRUCTURE & FACILITIES

High-performance liquid chromatograph (HPLC) Shimadzu LC-20 Prominence; Shimadzu Nexera UC SFC-SFE-LC system coupled to a TQ-MS-8050 mass spectrometer with an electrospray ionisation (ESI) interface; solid-phase microextraction (SPME) with GC-MS; Labfors 5 (INFORS HT) gastrointestinal tract simulation system; and further equipment.

EXPERTISE WE ARE LOOKING FOR

Partners with expertise in green extraction of side-streams (ultrasound- or enzyme-assisted extraction, membrane filtration, supercritical fluid extraction); groups in high-resolution metabolomics, volatile compound identification or in vitro functional assays; fruit and berry processors, wineries and juice manufacturers to supply side-streams and host pilot validation; and specialists in LCA or techno-economic assessment.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV

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CORE TEAM

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· **Peteris Rivza**
· **Andrejs Siskins**
· **Ervins Blumbergs**

KEYWORDS

Business incubators · Startups · Commercialization of ideas · Regional entrepreneurship

DOMAINS OF APPLICATION

Energy · Manufacturing · Education · Digital Technologies · Advanced Materials · Environment · Biotechnology

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner

Can take on: Proposal writing · Living labs · Stakeholder engagement · Data management · AI / Digital tools · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary capacity across life sciences, engineering and social sciences, with a focus on the bioeconomy and sustainable use of natural resources. In consortia it can act as research partner, pilot site, testing and validation facility, methodology developer and coordinator of dissemination and exploitation.

- **Agriculture & forestry -** sustainable agriculture and agronomy, forest engineering, veterinary medicine, animal genetic resources, and food and nutrition science.
- **Environment & engineering -** environmental science, water management, landscape planning, agricultural and mechanical engineering, applied energetics and ICT.
- **Laboratory methods -** field and laboratory experimentation, molecular biology, microbiology, genetics, and physico-chemical testing of crops and animal feed.
- **Social & economic research -** rural and regional development economics, techno-economic and policy analysis, life-cycle and circular-economy assessment, and social research.

SELECTED PROJECTS

Regional Business Incubation Programme

ERDF · administered by the Investment and Development Agency of Latvia (LIAA)

Led mentoring and business-incubation services for early-stage entrepreneurs at five regional locations, covering operations, procurement compliance and reporting (Deputy Executive Director, JIC Business Incubator).

Establishment of a Regional Bioeconomy Business Incubator at LBTU

researcher and contributor

Contributed to the design and development of the incubator concept at Latvia University of Life Sciences and Technologies (LBTU).

Environmentally friendly recovery of cadmium from battery waste via electroslag remelting

Latvian Council of Science · project No. lzp-2018/1-0415 · expert

Provided expert input on a recycling method to recover cadmium from spent batteries and accumulators, assessing its feasibility and applied value.

EXPERTISE WE ARE LOOKING FOR

Partners for Horizon Europe, Interreg, Erasmus+ and other international projects on the bioeconomy, regional and rural development and entrepreneurship-driven innovation: universities, research institutes, municipalities, SMEs and start-ups, cooperatives, incubators, NGOs and technology providers.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - digiMEI

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV

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CORE TEAM

· **Zane Vincēviča-Gaile**
· **Ilmārs Preikšs**
· **Ilze Vircava**

KEYWORDS

Advanced materials · Material-environment interactions · Artificial intelligence · Machine learning · Digital twins · Materials durability · QSPR modelling

DOMAINS OF APPLICATION

Energy · Manufacturing · Digital Technologies · Defence · Artificial Intelligence · Advanced Materials · Smart Cities

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

digiMEI (Digital Material-Environment Interactions) bridges advanced materials, environmental engineering and AI modelling, turning experimental and materials data into predictive models, digital tools and sustainable material solutions. Partner in the €15 million Horizon Europe NoE-AIMat / RAISE network of excellence, with experience of work package leadership and project coordination.

- **AI & materials informatics -** machine learning, QSPR/QSAR and graph-based models to predict material properties, ageing and performance.
- **Durability & ageing -** material-environment interactions, lifetime prediction, and targeted accelerated ageing and non-destructive evaluation (NDE) to build and validate models.
- **Polymers & composites -** durability and environmental ageing of polymers and composites, including lightweight composite hydrogen storage.
- **Digital twins & LCA -** digital-twin demonstrators, life-cycle assessment and life-cycle cost analysis (LCA/LCCA).

SELECTED PROJECTS

NoE-AIMat - Network of Excellence in AI-driven Materials Science

Horizon Europe RAISE · 2026-2030 · ~€15 million · partner

Partner in a network coordinated by the University of Cambridge with 22 organisations from 14 countries, focused on AI-driven materials science, materials informatics and shared research infrastructure.

H2ELIOS - hydrogen lightweight and innovative tank for zero-emission aircraft

Horizon Europe · 2023-2026 · ~€12.1 million

Work package leader and researcher in the NTNU group, contributing expertise in lightweight composite hydrogen storage, durability and lifetime prediction, and LCA/LCCA.

RESEARCH INFRASTRUCTURE & FACILITIES

Mainly digital: Python- and R-based workflows for materials informatics, QSPR/QSAR, machine learning, graph-based modelling, database development, LCA/LCCA and digital-twin demonstrators.

EXPERTISE WE ARE LOOKING FOR

Universities and research organisations in AI for science, materials informatics, advanced characterisation, computational materials science, digital twins, non-destructive evaluation and life-cycle assessment, and industrial partners with real-world materials problems and datasets (polymers, composites, recycling, energy materials).

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Social Sciences

UNIVERSITY · JELGAVA, LATVIA · SOCIALSCIENCES.LBTU.LV

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CORE TEAM

· **Sandija Zēverte-Rivža**
· **Lāsma Līcīte-Ķurbe**
· **Madara Dobele**
· **Irina Pilvere**
· **Andra Zvirbule**
· **Baiba Rivža**
· **Līga Paula**

KEYWORDS

Circular bioeconomy · Business models · Territorial resilience · Social entrepreneurship · Urban agriculture · Sustainable energy

DOMAINS OF APPLICATION

Public administration · Biodiversity · Natural Resources · Food Systems · Agriculture · Environment · Biotechnology

PROFILE AT A GLANCE

TRL: 1-3
Horizon Europe experience: Funded as a project partner
Can take on: WP leadership · Task leadership · Living labs · Dissemination & communication · Policy recommendations
Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

Academic, methodological and regional expertise in circular bioeconomy, sustainable agriculture, agricultural decarbonisation, ecosystem services valuation and regional resilience. Active in European rural sociology and agricultural economics networks and in hosting international conferences, supporting stakeholder outreach, early-career researcher integration and dissemination.

- **Circular bioeconomy -** evaluation of the transition to circular bioeconomy models, sustainable agriculture and agricultural decarbonisation targets aligned with the European Green Deal.
- **Ecosystem services -** valuation that bridges ecological science with economic policy.
- **Regional resilience -** regional resilience indices, territorial development strategies and the socio-economic challenges facing rural areas.
- **Circular business models -** assessment of bio-based innovations, socio-economic feasibility analysis and commercialisation pathways for rural entrepreneurs.

SELECTED PROJECTS

BOOST4BIOEAST - boosting bioeconomy transformation in Central and Eastern Europe

Horizon Europe · work package leader, national hub coordinator

Leads national engagement and strategy development for circular bioeconomy policies and bio-based value chains, including mapping of regional biomass streams and setting up national bioeconomy hub structures.

BioRural - accelerating circular bio-based solutions in European rural areas

Horizon Europe · regional partner, work package co-lead

Identifies and assesses existing bio-based innovations in rural regions, carries out socio-economic feasibility analyses and co-designs commercialisation pathways for rural entrepreneurs.

RESEARCH INFRASTRUCTURE & FACILITIES

Research infrastructures, living labs, datasets and analytical tools supporting empirical research, experimental socio-economic modelling and stakeholder engagement in sustainable development, bioeconomy and regional resilience.

EXPERTISE WE ARE LOOKING FOR

Academic institutions, industrial networks, research and technology organisations, public authorities and civil society.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Food Science and Technology

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV



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CORE TEAM

· **Inga Ciproviča**
· **Jeļena Zagorska**
· **Sanita Sazonova**
· **Sandra Muižniece Brasava**

KEYWORDS

Food Science · Food Technology · Food Chemistry · Food Microbiology · In Vitro Digestion · Food Processing · Food Packaging · Rheology

DOMAINS OF APPLICATION

Biotechnology · Food Systems · Food Science

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner · Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Validation & testing · Training & capacity building

Seeks partners among: Universities · SMEs · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in food biotechnology, food packaging, valorisation of food by-products, enzymatic and fermentation processes, advanced food content analysis and in vitro digestion. The team bridges process development with analytical and nutritional evaluation to support sustainable, functional food ingredients from underutilised resources.

- **Food biotechnology -** enzymatic and fermentation processes and valorisation of food by-products into functional ingredients.
- **Digestion studies -** in vitro digestion, digestibility and bioaccessibility studies, and interaction with the microbiota.
- **Food analysis -** advanced food content analysis, physicochemical and nutritional characterisation, rheology and texture.
- **Food microbiology -** food microbiology and study of antimicrobial and bioactive compounds in milk products.
- **Packaging & shelf life -** food packaging and shelf-life evaluation.

SELECTED PROJECTS

Valorisation of local plant and fungal by-products into novel feed ingredients for ruminants

EIP-AGRI Transnational Cooperation grant · No. 2500-C0LA1603-000005 · 2026-2028 · LBTU partner

Leading researcher for WP2 (fermentation) and WP3 (in vitro digestion), both starting in September 2026.

Opti-AC - optimised fermentation technology for bioactive-rich Antrodia camphorata mycelium

Eurostars 3, Call 9 (Eureka) · project id 9231 · 2026-2029 · LBTU partner

Leading researcher for WP7 (digestibility and bioaccessibility studies) and WP8 (microbiota interaction studies), both starting in December 2026.

Comparative analysis of human milk oligosaccharides (AF13)

LBTU institutional capacity grant · No. 5.2.1.1.i.0/2/24/I/CFLA/002 · 2024-2026 · leading researcher

Leading researcher in a comparative analysis of human milk oligosaccharides under the grant for strengthening the institutional capacity of LBTU for excellence in studies and research.

RESEARCH INFRASTRUCTURE & FACILITIES

Food science and food technology research laboratories specialising in physicochemical and nutritional characterisation, food microbiology, in vitro digestion and bioaccessibility, food processing and product development, rheology and texture, and food packaging and shelf-life evaluation.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping

UNIVERSITY · JELGAVA, LATVIA · LBTU.LV



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CORE TEAM

- **Vitālijs Komašilovs** - software engineering
- **Olvija Komašilova** - data analysis
- **Daniels Kotovs** - embedded systems
- **Nikolajs Bumanis** - information systems

KEYWORDS

Precision agriculture · Precision beekeeping · IoT and sensor systems · Data analytics · Artificial intelligence and machine learning · Hardware development · Software development · Environmental monitoring · Decision-support systems · Digital agriculture

DOMAINS OF APPLICATION

Digital Technologies · Artificial Intelligence · Smart Cities · Food Systems · Agriculture · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation · Data management · AI / Digital tools · Validation & testing

Seeks partners among: Universities · SMEs

WHAT WE CONTRIBUTE

Cross-disciplinary expertise in precision agriculture, precision beekeeping, data analytics and digital technology development, combining agricultural and environmental science with hardware engineering, software development and data-driven decision support.

- **Sensor systems & IoT -** design and implementation of sensor-based monitoring, automated data acquisition, custom hardware and embedded field devices.
- **Data analytics & AI -** processing pipelines, databases, dashboards, statistical analysis, machine learning and time-series analysis.
- **Precision agriculture -** monitoring of crops, soil and microclimate; data-driven approaches to resource-efficient management.
- **Precision beekeeping -** sensor-based colony monitoring, automated data collection and assessment of colony state and environmental interaction.
- **Decision support -** turning raw sensor and field data into actionable information for prediction, optimisation and early detection.

SELECTED PROJECTS

SAMS - smart apiculture management services

Horizon 2020 · GA 780755 · project partner

Developed and tested ICT-based sensor systems for remote bee colony monitoring, including data acquisition, processing and methods for remote colony-state assessment.

HIVEOPOLIS - futuristic beehives for a smart metropolis

Horizon 2020 FET · GA 824069 · project partner

Contributed precision beekeeping, digital monitoring and technology development to an interdisciplinary project combining biology, robotics and sensing.

HEALTHYTOMATO - tomato disease risk warning system

ICT-AGRI-FOOD transnational project · leading partner and coordinator

Develops a cost-effective disease risk warning system for small and medium greenhouses using RGB and hyperspectral imaging, AI image analysis and risk modelling.

RESEARCH INFRASTRUCTURE & FACILITIES

IT Solutions, Mathematical Modelling and Statistics Laboratory for ICT development, modelling, simulation and statistical analysis; IoT and sensor prototyping facilities for Arduino-, Raspberry Pi- and other embedded solutions including environmental sensors, weighing systems and remote data acquisition; and instrumented beehives and sensor-based systems for precision beekeeping experiments.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Latvian Environment, Geology and Meteorology Centre - Data Systems and AI

LARGE ENTERPRISE · RIGA, LATVIA · VIDESCENTRS.LVGMC.LV



Anta Klepecka

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CORE TEAM

- **Juris Braučs** - head, information technology department
- **Vaira Obuka** - project manager
- **Mārtiņš Stepiņš** - programmer, service developer
- **Roberts Berovskis** - head, technical operations support, observations

KEYWORDS

Real-time data acquisition and processing · Artificial intelligence · High availability · Automation · Interdisciplinary data · Data-driven research

DOMAINS OF APPLICATION

Energy · Public administration · Defence · Digital Technologies · Cybersecurity · Robotics & Automation · Environment

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: No experience yet

Can take on: WP leadership · Pilot implementation · Dissemination & communication · Data management · AI / Digital tools · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

High-availability ICT infrastructure, real-time data acquisition and processing, data quality control and high-performance solutions for public information services, including web-based solutions. Experience in cross-sector IT innovation, interdisciplinary data analysis, new products at TRL 7-9, AI models in operational information processing, and preparation of high-value and open data.

- **High-availability ICT -** information and communication technology infrastructure for public information services, including web-based solutions.
- **Real-time data -** real-time data acquisition and processing, data quality control and real-time data dissemination.
- **Artificial intelligence -** application of AI models in operational information processing.
- **Open data -** preparation and use of high-value and open data, data warehouse infrastructure and interdisciplinary data analysis.
- **Product development -** cross-sector IT innovation and development of new products at TRL 7-9.

SELECTED PROJECTS

ICEWATCH - river ice-jam flood monitoring and assessment of flood damage

European Space Agency · No. 4000148755/25/NL/MH/cd

Develops automated Sentinel-1 satellite data processing, visualisation and forecasting solutions for river ice, ice jams, floods and related damage.

CAMS NCP Latvia - Copernicus Atmosphere Monitoring Service national programme

ECMWF Copernicus programme · No. CAMS2_72LV_UL · project partner

Contributes to deployment of the SILAM air quality model, integration of CAMS data, locally tailored forecasts and modernisation of national air quality information services.

DAGR - data dissemination and management platform

National public-administration digitalisation project · No. 2.2.1.1/21/I/001

Contributed to real-time data exchange, interoperability and integration with a centralised high-performance data dissemination platform.

RESEARCH INFRASTRUCTURE & FACILITIES

Datasets, software platforms, data warehouse infrastructure, open data preparation infrastructure, real-time data dissemination solutions and data quality control solutions.

EXPERTISE WE ARE LOOKING FOR

Partners with scientific expertise and experience in the use of large-scale data, application of artificial intelligence tools, digitalisation and automation.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services

LARGE ENTERPRISE · RIGA, LATVIA · VIDESCENTRS.LVGMC.LV



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CORE TEAM

- **Andris Vīksna** - Head of the Forecasting and Climate Department
- **Liene Ābele** - Head of the Information Analysis Department
- **Daiga Pipira** - Head of the Subterranean Depths Department
- **Iveta Indriksone** - Head of Monitoring Department
- **Anta Klepecka** - Digital Product Manager

KEYWORDS

Secure data management · Digital environmental services · Meteorology and hydrology · Climate and Environmental Data Science · Chemical risk assessment · Air quality forecasting · Hydrogeology

DOMAINS OF APPLICATION

Energy · Public administration · Digital Technologies · Artificial Intelligence · Cybersecurity · Defence · Environment

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Funded as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Stakeholder engagement · Dissemination & communication

Seeks partners among: Universities · Large industry · Research infrastructures · SMEs

WHAT WE CONTRIBUTE

Scientific, technical and operational expertise in meteorology, climatology, hydrology, environmental monitoring, air quality, geology and hydrogeology, combined with digital capabilities in AI, real-time data processing, big data analytics and remote sensing. Provides environmental datasets and monitoring infrastructure, and supports solutions from methodology development to pilots, validation and deployment.

- **Meteorology and hydrology -** climatology, environmental monitoring, forecasting, early warning systems, climate change adaptation, natural hazard assessment and disaster risk reduction.
- **Digital services -** AI, process digitalisation, environmental product modelling, real-time data processing, big data analytics, geospatial technologies and remote sensing.
- **Atmospheric sciences -** air quality assessment, forecasting and modelling, greenhouse gas inventories, emissions estimation and environmental reporting under EU legislation.
- **Geology -** hydrogeology, groundwater and mineral resource management, geological information systems and geospatial data analysis.

SELECTED PROJECTS

LIFE GoodWater IP - river basin management plans towards good surface water status

EC LIFE programme · LIFE18 IPE/LV/000014 · lead partner, coordinating beneficiary

Coordinates implementation of the Daugava, Gauja, Lielupe and Venta river basin management plans, from monitoring and practical measures to support for institutions and public knowledge transfer.

GSEU - Geological Service for Europe

Horizon Europe Coordination and Support Action · project partner

Provides national geological and coastal datasets, harmonises geological information at European scale, contributes to coastal vulnerability assessments and supplies metadata to the European Geological Data Infrastructure.

ICEWATCH – River Ice Jam Flood Monitoring and Flood Damage Assessment

European Space Agency · No. 4000148755/25/NL/MH/cd

Contributes hydrological expertise, monitoring data and flood risk assessment support for river ice jam flood monitoring and damage evaluation

RESEARCH INFRASTRUCTURE & FACILITIES

Digital research infrastructure, environmental datasets and software platforms for environmental data management, real-time monitoring, automated data quality control, modelling, visualisation and secure digital service delivery.

EXPERTISE WE ARE LOOKING FOR

Partners in AI, process digitalisation, real-time data processing, big data analytics, remote sensing, geospatial technologies and cybersecurity, as well as universities, research institutes, public authorities and SMEs.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services

LARGE ENTERPRISE · RIGA, LATVIA · VIDESCENTRS.LVGMC.LV



Andris Vīksna

Head of the Forecasting and Climate Department

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CORE TEAM

- **Kristiāns Pāps** - Head of the Forecasting division
- **Svetlana Aņiskeviča** - Head of the Climate and Numerical Modelling division
- **Dace Zandersone** - Data Scientist-Expert
- **Uldis Zandovskis** - Data Scientist-Expert

KEYWORDS

Meteorology · Climatology · Hydrology · Climate Services · Environmental Monitoring and Modelling · Data Science · Artificial Intelligence

DOMAINS OF APPLICATION

Healthcare · Energy · Smart Grids · Transport & Mobility · Public administration · Defence · Digital Technologies

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner

Can take on: Task leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication · Data management · AI / Digital tools

Seeks partners among: Universities · Large industry · Public authorities · Research infrastructures · End users · SMEs

WHAT WE CONTRIBUTE

Expertise in weather and climate forecasting, hydrology, climate change analysis, environmental data science and AI-supported forecasting. Capabilities include model development and validation, climate risk assessment, data integration and decision-support tools, backed by operational forecasting experience, climate datasets and high-performance computing.

- **Weather & climate forecasting -** operational forecasting experience, model development and validation, and AI-supported forecasting.
- **Hydrology -** hydrological expertise, monitoring data and support for flood, drought and environmental risk assessment.
- **Climate risk & adaptation -** climate change analysis, climate scenarios, climate risk assessment and adaptation planning tools.
- **Environmental data science -** data integration, climate projection and reanalysis datasets, geospatial and Earth observation processing, and machine learning.

SELECTED PROJECTS

DEODE III - Destination Earth On-Demand Extremes

Destination Earth Initiative · partner

Contributes to the development and validation of a high-resolution digital twin for forecasting extreme weather and environmental hazards, supporting impact-based decision-making across Europe.

CLIMAAX - climate risk and vulnerability assessment framework and toolbox

Horizon Europe · pilot region partner

Supports the development and testing of European climate risk assessment methodologies and tools, with a focus on regional climate resilience and adaptation planning.

Climate Change Policy Integration into Sectoral and Regional Planning

Norwegian Financial Mechanism · national implementation partner

Develops climate scenarios, adaptation planning tools, warning systems and policy integration methods to strengthen climate resilience across multiple sectors.

RESEARCH INFRASTRUCTURE & FACILITIES

Operational hydrometeorological monitoring network; weather and climate databases; climate projection and reanalysis datasets; Earth observation and geospatial data processing infrastructure; AI and machine learning development environments; climate and environmental service demonstrators; and decision-support platforms for weather, climate, flood, drought and environmental risk assessment.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, public authorities, environmental agencies, technology providers and sectoral experts from agriculture, forestry, water management, energy, transport, civil protection, health and urban planning.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Latvian Institute of Aquatic Ecology - Ecotoxicology

RESEARCH INSTITUTE · RIGA, LATVIA · LHEI.LV

LATVIJAS HIDROEKOLOĢIJAS INSTITŪTS

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CORE TEAM

- **Evita Strode**
- **Ingrīda Andersone**
- **Ieva Putna-Nimane**
- **Ineta Liepina-Leimane**

KEYWORDS

Biological effects of contaminats · Bioassays (acute and chronic) · Reproductive disorders in amphipods · Aquatic ecotoxicology · Sediment quality assessment · Benthic bioindicators · Enzymatic biomarkers · Weight of Evidence (WOE)

DOMAINS OF APPLICATION

Biodiversity · Environment · Biotechnology · Pharmaceuticals

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · Scientific leadership · WP leadership · Task leadership · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication

Seeks partners among: Research infrastructures · Universities · Public authorities · NGOs

WHAT WE CONTRIBUTE

Expertise in aquatic ecotoxicology, environmental risk assessment and marine and freshwater sediment quality evaluation. The team identifies early-warning biological responses to chemical pressures, linking sub-organismal biomarkers to population and ecosystem-level impacts, and combines environmental chemistry, benthic ecology and hazard modelling to assess marine ecosystem health.

- **Aquatic ecotoxicology -** acute and chronic bioassays, enzymatic biomarkers and early-warning biological responses to anthropogenic and cumulative chemical pressures.
- **Sediment quality -** evaluation of marine and freshwater sediment quality, combining benthic biodiversity, chemistry and experimental bioassays.
- **Risk assessment -** environmental risk assessment and data-driven hazard modelling linking mechanistic biomarkers to population and ecosystem-level effects.
- **Benthic ecology -** benthic biodiversity and functional biodiversity loss in relation to chemical pollution in the Baltic Sea.

SELECTED PROJECTS

Interdisciplinary approach to assessing sediment quality in the Gulf of Riga

Latvian Council of Science · project coordinator

Combines benthic biodiversity, chemistry and experimental bioassays to assess chemical toxicity and set sediment quality values that distinguish polluted and reference sites in the Gulf of Riga.

Detect2Protect - impacts of chemical pollution on Baltic Sea biodiversity

Biodiversa+ · national coordinator

Investigates links between chemical pollution and functional biodiversity loss, and develops and validates integrated models for environmental risk evaluation from existing monitoring and biological effect data.

BEACON - biological effects methods for contaminants in the Baltic Sea

Interreg Baltic Sea Region · national coordinator

Surveys current biological effect methods, develops integrated assessment criteria for pollutant impacts and pilots these tools across Baltic Sea sub-basins.

RESEARCH INFRASTRUCTURE & FACILITIES

Test cultures of microalgae, zooplankton and benthic amphipods; testing facilities for biomarker and bioassay work; datasets.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvian Institute of Aquatic Ecology - Marine Ecosystem Research

RESEARCH INSTITUTE · RIGA, LATVIA · LHEI.LV

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Senior researcher

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CORE TEAM

· **Iveta Jurgensone**
· **Māris Skudra**
· **Juris Aigars** - project team lead
· **Astra Labuce**

KEYWORDS

Aquatic environment · Marine ecosystem · Ecology · Food-webs · Assessments · Science communication

DOMAINS OF APPLICATION

Environment · Biodiversity · Natural Resources · Education

PROFILE AT A GLANCE

TRL: 1-3
Horizon Europe experience: Funded as a project partner · Submitted as a project partner
Can take on: WP leadership · Task leadership · Scientific leadership · Stakeholder engagement · Dissemination & communication · Policy recommendations
Seeks partners among: Universities · Public authorities · Research infrastructures · End users

WHAT WE CONTRIBUTE

Research on marine and freshwater ecosystem functioning and environmental status, with ISO/IEC 17025-accredited sampling and analysis, laboratories, coastal vessels, remote measurement equipment and the open-access LATMARE database. Delivers Latvia's national marine monitoring programme and brings experience from around 50 national and international projects.

- **Marine ecosystems -** hydrochemistry, oceanography, plankton and benthic ecology, pelagic-benthic relations, marine food webs and ecosystem services.
- **Ecotoxicology -** ecotoxicological testing of water, sediments and materials, biological effects of pollution, non-indigenous species and microplastics.
- **Remote measurements -** smart buoy, acoustic current profiler and underwater noise detectors, including work on the measurement and impact of underwater noise.
- **Monitoring and policy -** national marine monitoring linked to EU environmental directives, environmental assessments, marine spatial planning and policy-relevant scientific advice.

SELECTED PROJECTS

MarTe - marine technology excellence hub for sustainable blue economy in Baltics
Horizon Europe · task lead
Carries out the survey and analysis of the innovation ecosystem (T2.3) and the conceptual design of testbeds (T3.1).

GORSMART - smart platforms at Gulf of Riga and Moonsund
Interreg EstLat · team lead at the institute
Provides knowledge and expertise support for the development of smart buoys.

Marine environment research for the implementation of integrated maritime policy
EMFAF, national funds · team lead Juris Aigars
Obtains data, performs analysis and develops methods, models and assessment systems on the state of the marine environment and its pressures, as needed for the Marine Strategy Framework Directive programme of measures.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratories for measurements and analysis in inorganic chemistry, hydrobiology, ecotoxicology and microplastics; small vessels for sampling in coastal areas; remote measurement equipment including a smart buoy, an acoustic current profiler and underwater noise detectors; the open-access LATMARE database of long-term observations from the Baltic Sea, Gulf of Riga and harbour areas.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring

RESEARCH INSTITUTE · RIGA, LATVIA · LHEI.LV

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CORE TEAM

· **Elina Vecmane**
· **Valentina Burdukovska**
· **Anda Prokopovica**

KEYWORDS

Microplastics · Microplastic analysis · Aquatic pollution · Environmental monitoring · LDIR spectroscopy · Marine and freshwater ecosystems · Wastewater and drinking water

DOMAINS OF APPLICATION

Education · Natural Resources · Environment

PROFILE AT A GLANCE

Horizon Europe experience: We will start our first Horizon as project partners within a month

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Living labs

Seeks partners among: Universities · NGOs · Research infrastructures · SMEs · Public authorities

WHAT WE CONTRIBUTE

Expertise in microplastic pollution assessment in aquatic and terrestrial environments, from study design and sampling to identification and quantification in water, sediments, biota, soil, wastewater and drinking water. Specialised sampling equipment, laboratories and QA/QC workflows support field campaigns, method harmonisation, intercomparison studies and citizen science.

- **Microplastic analysis -** identification and quantification in water, sediments, biota, soil, wastewater and drinking water using LDIR and ATR-FTIR microspectroscopy.
- **Field sampling -** campaigns in marine, freshwater, urban and Arctic environments with specialised sampling equipment.
- **QA/QC & method development -** strict contamination control, method harmonisation, validation and intercomparison studies.
- **Citizen science -** public participation in microplastic monitoring and stakeholder engagement.

SELECTED PROJECTS

MP-ARCTIC - microplastics and persistent organic pollutants in post-glacial Arctic ecosystems

Latvia-Lithuania-Taiwan Trilateral Scientific Cooperation · lead partner

Contributes Arctic field sampling and microplastic analysis, investigating contaminant occurrence, pathways and accumulation in newly formed lagoons and adjacent coastal environments.

BioFloat - floating islands as biodiversity pit stops and pollution cut-outs

Interreg Estonia-Latvia Programme 2021-2027 · lead partner and coordinator

Coordinates the international consortium testing floating islands in urban water bodies in Latvia and Estonia, and contributes environmental monitoring, microplastic sampling and assessment of the pilots.

RESEARCH INFRASTRUCTURE & FACILITIES

Field sampling equipment for marine, freshwater and terrestrial environments (gravity corers, grab sampler, manta nets, pump for small microplastics, boats, sieves), and dedicated sample preparation facilities with contamination control and QA/QC procedures, including a laminar flow cabinet.

EXPERTISE WE ARE LOOKING FOR

Complementary expertise in pollution source identification, environmental and hydrodynamic modelling, ecotoxicology, ecosystem and human health impacts, wastewater and drinking-water treatment, nature-based solutions, remediation, data science, risk assessment, citizen science and socio-economic and policy analysis, so that microplastic data can be linked to sources, pathways, impacts and solutions.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Latvian Rural Advisory and Training Centre (LLKC)

PUBLIC AUTHORITY · LATVIA · LLKC.LV

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Director of International Cooperation and Economic Resources

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CORE TEAM

- **Anita Dzelme**
- **Agnese Readžele-Šulce**
- **Andis Kursītis**

KEYWORDS

Rural development · Agricultural advisory services · Sustainable agriculture · Knowledge transfer · Farmer training · Innovation · Digitalisation · Rural entrepreneurship · Stakeholder engagement · Agricultural education

DOMAINS OF APPLICATION

Education · Biodiversity · Forestry · Food Systems · Agriculture · Environment · Natural Resources · Digital Technologies

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication · Training & capacity building · Policy recommendations

Seeks partners among: Universities · SMEs · NGOs · Public authorities · End users · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in rural development, agriculture, advisory services, training and stakeholder engagement. LLKC supports international projects through access to farmers and rural stakeholders, pilot activities, knowledge transfer, capacity building, dissemination, and practical testing and uptake of innovative solutions in rural areas.

- **Advisory services -** agricultural and rural advisory services, interactive innovation and farmer engagement.
- **Training -** farmer and adviser training, capacity building and agricultural education.
- **Knowledge transfer -** knowledge exchange and uptake of innovation within agricultural knowledge and innovation systems (AKIS).
- **Living labs -** pilot activities and practical testing of solutions with farmers and rural stakeholders in real farming conditions.

SELECTED PROJECTS

GOOD - Agroecology for Weeds

Horizon Europe · project partner, Living Lab co-leader

Develops and tests agroecological weed-management solutions through a Living Lab approach, working with farmers and other stakeholders in real farming conditions.

ClimateSmartAdvisors - mobilising the EU agricultural advisory community

Horizon Europe · project partner

Supports capacity building, knowledge exchange and the uptake of climate-smart farming practices among farmers and advisers.

modernAKIS - modernising agricultural knowledge and innovation systems

Horizon Europe · project partner

Contributes advisory, knowledge exchange, training and stakeholder engagement expertise to strengthen Agricultural Knowledge and Innovation Systems (AKIS).

i2connect - connecting advisers to boost interactive innovation

Horizon 2020 · project partner

Contributed expertise in advisory services, interactive innovation, farmer engagement and knowledge exchange to practical approaches for agricultural advisers.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, NGOs, consultancies and technology providers with expertise in sustainable agriculture, climate-friendly farming, digitalisation, agroecology, biodiversity, rural development, food systems and innovative advisory methods, particularly partners who develop and test practical solutions that can be validated in real agricultural and rural settings.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · A Soil Deal for Europe			
Widening participation and strengthening the European Research Area			

Latvian State Institute of Wood Chemistry

RESEARCH INSTITUTE · RIGA, LATVIA · KKI.LV

Daniela Godina

Researcher

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CORE TEAM

· **Postdoctoral project** - single researcher at present

KEYWORDS

Lignocellulosic biomass valorisation · Bio-based materials · Biorefinery processes · Biomass extractives · Lignin and suberin · Bio-based polymers · Advanced analytical chemistry

DOMAINS OF APPLICATION

Education · Forestry · Natural Resources · Environment · Advanced Materials

PROFILE AT A GLANCE

TRL: 1-3
Horizon Europe experience: No experience yet
Can take on: WP leadership · Task leadership · Scientific leadership · Dissemination & communication · Proposal writing
Seeks partners among: Research infrastructures · Universities · SMEs

WHAT WE CONTRIBUTE

Expertise in lignocellulosic biomass valorisation, bio-based materials, biorefinery processes and advanced analytical chemistry. Can turn wood, bark and other biomass side streams into value-added chemicals, polymers and functional materials, from feedstock and process development to characterisation and laboratory-scale validation.

- **Biomass valorisation -** extraction and fractionation of wood, bark and other biomass side streams, including lignin-, suberin- and extractives-based products.
- **Chemical modification -** synthesis and modification of bio-based compounds, with process optimisation using Design of Experiments.
- **Chromatography & mass spectrometry -** GC-FID, GC-MS, headspace GC, HPLC/UHPLC and SEC/GPC, including analytical method development and validation.
- **Material characterisation -** FTIR, thermal analysis, SEM and N_2 physisorption for surface, porosity and thermal properties.

SELECTED PROJECTS

BirchSorb - bio-based polymer sorbents from birch bark extractives
ERDF Postdoctoral Research Programme · No. 1.1.1.9/LZP/1/24/029 · project lead
Synthesises and chemically modifies polymer sorbents from triterpene-rich birch bark fractions, with physicochemical and chromatographic characterisation, for liquid chromatography and solid-phase extraction.

SAMPUR - birch outer bark upcycled into bio-based polyol for rigid polyurethane foam
ERDF 1.1.1.3 · researcher, analytical chemistry and material characterisation
Developed and characterised suberinic-acid fractions from birch outer bark for bio-based polyols, and contributed analytical method development using chromatographic and spectroscopic techniques.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratories for biomass processing, extraction and fractionation, chemical synthesis and modification of bio-based compounds, and analytical characterisation.

EXPERTISE WE ARE LOOKING FOR

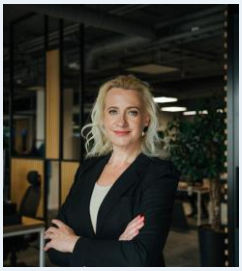
Universities, research institutes, SMEs, technology providers and industry in bio-based materials, polymer and surface chemistry, separation technologies and circular bioeconomy.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Latvian State Radio and Television Centre (LVRTC)

LARGE ENTERPRISE · RIGA, LATVIA · LVRTC.LV



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CORE TEAM

- **Jānis Delviņš** - cybersecurity and data centre business
- **Reinholds Nulle** - telecommunications network engineering
- **Sendijs Dzenītis** - cybersecurity technical department
- **Dita Krecere** - fibre infrastructure

KEYWORDS

Cybersecurity · Cyber resilience · Critical infrastructure protection · Critical infrastructure monitoring · Artificial Intelligence (AI) · Machine Learning · Computer Vision

DOMAINS OF APPLICATION

Defence · Digital Technologies · Artificial Intelligence · Cybersecurity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: No experience yet

Can take on: WP leadership · Task leadership · Pilot implementation · Validation & testing · Policy recommendations · Stakeholder engagement

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Latvia's state operator of secure digital infrastructure and trusted digital services, contributing operational environments where innovative digital solutions can be validated and deployed at national scale - cybersecurity, resilient connectivity, sovereign data centres, quantum communication and secure digital identity.

- **Secure digital identity -** eIDAS-compliant trust services, electronic signatures, the European Digital Identity Wallet.
- **Cybersecurity -** Security Operations Centre capabilities, threat detection, incident response, cyber resilience testing.
- **Resilient connectivity -** high-capacity fibre and broadcast networks, critical undersea infrastructure monitoring.
- **Quantum communication -** national QKD backbone, integration of quantum technologies into existing networks.

SELECTED PROJECTS

Regional Hub for Critical Undersea Infrastructure Protection

Digital Europe Programme · project partner

Equips submarine fibre-optic cables with Distributed Acoustic Sensing for real-time monitoring, and develops an early warning system and cross-border information exchange procedures for the Baltic Sea region.

LATQN - deploying advanced national QCI systems and networks

Digital Europe Programme · coordinator

Coordinates Latvia's national Quantum Communication Infrastructure as part of EuroQCI, establishing a QKD backbone and validating secure use cases for public administration, healthcare, finance and 5G.

NOBID - European Digital Identity Wallet pilot

Digital Europe Programme · technology partner

Developed Latvia's prototype wallet within the multinational NOBID consortium and validated cross-border digital identity, credential exchange and payment functions under eIDAS 2.0.

RESEARCH INFRASTRUCTURE & FACILITIES

Sovereign data centres with high-availability cloud and AI infrastructure; one of Latvia's largest fibre backbone networks as a live environment for connectivity, sensing and resilience research; Security Operations Centre and cyber range; eIDAS-compliant trust services; quantum communication test environment for QKD; AI and computer vision demonstration environments.

EXPERTISE WE ARE LOOKING FOR

Partners working on SOC networks and cross-border cyber threat intelligence, distributed acoustic sensing and subsea cable monitoring, quantum key distribution and QCI integration, AI-supported threat detection, and secure digital identity - with a view to interoperable regional capabilities at European scale.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Linearis

SME · LATVIA · LINEARIS.IO

Voldemars Bredikis

CEO

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CORE TEAM

· **Lauris Zemturis**
· **Eriks Bunclers**
· **Linda Silaja**

KEYWORDS

Digital · AI · Language · Multilingual · Market access · Social · Data security · Cybersecurity

DOMAINS OF APPLICATION

Healthcare · Public administration · Education · Cultural & Creative Industries · Digital Technologies · Artificial Intelligence

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: No experience yet

Can take on: WP leadership · Task leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication · Data management · AI / Digital tools · Policy recommendations · Validation & testing · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs · End users

WHAT WE CONTRIBUTE

Expertise and AI-supported tools for language applications in multilingual setups, combining social sciences with digital technologies, innovation management and internationalisation experience. Contributes technology, assessment, methodology development, anonymised data, market access for testing and piloting, project management and dissemination.

- **AI language tools -** AI-supported tools for language applications in multilingual setups.
- **Methodology & assessment -** development of methodologies and assessment approaches that combine social sciences with digital technologies.
- **Innovation management -** innovation management and internationalisation experience.
- **Piloting & market access -** market access in the Baltics for testing and piloting of solutions, supported by anonymised data.
- **Project delivery -** project management and dissemination.

SELECTED PROJECTS

RESEARCH INFRASTRUCTURE & FACILITIES

Multilingual data sets for language applications and access to the market in the Baltics.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

<table>
<tr><th>PILLAR I</th><th colspan="2">PILLAR II</th><th>PILLAR III</th></tr>
<tr><td>European Research Council</td><td>Cluster 1 "Health"</td><td>Cluster 4 "Digital, Industry and Space"</td><td>European Innovation Council</td></tr>
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<tr><td colspan="4">EU Missions and New European Bauhaus - New European Bauhaus</td></tr>
<tr><td colspan="4">Widening participation and strengthening the European Research Area</td></tr>
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Logics Research Centre SIA

SME · LATVIA

Mikus Vanags

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CORE TEAM

· **Mikus Vanags** - founder, postdoctoral researcher

KEYWORDS

Artificial Intelligence · AI for Science · Formal Methods · Programming Languages · Scientific Computing · Domain-Specific Languages · Software Engineering · Mathematics Education · Physics Education · Automated Assessment

DOMAINS OF APPLICATION

Education · Public administration · Digital Technologies · Artificial Intelligence

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Dissemination & communication · Exploitation · Data management · AI / Digital tools · Validation & testing · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures · End users

WHAT WE CONTRIBUTE

Expertise in programming language design, formal methods, AI-assisted scientific computing, research software engineering and digital technologies for mathematics and physics education. Contributes methods and tools that make AI-generated calculations more structured, reproducible and verifiable, plus research software, demonstrators and validation.

- **Language design -** domain-specific language design and compiler and interpreter development, supported by patented concepts such as implicit parameters and extension-style property calls.
- **Formal methods -** formal specification and verification with Lean 4, and formal modelling of computational approaches.
- **Research software -** .NET/C# software engineering, rapid prototyping, automated testing, benchmarking and integration of research results into software tools and demonstrators.
- **AI-assisted computing -** reliable computational tools for AI-assisted problem solving in mathematics and physics, with reproducible and verifiable calculations.
- **Educational assessment -** automated assessment and digital technologies for mathematics and physics education.

SELECTED PROJECTS

KatLang - Domain-Specific Language for Mathematics and Physics Problem Solving

European Regional Development Fund, Postdoctoral Research Programme · 2026-2029 · project implementer

Develops KatLang, a formally specified language for reliable mathematical and physical computation: semantic design, Lean 4 verification, .NET/C# runtime and tools, validation, assessment methods and a browser-based demo.

RESEARCH INFRASTRUCTURE & FACILITIES

KatLang, an open-source domain-specific language and research platform for AI-assisted mathematics and physics, comprising a formally specified semantic model in Lean 4, a .NET/C# runtime and command-line tools, an automated validation and testing environment and a browser-based interactive demonstrator. Also patented programming-language concepts (implicit parameters, extension-style property calls) for research on language design and developer tools.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, technology companies, research infrastructures and end-user organisations working in AI for Science, formal methods, programming languages, scientific computing, mathematics and physics education, and trustworthy AI. Expertise sought includes large language models for scientific reasoning, automated theorem proving, educational assessment and human-AI interaction, and use cases, datasets and pilot environments.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Naco Technologies

SME · RIGA, LATVIA · NACO.TECH

Julija Barbakadze

Project Manager

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CORE TEAM

- **Pavels Nazarovs** - coating technology
- **Janis Zideluns** - process engineering
- **Andrejs Terehovs** - materials development

KEYWORDS

Nanocoatings · Coatings · Magnetronsputtering · Energy · Hydrogen · Electrolyzer · Fuelcells · Cleantech · Materialscience

DOMAINS OF APPLICATION

Energy

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Submitted as a project partner · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Dissemination & communication · Exploitation · Data management

Seeks partners among: SMEs · Large industry · Public authorities · Research infrastructures · Universities

WHAT WE CONTRIBUTE

A specialised provider of advanced nano-coatings based on its proprietary High-Speed Magnetron Sputtering (HMS) technology - a process tested and validated with industrial customers. Naco's protective and catalytic coatings are a cost-effective alternative to conventional methods, cutting precious-metal consumption while improving component efficiency, durability and service life.

- **Catalytic coatings -** nano-structured catalyst layers for water electrolysers and hydrogen fuel cells with reduced or eliminated platinum group metals.
- **Protective coatings -** interconnector and component coatings for demanding electrochemical and high-temperature environments.
- **HMS process technology -** high-speed magnetron sputtering, scale-up from laboratory to industrial deposition.
- **Industrial validation -** coating performance testing with industry customers and integration into manufacturing.

SELECTED PROJECTS

Novel catalyst coatings for water electrolysers and fuel cells

EIC Accelerator

Develops and scales superior catalyst coatings with drastically reduced or eliminated platinum group metals.

Hydrogen fuel cell technology for space applications

European Space Agency · lead component development

Applies HMS technology to manufacture refined catalyst-coated membranes for space and broader terrestrial use.

PILOTSOEL - upscalable, low-cost solid oxide electrolyser components

Multi-partner research consortium · partner

Develops advanced interconnector coatings for solid oxide electrolyser cells.

Nano-structured catalytic coatings for alkaline and AEM electrolysers

Smart Materials Competence Centre (VMKC) · 2024-2026 · sole research lead

Uses magnetron sputtering to enhance catalyst efficiency and reduce material cost in alkaline environments.

RESEARCH INFRASTRUCTURE & FACILITIES

In-house coating laboratory with high-speed magnetron sputtering equipment for development, testing and pilot-scale production of catalytic and protective nano-coatings.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Biotic Interaction Research Group

RESEARCH INSTITUTE · RIGA, LATVIA · NIRI.LV



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CORE TEAM

- **Dita Gudrā** - bioinformatics
- **Ineta Kalniņa** - molecular genetics
- **Ance Roga** - metagenomics
- **Edgars Liepa** - sequencing technologies

KEYWORDS

Metagenomics · Bioinformatics · Genomics · GPCR pharmacology · ARG · Pathogens · Molecular interactions · Environmental interactions

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Smart Cities · Biodiversity · Forestry · Natural Resources · Food Systems · Agriculture · Environment

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Two complementary methodological domains: sequencing-based analysis of nucleic acids from virtually any biological sample, and molecular cloning and functional characterisation of recombinant proteins, particularly G protein-coupled receptors.

- **Sequencing & bioinformatics -** long- and short-read NGS of DNA and RNA; whole genome, transcriptome, metagenome and amplicon analysis with algorithmic and AI tools.
- **Environmental & microbiome studies -** microbial communities in marine and soil environments, plant-microbe interaction, pathogen and antimicrobial resistance gene monitoring in wastewater and the human gut.
- **Animal genomics -** population genetics of wild animals and genomics of domesticated species.
- **GPCR pharmacology -** expression in E. coli, P. pastoris and mammalian and avian cell systems; functional characterisation, medically relevant mutations, ligand search for known and orphan receptors.
- **Quantification -** qPCR and ddPCR quantitation of selected nucleic acid sequences.

SELECTED PROJECTS

Functional characterisation of GPCR gene mutations and search for new ligands

Latvian Council of Science · lzp-2025/1-0507 · 2026-2028 · project leader

Characterises disease-relevant mutations in G protein-coupled receptors and screens for novel ligands.

Streptomyces SynComs against ash dieback and acute oak decline

Latvian Council of Science · lzp-2024/1-0109 · 2025-2027 · co-leader

Uses genomics and transcriptomics to stack antagonistic mechanisms from an underexplored strain collection into synthetic microbial communities.

BlueRemediomics - harnessing the marine microbiome for sustainable biogenics

Horizon Europe · No. 101082304 · 2022-2026 · collaboration partner

Contributes metagenomic sequencing and analysis of marine microbial communities for novel bioactive compounds and ecosystem services.

RESEARCH INFRASTRUCTURE & FACILITIES

The Genome Centre - Latvia's main provider of biobanking and genome analysis services; a cell biology and microscopy core facility with BSL2 and BSL3 cell culture areas; a specific-pathogen-free small animal facility for in vivo work; and a biotechnology core facility covering expression systems, production optimisation, purification protocols and scale-up to 20 L.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Cancer Biomarker group

RESEARCH INSTITUTE · RIGA, LATVIA · NIRI.LV



Aija Linē

Group Leader

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CORE TEAM

· **Pawel Zayakin**
· **Lilite Sadovska**
· **Agnese Brokāne**

KEYWORDS

Extracellular vesicles · Cancer · Biomarkers · Drug delivery

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Digital Technologies · Biotechnology · Advanced Materials

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Dissemination & communication · Data management · AI / Digital tools · Training & capacity building

Seeks partners among: Universities · SMEs · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in isolating extracellular vesicles (EVs) from biofluids and cell culture media, mass production of EVs from cell lines, EV characterisation and quality control, and exploring molecular cargo and function in model systems with multiomics technologies. The group contributes to EV-based technology development for cancer diagnosis, monitoring and treatment.

- **EV isolation -** isolation of extracellular vesicles from biofluids and cell culture media, and mass production from cell lines.
- **EV characterisation -** characterisation and quality control of extracellular vesicles.
- **Molecular cargo and function -** exploration of EV cargo and functions in various model systems using multiomics technologies.
- **Cancer biomarkers -** EV-based technologies for diagnosis, monitoring and treatment of cancer, including liquid biopsies and drug delivery.

SELECTED PROJECTS

FLUID-C - functional liquid biopsies for detection and monitoring of breast cancer

State Research Programme BioPhoT · project leader

Leads development of functional liquid biopsies for the detection and monitoring of breast cancer.

CancerBeat - molecular mechanisms of exercise effects on breast cancer prevention

EEA and Norway Grants · coordinator

Coordinates research into the molecular mechanisms behind the effects of physical exercise on breast cancer prevention.

Nano4Zombie - senolytic nanoplatform against skin cancer zombie cells

M-ERA.NET · No. ES RTD/2023/38 · project partner

Partner in developing a senolytic nanoplatform to target and eliminate skin cancer zombie cells.

PROSCANEXO - extracellular vesicles for precision diagnostics of prostate cancer

ERA-NET TRANSCAN-2 · project partner

Partner in exploiting extracellular vesicles for precision diagnostics of prostate cancer.

RESEARCH INFRASTRUCTURE & FACILITIES

Transcriptomics and gene expression (full transcriptome sequencing, single-cell RNA sequencing, ddPCR), spatial multiomics (Teton cytoprofiling), spectral FACS with a small particle detection module, nanoparticle tracking analysis (NTA), ultracentrifugation, cell culture and microscopy facilities, a bioreactor, and laboratory animal and bioinformatics core facilities.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Cancer Gene Therapy Group

RESEARCH INSTITUTE · RIGA, LATVIA · NIRI.LV



Anna Zajakina

Head of the Cancer Gene Therapy Group

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CORE TEAM

· **Juris Jansons** - viral vector engineering
· **Dace Skrastiņa** - preclinical models
· **Karīna Spunde** - immunology

KEYWORDS

Virus vectors · Pseudoparticles · Virus-like particles · Cancer immunotherapy · Gene delivery · Vaccines · Adjuvants · Cancer biology

DOMAINS OF APPLICATION

Biotechnology · Healthcare · Pharmaceuticals · Medical Technologies · Environment · Immunology

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Dissemination & communication · Data management · Training & capacity building · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in cancer gene therapy, viral vector development, tumour-associated macrophage reprogramming, myeloid cell biology, cancer immunotherapy and genetic adjuvants, with preclinical evaluation of novel therapeutic strategies. A particular strength is replication-deficient alphavirus vectors for local delivery of cytokines and immune-modulating factors into tumours.

- **Viral vectors -** design and production of alphavirus vectors, pseudoparticles and virus-like particles for gene delivery and vaccines.
- **Tumour immunology -** macrophage reprogramming, CAR-macrophage development, modelling of intratumoral immune infiltration.
- **Preclinical evaluation -** in vivo tumour models, multiparametric cytometry, microscopy and molecular analysis.
- **Vaccines & adjuvants -** recombinant vaccine prototypes and genetic adjuvants, including HBc VLP-based platforms.

SELECTED PROJECTS

Tumour-associated myeloid cell dynamics in response to alphavirus-driven immunomodulation

Latvian Council of Science · lzp-2024/1-0254 · 2025-2027 · €300 k · coordinator

Explores how alphavirus-driven immunomodulation reshapes myeloid cell populations within the tumour microenvironment.

CAR-macrophages and intratumoral infiltration in a breast cancer model

ANM consolidation project · 2024-2026 · €300 k · coordinator

Develops chimeric antigen receptor macrophages and models their infiltration into breast tumours.

Programming the breast cancer microenvironment towards immune responsiveness

Latvian Council of Science FLPP · 2022-2024 · €300 k · principal investigator

Converted immunologically "cold" tumours into responsive ones through targeted modulation of the microenvironment.

RESEARCH INFRASTRUCTURE & FACILITIES

BSL2 and BSL3 laboratories, animal core facility, electron microscopy core facility, cell culture and flow cytometry core facility, microbiology core facility and genome sequencing core facility.

EXPERTISE WE ARE LOOKING FOR

Partners in AI and computational modelling of immune processes - tumour-immune interaction, myeloid cell dynamics, treatment response prediction, biomarker discovery and multidimensional data integration - and groups working with CAR technologies and advanced in vitro and in vivo models such as tumour organoids and 3D co-culture systems.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Molecular and Functional Genomics Group

RESEARCH INSTITUTE · RIGA, LATVIA · NIRI.LV



Vita Rovīte

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CORE TEAM

- **Raitis Pečulis** - senior researcher, genomics
- **Helvijs Niedra** - researcher, transcriptomics
- **Ilona Mandrika** - researcher, functional cell models

KEYWORDS

Cancer · Autoimmune disease · Personalized medicine · Omics technologies · Single cell seq · Spatial transcriptomics · Bioinformatics · Biobank cohorts

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Living labs

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

The group works on discovering molecular markers and mechanisms of human disease development and progression, in order to find actionable targets that improve diagnostics, prognostics and disease management - with a focus on neuroendocrine tumours and autoimmune disease, and a wide collaborative network in oncology and gastroenterology.

- **Omics technologies -** single-cell and spatial transcriptomics, next-generation sequencing approaches in translational medicine.
- **Functional models -** functional cell models for validating molecular findings and candidate targets.
- **Bioinformatics -** analysis and integration of complex omics datasets across biobank cohorts.
- **Disease focus -** neuroendocrine tumours, autoimmune disease, gastric and pancreatic cancer.
- **Biobank cohorts -** access to well-characterised patient cohorts through the national biobank.

SELECTED PROJECTS

Immune and microbiome determinants of gastric atrophy progression

ERDF · 1.1.1.3/1./24/A/034 · project leader

Combines mouse models and patient tissue spatial transcriptomics to understand progression and attenuation of gastric atrophy.

JA PCM - Joint Action Personalised Cancer Medicine

EU4Health · No. 101233450 · national project leader

Leads Latvian participation in the European joint action on personalised cancer medicine.

REACH - reversing epitranscriptomic alterations for chemosensitisation of pancreatic cancer

Joint Transnational Call 2023 · national project leader

Investigates epitranscriptomic mechanisms of chemoresistance in pancreatic cancer.

RESEARCH INFRASTRUCTURE & FACILITIES

The national biobank Genome Database of the Latvian Population, with patient recruitment laboratories in the largest university hospitals; a genotyping and sequencing facility (MGI2000, Illumina MiSeq, PromethION, Element Biosciences AVITI24, automated sample preparation, capillary sequencing, real-time PCR); a laboratory animal core facility in newly built premises; and a cell culture facility with microscopy, cell sorting and live-cell imaging systems.

EXPERTISE WE ARE LOOKING FOR

Partners with preclinical animal models (PDX, orthotopic models for pancreatic cancer and glioma) and functional assays for validating novel targets, and providers of AI, machine learning and advanced bioinformatics able to integrate spatial transcriptomics, scRNA-seq and multi-omics datasets.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Pharmaceutical Pharmacology

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CORE TEAM

· **Edgars Liepinsh**
· **Liga Zvejniece**
· **Reinis Vilskersts**
· **Baiba Svalbe**

KEYWORDS

Preclinical drug discovery · ADME/PK · Cardiometabolic · Mitochondria · Metabolic phenotyping · Biomarker · Pharmacology

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Large industry · Hospitals · End users · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in preclinical drug discovery and development, target validation, metabolic pharmacology, mitochondrial energy metabolism and biomarker discovery, using in vitro, ex vivo and in vivo approaches. The laboratory contributes preclinical proof-of-concept, metabolic and mitochondrial phenotyping, ADME/PK and safety assessment, and experimental design and validation.

- **Preclinical pharmacology -** cell-based assays, isolated organs, specialised rodent models, pharmacological profiling, ADME/PK and safety assessment.
- **Metabolic phenotyping -** whole-animal metabolic phenotyping and metabolic pharmacology to investigate mechanisms of disease.
- **Mitochondrial function -** high-resolution respirometry with simultaneous fluorometry and potentiometry in cells, isolated mitochondria, tissue homogenates and permeabilised tissues.
- **Omics & biomarkers -** targeted metabolomics and lipidomics, gene and protein expression analysis, clinical biomarker assessment and biomarker development.

SELECTED PROJECTS

BioTransform - Mapping the uncharted human metabolism for novel food bioactives
Horizon Europe MSCA DN (HORIZON-MSCA-2024-DN-01) · Project No. 101225248 · partner
Contributes infrastructure for microsomal metabolism and in vitro anti-obesity mechanism studies.

BBCE - Baltic Biomaterials Centre of Excellence
Horizon 2020 Teaming (H2020-WIDESPREAD-018-01) · GA 857287 · 2020-2026 · partner
Provides infrastructure for preclinical evaluation of biomaterials.

TARGETWISE - Functional omics analysis of metabolic diseases
ERDF-refinanced Horizon Europe ERA Chair · Project Nr. 1.1.1.5/2/24/A/003
ERA Chair project on functional omics analysis of metabolic diseases to advance drug discovery research excellence.

RESEARCH INFRASTRUCTURE & FACILITIES

Equipment for organic, medicinal and analytical chemistry and analysis of biological samples, including Waters UPLC Acquity H-class with Xevo TQ-S and Synapt G2-Si TOF mass spectrometers. Preclinical platform with in vivo, ex vivo and in vitro models and an EU-compliant animal facility. Sable Systems Promethion Core (16 cages) for food and water intake, movement, wheel running, O2 consumption and CO2 production. OROBOROS Oxygraph-2k with multi-sensor modules. Leica STELLARIS, SP8 and SP8 MP STED/FLIM/FCS microscopes.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

National Institute of Research and Innovation - Technology Transfer Office

RESEARCH INSTITUTE · RIGA, LATVIA · NIRI.LV



Anna Stikane

Head of Innovation Hub

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CORE TEAM

- **Anna Stikane** - technology transfer manager
- **Kristine Capase-Jastrzembska** - patent manager, IP strategy
- **Andrii Lozoniuk** - business developer, contract research
- **Aigars Lazdins** - project manager, BioPhoT

KEYWORDS

Technology transfer · Innovation ecosystem · Industry relations · Life sciences · Biomedicine · Technology transfer capacity building

DOMAINS OF APPLICATION

Pharmaceuticals · Entrepreneurship · Biotechnology · Healthcare · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner

Can take on: WP leadership · Task leadership · Pilot implementation · Stakeholder engagement · Exploitation · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Hospitals · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

NIRI integrates fundamental, applied and translational research across health, technology and environmental sciences, with experience in 22 Horizon 2020 and 18 Horizon Europe projects (10 coordinated). Its technology transfer office brings innovation ecosystem and industry network management, stakeholder engagement, training and capacity building in technology transfer.

- **Technology transfer -** innovation development, collaborations and partnerships, contracts and intellectual property.
- **IP protection -** patent management and IP protection strategy.
- **Business development -** contract research and scientific services.
- **Innovation programmes -** development, coordination and stakeholder management of the national translational fund BioPhoT.
- **Capacity building -** training in technology transfer and research management, and networking through the national TT and Patlib network, Baltics TTO network, Alliance4Life and ASTP.

SELECTED PROJECTS

BioPhoT - Biomedical and Photonics Research Platform for Innovative Products

Long-term National Research Programme · 2024-2032 · coordinator

Establishes a long-term interdisciplinary platform for biomedicine and photonics, aiming to advance at least 35 new technologies by 2032 through technology transfer and innovation education support.

Natalion - natural products research as a driver for excellence in innovation

Horizon Europe · HORIZON-WIDERA-2022-TALENTS-01 · 2023-2027 · coordinator

Fosters innovation excellence at NIRI (formerly the Latvian Institute of Organic Synthesis), with training in research management, science communication, technology transfer and entrepreneurial skills.

A4L_BRIDGE - bridging the research and innovation gap in life sciences

Horizon Europe · HORIZON-WIDERA-2023-ACCESS-03 · 2024-2028 · partner

Develops an industry relationship platform and an educational matrix, including mentoring, e-learning and international internships for academic and non-academic staff at all career stages.

BIOCONNECT - action plan for the Baltic biotechnology and synthetic biology ecosystem

Horizon Europe · HORIZON-EIE-2023-CONNECT-01 · 2023-2025 · partner

Supported biotechnology-driven innovation by strengthening an integrated and inclusive Baltic ecosystem and fostering collaboration and competitiveness in the regional bioeconomy.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

NewDoor

NGO · LATVIA · NEWDOOR.LV



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CORE TEAM

- **Maria Povilaite** - co-founder, business and innovation strategist
- **Olga Kotova** - co-founder, board member, finance and mentoring

KEYWORDS

Research-to-Market Commercialisation · Science-Based Venture Acceleration · Women-Led Deep Tech · Gender-Smart Investment Readiness · TRL Advancement · Impact Venture Development · Startup Validation Methodologies

DOMAINS OF APPLICATION

Education · Medical Technologies · Biodiversity · Environment · Healthcare · Cultural & Creative Industries · Digital Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Consortium coordination · WP leadership · Task leadership · Dissemination & communication · Training & capacity building

Seeks partners among: SMEs · Universities · NGOs · Public authorities

WHAT WE CONTRIBUTE

Methodologies for research-to-market commercialisation, science-based venture acceleration, investment readiness and social impact, with particular expertise in women-led and gender-inclusive innovation. The team connects researchers, startups, investors, public institutions and civil society, supporting exploitation, mentoring, scouting and ecosystem building.

- **Commercialisation -** TRL-oriented pathways, customer and market validation, business model design, pricing and revenue strategy and investor preparation.
- **Acceleration & incubation -** design of acceleration and incubation methodologies, startup scouting and assessment, mentoring and expert matching.
- **Women-led innovation -** support for female founders in deep tech, healthtech, biotech and other innovation-driven sectors.
- **Social impact -** impact venture development, social innovation and measurable societal impact in commercialisation strategies.

SELECTED PROJECTS

RESIST - Social Innovation Impact Assessment Framework

Interreg Baltic Sea Region · 2024-2025 · methodology developer and expert contributor

Developed a social innovation impact assessment framework and practical toolkit with Riga Technical University, validated with organisations from six countries, and contributed to piloting and Train-the-Trainer activities.

4RNetworks Ukraine - sustainable rehabilitation networks in Ukrainian communities

Development Cooperation Grant Programme, Ministry of Foreign Affairs of Latvia · 2025-2026 · partner

Contributes business modelling, social entrepreneurship, acceleration methodology, cross-sector collaboration and knowledge transfer to a Latvia-Ukraine initiative combining research, capacity building and incubation.

RESEARCH INFRASTRUCTURE & FACILITIES

Innovation, validation and commercialisation infrastructure rather than laboratories: living-lab and pilot environments with startups, researchers, women founders, mentors, investors, corporates and public-sector stakeholders; acceleration and investment-readiness methodologies; the RESIST framework and toolkit developed with Riga Technical University; mentor and investor networks; startup cohorts for piloting and validation; and workshop, mentoring, pitching and matchmaking formats.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga East University Hospital

HOSPITAL · RIGA, LATVIA · ASLIMNICA.LV



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CORE TEAM

- **Kristine Baumane** - ophthalmology
- **Alinta Hegmane** - oncology
- **Igors Ivanovs** - surgery
- **Guntis Karelis** - neurology
- **Baiba Lace** – genetics
- **Agnese Ozolina** - anaesthesiology
- **Oksana Savicka** - microbiology, clinical laboratory science
- **Elina Sivina** - oncology

KEYWORDS

Personalized Medicine · Healthcare · Precision Medicine · Biomarkers · Biobanking

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Education · Basic Medicine · Clinical Medicine · Health Sciences

PROFILE AT A GLANCE

Horizon Europe experience: Horizon joint research projects JANE, ERDERA, EUnetCC

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Hospitals · Universities · Public authorities · SMEs · Large industry · Research infrastructure

WHAT WE CONTRIBUTE

Riga East University Hospital is the largest hospital in Latvia and the second largest in the Baltic states, with over 5,000 employees. Its research focuses on advancing medical knowledge and improving patient care through high-level scientific research and a multidisciplinary approach to healthcare.

- **Research areas -** cancer research, infectious diseases, neurological disorders, metabolic and autoimmune diseases, surgery, biobanking, ophthalmology and personalised medicine.
- **Research methodologies -** development of novel investigation methodologies and techniques.
- **Infrastructure & staff -** high-tech equipment in radiology and laboratory services, supported by highly qualified staff.
- **Knowledge transfer -** training, publications and public awareness.
- **Collaboration -** extensive cooperation with universities, research institutions and international organisations to support collaboration and knowledge sharing.

SELECTED PROJECTS

CRANE - European Network of Comprehensive Cancer Centres
EU4Health

EUnetCCC - The European Comprehensive Cancer Center Network
EU Horizon

ECHOS - Establishing of Cancer Mission Hubs: Networks and Synergies
EU4Health

ERDERA - European Rare disease Research Alliance
EU Horizon

HERA - Human and Environmental Risk Assessment
EU4Health

EUonQoL, European Oncology Quality of Life Toolkit
EU4Health

JANE2 - Joint Action on Networks of Expertise on Cancer
EU Horizon

RESEARCH INFRASTRUCTURE & FACILITIES

A multidisciplinary infrastructure across 5 hospitals with wide spectrum of specialities.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, hospitals, clinical centres, pharmaceutical companies, health policy organisations.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Extended Reality in Rehabilitation

UNIVERSITY · RIGA, LATVIA · RSU.LV



Agris Liepa

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CORE TEAM

- **Edgars Bernans**
- **Gints Peleckis**
- **Issei Ogasawara**
- **Guna Semjonova**

KEYWORDS

Extended reality · Mixed reality · Cognitive function · Decision making · Stress · Sport · Athletes · Adolescent · Breathing biofeedback · Seniors

DOMAINS OF APPLICATION

Healthcare · Digital Technologies · extended reality

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Living labs · AI / Digital tools · Training & capacity building · Validation & testing · Task leadership · Scientific leadership · Pilot implementation · Data management

Seeks partners among: Universities · SMEs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Expertise in sports science, exercise physiology, rehabilitation, sport biomechanics, cognitive performance and technology-supported athlete assessment, with experience of pilot studies and randomised controlled trials with adolescent athletes. A mixed-reality platform with eye tracking and breathing biofeedback has been tested in real training environments.

- **Mixed-reality interventions -** development and evaluation for attention, stress regulation, breathing biofeedback and sport-specific cognitive-motor performance.
- **Athlete assessment -** wearable and laboratory-based methods, eye tracking, biomechanics and cognitive-motor testing.
- **Trials in sport -** pilot and feasibility studies and randomised controlled trials with adolescent athletes, including ethics and statistical analysis.
- **Project delivery -** protocol development, research governance, participant recruitment, intervention implementation, data collection, dissemination and coordination.

SELECTED PROJECTS

Mixed-reality platform for adolescent basketball players

Pilot studies and three-arm feasibility randomised controlled trial · 81 athletes

Scientific leadership, study design, intervention development, recruitment, data collection, physiological and cognitive assessment, statistical analysis, coordination and dissemination.

RESEARCH INFRASTRUCTURE & FACILITIES

Facilities and equipment of the RSU Sport Academy and the Healthcare Sports Research Centre, and sport-specific testing environments for research with athletes. Standalone HTC VIVE Focus Vision mixed-reality headsets with binocular eye tracking, mixed-reality software for cognitive attention and breathing-biofeedback training, basketball-specific testing environments and functional XR prototypes.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, sports and healthcare organisations, SMEs and technology providers with expertise in extended reality, eye tracking, biomechanics, wearable sensors, artificial intelligence and digital health, to develop and validate immersive technologies for sports science, rehabilitation and injury prevention. Complementary infrastructure, athlete or patient populations and Horizon Europe experience are also sought.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Feminist Investigations research group

UNIVERSITY · RIGA, LATVIA · RSU.LV



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CORE TEAM

- **Diāna Kiščenko**
- **Elza Lāma**
- **Agnese Bankovska**

KEYWORDS

Gender and intersectionality · Social anthropology · Post-socialist studies · Digital and media studies · Food studies

DOMAINS OF APPLICATION

Healthcare · Education · Cultural & Creative Industries · Defence · Artificial Intelligence

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: Universities · Public authorities · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Interdisciplinary expertise in feminist research, social anthropology, sociology, media and communication studies, art studies and cultural analysis, connecting the social sciences and humanities with medical, environmental, technological and cultural research.

- **Gender & intersectionality -** intersectional, postcolonial and post-socialist feminist approaches; gender and sexuality, reproductive politics, care and social reproduction, motherhood, family and kinship, and migration.
- **Qualitative methods -** ethnographic and anthropological research, semi-structured interviews, thematic, critical discourse, media, visual and narrative analysis, and non-verbal and creative methods.
- **Digital culture & food -** digital communication, social media and online narratives, digital care work, and the anthropology of food and alternative food systems.

SELECTED PROJECTS

INCLUDE - fostering inclusive biomedicine gaps in research and higher education

Horizon Europe · 2025-2026 · partner coordinator, Rīga Stradiņš University

Coordinates the university's contribution on gender equality and inclusion in biomedical research and higher education, identifying structural gaps and supporting institutional change through gender equality planning.

SHIFT - shaping informed frameworks for trust

EU-funded research project · 2026-2027 · researcher, partner team

Contributes to a 13-country project on the societal impact of disinformation, combining cross-national research, behavioural segmentation and campaign testing to develop evidence-based counter-narratives.

RESEARCH INFRASTRUCTURE & FACILITIES

Interdisciplinary research environments linking social sciences and humanities with health and biomedical research; qualitative research capacity for interviews, ethnography, focus groups, narrative and discourse analysis; digital and media research environments; qualitative datasets on gender, motherhood, migration, food practices and kinship (subject to ethical and data-protection requirements); and participatory spaces for workshops, stakeholder engagement, seminars, exhibitions and public events.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, public authorities, NGOs, cultural organisations and other societal partners whose expertise complements social sciences, humanities, cultural studies and interdisciplinary research.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group

UNIVERSITY · RIGA, LATVIA · RSU.LV



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CORE TEAM

· **Kristīne Rolle**
· **Anna Wilczynska**
· **Jānis Šabanovs**

KEYWORDS

Rural and urban development · Food systems · Landscape planning and design · Human-nature relations · Public health and well-being · Participatory research and co-creation · Social and spatial justice

DOMAINS OF APPLICATION

Healthcare · Transport & Mobility · Education · Cultural & Creative Industries · Smart Cities · Biodiversity · Forestry

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation

Seeks partners among: End users · Research infrastructures · NGOs · Hospitals · Public authorities

WHAT WE CONTRIBUTE

Interdisciplinary expertise in spatial planning, sociology, anthropology, economics, legal studies, tourism and agronomy, applied to rural and urban development, healthy and sustainable food systems and landscape planning. Contributes methodology development, participatory multi-actor research, pilot implementation, impact assessment, policy translation and creative dissemination.

- **Participatory research -** multi-actor research, co-creation, ethnographic and qualitative research, interviews and surveys including PPGIS, and citizen science methods.
- **Landscape planning -** evidence-based landscape planning and design, nature-based and community-led solutions, spatial scenarios, co-design and evaluation of interventions.
- **Food systems -** healthy and sustainable food systems, rural and urban development, bioeconomy and NEB business models.
- **Health and well-being -** assessment of health and well-being, environmental preferences and perceptions, and human-nature relations.

SELECTED PROJECTS

FoodCityBoost - growing together: a sustainable future across Europe's urban landscapes
Helps develop the foundations for food-producing urban spaces such as rooftops, balconies and vertical spaces, addressing climate change, biodiversity loss and the divide between urban, peri-urban and rural areas.

RISE AgriFoodLV - resilient, innovative, sustainable and efficient agrifood system in Latvia
Develops knowledge and scientifically substantiated, innovative solutions to improve the sustainability and competitiveness of Latvia's agrifood system and its resilience to crises and external risks.

RESEARCH INFRASTRUCTURE & FACILITIES

Research tools and infrastructure including MaxQDA and ArcGIS; Living Labs across Latvia; an in-house expert maintaining industry relations; Doctoral School for recruiting and training first-stage researchers; Career Guidance and Wellbeing Centre; Data Curator Unit and institutional Dataverse repository (FAIR principles); Statistics Unit; AI Support Unit.

EXPERTISE WE ARE LOOKING FOR

Research institutions, municipalities, SMEs, NGOs and technology providers working on rural and urban development, agriculture and ecology, public health, biodiversity, nature-based solutions, bioeconomy and sustainable food systems.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Institute of Oncology and Molecular Genetics

UNIVERSITY · RIGA, LATVIA · RSU.LV

RSU Institute of Oncology and Molecular Genetics

Ilga Misāne

Expert in Research Project Preparation

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CORE TEAM

- **Zanda Daneberga** - molecular genetics
- **Arvīds Irmejs** - clinical oncology, hereditary cancer
- **Linda Gailīte** - medical genetics
- **Mirjam Blattner Johnson** - cancer genomics

KEYWORDS

Cancer · Oncology · Molecular Genetics · Hereditary Diseases · Rare Diseases · Population Screening · Prevention · Early Diagnostics

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Education · Artificial Intelligence · Electronics & Photonics · Digital Technologies

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Living labs · Dissemination & communication · Policy recommendations · Training & capacity building

Seeks partners among: Universities · SMEs · Hospitals · End users · Patients Organizations, Charity Foundations · NGOs · Public authorities

WHAT WE CONTRIBUTE

Expertise in genetics, oncology, rare diseases and personalised medicine, combining laboratory diagnostics with social science, digital technology and policy work. The institute supports consortia in methodology development, pilot implementation, impact assessment, dissemination and exploitation.

- **Hereditary and rare disease genetics -** diagnostics, family studies and clinical follow-up in inherited cancer syndromes.
- **Population screening & early diagnostics -** liquid biopsy biomarkers, polygenic risk scores, prevention pathways.
- **Participatory research -** qualitative and quantitative studies, patient and public involvement, health policy development.
- **AI-supported medical technology -** development and evaluation of digital tools for oncology and rare disease care.
- **Education & outreach -** public awareness and professional training on inherited and life-long oncological and rare diseases.

SELECTED PROJECTS

PREDI-LYNCH - non-invasive liquid biopsy tests for cancer prediction in Lynch syndrome

Horizon Europe · partner · predi-lynch.eu

Contributes patient cohorts, molecular genetic analysis and validation of liquid biopsy tests for cancer prediction in hereditary Lynch syndrome.

JA PCM - Joint Action Personalised Cancer Medicine

EU4Health · affiliated partner · japcm.eu

Selected participant in the polygenic risk score (PRS) pilot, contributing to the implementation of personalised cancer risk assessment in national health systems.

LiqBio-BC - liquid biopsy biomarkers for bladder cancer diagnostics

BioPhoT State Research Programme · coordinator

Coordinates development and clinical validation of liquid biopsy biomarkers for bladder cancer diagnosis and monitoring.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratory of Tumour Clinical and Genetic Research and the Scientific Laboratory of Molecular Genetics - an accredited medical laboratory (ISO 15189) - providing clinical genetic testing, tumour and germline analysis, and access to well-characterised patient cohorts in hereditary cancer and rare disease.

EXPERTISE WE ARE LOOKING FOR

Partners experienced in coordinating and implementing EU-funded projects in cancer, rare diseases, personalised medicine, population genetic screening, and health policy development, particularly under Horizon Europe and EU4Health.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Integrative Bioinformatics Group

UNIVERSITY · RIGA, LATVIA · SCIENCE.RSU.LV

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KEYWORDS

Omics data integration · Multimodal health data · Machine learning · Biomarker discovery · Synthetic health data · Privacy-preserving analytics · FAIR computational workflows

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Digital Technologies · Artificial Intelligence · Cybersecurity · Biotechnology

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Consortium coordination · Pilot implementation

Seeks partners among: Universities · Hospitals · Large industry · Research infrastructures

WHAT WE CONTRIBUTE

Computational approaches for integrating multi-modal health, phenotypic and omics data across cohorts and experimental systems, combining supervised and unsupervised learning to derive reproducible, interpretable representations for biomarker discovery, risk prediction and subgroup stratification - under FAIR-aligned automated workflows on HPC and cloud, aligned with Latvia's accession to ELIXIR.

- **Multi-omics integration -** combining clinical, phenotypic and omics data to improve diagnostic yield and biological interpretation in complex disease.
- **Machine learning -** classification, regression, clustering, latent factor models and network-based approaches for high-dimensional data.
- **FAIR workflows -** containerised, reproducible pipelines in Nextflow, Docker and Apptainer, scalable across HPC and cloud.
- **Synthetic health data -** systematic evaluation of realism, analytical utility and privacy for responsible use in health research.

SELECTED PROJECTS

HiCALS - hypothalamic mechanisms of high-calorie intervention in ALS

EU Joint Programme Neurodegenerative Disease Research (JPND) 2022 · partner and WP lead

Led bioinformatics on integrating clinical and lipidomics data, developing a network-informed machine learning workflow linking lipid co-abundance modules to nutritional intervention outcomes.

PROGRESS - AI for integrated assessment of the coronary collateral circulation

ERA PerMed / Horizon 2020 ERA-NET Cofund · partner and WP lead

Integrated genetic, clinical and lifestyle data for coronary artery disease risk prediction, including large-scale UK Biobank analysis and reproducible computational methods.

RESEARCH INFRASTRUCTURE & FACILITIES

A computational research environment for reproducible multi-modal analysis: FAIR-aligned containerised workflows (Nextflow, Docker, Apptainer); pipelines for multi-omics integration, network analysis, machine learning, biomarker discovery and synthetic health data evaluation; HPC access through institutional partnerships and Azure-based cloud computing; secure data management platforms and curated cardiovascular, ALS and immune-related datasets.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, hospitals, biobanks and consortia holding large, well-characterised multi-modal health, phenotypic and omics datasets, and experienced coordinators able to provide experimental or clinical validation of computational findings.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Motor Control Research

UNIVERSITY · RIGA, LATVIA · RSU.LV



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CORE TEAM

· **Ivars Vanadzins**
· **Edgars Bernans**

KEYWORDS

Motor control · Stability · Synergy · Uncontrolled manifold · Fingers

DOMAINS OF APPLICATION

Healthcare · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3
Horizon Europe experience: Submitted as a project coordinator
Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership
Seeks partners among: Universities · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in human motor control and hand function, including motor synergies and the uncontrolled manifold (UCM) framework. The team bridges motor neuroscience, signal processing, and occupational and clinical health, using multi-finger force measurement and custom analysis software to provide sensitive metrics of hand function.

- **Motor control -** human motor control, motor synergies and the uncontrolled manifold (UCM) framework applied to finger and hand function.
- **Hand function metrics -** multi-finger force measurement combined with custom analysis software to give sensitive metrics of hand function.
- **Signal processing -** signal processing methods that link motor neuroscience with occupational and clinical health.
- **Clinical measurement -** a low-cost measurement device and software based on finger synergies, with data collected from patients and healthy volunteers.

SELECTED PROJECTS

Carpal tunnel syndrome diagnosis through finger synergies
Latvian Council of Science postdoctoral grant, ERDF co-funded · principal investigator
Develops a low-cost method for early diagnosis of carpal tunnel syndrome, a common, often work-related nerve disorder of the wrist. Device and software are built and data are being collected from patients and healthy volunteers.

RESEARCH INFRASTRUCTURE & FACILITIES

Force sensors, OptiTrack cameras and electromyography (EMG) equipment, with custom analysis software.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Populist Encounters Research Group

UNIVERSITY · RIGA, LATVIA · RSU.LV

Aijan Sharshenova

Leading Visiting Researcher

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CORE TEAM

- **Rico Isaacs** - professor, comparative politics
- **Ilze Vilka** - community resilience
- **Anete Usca** - green transition politics
- **Vladislava Marane** - research support

KEYWORDS

Social sciences · Policy analysis · Public policy · Stakeholder management · Project management · Research funding · Grant applications · International collaborations · Applied research · Sustainable development

DOMAINS OF APPLICATION

Education · Public administration · Environment · Cultural & Creative Industries · Healthcare

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project coordinator · Submitted as a project partner · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication · Exploitation · Data management · Policy recommendations · Training & capacity building

Seeks partners among: Universities · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

An interdisciplinary social science group at the RSU Social Sciences Research Centre working on applied and fundamental research into populism in its different forms - political, environmental and beyond - with additional strength in academic project management, consortium building and grant writing.

- **Populism research -** interdisciplinary study of populist politics, environmental populism and democratic resilience.
- **Policy analysis -** public policy research, comparative analysis, policy recommendations.
- **Stakeholder & consortium work -** stakeholder management, consortium building, grant writing and project management.
- **Regional expertise -** the Baltic States, Central Asia and post-Soviet authoritarianism.

SELECTED PROJECTS

The autocratic populist appeal: drivers and durability of authoritarianism

British Academy Pump Priming (UK-EU partners) · 2025 · Prof. Rico Isaacs

Examines the drivers and durability of authoritarian populism and how democratic resilience can be built.

Economic development, social capital and community resilience in the Baltic States

European Regional Development Fund · 2025-2028 · Dr Ilze Vilka, principal investigator

Post-doctoral research linking economic development and social capital to community resilience across the three Baltic States.

BALTIC - obstruction of green transitions in the Baltic States

Brown University Climate Social Science Network · 2024-2025 · Dr Anete Usca

Compared actors, networks and obstruction tactics against green transitions from national to local level in the three Baltic countries.

Russia as an autocracy promoter in Central Asia; decarbonisation and carbon tax in Central Asia

Volkswagen Stiftung 2020-2023; CAREC / Asian Development Bank 2023-2024 · Dr Aijan Sharshenova

Studied external autocracy promotion, and separately the political economy of decarbonisation and carbon taxation in Central Asia.

RESEARCH INFRASTRUCTURE & FACILITIES

University research facilities at Rīga Stradiņš University, with dedicated research and project management support staff.

EXPERTISE WE ARE LOOKING FOR

NGOs and other non-academic partners to build a Horizon consortium on populist resistance to the green transition in the Baltic States. The group is also open to joining other proposals as a work package leader.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Precision Oncology

UNIVERSITY · RIGA, LATVIA · RSU.LV



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Tenured Professor

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CORE TEAM

· **Kristīne Salmiņa**
· **Kristīne Vaivode**
· **Madara Kreišmane**

KEYWORDS

Precision Oncology · Cancer Genomics · Tumour Immunology · Melanoma Research · Cancer Immunotherapy · Biomarker Discovery · Single-Cell Analysis

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project partner · Submitted as a project coordinator · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in precision oncology, cancer genomics, tumour immunology, melanoma biology, biomarker discovery, virology and translational medicine. Offers molecular and cellular profiling, including next-generation sequencing, immune monitoring and gene expression profiling, and preclinical models of tumour progression and treatment resistance, integrating genomics, immunology, bioinformatics and clinical research.

- **Cancer genomics -** next-generation sequencing, gene expression profiling, and biomarker discovery and validation.
- **Tumour immunology -** immune monitoring, functional cellular assays and immune cell phenotyping, with a focus on cancer immunotherapy.
- **Melanoma research -** melanoma biology, recurrence and resistance after targeted therapy, and early detection.
- **Preclinical models -** models of tumour progression, treatment response and resistance, including advanced in vitro and co-culture systems.

SELECTED PROJECTS

KEY-RSU - Knowledge for Interdisciplinary Research Excellence at RSU
Horizon Europe MSCA COFUND · researcher (supervisor)
Contributes to an interdisciplinary research and training programme: advanced research methodologies, international collaboration, researcher training and cross-sectoral knowledge exchange.

DICE - epigenomic regulation of cancer immunity through dietary intervention
ERA-NET · principal investigator, project partner lead
Leads institutional participation in a multinational study of how nutritional interventions affect epigenetic regulation of anti-cancer immune responses, contributing tumour immunology and biomarker expertise.

RESEARCH INFRASTRUCTURE & FACILITIES

Infrastructure for clinical sample processing and biobanking; equipment for immune monitoring and functional cellular assays; cell culture and advanced co-culture systems; flow cytometers for immune cell phenotyping and sorting; quantitative PCR (qPCR) and digital PCR systems; fluorescence and confocal microscopy; bioinformatics tools for genomic and multi-omics data analysis.

EXPERTISE WE ARE LOOKING FOR

Partners from academia, healthcare, research infrastructures and industry with expertise in cancer immunotherapy, precision oncology, tumour immunology, multi-omics, single-cell and spatial technologies, advanced bioinformatics, biomarker development and translational medicine, for Horizon Europe and other international projects on personalised medicine, cancer prevention, early detection and innovative therapies.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology

UNIVERSITY · RIGA, LATVIA · RSU.LV



Bhupesh Kumar Prusty

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CORE TEAM

- **Trushnal Waghmare** - virology
- **Zheng Liu** - mitochondrial biology
- **Yuan Dou** - single-cell genomics
- **Mainak Chakraborty** - immunology

KEYWORDS

Post-viral Chronic diseeases · ME/CFS · Long COVID · Post-COVID · Herpesvirus · HHV-6 · HHV-7

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Dissemination & communication

Seeks partners among: Universities · SMEs · Large industry · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

PrustyLab combines internationally recognised expertise in mitochondrial biology, host-pathogen interactions and the molecular mechanisms of post-viral chronic disease, including ME/CFS and Long COVID, integrating advanced mitochondrial phenotyping with virology, immune cell biology and single-cell multi-omics to identify mechanisms, biomarkers and therapeutic targets.

- **Herpesvirus diagnostics -** specialised HHV-6A, HHV-6B and HHV-7 assays, inherited viral genomes, tissue-level detection of reactivation by miRNA-FISH.
- **Single-cell multi-omics -** scRNA-seq, scATAC-seq, scSLAM-seq, snRNA-seq and bulk SLAM-seq workflows from design to interpretation.
- **Mitochondrial phenotyping -** functional assessment of mitochondrial dysfunction in post-viral and chronic disease.
- **Classical molecular methods -** radioactive Southern and Northern hybridisation for sensitive detection of DNA, mRNA, miRNA and non-coding RNAs.

SELECTED PROJECTS

SARS-CoV-2 spike protein in cellular metabolism and herpesvirus reactivation

Latvian Council of Science · lead principal investigator

Uses novel 3D cell culture and organoid models to examine how the spike protein alters cellular metabolism and triggers herpesvirus reactivation.

Immunoglobulin-mediated alterations in ME/CFS - from single cells to organoids

ME Research UK · sole principal investigator

Dissects the mechanism by which immunoglobulins alter cellular function in ME/CFS, combining single-cell approaches with organoid models.

PhageOS - prophage-encoded reprogramming of Veillonella atypica in the oral microbiome

Latvian Council of Science · co-principal investigator

Investigates the commensal-to-pathogen transition in periodontitis, linking prophage biology to host-microbiome interaction.

RESEARCH INFRASTRUCTURE & FACILITIES

Advanced infrastructure at the RSU Institute of Microbiology and Virology, including single-cell sequencing, biobanking and mitochondrial research facilities. Complementary capacity from the RSU Social Sciences Research Centre in ethics and history supports patient-centred, ethically robust and policy-relevant research.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, NGOs and technology providers working on novel antimicrobials, pandemic preparedness, chronic post-viral disease and its management, and policy innovation.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Social Sciences Research Centre

RESEARCH INSTITUTE · RIGA, LATVIA · RSU.LV

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CORE TEAM

- **Miķelis Grīviņš** - professor
- **Anda Rožukalne** - professor
- **Una Aleksandra Bērziņa-Čerenkova** - assistant professor, political science
- **Ieva Puzo**

KEYWORDS

Health and Well-being · Societal Resilience · Democracy · Security · Communication and Information Environment · Sustainability and Social Transformations · Work

DOMAINS OF APPLICATION

Healthcare · Public administration · Cultural & Creative Industries · Defence · Food Systems · Environment · Smart Cities

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Public authorities · Large industry · Hospitals · NGOs

WHAT WE CONTRIBUTE

Interdisciplinary social science expertise for research on health, environment and security. The Centre contributes socio-cultural, communication, organisational, institutional, legal and policy perspectives, with qualitative, quantitative and mixed methods, stakeholder engagement and co-creation, and knowledge exchange.

- **Democracy and security -** research on democracy, security, communication and the information environment.
- **Health and well-being -** health, quality of life, well-being and sustainability-related social transformations.
- **Work and organisations -** emerging expertise in work, organisations and human capital.
- **Research methods -** interviews, focus groups, surveys, digital research, policy and legal analysis, case studies and stakeholder research.

SELECTED PROJECTS

SHIFT - Shaping Informed Frameworks for Trust

Horizon 2020 · partner coordinator

Investigates in 13 EU and neighbouring countries how disinformation reshapes public trust, and pilots scalable strategies to counter it through cross-national research, behavioural segmentation and real-world campaign testing.

DeCrisis - EU decarbonisation in times of crises

Horizon Europe · partner coordinator

Examines the EU's twin climate and digital transition through four case studies, identifying gaps in multilevel governance and proposing ways to enhance citizen participation and social innovation.

FOODCITYBOOST - integrated assessment of urban farming impacts and policies

Horizon Europe · project leader

Works with more than 100 stakeholders from 6 case studies in a living-lab approach, combining social science and humanities, land systems, urban farming and life cycle assessment.

RESEARCH INFRASTRUCTURE & FACILITIES

Software for qualitative coding and transcription (MAXQDA), data visualisation (Infogram), survey creation and panel management (QuestionPro and QuestionPro Communities), GIS analysis (ArcGIS), legal analysis (LexuAI) and statistics (Stata, R). Hardware includes FaceReader and eye-tracking software, Sony Alpha 7 digital cameras and voice recorders. Dedicated facilities for focus group research are available.

EXPERTISE WE ARE LOOKING FOR

Complementary universities and research institutes, public authorities and municipalities, civil society organisations, SMEs, industry and technology partners interested in interdisciplinary research on health and well-being, sustainability, security, resilience and societal transformations.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Sports Healthcare Research Centre

UNIVERSITY · RIGA, LATVIA · RSU.LV



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CORE TEAM

- **Agris Liepa** - immersive reality, eye tracking
- **Valters Āboliņš** - motor control, finger synergies

KEYWORDS

Biomechanics · Motor Control · Human Movement Analysis · Force Plate Analysis · Electromyography (EMG) · Cardiopulmonary Exercise Testing · Wearable Sensors

DOMAINS OF APPLICATION

Healthcare · Sport science · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Validation & testing · Training & capacity building

Seeks partners among: Universities · SMEs · Research infrastructures · End users · Large industry

WHAT WE CONTRIBUTE

Expertise in human movement science, biomechanics, motor control, exercise physiology and sports science across healthy, athletic, clinical and ageing populations. Contributes study design, methodological development, data collection and analysis, technology validation, researcher training and dissemination in projects on health, rehabilitation and human performance.

- **Motion analysis -** 3D optoelectronic motion capture, force plate analysis, inertial sensors and synchronised video for integrated biomechanical assessment.
- **Neuromuscular assessment -** surface electromyography (EMG), motor control and movement variability analysis, and quantitative force measurements.
- **Exercise physiology -** cardiopulmonary exercise testing, metabolic measurements, heart rate monitoring and field-based sports performance testing.
- **Digital health & wearables -** wearable and sensor technologies, signal processing and data-driven analysis of human movement.

SELECTED PROJECTS

Immersive reality game with eye pupil tracking for adolescent athletes

European Commission-funded Consolidation Grant · 2024-2026 · project leader

Developed and evaluated a mixed-reality environment combining eye tracking, biofeedback and respiratory assessment to study cognitive functioning and respiratory performance in a simulated competition setting.

CancerBeat-2 - Physical Activity for Prevention of Breast Cancer Recurrence

Recovery and Resilience Facility (RRF) · 2024-2026 · expert

Provides expertise in exercise assessment, physical activity measurement and human performance testing in a longitudinal study of the molecular mechanisms linking physical activity to recurrence.

RESEARCH INFRASTRUCTURE & FACILITIES

Motion capture laboratory with a BTS SMART DX 6000 3D optoelectronic motion analysis system, force platforms, surface EMG, inertial measurement units, pressure measurement systems and synchronised video analysis.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, hospitals, rehabilitation centres, sports organisations, SMEs and technology developers interested in human movement, health and performance.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Rīga Stradiņš University - Wearable Sensors and Smart Textiles

UNIVERSITY · RIGA, LATVIA · RSU.LV



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CORE TEAM

- **Xiao Yu** - Aalto University, Finland
- **Luis Ceballos** - University of Valladolid, Spain
- **Maksims Zolovs** - Rīga Stradiņš University

KEYWORDS

Wearable Sensors · Smart Textiles · Musculoskeletal Rehabilitation · Injury Prevention · Artificial Intelligence in Healthcare · Digital Health Technologies · Rehabilitation Engineering

DOMAINS OF APPLICATION

Healthcare · Education · Digital Technologies · Artificial Intelligence · Advanced Materials

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner · Submitted as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

A research-intensive university in health, social and sports sciences, bringing interdisciplinary expertise in applied research, evidence-based policy, health and social innovation, stakeholder engagement and impact assessment. It offers mixed-methods and co-creation approaches, pilot implementation and validation, and experience in project coordination and work package leadership.

- **Health & social research -** applied multidisciplinary research spanning health sciences, public health, psychology, social sciences, law and digital innovation.
- **Research methods -** qualitative, quantitative and mixed-methods research, survey design, data analytics, participatory and co-creation methods, implementation research and evaluation frameworks.
- **Digital health & sport technology -** smart textile biofeedback, augmented and immersive reality games and eye tracking in rehabilitation, injury prevention and sports.
- **Pilots & knowledge transfer -** pilot implementation, testing, validation, training and capacity building across diverse stakeholder groups.

SELECTED PROJECTS

Smart textile biofeedback for trauma prevention in Latvian youth football players

Project Nr. lzp-2023/1-0027 · project coordinator

Coordinates a project on smart textile solutions as a biofeedback method for trauma prevention among Latvian Football Youth League players.

MDR in AIS - minimising door to reperfusion times in acute ischemic stroke

Drip and ship model · partner's coordinator

Coordinates the partner's work on minimising door to reperfusion times in the drip and ship model for patients with acute ischemic stroke.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, healthcare providers, sports organisations, SMEs and technology developers in digital health, rehabilitation and sports science.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

Riga Technical University - Antibacterial Biomaterials and Hydrogels

UNIVERSITY · RIGA, LATVIA · BBI.RTU.LV



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CORE TEAM

- **Artemijs Sceglovs** - antibacterial biomaterials, hydrogels
- **Liga Stipniece** - calcium phosphate biomaterials

KEYWORDS

Antibacterial Biomaterials · Calcium Phosphates · Hydrogels · Bone Regeneration · Implant-associated Infections · Antimicrobial Resistance · Nanomaterials

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Pharmaceuticals · Manufacturing · Advanced Materials

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Dissemination & communication · Validation & testing

Seeks partners among: Universities · SMEs · Hospitals · Research infrastructures · Large industry

WHAT WE CONTRIBUTE

Expertise in antibacterial and regenerative biomaterials, including calcium phosphate materials, injectable hydrogels, polymer-ceramic composites and non-antibiotic strategies for bone and tissue infections. The team can contribute scientific and work package leadership, methodology development, validation, prototype development, training and exploitation.

- **Biomaterial synthesis -** calcium phosphate and nanoparticle synthesis, hydrogel and composite formulation, and rheology and injectability testing.
- **Characterisation -** physicochemical characterisation including XRD, FTIR, SEM/EDS, particle size, porosity and thermal analysis.
- **Antibacterial testing -** antibacterial and antibiofilm testing, including antimicrobial resistant strains.
- **Cell studies -** cytocompatibility and cell-material interaction studies.

SELECTED PROJECTS

BBCE - Baltic Biomaterials Centre of Excellence

Horizon 2020 Teaming Phase 2 · 2020-2027 · institute leadership and scientific contribution

Strengthens advanced biomaterials research and international collaboration, focusing on calcium phosphate materials, hydrogels, bone regeneration and translation.

BoneART - Injectable hydrogel for fracture-related bone infections

BioPhoT, National Research Programme Innovation Fund · 2026 · project lead

Advances a medical device concept through formulation optimisation, sterile prototype development, in vitro validation and preparation for further translational development.

RESEARCH INFRASTRUCTURE & FACILITIES

Integrated biomaterials research infrastructure covering synthesis, processing, characterisation, cell culture and microbiological evaluation: calcium phosphate and nanoparticle synthesis laboratories, hydrogel and composite formulation, freeze-drying, granulation and thermal processing, XRD, FTIR, SEM/EDS, particle size and porosity analysis, rheology and thermal analysis. Biological testing includes Class II biosafety cabinets, CO_2 incubators, fluorescence microscopy, plate readers and facilities for cytocompatibility, antibacterial and biofilm studies.

EXPERTISE WE ARE LOOKING FOR

Hospitals, clinical partners, universities, research institutes, SMEs and technology providers with expertise in bone and tissue infections, antimicrobial resistance, regenerative medicine and translational biomaterials, including clinically relevant bacterial models, organ-on-chip systems, in vivo validation and preclinical testing.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Bio-Textiles and Nanomaterials

UNIVERSITY · RIGA, LATVIA · RTU.LV



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CORE TEAM

- **Jaymin Vrajlal Sanchaniya** - nanocomposite characterisation
- **Dace Grauda** - bio-textile biotesting
- **Dalius Butkauskas** - genetic biocompatibility analysis

KEYWORDS

Bio-textiles · Composite Nano-Materials · 3D printing · Synthesis · Mechanics

DOMAINS OF APPLICATION

Healthcare · Advanced Materials · Environment · Biotechnology

PROFILE AT A GLANCE

TRL: 7-9

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Scientific leadership · Dissemination & communication

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

Interdisciplinary expertise in materials science, textile mechanics, bioengineering and cell biology, focused on composite nanomaterials and drug- and ion-delivery systems for soft-tissue regeneration, as well as filter nanomaterials, membranes and recycling of natural and synthetic materials. Experience in coordinating large international partnerships and research management.

- **Polymer synthesis -** synthesis of polymer structures for bio-textiles and composite nanomaterials.
- **Materials processing -** electrospinning, masterbatch production by extrusion and granulation, and spray-drying of nanomaterial surfaces at room temperature.
- **Characterisation -** XRD, FTIR, SEM/EDS, UPLC, particle size and porosity analysis, rheology, thermal analysis, flow cytometry, confocal laser scanning microscopy and numerical simulation.
- **Biological evaluation -** in vitro cytocompatibility and cell-material interaction studies, textile implant prototyping, biosafety assessment of bio-textiles and genetic-level study of prokaryotes and eukaryotes.

SELECTED PROJECTS

Hybrid material for military and civil surface water filtration

NATO defence programme, SPS · 2026-2029 · € 1,5 m · partner coordinator

Develops high-efficiency hybrid materials for surface water filtration serving military and civilian needs, protecting critical water resources and the resilience of hydroelectric power plants.

NANOFILT - multifunctional nanofibre composite membranes for air filtration

ERA Fellowship (MSCA-PF Widening), Horizon Europe · 2026-2028 · € 196,976 · fellow

Develops electrospun multifunctional nanofibre composite membranes and assesses their air-filtration performance. The fellow is the sole researcher.

RESEARCH INFRASTRUCTURE & FACILITIES

Characterisation capabilities: XRD, FTIR, SEM/EDS, UPLC, particle size and porosity analysis, rheology, thermal analysis, flow cytometry, confocal laser scanning microscopy (CLSM) and numerical simulation.

EXPERTISE WE ARE LOOKING FOR

Industrial partners developing new bio-textile materials and technologies, and research organisations with complementary expertise in implant development.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Riga Technical University - Building Energy and HVAC Research Team

UNIVERSITY · RIGA, LATVIA · RTU.LV



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CORE TEAM

- **Jurģis Zemītis** - indoor air quality, HVAC
- **Aleksandrs Zajacs** - district heating
- **Kristīna Ļebedeva** - renewables, energy communities

KEYWORDS

Building Energy Performance · nZEB · HVAC · Indoor Air Quality · Energy Communities · Building Automation · Resilient Buildings

DOMAINS OF APPLICATION

Energy · Environment · Smart Grids · Smart Cities

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: WP leadership · Task leadership · Pilot implementation · Living labs · Dissemination & communication

Seeks partners among: Universities · SMEs · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Building energy and HVAC research team of RTU's Institute of Sustainable Building Materials and Engineering Systems, with 20+ years of research and regulatory expertise in the energy performance of buildings, HVAC systems and indoor climate. The team bridges building services engineering, building physics, energy systems, data analytics and policy.

- **Building energy performance -** nZEB design, building physics, cost-optimal and life-cycle cost analysis, MEPS methodology, building automation and the Smart Readiness Indicator (SRI).
- **HVAC & indoor climate -** HVAC systems and indoor environmental quality, IAQ monitoring and data-driven HVAC assessment.
- **Simulation -** dynamic energy and hygrothermal simulation with IDA-ICE, TRNSYS, MATLAB and PHPP.
- **Energy communities & heating -** district heating and renewable energy communities, including household load profiling for rooftop PV sizing.

SELECTED PROJECTS

SMARTeeSTORY - smart building automation for historic buildings

Horizon Europe · HORIZON-CL5-2022-D4-01 · GA 101103956 · 2023-2027 · €5.1 m EU · partner

Measured and simulated energy and indoor environmental quality optimisation of the Riga City Hall demo site through an integrated HVAC retrofit and AI-based automation.

Q-Built - quickly deployable buildings and their energy systems

NATO Science for Peace and Security · G6245 · 2024-2027 · lead partner (Latvia-Ukraine)

Develops rapidly deployable modular buildings with autonomous energy systems that secure thermal comfort, IAQ and energy supply for defence and civil protection.

RESEARCH INFRASTRUCTURE & FACILITIES

Building physics and HVAC laboratories at RTU's Ķīpsala campus: climate chamber for hygrothermal testing of wall assemblies, blower-door and duct-leakage equipment, thermography, calibrated IAQ and thermal-comfort instrumentation for long-term monitoring; simulation tools (IDA-ICE, TRNSYS, MATLAB/Simulink, PHPP); RENGO mobile energy unit prototype (PV, battery, heat pump); and a 3D concrete printing laboratory.

EXPERTISE WE ARE LOOKING FOR

Coordinators and consortia preparing Cluster 5 (buildings, heating and cooling, energy communities) and Cluster 3 (resilient infrastructure) proposals that need a Baltic partner for building-energy modelling, HVAC and IAQ field validation, smart-readiness assessment and policy uptake.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Faculty of Civil and Mechanical Engineering

UNIVERSITY · RIGA, LATVIA · RTU.LV



Nima Azimi

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CORE TEAM

- **Diāna Bajāre** - tenured professor, leading researcher
- **Mohammed H. Alzard** - postdoctoral researcher, self-healing concrete
- **Omid Hassanshahi** - senior researcher, composites and modelling

KEYWORDS

Sustainable construction materials · Circular construction · Waste valorisation · Alkali-activated materials · Durability

DOMAINS OF APPLICATION

Energy · Education · Artificial Intelligence · Advanced Materials · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project coordinator · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Consortium coordination · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

Expertise in sustainable and circular construction materials, durability and service-life assessment, waste valorisation and data-driven prediction of material performance.

- **Sustainable materials -** cementitious, lime-based and alkali-activated materials incorporating industrial and municipal waste streams, including bottom ash and fly ash.
- **Testing & characterisation -** mechanical and durability testing under environmental exposure, microstructural and mineralogical characterisation, and non-destructive evaluation.
- **Life-cycle assessment -** environmental and circularity assessment, infrastructure carbon-footprint estimation and eco-efficiency optimisation.

SELECTED PROJECTS

Eco-efficient and circular construction materials from Baltic waste streams

Latvian research funding / RTU postdoctoral research · postdoctoral researcher

Develops and characterises construction materials made with Baltic industrial and municipal waste streams such as bottom ash and fly ash, including formulation, mechanical and durability assessment, and circularity evaluation.

Twinning proposal - advanced engineering and materials research

Horizon Europe WIDERA / Twinning · proposal development and consortium contributor

Contributed to an international research-capacity-building proposal involving RTU and leading European universities, covering advanced materials, digital methods, researcher training, networking and collaboration.

RESEARCH INFRASTRUCTURE & FACILITIES

Laboratories for construction-material development and testing: material preparation, mechanical and durability testing, scanning electron microscopy with elemental analysis, thermal and mineralogical characterisation, thermal imaging and additive manufacturing, including 3D concrete printing.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, industry, municipalities, infrastructure owners and technology providers in circular construction, advanced materials and climate-resilient infrastructure.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - High Performance Materials and Structures

UNIVERSITY · RIGA, LATVIA · RTU.LV

Liva Pupure

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CORE TEAM

· **Janis Varna**
· **Andrejs Pupurs**
· **Sandris Rucevskis**

KEYWORDS

Composites · High-performance materials · Modelling · Multifunctional materials

DOMAINS OF APPLICATION

Manufacturing · Defence · Space Technologies · Smart Cities · Advanced Materials · Natural Resources · Healthcare · Energy · Transport & Mobility · Cultural & Creative Industries · Robotics & Automation

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project coordinator · Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Pilot implementation · Dissemination & communication · Validation & testing · Data management

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Expertise in composite and multifunctional materials, mechanical characterisation and materials and structural modelling, with a focus on lightweight materials that combine load-bearing with functions such as electrical conductivity, thermal management or energy storage. Offers materials design, testing, simulation support and technical validation.

- **Multifunctional composites -** development and testing of materials that combine mechanical load-bearing with electrical conductivity, thermal management or energy storage for lightweight, high-performance applications.
- **Mechanical characterisation -** experimental investigation of material behaviour under static and dynamic loading, including viscoelastic response, creep and stress relaxation.
- **Modelling & simulation -** analytical and finite element modelling to predict material and structural performance, supported by numerical simulation tools.
- **Composite manufacturing -** composite manufacturing, mechanical testing and characterisation in the Scientific Laboratory of Experimental Mechanics of Materials.
- **Technical validation -** validation of new material solutions for weight-sensitive sectors including aeronautics, automotive and electronics.

RESEARCH INFRASTRUCTURE & FACILITIES

Equipment includes an in-house induction heating system for composites; a Jeol JSM-IT200 scanning electron microscope with EDS, 3D surface topography module and DEBEN MT1000 in-situ mechanical testing rig; a FLIR A6752SC thermal imaging camera; a USPC 3010 ultrasonic testing system for damage in composites; a POLYTEC PSV-500-3D laser vibrometer; universal testing machines from 1 kN to 250 kN with a climate chamber option (-80 to 350°C); and an INSTRON Dynatup 9250 HV impact tower (up to 1600 J, 20 m/s, 5 MHz data capture).

EXPERTISE WE ARE LOOKING FOR

Research teams outside materials science, in fields such as medicine, defence, automotive, energy and other application domains, whose work would benefit from lightweight, high-performance composite or multifunctional materials.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Riga Technical University - Industrial and Power Electronics

UNIVERSITY · RIGA, LATVIA · RTU.LV



Kaspars Kroičs

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CORE TEAM

· **Ģirts Staņa**
· **Jānis Voitkāns**
· **Kristaps Vītols**

KEYWORDS

Industrial electronics · Power electronics · Electrical engineering · Control systems

DOMAINS OF APPLICATION

Energy · Smart Grids · Electronics & Photonics · Smart Cities

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Dissemination & communication · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in power electronics converter design, electrical drive control systems, industrial electronics and DC microgrid power flow optimisation. The team contributes simulation model development, algorithm and methodology development, experimental prototype implementation, efficiency analysis and measurement, dissemination and exploitation, and is ready to join cross-disciplinary projects.

- **Power electronics -** design of power electronics converters, including GaN-based inverters, filter design and analysis of converter modularity.
- **Drive control -** research in electrical drive control systems and control methods that shorten speed and position transients.
- **DC microgrids -** power flow optimisation in DC microgrids.
- **Modelling & prototyping -** simulation model development, algorithm and methodology development and experimental prototype implementation.
- **Efficiency measurement -** efficiency analysis and measurement of converters and drive systems.

SELECTED PROJECTS

Enhance Europe - Energy harvesting collectors for urban road pavement

CETPartnership · 2024-2027 · budget about €2.3 million · partner scientific leader

Develops electrical pump control and power supply from PV panels, wireless power charging of sensors and control systems, in a 13-partner, nine-country consortium coordinated by the University of Padua.

GaN-based BLDC motor converter with dual power supply

Latvian Council of Science project · project scientific leader

Developed a gallium nitride inverter with dual power supply for a three-phase permanent-magnet motor, with filter design and control methods that shorten speed and position transients.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Innovation and Technology Transfer

UNIVERSITY · RIGA, LATVIA · RTU.LV

Irēna Vaivode

Postdoctoral researcher

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CORE TEAM

· **Individual researcher** - postdoctoral project led by the contact person

KEYWORDS

(1) Innovation and technology transfer · (2) business models · (3) research on digital solutions in industry · (4) research on the impact of knowledge factors and enterprise collaborative thinking on company innovativeness · (5) strategies

DOMAINS OF APPLICATION

Manufacturing · Energy · Digital Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Worked as a researcher on a Horizon Europe project several years ago.

Can take on: Proposal writing · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary expertise combining the social sciences (economics and business management) with innovation, technology transfer and digital technology research, applied to the effects of digital transformation on innovation in traditional manufacturing companies in Latvia.

- **Interdisciplinary research -** combining economics and business management with innovation, technology transfer and digital technology research.
- **Digital transformation -** research on the effects of digital transformation on innovation in traditional manufacturing companies in Latvia.
- **Smart specialisation -** research aligned with the Latvian Research and Innovation Strategy for Smart Specialisation (RIS3), addressing ICT and, indirectly, smart materials, technologies and engineering systems.

SELECTED PROJECTS

Effects of Digital Transformation on Innovation in Traditional Manufacturing in Latvia

EU Cohesion Policy 2021-2027 · No. 1.1.1.9/LZP/1/24/151 · scientific supervisor

Postdoctoral research project (Measure 1.1.1.9) on how digital transformation affects innovation in traditional manufacturing companies in Latvia. The contact person is the scientific supervisor.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Mathematical Modelling

UNIVERSITY · RIGA, LATVIA · RTU.LV

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CORE TEAM

· **Olga Kozlovska**
· **Jelena Ligere**
· **Liene Briede**

KEYWORDS

Mathematical Modelling · Applied Mathematics · Nonlinear Dynamics · Dynamical Systems · Artificial Intelligence · Data Science · Computational Methods · Mathematical Biology · Engineering Applications · Sustainability

DOMAINS OF APPLICATION

Education · Mathematics

PROFILE AT A GLANCE

Horizon Europe experience: No experience yet

Can take on: Task leadership · Dissemination & communication · Validation & testing

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Expertise in applied mathematics, engineering, digital technologies and data science, with strengths in mathematical modelling, numerical methods, data analysis, artificial intelligence, optimisation and dynamical systems. Develops digital solutions and supports interdisciplinary research.

- **Mathematical modelling -** numerical methods, optimisation and dynamical systems for engineering and sustainability-related applications.
- **Data science & AI -** data analysis, artificial intelligence and development of digital solutions.
- **Model validation -** development, testing and validation of mathematical and computational models, digital solutions and technology demonstrators.
- **Research networks -** international cooperation in mathematics through Nordplus, COST and Erasmus+ projects.

SELECTED PROJECTS

mSPACE - Multiscale Stochastics, Patterns, and Analysis of Combinatorial Environments

COST Action

Researcher and Management Committee representative.

Traditions and Innovations in Baltic and Nordic Mathematics

Nordplus Higher Education

Project partner and researcher.

Mathematics Across Borders - from theory to application

Erasmus+ Blended Intensive Programme

Coordinator, organiser and academic contributor.

RESEARCH INFRASTRUCTURE & FACILITIES

High-performance and scientific computing facilities, specialised engineering and technology laboratories, digital learning and assessment platforms, and software environments for numerical modelling and analysis (MATLAB, Mathematica, Python and simulation tools). Research expertise and infrastructure for developing, testing and validating mathematical and computational models, digital solutions and technology demonstrators.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Personal Protective Equipment Laboratory (PPELab)

UNIVERSITY · RIGA, LATVIA · RTU.LV



Inga Dāboliņa

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CORE TEAM

- **Liene Siliņa** - researcher, textile materials testing
- **Beatrise Santa** - PhD researcher, clothing performance
- **Madara Mazkalniņa** - PhD researcher, textile and clothing

KEYWORDS

Textile Engineering · Personal Protective Equipment (PPE) · Protective Clothing · Advanced Textile Testing · Thermal Comfort

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Manufacturing · Transport & Mobility · Cultural & Creative Industries

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

An ISO/IEC 17025 accredited laboratory for testing, validation and performance assessment of textile materials, clothing systems and personal protective equipment (PPE).

- **Textile testing -** fibre composition, mechanical and physical performance, air and water permeability, moisture management, colour, weathering and durability assessment.
- **Thermal comfort -** thermal insulation, heat and moisture transfer and clothing-body interaction using a sweating thermal manikin and guarded hotplate.
- **Protective performance -** heat and flame protection, thermal protective performance, contact heat and chemical splash testing.

SELECTED PROJECTS

CELLFIL - cellulose lyocell filaments for circular textile production

Horizon Europe · 2024-2028 · RTU Work Package 4 leader

Leads end-use validation and performance assessment of cellulose filament-based textiles for performance wear, automotive and technical applications, including benchmarking, testing and comfort assessment.

Iron hexacyanoferrate textile sorbents for radionuclide-protective face masks

Latvian Council of Science · lzp-2024/1-0015 · 2025-2027 · led by LU, RTU partner

Contributes textile substrate selection, standardised testing and performance evaluation, and leads work on ergonomics and service life of Prussian Blue-modified textiles for protective face masks.

RESEARCH INFRASTRUCTURE & FACILITIES

ISO/IEC 17025 accredited laboratory with a 35-zone sweating thermal manikin (ANDI), climatic chamber and Sweating Guarded Hotplate; tensile, tear, bursting, abrasion, pilling, air permeability, hydrostatic pressure and moisture management testing; heat, flame, thermal protective performance, contact heat and chemical splash testing; X-Rite colour measurement, UV/VIS spectrometry, Q-SUN xenon weathering and controlled laundering; and a Vitus Smart XXL 3D body scanner with Anthroscan software and anthropometric datasets.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, textile and advanced-material manufacturers, PPE and workwear producers, recycling actors, technology providers and end users.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Surface and Biomaterial Spectroscopy

UNIVERSITY · RIGA, LATVIA · BINI.RTU.LV

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CORE TEAM

· **Marina Romanova**
· **Hermanis Sorokins**
· **Nicole Burtovaja**
· **Marks Gorohovs**
· **Mirko Rocco**

KEYWORDS

XPS · SISM · Electron spectroscopy · Biomaterials · Nanodosimetry

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Education · Defence · Advanced Materials · Space Technologies · Biotechnology · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Scientific leadership · Dissemination & communication · Exploitation · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Hospitals · Research infrastructures · End users

WHAT WE CONTRIBUTE

Analytical support for the characterisation of solid material surfaces, using secondary ion mass spectrometry (SIMS), Auger, X-ray photoelectron (XPS) and infrared (FTIR) spectroscopies. Research topics include thin films with embedded nanoparticles for dosimetry of ionising radiation and surfaces of laser-treated titanium alloy.

- **Surface analysis -** characterisation of solid material surfaces by SIMS, Auger, XPS and FTIR spectroscopies.
- **Radiation dosimetry materials -** thin films with embedded nanoparticles for dosimetry of ionising radiation, and polymer nanocomposites for 3D printed patient-personalised boluses in radiation therapy.
- **Biomaterial surfaces -** surface electrical potential and cell immobilisation ability of laser-treated titanium alloy.
- **Field emission devices -** planar field emission microtriode structures.

SELECTED PROJECTS

Thin films with embedded nanoparticles for dosimetry of ionising radiation

Planar field emission microtriode structure

Surface electrical potential and cell immobilisation ability of laser-treated titanium alloy

Polymer-based nanocomposite for 3D printed patient-personalised boluses in radiation therapy

RESEARCH INFRASTRUCTURE & FACILITIES

SIMS, Auger, XPS and FTIR spectroscopy facilities, among others.

EXPERTISE WE ARE LOOKING FOR

Partners for collaboration in the research areas described in this profile.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Riga Technical University - Sustainable Construction Materials

UNIVERSITY · RIGA, LATVIA



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CORE TEAM

· **Māris Šinka**
· **Diāna Bajāre**
· **Nima Azimi**
· **Muhammed Ali Musarat**

KEYWORDS

Sustainable construction materials · Recycled concrete aggregates · Construction and demolition waste valorization · Microbially induced calcium carbonate precipitation (MICP) · CO2 mineralization · Concrete durability · Life cycle assessment (LCA) · Life cycle costing (LCC)

DOMAINS OF APPLICATION

Sustainability

PROFILE AT A GLANCE

TRL: 4-6
Horizon Europe experience: Submitted as a project coordinator
Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Dissemination & communication · Validation & testing · Training & capacity building
Seeks partners among: Universities · Large industry · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in sustainable construction materials, concrete technology and circular use of construction and demolition waste, including recycled aggregates, alternative binders and aggregate improvement by microbially induced calcium carbonate precipitation (MICP). Experimental research is combined with life cycle assessment and machine learning.

- **Recycled concrete -** development and evaluation of recycled aggregates, alternative binders and concrete mixtures, including mechanical performance and durability.
- **Aggregate treatment -** improvement of aggregates by MICP and accelerated carbonation, with mineralisation and CO2 uptake studies.
- **Environmental assessment -** life cycle assessment (LCA), carbon footprint analysis and life cycle costing to identify environmental and cost hotspots and guide material selection.
- **Machine learning -** performance prediction and analysis of relationships between material properties, treatment conditions and outcomes.

SELECTED PROJECTS

Microbial-induced calcite precipitation for sustainable concrete
Latvian Postdoctoral Programme (ERDF) · 1.1.1.9/LZP/1/24/086 · July 2025-June 2028 · PI
Leads the scientific work on MICP treatment of recycled concrete aggregates: experimental design, fresh, mechanical and durability testing, and the life cycle assessment of environmental benefits and trade-offs.

RESEARCH INFRASTRUCTURE & FACILITIES

Controlled CO2 conditioning and carbonation chamber for mineralisation and CO2 uptake studies; laboratory crushing and disintegration equipment for preparing recycled constituents; a SUNRISE climatic chamber for controlled curing and environmental conditioning; licensed SimaPro software with the ecoinvent database for environmental modelling.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Riga Technical University - Wood and Timber Engineering

UNIVERSITY · RIGA, LATVIA · RTU.LV



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CORE TEAM

· **Andrejs Pupurs**
· **Liva Pupure**
· **Edgars Huka**

KEYWORDS

Wood and Timber Engineering · Wood-Based Sandwich Structures · Cross-Laminated Timber (CLT) · Composite Materials · Experimental Mechanics · Static and Dynamic Material Testing · Structural Dynamics and Vibration Damping

DOMAINS OF APPLICATION

Advanced Materials

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: No experience yet

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Living labs

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures · End users

WHAT WE CONTRIBUTE

Expertise in experimental mechanics and material and structural testing, with particular strengths in wood, natural materials and composite structures. The team combines static and dynamic testing, full-field measurement and numerical modelling for characterisation and validation, and manufactures customised specimens and experimental structures.

- **Mechanical testing -** standardised static and dynamic material testing, with the capability to adapt and develop experimental procedures for specific research objectives.
- **Full-field measurement -** digital image correlation (I-metrum DIC) for deformation and strain, and Polytec PSV-500 non-contact vibration and dynamic response measurements.
- **Model validation -** direct and inverse validation of experimental data, parameter identification and integration of experimental results with numerical models.
- **Specimen manufacturing -** high-quality specimens and complex structures from wood, other natural materials and composites, including customised experimental structures.

SELECTED PROJECTS

Lightweight fast-growing wood sandwich panels with improved damping

ERDF Postdoctoral Research Programme · 2025-2028 · scientific project leader

Leads development and experimental validation of lightweight fast-growing wood sandwich structures with enhanced vibration damping, including static and dynamic characterisation, prototype manufacturing and model validation.

Hybrid aspen wood for vibration-damping sandwich composite structures

RRF research grant RTU-PG-2024/1-0031 · 2025 · principal investigator

Investigated hybrid aspen wood as a core material for lightweight sandwich composites, with mechanical and dynamic characterisation and evaluation of vibration-damping properties.

RESEARCH INFRASTRUCTURE & FACILITIES

Static mechanical testing up to 600 kN; dynamic and cyclic testing up to 250 kN; climatic mechanical testing from -70 °C to +350 °C up to 100 kN; Zwick and Instron testing systems; I-metrum DIC for full-field deformation measurement; Polytec PSV-500 3D scanning laser vibrometer for non-contact vibration and modal analysis; in-situ SEM mechanical testing up to 1 kN with a Deben MT-1000 stage; customised specimen and prototype manufacturing.

EXPERTISE WE ARE LOOKING FOR

Research partners with expertise in numerical, micromechanical and microstructural modelling of wood, cross-laminated timber (CLT) and wood-based sandwich structures, including material mechanics, damage and failure, and structural dynamics.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - New European Bauhaus			
Widening participation and strengthening the European Research Area			

Sprayify

SME · LATVIA · SPRAYIFY.ME



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CORE TEAM

- **Rihards Ruska** - physicist, luminescence methods, commercialisation
- **Toms Elvijs Šusts** - chemist, biocidal product compliance
- **Laura Paunina** - organic chemist, social media

KEYWORDS

Luminescence · Organic chemistry · Coatings · Biocides · Manufacturing · Social media management

DOMAINS OF APPLICATION

Healthcare · Manufacturing · Defence · Electronics & Photonics · Smart Cities · Advanced Materials · Biotechnology

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication · AI / Digital tools

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Physics and chemistry expertise combined with innovation management and legal expertise, used to scale up research results and bring them to market. Coordinated a research project that developed and tested a monitorable antimicrobial luminescent coating.

- **Luminescence & coatings -** luminescence methods and the development of coatings with monitorable biocidal protection against microorganisms on surfaces.
- **Organic chemistry -** chemical development of coating formulations and related materials.
- **Biocidal compliance -** legal compliance of biocidal products.
- **Commercialisation -** innovation management, scale-up of research results and market entry, including patent filing.
- **Communication -** social media management and dissemination.

SELECTED PROJECTS

LUMICOAT - bioactive luminescent coatings for antimicrobial protection

BioPhoT research project · coordinator

Developed a novel coating providing monitorable biocidal protection against microorganisms on surfaces and tested it in real-world conditions. A patent application was submitted on the basis of the results.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Stratex

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CORE TEAM

· **Valdis Pornieks**
· **Anton Semenov**
· **Gustavs Ērglis**
· **Signe Valtiņa**

KEYWORDS

Cybersecurity · Dual-use · Digital democracy · Applied artificial intelligence · Secure software development · Vulnerability assessment · Penetration testing

DOMAINS OF APPLICATION

Digital Technologies · Artificial Intelligence · Cybersecurity · Public administration · Defence · Education

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in cybersecurity, dual-use technologies, applied artificial intelligence, secure software development and digital democracy, combined with practical experience in citizen participation and organisational development. Can define technical requirements, build prototypes and demonstrators, run pilots, validate security and usability, and deliver training.

- **Cybersecurity -** security assessments, penetration testing and RAVEN, an AI-enabled platform for continuous vulnerability assessment and risk prioritisation.
- **Applied AI -** AI-supported solutions and cybersecurity automation that turn technical findings into practical remediation guidance.
- **Secure software -** development of web and mobile applications, software integration, rapid prototyping and iterative testing.
- **Digital democracy -** tools for collective decision-making and citizen participation, developed with user-centred design.

SELECTED PROJECTS

RAVEN - AI-enabled cybersecurity platform
Co-developer with Cyber Squad Global
Develops a platform for continuous vulnerability assessment, threat prioritisation and actionable security reporting, drawing on applied AI and cybersecurity automation.

ManaBalss.lv mobile application - digital citizen participation
Recovery and Resilience Facility (RRF), NextGenerationEU · mobile application developer
Developed a mobile application that lets citizens browse and support public initiatives and make donations, improving mobile access to civic participation.

Varu.Daru - Cultivating Civic Habits, youth civic engagement
ECAS EURECA regranting scheme, co-funded by CERV · development partner
Develops a mobile application supporting civic competence and participation among young people aged 14-18.

RESEARCH INFRASTRUCTURE & FACILITIES

Software development and testing environments for web and mobile applications, together with cybersecurity assessment tools. Subject to project-specific arrangements, RAVEN can support demonstrations and evaluation of AI-enabled vulnerability assessment and risk reporting. Access to platforms and testing environments is agreed per project according to technical requirements, licensing and data protection.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, technology companies, public authorities and civil society organisations for long-term partnerships, with expertise in cybersecurity, trustworthy AI, human factors, digital governance and democratic participation.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Transport and Telecommunication Institute (TSI)

UNIVERSITY · RIGA, LATVIA · TSI.LV



Dmitry Pavlyuk

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CORE TEAM

· **Irina Yatskiv** - professor
· **Igor Kabashkin**
· **Nadezda Spiridovska** - data analytics and AI cluster

KEYWORDS

Transport engineering · Intelligent transport systems · Artificial intelligence · Intelligent systems · Multi agent system · Mobility and transportation · Big data

DOMAINS OF APPLICATION

Energy · Smart Grids · Transport & Mobility · Digital Technologies · Artificial Intelligence · Electronics & Photonics · Smart Cities

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator · Submitted as a project coordinator · Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Dissemination & communication · Exploitation

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Expertise in artificial intelligence, big data, modelling and additive manufacturing, with access to live urban testing in the Riga city network and 20+ simulation studies. More than 50 active researchers with 900+ Scopus publications, WP leadership and coordination experience in Horizon Europe and Latvian national funds, and dissemination through the RelStat conference and the Transport & Telecommunication journal.

- **AI and data analytics -** artificial intelligence, data analytics and software engineering, including AI-based synthetic data generation and data quality evaluation.
- **Transport and logistics -** AI-driven optimisation, system modelling and evaluation of sustainable logistics, sustainable urban mobility pilots and transport automation skills.
- **Modelling and simulation -** applied modelling and simulation, including 20+ simulation studies on the Riga city network.
- **Additive manufacturing -** metal additive manufacturing in the Additive Lab.

SELECTED PROJECTS

BIO-INTEL-MOB - citizen-centric intelligent solutions for mobility and logistics in cities

Horizon Europe Missions · 2026-2030 · partner

Leads the main urban-peri-urban pilot in Riga.

HOLOGISTICS - holistically optimised logistics operations and green solutions

Horizon Europe Cluster 5 · 2025-2028 · partner

Leads AI-driven optimisation, system modelling and evaluation of sustainable logistics frameworks.

RESEARCH INFRASTRUCTURE & FACILITIES

20 specialised laboratories, including the Additive Lab for metal additive manufacturing, and 3 research clusters with expertise in artificial intelligence, data analytics, cyber-physical systems, telecommunications, robotics, applied modelling and software engineering.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

University of Latvia - Bioethics and Research Ethics Group

UNIVERSITY · RIGA, LATVIA · LU.LV

Signe Mežinska

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CORE TEAM

- **Ivars Neiders** - philosophy, medical ethics
- **Ilze Mileiko** - sociology of health
- **Jekaterina Kalēja** - qualitative research
- **Elīza Dubovska** - research ethics

KEYWORDS

Empirical bioethics · Medical ethics · Research ethics and integrity · Biobanking ethics · Reproductive ethics · Patient/public involvement · Patient experience · Sociology of health and illness · Sociology of medicine

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Biotechnology

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Pilot implementation · Stakeholder engagement · Policy recommendations · Training & capacity building

Seeks partners among: Universities · SMEs · NGOs · Research infrastructures · End users · Hospitals · Public authorities

WHAT WE CONTRIBUTE

Internationally recognised expertise in bioethics, research ethics, health policy, patient rights, biobanking, health data governance and responsible innovation, combining social sciences and ethics (empirical bioethics) to address complex societal and technological challenges.

- **Empirical bioethics -** ethical analysis combined with qualitative and quantitative social research.
- **Research ethics & integrity -** ethics review, responsible research and innovation, training and case development.
- **Patient & public involvement -** stakeholder engagement, public consultation, patient experience research.
- **Data & biobank governance -** ethical, legal and social implications of biobanking, health data and predictive tools.
- **Consortium delivery -** leading ethics and social science work packages, developing guidelines and policy recommendations.

SELECTED PROJECTS

FAMILY - understanding and predicting the intergenerational transmission of mental illness

Horizon Europe · 2022-2027 · WP8 leader · family-project.eu

Leads research on the ethical, legal and social implications of mental health risk prediction, developing ethical guidelines, stakeholder processes and patient resources.

BEYOND - a behavioural and evidence-based approach to research ethics and integrity

Horizon Europe · 2023-2026 · WP2 leader · beyondbadapples.eu

Led stakeholder engagement and public consultation, contributing evidence-based approaches, policy recommendations and training resources for European research institutions.

REBALANCE - focused ultrasound-mediated brain cleaning

JPND · 2023-2026 · WP6 leader

Identifies ethical challenges of emerging neurotechnology, engages patients and stakeholder organisations, and develops recommendations for responsible implementation.

ROSiE - responsible open science in Europe

Horizon Europe · 2021-2024 · WP7 leader · rosie-project.eu

Led development of training materials and case studies for researcher training in responsible open science.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

University of Latvia - Center for Sustainable Chemistry

UNIVERSITY · RIGA, LATVIA · MDZF.LU.LV

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CORE TEAM

· **Roman Viter** - associate professor
· **Eduards Bakis** - associate professor

KEYWORDS

Organic Luminophores · Aggregation-Induced Emission · Volatile Spoilage Markers · Optical Gas Sensors · Smart Packaging

DOMAINS OF APPLICATION

Healthcare · Advanced Materials · Food Systems

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: No experience yet

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Research infrastructures

WHAT WE CONTRIBUTE

Organic and functional material synthesis, optical physics, sensor engineering and smart packaging formulation, centred on pyridinium-based luminophores with aggregation-induced emission (AIE) and ratiometric optical sensors for temperature, moisture and volatile compounds. The team links fundamental organic chemistry with applied optoelectronics.

- **Luminophore design -** rational molecular design of pyridinium-based AIE luminophores, with structural optimisation, kinetic polymorphism studies and DFT calculations.
- **Optical gas sensors -** ratiometric sensors for volatile biogenic amines and carboxylic acids, validated in custom climate-controlled chambers, with models linking fluorescence to analyte concentration.
- **Synthesis and scale-up -** route optimisation from milligram to 10 g batches and thermal robustness for melt extrusion at 180-220°C.
- **Characterisation -** NMR, FTIR, XRD, XPS, LC-MS, GC, Raman, TGA and DSC.

SELECTED PROJECTS

BioSmartFilm - intelligent bioplastic packaging for meat and fish freshness

EUREKA Eurostars · Project No. 10527 · project manager and researcher

Leads chemical formulation and scale-up integration of AIE luminophores into bioplastic films for real-time optical sensing of volatile biogenic amines in meat and seafood packaging.

FRESHWAVE - optical sensor solution for smart seafood packaging

BioPhoT platform · Grant No. OSI_PIP_BioPhoT-2025/1-0013 · project manager, lead researcher

Oversaw design and validation of ratiometric optical gas sensors for seafood quality control and the move from laboratory molecules to packaging prototypes tested against spoilage gases.

BRIGHTS - binary ionic organic systems for solid state lighting

ERDF · Grant No. 1.1.1.3/1/24/A/006 · work package leader

Leads the work package on synthesis and structural engineering of ionic organic luminophores, improving photoluminescence quantum yield and photostability.

RESEARCH INFRASTRUCTURE & FACILITIES

Synthetic chemistry laboratories equipped for air- and moisture-sensitive reagents; NMR, FTIR, XRD, XPS, LC-MS, GC, Raman, TGA and DSC characterisation; custom gas exposure testing chambers; 3D bioprinting equipment for surface deposition.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Centre for European and Transition Studies

UNIVERSITY · RIGA, LATVIA · LU.LV



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CORE TEAM

· **Inna Steinbuka** - professor
· **Janis Zvirgzdins**
· **Tatjana Muravska** - professor

KEYWORDS

Social sciences · European studies · Socio-economic analysis · Regional development · Regional economics · Territorial development · Innovation policy

DOMAINS OF APPLICATION

Energy · Public administration · Education · Cultural & Creative Industries · Defence · Smart Cities · Biodiversity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Living labs

Seeks partners among: Universities · Public authorities · NGOs · Research infrastructures · Large industry

WHAT WE CONTRIBUTE

Interdisciplinary expertise in social sciences, economics, European studies, regional and territorial development, innovation policy, digital transformation and public policy, combining academic research with applied approaches. Contributes methodology development, stakeholder engagement and co-creation, impact assessment, policy recommendations, capacity building and project coordination.

- **Research methods -** qualitative, quantitative and mixed-method research, including comparative and case-study analysis, surveys, interviews, focus groups, policy and document analysis, benchmarking, and indicator and KPI development.
- **Impact assessment -** socio-economic and policy impact assessment, needs and gap analysis, stakeholder mapping, policy recommendations and roadmaps.
- **Co-creation & living labs -** co-creation, stakeholder engagement, living and transition labs, peer review and mutual learning.
- **Thematic areas -** digital and green transitions, societal resilience, demographic change, youth and social inclusion, territorial inequalities, innovation ecosystems and technology uptake.

SELECTED PROJECTS

AI4Debunk - Participative AI-powered Tools to Debunk Disinformation

Horizon Europe · coordinator

Coordinates the project, contributing interdisciplinary research, stakeholder engagement, policy analysis, validation, dissemination and exploitation for participatory AI tools against disinformation.

Distance LAB - Developing Remote Working Skills and Services

Interreg Baltic Sea Region 2021-2027 · project manager

Develops Living Labs and an International Multidisciplinary Living Labs Network linking universities, businesses and public authorities, and is responsible for international networking.

RESEARCH INFRASTRUCTURE & FACILITIES

Social science research infrastructure for surveys, interviews, focus groups, stakeholder consultations, comparative research and policy analysis.

EXPERTISE WE ARE LOOKING FOR

Universities and research institutes, municipalities and regional authorities, public institutions, SMEs, NGOs and technology providers, to build or join consortia combining technology with social sciences, economics and policy research.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Department of Environmental Science

UNIVERSITY · RIGA, LATVIA · LU.LV

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CORE TEAM

· **Raimonds Ernšteins** - environmental governance, coastal management
· **Erika Lagzdiņa** - sustainability planning, climate adaptation
· **Ance Rusova** - sustainable consumption, circular economy

KEYWORDS

Sustainability transitions · Environmental governance · Sustainability science · Climate policy · Circular economy · Sustainable consumption · Citizen engagement

DOMAINS OF APPLICATION

Energy · Transport & Mobility · Smart Cities · Biodiversity · Natural Resources · Food Systems · Environment

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation

Seeks partners among: Universities · SMEs · Public authorities · NGOs

WHAT WE CONTRIBUTE

Interdisciplinary expertise in sustainability science, environmental governance, sustainability transitions, climate policy, circular economy, sustainable consumption and citizen engagement, with extensive experience coordinating and implementing projects under Horizon Europe, Horizon 2020, Interreg and Erasmus+.

- **Participatory & transdisciplinary research -** stakeholder engagement, living lab approaches, co-creation with municipalities and communities.
- **Policy analysis & evaluation -** policy co-creation, systems mapping, scenario development, multi-criteria decision support.
- **Sustainability assessment -** environmental indicators, sustainability assessment of bioeconomy and circular economy systems.
- **Social science methods -** qualitative and quantitative research, behavioural studies, surveys and citizen science.

SELECTED PROJECTS

EnergyPROSPECTS - energy citizenship in Europe
Horizon 2020 · project partner
Mapped citizen energy initiatives, analysed enabling governance conditions and developed recommendations for citizen-centred energy transitions.

TransScale - scaling circular economy solutions
Driving Urban Transitions (DUT) · lead partner
Develops methods for scaling circular economy initiatives through participatory governance, systems analysis, Future Literacy Labs and policy experimentation across European cities.

RESEARCH INFRASTRUCTURE & FACILITIES

Living labs and stakeholder co-creation platforms; collaboration networks with municipalities, ministries, NGOs, businesses and local communities; survey and citizen science infrastructure; sustainability indicator databases; GIS and spatial analysis tools; participatory methods including Future Literacy Labs, Delphi surveys and stakeholder workshops; access to case study sites and pilot environments.

EXPERTISE WE ARE LOOKING FOR

Partners with complementary expertise in climate and energy transitions, circular and bioeconomy, sustainable food systems, biodiversity, environmental data science, AI-supported sustainability solutions, digital twins, GIS, citizen science, behavioural change, systems modelling, policy innovation and living labs.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Faculty of Science and Technology (Human Geography)

UNIVERSITY · RIGA, LATVIA · EZTF.LU.LV



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CORE TEAM

- **Maris Berzins**
- **Zaiga Krisjane**
- **Janis Krumins**
- **Sindija Balode-Kraujina**

KEYWORDS

Migration and mobility · International student mobility · Population geography and demographic change · Urban geography · Residential segregation · Urban shrinkage and regional development · Spatial analysis and GIS

DOMAINS OF APPLICATION

Smart Cities · Demography, Migration, Urban change · Education · Cultural & Creative Industries · Digital Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Living labs · Dissemination & communication

Seeks partners among: Universities · Research infrastructures

WHAT WE CONTRIBUTE

Human geography expertise on population, migration and urban geography of the Baltic states and Central and Eastern Europe (CEE). Contributes Baltic and CEE case studies and data, survey design, spatial and comparative analysis, stakeholder engagement and policy briefs, with experience in Horizon Europe, ESPON, COST and Latvian Council of Science projects.

- **Migration & mobility -** return migration, international student mobility and internal migration, with the digital transformation of education.
- **Demographic change -** population geography and ageing in the Baltic states and Central and Eastern Europe.
- **Urban geography -** residential segregation and urban shrinkage, linking social change with territorial planning, sustainable cities and inclusive education.
- **Spatial analysis -** GIS, spatial statistics, and analysis of census and register data.

SELECTED PROJECTS

Re-Place - reframing non-metropolitan left-behind places through mobility

Horizon Europe · GA 101094087

Horizon Europe project on non-metropolitan left-behind places, mobility and alternative development.

RUDI - rural innovation to address demographic and climate challenges

Horizon Europe · GA 101286747

Horizon Europe project on rural innovation addressing demographic and climate challenges.

ESPON METRO - cohesion policy in the planning of metropolitan areas and cities

ESPON

Study of the role and future perspectives of Cohesion Policy in the planning of metropolitan areas and cities.

RESEARCH INFRASTRUCTURE & FACILITIES

Living labs, census datasets, population registers and GIS software, together with experience of working with planning regions.

EXPERTISE WE ARE LOOKING FOR

Universities, municipalities, NGOs, schools and technology providers with expertise in AI and big data analytics, participatory methods, housing and labour economics, integration policy, spatial planning and educational technology, for projects on migration, demographic change and urban inequality.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Atomic Physics and Spectroscopy

RESEARCH INSTITUTE · RIGA, LATVIA · ASI.LU.LV



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CORE TEAM

· **Artis Kinens**
· **Mindaugas Tamosiunas**
· **Agris Berzins**

KEYWORDS

Metal oxides · Organic luminophores · Nanocomposites · Hydrothermal growth · Electrospinning · 3D printing · Optical gas and chemical sensors · Non-destructive optical methods

DOMAINS OF APPLICATION

Healthcare · Pharmaceuticals · Medical Technologies · Energy · Manufacturing · Defence · Electronics & Photonics · Space Technologies · Advanced Materials

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Living labs · Validation & testing · Dissemination & communication

Seeks partners among: SMEs · Large industry · End users · Public authorities

WHAT WE CONTRIBUTE

Expertise in the synthesis, characterisation and application of nanomaterials with advanced optical properties. The team also brings dissemination and exploitation, project preparation, coordination and management to international consortia.

- **Nanomaterial synthesis -** metal oxides, organic luminophores and nanocomposites, using hydrothermal growth, electrospinning and 3D printing.
- **Optical sensors -** optical gas and chemical sensors, luminescence sensors for ion detection and non-destructive optical methods.
- **Spectroscopic characterisation -** UV-VIS-NIR and photoluminescence spectroscopy, FTIR and Raman.
- **Application areas -** smart food packaging, surface defect detection on wind turbine blades, cancer detection biosensors and agricultural sensing, with microfluidic integration.
- **Project management -** project preparation, coordination, dissemination and exploitation.

SELECTED PROJECTS

Novel 1D photonic metal oxide nanostructures for early stage cancer detection

H2020-MSCA-RISE-2017 · GA 778157

Development of luminescence biosensors based on ZnO nanostructures for cancer detection, integrated with microfluidic systems.

SENS4CORN - novel optical nanocomposite sensors for corn plant analysis

HORIZON-MSCA-2021-SE-01-01 · GA 101086364

Development of luminescence sensors for ion detection and nanocomposites for agricultural application, integrated with microfluidic systems, for analysis of micro and macro elements in corn plants.

FreshSens - optical sensor solution for smart packaging of fresh seafood

BioPhoT · OSI_PIP_BioPhoT-2025/1-0013

Develops new luminescence materials for smart food packaging, with transfer to commercialisation and application in the food industry and food transportation.

RESEARCH INFRASTRUCTURE & FACILITIES

UV-VIS-NIR spectroscopy, photoluminescence spectroscopy, FTIR and Raman; electrospinning, 3D printing, hydrothermal synthesis and glassware manipulation; optical gas and chemical sensor setup.

EXPERTISE WE ARE LOOKING FOR

Industrial partners and national agencies from the sensor sector, agricultural producers (meat, fish, vegetables and fruits), drone detection, the wind energy sector and H2/NH3 storage.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Microbiology and Biotechnology

UNIVERSITY · RIGA, LATVIA · LU.LV



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CORE TEAM

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· **Jānis Liepiņš**
· **Agris Pentjušs**

KEYWORDS

Microalgae · Fermentation · Metabolic modeling · Antimicrobial peptide · Plant biotechnology

DOMAINS OF APPLICATION

Biodiversity · Food Systems · Agriculture · Biotechnology · Environment

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs

WHAT WE CONTRIBUTE

Multidisciplinary expertise in microbial, microalgae and plant biotechnology, metabolic engineering and computational biology.

- **Microalgae biotechnology -** bioconversion and valorisation of agricultural and dairy industry waste and by-products, including cultivation method development, optimisation and scale-up.
- **Plant biotechnology -** callus and cell-suspension cultures, Agrobacterium-mediated transformation, CRISPR/Cas genome editing, plant-microbe co-cultivation, microbiome research and molecular markers.
- **Microbial biotechnology -** genetic and metabolic engineering, bacterial bioenergetics, antimicrobial peptide resistance, recombinant peptide production, bioreactor cultivation and scale-up.

SELECTED PROJECTS

ALGAE2HEALTH - oat hull bioconversion by microalgae for immuno-modulating ingredients

ERDF · industrial research project

Carries out interdisciplinary industrial research on a zero-waste oat husk biorefining process, producing xylo-oligosaccharides, omega-3 fatty acids and antioxidants with immunomodulatory properties.

Multimodal bacterial platform for skin and soft tissue infections

ERDF

Develops a sustainable and economically feasible multimodal Zymomonas mobilis platform for the production of antimicrobial peptides.

RESEARCH INFRASTRUCTURE & FACILITIES

Fourier transform infrared (FTIR) spectroscopy system (Bruker Vertex 70 spectrometer, HTS-XT high-throughput module, Hyperion 2000 FTIR microscope); HPLC systems (ACQUITY Arc, AGILENT 1000 series), DIONEX ICS 5000 ion chromatograph and gas chromatography systems; Sartorius Biostat A desktop bioreactors and a 25 l flat panel photobioreactor; the Microbial Strain Collection of Latvia (MSCL); flow cytometer.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, municipalities, SMEs, NGOs, healthcare and technology providers with complementary expertise in analytical methods (LC-MS, high-resolution mass spectrometry, proteomics, peptidomics), multi-omics bioinformatics, genome editing for plant and microbial biotechnology, testing of antimicrobial compounds for skin applications, bioprocess scale-up, and industrial side streams and pilot facilities.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Numerical Modelling

UNIVERSITY · RIGA, LATVIA · MODINST.LV

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CORE TEAM

- **Tija Sīle**
- **Juris Sennikovs**
- **Andrejs Timuhins**
- **Aigars Valainis**
- **Rauls Pols**

KEYWORDS

Numerical modelling · AI · Oceanography · Hydrology · Hydrogeology · Hydraulics · Climate · Water quality · Renewable energy

DOMAINS OF APPLICATION

Energy · Artificial Intelligence · Digital Technologies · Biodiversity · Natural Resources · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement · Dissemination & communication · Data management · AI / Digital tools · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · End users

WHAT WE CONTRIBUTE

Expertise in numerical modelling and AI applied to oceanography, hydrology, hydrogeology, hydraulics, climate and water quality, with additional work on renewable energy.

- **Numerical modelling -** numerical modelling of oceanographic, hydrological, hydrogeological and hydraulic processes.
- **Climate & water quality -** climate and water quality modelling.
- **Artificial intelligence -** AI methods applied to ocean, climate and water-related problems.
- **Renewable energy -** modelling and smart management of hybrid renewable energy production.

SELECTED PROJECTS

CE2COAST - downscaling climate and ocean change to services

JPI Climate

Project on downscaling climate and ocean change to services: thresholds and opportunities.

ODIN-AI - Ocean Disaster Intelligent Network using AI

COST Action CA25171

Action on an ocean disaster intelligent network using AI.

Prototype of a hybrid renewable energy production and smart management system

Recovery and Resilience Mechanism project

Development of a prototype hybrid renewable energy production and smart management system for optimal use of resources.

RESEARCH INFRASTRUCTURE & FACILITIES

High-performance computing (HPC) and AI cluster.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Numerical Modelling (INM)

RESEARCH INSTITUTE · RIGA, LATVIA · MODINST.LU.LV



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CORE TEAM

- **Janis Virbulis**
- **Armands Krauze**
- **Andrejs Sabanskis**
- **Maksims Surovovs**
- **Krisjanis Kalme**

KEYWORDS

Crystal growth · Mathematical modelling · Neural networks · CFD · HPC

DOMAINS OF APPLICATION

Energy · Manufacturing · Artificial Intelligence

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: No experience yet

Can take on: Proposal writing · WP leadership · Task leadership · AI / Digital tools · Validation & testing · Training & capacity building

Seeks partners among: SMEs · Large industry · Public authorities · Universities

WHAT WE CONTRIBUTE

More than 30 years of experience in mathematical modelling of silicon single crystal growth, using specialised and commercial software to simulate crystal growth equipment. Also carries out research on automation and smart control of industrial processes, supported by a dedicated 1000+ core HPC cluster.

- **Crystal growth modelling -** simulation of electromagnetics, heat transfer, hydrodynamics and point-defect transport in silicon single crystal growth equipment.
- **Process control -** research on automation and smart process control for industrial processes.
- **High-performance computing -** numerical solution of computationally demanding problems on a dedicated 1000+ core cluster.
- **Crystal growth experiments -** lab-scale furnace for growing crystals of low melting-point compounds such as LiBr.
- **Silicon growth technology -** development of the pedestal method for silicon crystal growth, supported by a numerical model system.

SELECTED PROJECTS

EuroCC 2 - skills and cooperation in European high-performance computing
project partner
The project aims to identify and address skills gaps in the European high-performance computing (HPC) ecosystem and to coordinate cooperation across Europe to ensure a consistent skills base.

Development of high-level digital skills in Latvia in the field of HPC
project partner
Aims to increase the number of specialists in Latvia with high-level digital skills (DigComp levels 7-8) and to create synergy between higher education, science and industry.

Silicon crystals up to 100 mm in diameter for power rectifiers
work package leader
Develops the pedestal method for silicon crystal growth and creates the numerical model system to support it.

RESEARCH INFRASTRUCTURE & FACILITIES

1000+ core HPC cluster; lab-scale crystal growth furnace for low melting-point compounds (e.g. LiBr); crystal growth modelling software.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Solid State Physics (Theory Laboratory)

RESEARCH INSTITUTE · RIGA, LATVIA · CFI.LU.LV



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CORE TEAM

· **Yuri Mastrikov**
· **Andrew Chesnokov**
· **Alexander Platonenko**

KEYWORDS

Multi-scale modeling · Density functional theory · Machine learning approaches · Electrochemistry · Photonics · CO2 conversion · Nuclear fuels

DOMAINS OF APPLICATION

Energy · Artificial Intelligence · Electronics & Photonics · Space Technologies · Defence · Advanced Materials · Environment

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner · Funded as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · Research infrastructures · NGOs · Large industry · SMEs

WHAT WE CONTRIBUTE

Multiscale modelling and machine-learning approaches, with experience from EU-funded projects on solid oxide electrochemical cells, nuclear fuels, radiation resistance of materials, photonics and e-fuels for CO_2 conversion. Strong expertise in density functional theory (DFT) and data analysis, combined with development of supporting programming tools.

- **Multiscale modelling -** combination of advanced computational methods and codes for materials and electrochemical systems.
- **Density functional theory -** DFT calculations for materials in electrochemical cells, nuclear fuels, photocatalysts and radiation-damage studies.
- **Machine learning -** machine-learning approaches and data analysis, with supporting programming tools.
- **Radiation damage -** radiation-induced defects in optical and dielectric materials for fusion, combining experimental and theoretical methods.

SELECTED PROJECTS

WPMAT-FM - functional materials for DEMO fusion reactors

EUROfusion · project coordination

Studies radiation-induced damage in optical and dielectric materials (Al2O3, MgAl2O4 spinel, amorphous SiO2) under neutron, electron, ion and proton irradiation, combining experimental and theoretical methods.

AETA - defect evolution and disordering in optical and dielectric materials for fusion

EUROfusion · project coordination

Advanced experimental and theoretical analysis of radiation damage in diagnostic windows, lenses, fibres and cables under intense neutron and gamma radiation.

RESEARCH INFRASTRUCTURE & FACILITIES

Computational software and a local Linux cluster.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, municipalities, SMEs, NGOs and technology providers with expertise in energy applications, AI and sustainability, for Horizon Europe collaborative projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Solid State Physics - Energy Materials

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CORE TEAM

· **Emmanuel Guilmeau**
· **Marisol Martin-Gonzalez**
· **Francisco Molina Lopez**

KEYWORDS

Energy Materials · Thermoelectrics · Thermochromic · Lithography · Thermal deposition · Photonics · Battery

DOMAINS OF APPLICATION

Energy · Manufacturing · Electronics & Photonics · Space Technologies · Natural Resources · Environment · Medical Technologies

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner · Worked as a researcher in a european project.

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

Capabilities across the research and innovation chain for functional materials: nanomaterials synthesis, micro- and nanofabrication, advanced characterisation, thermal analysis, device prototyping and computational modelling. Particular focus on thermoelectric and photochromic materials, supported by cleanroom facilities and high-performance computing.

- **Materials synthesis -** wet-chemical and microwave-assisted synthesis, vacuum deposition, and solution-based casting and coating of thermoelectric, photochromic and other functional materials.
- **Micro- & nanofabrication -** lithography and processing in ISO Class 4-8 cleanroom facilities for sensors, microfluidics and semiconductor-related work.
- **Advanced characterisation -** X-ray diffraction and photoelectron spectroscopy, electron microscopy (SEM, TEM), thermal analysis, thermoelectric transport and Hall effect measurements.
- **Device prototyping -** prototype thermoelectric generators and coolers, sensors and energy-harvesting systems, with optimisation and performance evaluation.

SELECTED PROJECTS

Advanced nanostructured thermoelectric materials for waste heat recovery

Horizon Europe / national research programme · lead researcher, work package leader

Led development of nanostructured thermoelectric materials that convert waste heat into electricity, including synthesis, characterisation and a prototype thermoelectric generator for energy harvesting.

Flexible polymer-inorganic hybrid thermoelectrics for wearable energy harvesting

Horizon Europe / COST Action / national innovation programme · principal investigator

Developed flexible composites of conductive polymers and inorganic thermoelectric nanomaterials, targeting self-powered wearable electronics and low-grade heat recovery.

RESEARCH INFRASTRUCTURE & FACILITIES

Materials synthesis laboratories for thermoelectric, photonic, electronic, ceramic, nanostructured and energy-storage materials; thin-film and coating facilities; a 650 m^2 ISO Class 4-8 cleanroom for micro- and nanofabrication; characterisation laboratories (structural, thermal, electrical, optical, spectroscopic, surface); energy materials laboratories; computing for modelling; and open-access prototype testing facilities.

EXPERTISE WE ARE LOOKING FOR

Researchers, research organisations and industry in advanced materials, energy technologies and device engineering.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities · A Soil Deal for Europe · Restore our Ocean and Waters · New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Solid State Physics - Ferroelectrics

RESEARCH INSTITUTE · RIGA, LATVIA · CFI.LU.LV

Andrei Kholkin

Leading Researcher and ERA Chair holder

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CORE TEAM

- **Marija Dunce** - ferroelectric ceramics
- **Reinis Ignatans** - structural characterisation
- **Eriks Birks** - dielectric and piezoelectric properties
- **Shadab Dabagh** - magnetoelectric materials
- **Katrina Laganovska** - functional nanomaterials

KEYWORDS

Ferroelectrics · Piezoelectrics · Magnetoelectrics · 2D materials · Energy materials · Scanning Probe Microscopy of functional materials

DOMAINS OF APPLICATION

Advanced Materials · Electronics & Photonics · Biotechnology · Energy · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Dissemination & communication · Exploitation · Data management · Validation & testing

Seeks partners among: Universities · SMEs · Large industry · Hospitals · Research infrastructures · End users

WHAT WE CONTRIBUTE

Extensive expertise in the fabrication and characterisation of advanced functional materials - dielectrics, ferroelectrics, piezoelectrics, magnetoelectrics, energy materials, 2D and van der Waals materials - supported by a state-of-the-art scanning probe microscopy laboratory for visualising functional properties at the nanoscale.

- **Functional materials -** synthesis and processing of ferroelectric, piezoelectric and magnetoelectric ceramics, thin films and nanostructures.
- **Nanoscale characterisation -** scanning probe microscopy of functional properties, electrochemical strain microscopy, TEM, FIB patterning.
- **Energy materials -** Li-ion cathode materials, degradation studies, piezoelectric and triboelectric energy harvesting.
- **Biomedical devices -** self-assembled peptide nanotubes and biocompatible piezoelectric films for sensing and implantable devices.
- **Project delivery -** methodology development, pilot production, impact assessment, dissemination and exploitation.

SELECTED PROJECTS

FeLow-D - low-dimensional ferroelectrics for advanced electronic and biomedical devices

Horizon Europe WIDERA ERA Chair · 2024-2029 · coordinator

Hosts and coordinates the ERA Chair, building a research group around low-dimensional ferroelectrics and their electronic and biomedical applications.

Piezo2D - piezoelectricity in 2D materials: materials, modelling and applications

Horizon Europe MSCA Staff Exchanges · 2023-2027 · coordinator

Coordinates an international exchange network combining materials synthesis, modelling and application development for piezoelectric 2D materials.

Ensign - comprehensive non-invasive correlative nanoscopy with unprecedented resolution

Horizon Europe MSCA Staff Exchanges · 2022-2026 · partner

Develops correlative nanoscopy methods combining scanning probe and optical techniques for non-invasive characterisation of materials and biological samples.

RESEARCH INFRASTRUCTURE & FACILITIES

Scanning Probe Microscopy Laboratory with four dedicated instruments (including an Oxford Instruments Vero ES); piezoelectric and triboelectric energy harvesting setup; dielectric spectroscopy over wide temperature and frequency ranges; ferroelectric tester, LVDT and poling equipment; hydrothermal synthesis, pulsed laser deposition, magnetron sputtering, TEM and FIB patterning.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

University of Latvia - Institute of Solid State Physics - Thin Films and Photonics

UNIVERSITY · RIGA, LATVIA · CFI.LU.LV



Aleksejs Zolotarjovs

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CORE TEAM

- **Virginija Vitola**
- **Sergejs Fomins**
- **Katrina Loganovska**

KEYWORDS

Materials Science · Thin Films · Photonics · Nanotechnology · Energy Storage · Microfluidics · Cleanroom Infrastructure

DOMAINS OF APPLICATION

Electronics & Photonics · Advanced Materials · Energy · Environment · Medical Technologies

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project coordinator · Submitted as a project partner · Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

Materials science, physics and cross-disciplinary technologies, with thin films and coatings, synthesis of 0D, 1D, 2D and nanocomposite materials, and characterisation under harsh conditions (space, vacuum, radiation). Research priorities cover photonic materials, energy harvesting and storage, microfluidics and biomedical devices, and computational materials science.

- **Photonic materials -** advanced functional materials for photonic devices and polymer photonics, with photoluminescence and spectroscopic ellipsometry.
- **Energy materials -** smart materials for energy harvesting, storage and conversion, including Li-ion and Na-ion battery electrode materials.
- **Microfluidics -** microfluidics, biomedical devices and organ-on-a-chip technologies.
- **Thin films -** thin film and coating technologies and synthesis of 0D, 1D, 2D and nanocomposite materials.

SELECTED PROJECTS

CAMART² - Centre of Advanced Materials Research and Technology Transfer

Horizon 2020 Teaming · coordinator and lead partner

Upgrades the institute into a regional Centre of Excellence for advanced materials research and technology transfer, working with KTH and RISE (Sweden) to link academic research with industry and commercialisation.

FeLow-D - low-dimensional ferroelectrics for electronic and biomedical applications

Horizon Europe ERA Chairs · coordinator and lead partner

Develops low-dimensional ferroelectric materials for energy harvesting, sensors, smart implants and electronic devices, integrating physics, chemistry and biomedical engineering.

RESEARCH INFRASTRUCTURE & FACILITIES

Over 650 m^2 of certified cleanroom space (ISO Class 4-8) for micro- and nanofabrication, thin-film deposition, photolithography, wet and dry etching and microfluidic chip prototyping.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, industrial end-users and high-tech SMEs specialising in advanced manufacturing scale-up, AI-driven computational modelling, biomedical in-vitro testing and sustainability assessment (LCA), to co-develop, test and scale solutions in photonics, energy storage and microfluidics within Horizon Europe and international initiatives.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Cancer · Adaptation to climate change · Climate-neutral and smart cities · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Latvian Language and Linguistics

UNIVERSITY · RIGA, LATVIA · LU.LV

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CORE TEAM

- **Tatjana Pakalne**
- **Ilze Lokmane**
- **Inta Urbanoviča**
- **Milan Hoplíček**
- **Evelīna Zilgalve**

KEYWORDS

Linguistics · Grammar · Creativity in linguistics · Derivational morphology · Derivational morphology database · Morphemic segmentation · Word families · Linguistic typology · Corpus linguistics

DOMAINS OF APPLICATION

Digital Technologies · Linguistics

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Dissemination & communication · Training & capacity building

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Theoretical and practical research on Latvian morphemes, their functions and the principles governing their combinability, based on data-driven inventorying, classification and analysis. The team offers a dependable basis for further data-based research on Latvian word formation, morphemics and grammar, and helps to fill the gap in digital resources for the Latvian language.

- **Derivational morphology -** data-based inventorying, classification and analysis of morphemes, morpheme functions and combinability within the language system as a whole.
- **Latvian grammar -** data-driven studies of Latvian grammar, word formation and morphemics.
- **Digital language resources -** databases of Latvian morphemes and derivational models, combining linguistics with digital technologies.
- **Research activities -** linguistic and interdisciplinary research, international conferences, seminars, publications, public outreach and engagement of students and early-career researchers.

SELECTED PROJECTS

DLMDM - Database of Latvian Morphemes and Derivational Models

Latvian Research Council Fundamental and Applied Research programme · 2023-2026 · project leader

Leads the project building a database of Latvian morphemes and derivational models.

Database of Latvian Morphemes and Word Formation Models (Letonika)

State Research Programme Letonika · 2026-2028 · leader of task 3

Leads the third task of work package 3 (language tools and resources) in the project on digital resources and AI technologies for the sustainability of the Latvian language.

Data-driven studies in Latvian Grammar

State Research Programme Letonika · 2022-2024 · leader of work package 3

Led the third work package of the project on research on modern Latvian language and development of language technology.

Acquisition of Latvian as a Foreign Language - language sustainability and state security

University of Latvia high-impact research project · 2025 · project leader

Leads a research project on the acquisition of Latvian as a foreign language as an issue of language sustainability and state security.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Living Materials group

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CORE TEAM

· **Gita Grinberga** - EU projects
· **Juliana Guimaraes** - magnetotactic bacteria, water treatment, medicine

KEYWORDS

Nanoparticles · Nanomaterials · Biomineralization · Sustainable formation · Iron oxide · Magnetotactic bacteria · Magnetite · Microswimmer

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Manufacturing · Advanced Materials · Robotics & Automation · Biodiversity · Biotechnology

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project coordinator · Funded as a project partner · Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Universities · SMEs · Large industry · Public authorities · Hospitals · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary studies of functional composite micro- and nanosystems formed via biological and sustainable routes, aimed at medical applications. Bio-inspired research on biomineralising organisms such as magnetotactic bacteria, applying their design principles to hybrid systems for magnetically directed nanodevices in medicine, sensing, actuation and transport.

- **Biomineralisation -** understanding how biological systems synthesise, organise and use materials, with magnetotactic bacteria and their chains of magnetosomes as a model.
- **Magnetic nanomaterials -** biomimetic and biomineralised iron oxide and magnetite nanoparticles formed under environmentally friendly, sustainable conditions.
- **Magnetic microswimmers -** magnetically directed nanodevices and living magnetobots for medicine, sensing, actuation and transport.
- **Medical applications -** magnetic resonance imaging, nanomedicine for atherosclerosis and targeted theranostics for metastatic solid tumours; water treatment.

SELECTED PROJECTS

ERA Chair - biological magnets for multidisciplinary research excellence
HORIZON-WIDERA-2023-TALENTS-01 · GA 101187789 · coordinator
Coordinates the ERA Chair project, which builds multidisciplinary research excellence around biological magnets.

MagBIO - living magnetobots for targeted theranostics of metastatic solid tumours
MSCA Staff Exchange · HORIZON-MSCA-2025-SE-01-01 · GA 101299576 · WP leader
Leads a work package in a staff exchange project on living magnetobots for targeted theranostics to tackle metastatic solid tumours.

Molecular biomimetics and magnet biomineralisation - towards swimming nanorobots
ERC Starting Grant · GA 256915 · coordinator
Led the ERC Starting Grant project on molecular biomimetics and the biomineralisation of magnets, aiming at swimming nanorobots.

Biomimetic and biomineralised magnetic nanoparticles for magnetic resonance imaging
FP7-NMP-2009 · GA 245542 · coordinator
Coordinated an EU collaborative project on biomimetic and biomineralised magnetic nanoparticles for magnetic resonance imaging.

RESEARCH INFRASTRUCTURE & FACILITIES

Automated system for particle synthesis and a custom-designed microscopy platform for magnetic microswimmers.

EXPERTISE WE ARE LOOKING FOR

Partners for EU grant proposals.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Cancer			
Widening participation and strengthening the European Research Area			

University of Latvia - Microbial Strain Collection of Latvia (MSCL)

UNIVERSITY · RIGA, LATVIA · LU.LV

Māris Seņkovs

Lead Researcher

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CORE TEAM

· **Elīna Ažena**
· **Agnese Kokina**
· **Samanta Bererna**
· **Dāvis Ducis**

KEYWORDS

Microbial strain collections · Microbial biodiversity · Microbial isolation and identification · Microbial taxonomy · Strain preservation and quality control · Antimicrobial screening · Biocontrol

DOMAINS OF APPLICATION

Biotechnology · Environment · Education

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · Data management · Validation & testing · Training & capacity building · Dissemination & communication

Seeks partners among: Universities · SMEs · Research infrastructures

WHAT WE CONTRIBUTE

A curated collection of more than 1,800 bacterial, yeast and filamentous fungal strains, with expertise in microbial isolation, identification, taxonomy, preservation and quality control. Contributes strain selection and characterisation, antimicrobial and antifungal screening, phenotypic assays and genomic analysis, and, as Latvia's national node in MIRRI-ERIC, links to European infrastructure.

- **Strain collection -** preserved bacterial, yeast and filamentous fungal strains with identification and provenance data, maintained under quality control.
- **Isolation & identification -** isolation, cultivation, identification, taxonomy and preservation of microorganisms.
- **Screening & assays -** antimicrobial and antifungal activity, microbial interactions and phenotypic assays, including screening of potential biocontrol strains.
- **Genomic analysis -** genome sequence data and analysis of selected strains, including assessment of biosynthetic potential.

SELECTED PROJECTS

MIRRI-FIRM - making MIRRI FAIR for globally impactful research

Horizon Europe · from 2026 · University of Latvia project lead for MSCL

Planned contribution: improving the quality, accessibility and interoperability of microbial strains and associated data across European collections.

MALDIBANK - multi-domain open MALDI spectra archive for identification of microorganisms

Horizon Europe Research and Innovation Action · 2025 · researcher

Contributes microbial collection and identification expertise to the development of an open archive of MALDI mass spectra.

Streptomyces synthetic communities against ash dieback and acute oak decline

Latvian Council of Science · 2025-present · lead researcher, project leader since March 2026

Provides strains, screens their activity against forest pathogens, analyses their genomes and selects candidates with complementary traits for synthetic microbial communities.

RESEARCH INFRASTRUCTURE & FACILITIES

Microbial strain collection of more than 1,800 preserved bacterial, yeast and filamentous fungal strains with identification and provenance data; microbiology laboratories for isolation, cultivation, identification, preservation and quality control; antimicrobial and antifungal screening and phenotypic testing; genome sequence data for selected strains; and access to the MIRRI-ERIC network.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, microbial culture collections, forestry organisations and biotechnology companies.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology

UNIVERSITY · RIGA, LATVIA · MDZF.LU.LV



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CORE TEAM

· **Department core staff** - working with the Institute of Microbiology and Biotechnology

KEYWORDS

Plant genetics · Plant biotechnology · Genetic engineering · Genome editing · Transcriptomics · Biosafety of GMOs and New Genomic Techniques

DOMAINS OF APPLICATION

Biotechnology · Agriculture

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Dissemination & communication · Policy recommendations · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · Public authorities · NGOs · Research infrastructures

WHAT WE CONTRIBUTE

Plant biotechnology expertise covering genetic engineering and genome editing, plant stress response, genomics, transcriptomics and metabolomics, and environmental and industrial biotechnology. Extensive experience in national (Latvian Council of Science, European Regional Development Fund) and international (Baltic Research Programme, Horizon Europe) collaborative projects.

- **Genome editing -** genetic engineering and genome editing of plants, including CRISPR-Cas9 tools for perennial ryegrass and blueberry cultures.
- **Plant stress & omics -** plant stress response studied with genomics, transcriptomics and metabolomics.
- **Metabolic engineering -** production of high-value secondary metabolites in genome-edited plant cultures.
- **New Genomic Techniques -** regulatory scenarios and cost estimates for plant products, and risk assessment of food and feed obtained with these techniques.

SELECTED PROJECTS

EditGrass4Food - CRISPR-Cas9 for resilient perennial ryegrass

EEA-NOR Baltic Research Programme · 2021-2024 · principal investigator

Led an international team from Norway, Estonia and Lithuania developing genome editing tools for perennial ryegrass (Lolium perenne) to improve abiotic stress tolerance.

GeneBEcon - capturing the potential of gene editing for a sustainable bioeconomy

Horizon Europe HORIZON-CL6-2021-ZEROPOLLUTION-01-08 · 2022-2025 · project participant

Contributed to scenarios for the regulation of New Genomic Techniques plant products and estimated the costs of regulation.

Genome-edited blueberry cultures for high-value secondary metabolites

Latvian Council of Science · lzp-2018/1-0101 · 2018-2021 · principal investigator

Explored metabolic engineering of blueberry (Vaccinium corymbosum L.) cultures, using genome editing of secondary metabolite production genes.

RESEARCH INFRASTRUCTURE & FACILITIES

Research glasshouse, standard molecular biology and biotechnology laboratory equipment, plant growth and phenotyping facilities, and access to NGS technologies and bioinformatics core facilities through collaboration with the National Institute of Research and Innovation. The University of Latvia also offers further research infrastructure on its new campus.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Social Work and Social Policy

UNIVERSITY · RIGA, LATVIA · LU.LV

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CORE TEAM

· **Līga Rasnača**
· **Liesma Ose**
· **Aiga Romāne-Meiere**

KEYWORDS

Social Work · Social Policy · Qualitative Research · Disability Inclusion · Inclusive Communities · Participatory Research · Co-Creation

DOMAINS OF APPLICATION

Public administration · Social Work, Social Sciences

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Pilot implementation · Stakeholder engagement · Data management

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Expertise in social policy analysis, social sustainability, social work, community development and social inclusion, drawing on sociology, social work and political science. The team contributes qualitative and quantitative research, participatory and co-creation methods, pilot design, stakeholder engagement, dissemination, exploitation and project coordination.

- **Social policy analysis -** policy analysis and evidence-based recommendations on social sustainability and societal challenges.
- **Social work & inclusion -** social work, community development and social inclusion, including disability inclusion and inclusive communities.
- **Research methods -** qualitative and quantitative research, data collection and analysis, and methodology development.
- **Participatory approaches -** co-creation, participatory research and social innovation approaches with public authorities and civil society organisations.

SELECTED PROJECTS

Social Work for Community Resilience: Between Global Challenges and Local Action

Latvian Council of Science · 2025-2027 · principal researcher and project manager

Leads research on the role of social work in strengthening community resilience, responsible for coordination, research design, qualitative data collection and analysis, and dissemination.

DEMOMIGPRO - new solutions for research on demographic and migration processes

National Research Programme of Latvia · 2022-2024 · lead researcher

Led the talent migration research team, contributing policy analysis, qualitative research and evidence-based recommendations on regional development.

SIforAGE - social innovation for active and healthy ageing

EU Seventh Framework Programme (FP7) · 2014-2016 · researcher

Contributed to international research on social innovation for active and healthy ageing, including comparative research, stakeholder engagement, data analysis and knowledge exchange.

RESEARCH INFRASTRUCTURE & FACILITIES

Access to interdisciplinary research infrastructure at the University of Latvia, including digital research platforms, data repositories, and survey and interview research facilities. Partners can use data collection and analysis capacity, pilot implementation support and research datasets through the University of Latvia Research Portal and DataverseLV.

EXPERTISE WE ARE LOOKING FOR

Research and practice partners with expertise in disability inclusion, accessibility, social innovation, health and social care, community development, impact evaluation, digital solutions for social services and evidence-based policymaking.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Societal Resilience Research Group

UNIVERSITY · RIGA, LATVIA · ESZF.LU.LV



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CORE TEAM

- **Didzis Kļaviņš**
- **Roberts Kits** - doctoral student
- **Armands Aivo Astukevičs** - doctoral student

KEYWORDS

Civil preparedness · Disaster risk reduction · Societal resilience · Threat perception · Hybrid-threats · Terrorism

DOMAINS OF APPLICATION

Defence · Digital Technologies · Artificial Intelligence · Cybersecurity · Smart Cities

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement

Seeks partners among: Universities · Public authorities · NGOs · Research infrastructures · End users

WHAT WE CONTRIBUTE

Developer of the Baltic Individual Crisis Preparedness Barometer, an annual survey of threat perception and preparedness across eight Baltic Sea Region countries with an 8,000-respondent dataset. Also expert in individuals' capacity to recognise terrorism, hybrid-attack and sabotage threats, extending preparedness research to human-made hazards.

- **Crisis preparedness -** annual comparative survey research on individual threat perception, readiness and barriers to preparedness in eight Baltic Sea Region countries.
- **Hybrid threat recognition -** citizens' ability to identify suspicious activity linked to hybrid attacks and sabotage, including vulnerabilities of critical infrastructure.
- **Reporting behaviour -** willingness to report through traditional and digital channels, and the effectiveness of current reporting mechanisms.
- **Policy analysis -** preparedness indices, cross-country analysis and policy recommendations integrating political science, psychology, management and communication research.

SELECTED PROJECTS

Baltic Individual Crisis Preparedness Barometer

University of Latvia High Impact Programme · ZDA-LIP2025/16 · 2026-2029 · project lead

Institutionalises an annual comparative survey of individual crisis preparedness across eight countries, delivering an updated preparedness index, cross-country analysis and policy recommendations.

Empowering Baltic Resilience - from awareness to action via technology

Latvian Council of Science · LZP-2025/1-0191 · 2026-2028 · project lead

Studies citizens' readiness in Latvia, Estonia and Lithuania to identify and report suspicious activity linked to hybrid threats, and evaluates current reporting mechanisms including digital tools.

RESEARCH INFRASTRUCTURE & FACILITIES

Baltic Individual Crisis Preparedness Barometer: a validated, large-scale survey instrument tracking individual threat perception and behavioural preparedness annually, with an 8,000-respondent dataset across Denmark, Estonia, Finland, Germany, Latvia, Lithuania, Poland and Sweden, being expanded to Norway and Iceland.

EXPERTISE WE ARE LOOKING FOR

Partners with experience in coordinating and implementing consortium projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

University of Latvia - Spectroscopy and Light Source Technology Laboratory

UNIVERSITY · RIGA, LATVIA · LU.LV

Atis Skudra

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CORE TEAM

· **Gita Revalde**
· **Natalja Zorina**
· **Anda Abola**

KEYWORDS

Hf/rf electrodeless lamps · UV · Absorption spectroscopy · Plasma sources · Mercury · Standards

DOMAINS OF APPLICATION

Healthcare · Medical Technologies · Manufacturing · Education · Defence · Electronics & Photonics · Space Technologies

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: WP leadership · Scientific leadership · Policy recommendations · Exploitation

Seeks partners among: Universities · SMEs

WHAT WE CONTRIBUTE

Expertise in low temperature plasma research and application, in particular the development of UV electrodeless discharge lamps for atomic absorption spectrometry (AAS), quantum standards and precise reference cells. The team also develops optical gas-sensing methods and UV- and plasma-based treatment technologies for environmental, agricultural and biomedical applications.

- **Electrodeless lamps -** high-frequency electrodeless discharge lamps with different fillings for detecting heavy metals such as mercury, lead and arsenic in the environment, air, water and food, and for standards and reference cells.
- **Spectroscopy -** high-resolution spectroscopy, optical emission and absorption measurements and cavity ring-down spectroscopy.
- **Plasma diagnostics -** plasma diagnostics and experimental assessment of light-source stability, treatment performance and sensor response.
- **Optical gas sensing -** development of optical gas-sensing methods.

SELECTED PROJECTS

GMOS - Global Mercury Observation System

FP7 · coordinator in Latvia

Collected and distributed global monitoring data used to obtain mercury concentrations in different ecosystems and the food chain.

Mercury Contamination in Wild Birds in Latvia: Current Patterns and Previous Trends

Latvian Council of Science project · work package leader

Manufactured series of high-frequency electrodeless lamps with mercury fillings and used AAS to measure mercury in eggshells, feathers and food samples as monitoring indicators.

RESEARCH INFRASTRUCTURE & FACILITIES

University of Latvia infrastructure, including atomic mercury analysers with Zeeman background correction for heavy metals, calibrated spectrometers such as Jobin Yvon SPEX 1000M monochromators, AFM/STM integrated with spectroscopy, confocal Raman/fluorescence microscopes, a Fourier transform spectrometer IFS 125HR and systems for producing high-frequency electrodeless lamps.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, technology providers and industrial partners with expertise in plasma technologies, photonics, materials science, optical sensing, biotechnology and environmental applications, for Horizon Europe projects that develop plasma-based technologies and products and advance knowledge of plasma sources and their applications.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - A Soil Deal for Europe · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

University of Latvia - Thermoacoustics research group

UNIVERSITY · RIGA, LATVIA · LU.LV



Artūrs Brēķis

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CORE TEAM

· **K. Kravalis**
· **V. Dzelme**
· **M. Navenickis**

KEYWORDS

Thermoacoustics · Energy harvesting · Renewables · Solar energy · Liquid metals · MHD · Magnetohydrodynamics

DOMAINS OF APPLICATION

Energy · Smart Grids · Manufacturing · Transport & Mobility · Defence · Space Technologies · Environment

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: WP leadership · Task leadership · Scientific leadership · Validation & testing · Training & capacity building

Seeks partners among: Universities · SMEs · Large industry · End users

WHAT WE CONTRIBUTE

Technological expertise in thermoacoustic technologies, including design, manufacturing, prototyping and testing of thermoacoustic energy harvesters and power generation for renewables, waste heat recovery, off-grid electrification, radio-isotopic power systems and space missions. A particular strength is power generation without mechanically moving parts, including magnetohydrodynamic (MHD) generation.

- **Thermoacoustic power -** design, manufacturing, prototyping and testing of thermoacoustic energy harvesters and generators.
- **MHD generation -** magnetohydrodynamic electrical power generation with liquid metals and thermoacoustic drive, without mechanically moving parts.
- **Space power systems -** radio-isotopic power systems and power supply for space missions.
- **Energy harvesting -** applications in renewables, waste heat recovery and microgrids or off-grid electrification in remote areas.

SELECTED PROJECTS

SpaceTRIPS - Space Thermoacoustic RadioIsotopic Power System

Seventh Framework Programme (FP7) · GA 312639 · consortium partner

Responsible for construction, development and testing of a thermoacoustic-to-liquid metal MHD electrical power generation prototype for deep space power supply.

Linear electricity converters with hydraulic or acoustic coupling

European Space Agency contract 4000114451/15/NL/NDe · principal investigator

Evaluation and development of linear electricity converters with hydraulic or acoustic coupling.

RESEARCH INFRASTRUCTURE & FACILITIES

"SpaceTRIPS" thermoacoustic power generator; liquid metal MHD power generation facility; linear electric generator testing bench for vibrational energy harvesting; 5 tesla superconducting DC electromagnet; laboratory suitable for work with aggressive liquid metals; mechanical workshops.

EXPERTISE WE ARE LOOKING FOR

Scientific and industrial partners for collaboration on innovative electrification and energy harvesting technologies, and research organisations with complementary expertise in energy harvesting for participation in international project consortia.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Climate-neutral and smart cities			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - AI in Education

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

· **Kaspars Osis**
· **Imelda Zadeja**
· **Anžela Jurāne-Brēmane**

KEYWORDS

Artificial Intelligence · Educational Technologies · Adaptive Learning · Data Analytics · Socio-Technical Systems Modelling

DOMAINS OF APPLICATION

Education · Digital Technologies · Artificial Intelligence · Cybersecurity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project coordinator

Can take on: WP leadership · Task leadership · Proposal writing · Scientific leadership · Pilot implementation

Seeks partners among: Universities · SMEs · End users · Public authorities · Research infrastructures

WHAT WE CONTRIBUTE

Interdisciplinary expertise in AI, educational technologies, data analytics, socio-technical systems modelling and innovation management, linking technological development with educational, organisational and societal perspectives.

- **AI & adaptive learning -** AI-supported adaptive learning, personalised learning content and prototype educational technology development.
- **Digital assessment -** formative and summative assessment models for digital, blended and technology-enhanced learning, and learning analytics.
- **Systems modelling -** simulation and system dynamics modelling, systems analysis and socio-technical systems modelling for decision support.

SELECTED PROJECTS

AI4EduLab - AI-driven, ethical and labour market-aligned personalised learning content

Latvian State Research Programme in Education · 2025-2027 · implementing institution

Develops AI solutions and personalised learning approaches for higher education, with data analysis, piloting and validation, ensuring academic integrity, copyright compliance and responsible AI use.

Climate Neutrality Decision Models in Action

Latvian State Research Programme for climate neutrality · 2024-2026 · partner

Contributes system dynamics and simulation modelling, cross-domain data integration, data quality analysis and decision-support tools, with machine learning for anomaly detection and missing data.

RESEARCH INFRASTRUCTURE & FACILITIES

Virtual and Augmented Reality Laboratory (over ten years developing and testing VR/AR solutions for education, training, healthcare, tourism and cultural heritage, with multi-user environments, digital twins and wearable sensors); Mobile Technology Laboratory (smart devices, microcomputers, IoT equipment, wearable sensor kits); Multimedia Laboratory (filming studio, green screen, lightboard, editing and sound recording); new robotics and automation, cybersecurity and sustainable construction facilities under development.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, municipalities, companies, start-ups, NGOs and technology providers with expertise in AI and machine learning, adaptive learning, learning analytics, human-computer interaction, sensors, digital twins, system dynamics, cybersecurity, data governance and responsible AI.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	**Cluster 4 "Digital, Industry and Space"**	**European Innovation Council**
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - History and Economics

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES

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CORE TEAM

· **Jānis Šiliņš**
· **Ilmārs Mežs**
· **Kārlis Sils**
· **Baiba Kļaviņa**

KEYWORDS

Socio-economic History · Political History · Historical Demography · Economics · Strategic Communications · History of Agriculture · Colonialism · Russification · Calculating of Damage Caused by Occupation

DOMAINS OF APPLICATION

Defence · Cultural & Creative Industries · History, Economics, Communication, Demography

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Submitted as a project coordinator

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Scientific leadership · Stakeholder engagement · Dissemination & communication · Data management · Policy recommendations · Training & capacity building · AI / Digital tools

Seeks partners among: Universities · Large industry · Public authorities

WHAT WE CONTRIBUTE

Extensive experience in preparing and managing international projects and consortia, including leading a Baltic Research Programme project. An interdisciplinary humanities and social sciences group working closely with technology, for example on digital databases, with strong experience in communicating results.

- **Historical research -** socio-economic and political history, historical demography and the history of agriculture, including colonialism and Russification.
- **Economic estimation -** calculation of historical GDP figures and of damage caused by occupation, using quantitative and qualitative data.
- **Multilingual document analysis -** analysis of documents, including legal acts, in Latvian, Lithuanian, English, German and Russian.
- **Fieldwork & databases -** interviews with eyewitnesses and the creation of digital databases in collaboration with technology specialists.
- **Strategic communications -** communication of research results to wider audiences.

SELECTED PROJECTS

Quantitative data on societal and economic transformations in the Baltic States

Baltic Research Programme · 2021-2024 · project manager Gatis Krūmiņš

Interdisciplinary international project that calculated 100 years of historical GDP figures for the Baltic States and built a database on their demographics, agriculture and economies (baltic100.va.lv).

Values in Action - responsible, secure and educated civil society in Latvia

State Research Programme · 2018-2021 · project manager Gatis Krūmiņš

Analysed societal resilience, sense of belonging, and national and regional identity from contemporary and historical perspectives. Two books were published, and qualitative and quantitative data were collected and analysed.

RESEARCH INFRASTRUCTURE & FACILITIES

Online database baltic100.va.lv, holding data on the demographics, agriculture and economies of the Baltic States.

EXPERTISE WE ARE LOOKING FOR

Partners for long-term cooperation (a strategic partnership) who think in interdisciplinary terms and understand the significance of the historical dimension within the dynamic processes of contemporary society and the future. The team is ready to co-create new knowledge in a partnership of equals.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Mobility Research

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

· **Dita Zemīte**
· **Sarmīte Rozentāle**
· **Agita Līviņa**

KEYWORDS

Transport and mobility poverty · Active mobility · Rural mobility · Urban mobility · Sustainable people mobility · Application of hierarchy analysis method in mobility (Saaty) · Spatial analysis

DOMAINS OF APPLICATION

Transport & Mobility · Smart Cities

PROFILE AT A GLANCE

TRL: 1-3

Horizon Europe experience: Funded as a project partner

Can take on: Living labs · WP leadership · Task leadership · Stakeholder engagement · Policy recommendations

Seeks partners among: Universities · Public authorities · SMEs · NGOs

WHAT WE CONTRIBUTE

Expertise in sustainable transport and tourism in nature-based destinations and low-density rural regions, with insight into Baltic and Central and Eastern European governance contexts. Bridges transport, statistics, tourism, regional economics and policy, and contributes data and indicator development, mobility gap analysis, rural mobility pilots, stakeholder engagement and policy recommendations.

- **Sustainable mobility -** active mobility, transport poverty, public transport and tourism integration, first/last-mile connectivity to protected areas, and visitor travel behaviour.
- **Governance & planning -** mobility governance, policy analysis and sustainable tourism planning in populated national parks.
- **Data & statistics -** official transport and tourism statistics, innovative data sources (web scraping, booking and transaction data), and experience at the national statistical office and in international statistics cooperation (ITF/OECD).
- **Assessment methods -** modal-split and car-alternative assessment by travel time, distance and cost, connectivity assessment, case studies, and multi-criteria decision-making (AHP) with stakeholders.

SELECTED PROJECTS

CirToS - circularity and the Green Deal in the tourism system

Nationally funded · three-year project · lead institution

Assessment of resources and processes for implementing circularity and the Green Deal in the tourism system.

VIMAS - visitor monitoring and management in protected and recreational areas

Horizon Europe MSCA Doctoral Network · full member

Responsible for joint doctoral training schools and financial models of public green spaces.

MAMBA - maximised mobility and accessibility of services in regions with demographic change

Interreg Baltic Sea Region · project participant

Participated in a project on mobility and accessibility of services in regions affected by demographic change.

RESEARCH INFRASTRUCTURE & FACILITIES

Spatial analysis laboratory and a dataset of 380 organisations in the tourism system, including self-assessment analysis of mobility issues.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, local authorities, regional planning bodies, protected area and destination managers, NGOs, and mobility service providers experienced in sustainable and active mobility in rural and nature tourism areas (multi-level governance, first/last-mile solutions, visitor mode choice, AHP, spatial and mobility data analysis).

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - New Media Art and Aesthetics

RESEARCH INSTITUTE · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

· **Yuliia Kovalenko**
· **Alvis Misjuns**

KEYWORDS

Contemporary aesthetics · New media art · Narrative studies · WebXR/a-frame

DOMAINS OF APPLICATION

Cultural & Creative Industries · Digital Technologies · Education

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project coordinator · Submitted as a project partner

Can take on: Consortium coordination · WP leadership · Proposal writing · Task leadership · Scientific leadership · Pilot implementation · Living labs

Seeks partners among: Universities

WHAT WE CONTRIBUTE

Combines modern cultural studies, digital technologies and a research-through-creation approach to support technological development and interdisciplinary capacity building in the creative industries. The team has led and participated in more than 20 applied research projects.

- **Cultural studies -** modern cultural studies combined with a research-through-creation approach for the creative industries.
- **VR/AR development -** design and development of VR and AR systems for cultural heritage, history, education, creative industries and art, drawing on eleven years of laboratory experience.
- **Applied XR research -** edutainment, multiuser environments, simulation visualisation, content management, evaluation scenarios, cloud-based rendering, digital twins, wearable sensors and AI.
- **Teaching -** development and delivery of courses for the ViA IT master's programme 'Virtual Reality and Smart Technologies' and for 'Gamified Reality Applications for Real-world Challenges and Experiences'.

SELECTED PROJECTS

EcoMind - serious art games and the ecology of mind in the 21st century

European Regional Development Fund · No. 1.1.1.9/LZP/1/24/009 · coordinator

Develops serious art games and examines the ecology of mind in the 21st century.

ImGame - digital environment with immersive aesthetics and serious gaming

Creative Europe · No. 101054570 · coordinator

Builds an innovative digital environment based on research, with elements of immersive aesthetics and serious gaming.

CineGame - Ukrainian research-based digital art game for cinema literacy

Horizon Europe MSCA4Ukraine · No. 1233058 · coordinator

Develops a contemporary Ukrainian research-based digital art game for building narrative skills and cinema literacy.

RESEARCH INFRASTRUCTURE & FACILITIES

VR/AR laboratory with eleven years of experience in VR and AR systems for cultural heritage, history, education, creative industries and art. Current XR technologies from Meta, Pico, HTC, Varjo, Microsoft, Magic Leap and others, alongside position and eye tracking, physiological sensors, haptic devices, 360 cameras, 3D scanners, and 20 powerful GPU workstations, notebooks and smartphones.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Regional Economy and Tourism

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VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

· **Aija van der Steina**
· **Agita Līviņa**

KEYWORDS

Regional and place-based development · Sustainable tourism · GIS and spatial analysis · Visitor monitoring and carrying capacity · Socio-economic impact assessment

DOMAINS OF APPLICATION

Transport & Mobility · Public administration · Cultural & Creative Industries · Smart Cities · Biodiversity

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner · Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership

Seeks partners among: Leading research centres and centres of excellence · regional and local authorities · destination management organisations · protected-area and natural/cultural heritage management organisations.

WHAT WE CONTRIBUTE

Interdisciplinary expertise in regional and place-based development, tourism, mobility, GIS and spatial analysis, visitor monitoring and socio-economic impact assessment.

- **GIS & spatial analysis -** geospatial datasets, mapping and data visualisation, integration of visitor counts, mobility and other territorial data, and mobility and accessibility analysis.
- **Visitor monitoring -** monitoring of visitor flows in natural and cultural heritage sites and protected areas, with assessment of visitor intensity, carrying capacity and visitor pressure.

SELECTED PROJECTS

VIMAS - visitor monitoring and management in protected and recreational areas

Horizon Europe MSCA Doctoral Network · 2023-2027 · researcher

Contributes expertise in visitor monitoring, GIS-based spatial analysis, tourism and recreation management and assessment of visitor pressures in natural areas.

LIFE-IP LatViaNature - governance and management of Natura 2000 areas in Latvia

EU LIFE Integrated Project · 2020-2028 · leader of socio-economic impact monitoring

Assesses the socio-economic dimensions and impacts of biodiversity conservation, combining social research, stakeholder perspectives, quantitative and qualitative data and territorial analysis.

RESEARCH INFRASTRUCTURE & FACILITIES

The Spatial Analysis Laboratory offers GIS and geospatial analysis capabilities, spatial databases, mapping and visualisation tools, and longitudinal datasets on tourism and regional development in Latvia.

EXPERTISE WE ARE LOOKING FOR

Partners with expertise in AI and advanced data analytics, mobility and human-movement data, environmental and climate modelling, behavioural research and digital solutions for visitor and destination management.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	**Cluster 5 "Climate, Energy and Mobility"**	European Institute of Innovation and Technology
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	**European Innovation Ecosystems**
EU Missions and New European Bauhaus - Adaptation to climate change · Restore our Ocean and Waters			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Scientific Institute (ViAZI)

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES

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CORE TEAM

· **Aija van der Steina**
· **Ilze Grinfelde**

KEYWORDS

Dissonant heritage management · Soviet military legacy · Dissonant heritage interpretation · Stakeholder engagement · Tourism education · Dissonant heritage value · Dissonant heritage conservation · Dissonant heritage tourism sites · Heritage economic potential

DOMAINS OF APPLICATION

Cultural & Creative Industries · Tourism

PROFILE AT A GLANCE

Horizon Europe experience: Funded as a project partner · Funded as a project coordinator

Can take on: WP leadership · Task leadership · Living labs · Stakeholder engagement · Dissemination & communication · Policy recommendations · Training & capacity building · Proposal writing

Seeks partners among: Universities · Public authorities · NGOs · Heritage sites & museums

WHAT WE CONTRIBUTE

Combined expertise in history, social sciences (including tourism studies) and IT (dynamic system modelling, spatial planning), focused on dissonant heritage, specifically Soviet legacy and Holocaust heritage, in the context of tourism management. Uses both qualitative and quantitative data collection and analysis methods.

- **Economic use & tourism -** visitor motivation and behaviour, heritage management and governance, and assessment of the economic potential of dissonant heritage sites for integration into tourism destination offers.
- **Heritage value -** perception of dissonant heritage value in the context of collective memory and wider society, and conservation that eases societal tensions in decisions about the future of sites.
- **Interpretation -** tourism product development and visitor experience design for dissonant heritage.
- **Education -** integration of dark tourism and dissonant heritage courses into tourism study programmes, with experience in the pedagogy of teaching the topic.

SELECTED PROJECTS

From Soviet military legacy to heritage - stakeholder perspectives on site values in Latvia

Latvian Council of Science, Fundamental and Applied Research Project · 2025-2027

Research project implemented by researchers from Vidzeme University of Applied Sciences on stakeholder perspectives on the socio-economic values of Soviet military legacy sites in Latvia.

Latvia's complex historical legacy - Holocaust tourism sites

Latvian Council of Science, Fundamental and Applied Research Project · 2021-2023

Examined Holocaust tourism sites caught between the culture of remembrance and modern tourism supply and demand. Implemented at the University of Latvia; project manager Aija van der Steina is now a lead researcher at ViAZI.

RESEARCH INFRASTRUCTURE & FACILITIES

Spatial laboratory, software for dynamic modelling and a virtual reality laboratory.

EXPERTISE WE ARE LOOKING FOR

Research partners for comparative studies on dissonant heritage: universities and research institutes, municipalities, heritage sites and community NGOs. Interested in macro-level challenges such as heritage management and governance, conservation policy, demand research and tourism uses of dissonant heritage, and in micro-level assessment and development of specific sites.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Societal Resilience Research Group

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES

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CORE TEAM

· **Agnese Dāvidsone**
· **Jānis Buholcs**
· **Ieva Bērziņa**
· **Anna Broka**

KEYWORDS

Societal resilience · Social cohesion and polarisation · Political trust and civic participation · Behavioural insights · Identity and patriotism · Societal security · Scientific literacy

DOMAINS OF APPLICATION

Public administration · Education · Cultural & Creative Industries · Defence · Societal Resilience

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project coordinator · Funded as a project partner

Can take on: Proposal writing · Task leadership · Scientific leadership · Dissemination & communication · Policy recommendations · Training & capacity building · WP leadership

Seeks partners among: Research infrastructures · Public authorities · NGOs · Universities

WHAT WE CONTRIBUTE

Interdisciplinary social science expertise in societal resilience, political and civic participation, social cohesion and polarisation, political trust, identity, well-being and behavioural change, combining psychology, political science, communication, education and behavioural science. Offers mixed-method research and evidence-based policy recommendations.

- **Research methods -** quantitative, qualitative and mixed-method research, including surveys, nationally representative population studies, experiments, interviews, focus groups, observation and qualitative content analysis.
- **Behavioural research -** studies of decision-making, behaviour change and behavioural interventions.
- **Research design -** study design, development of research instruments, scale development and validation, and advanced quantitative and qualitative analysis.
- **Policy recommendations -** development of research-based guidelines and evidence-based policy recommendations.

SELECTED PROJECTS

E^{3}UDRES^2 - Ent-r-e-novators, cooperating for excellence and impact in research and innovation

Horizon Europe · project partner, work package leader

Contributed to a project improving research capacity and cooperation between European universities, researchers, regional partners and innovation ecosystems.

Values in action - responsible, secure and educated civil society in Latvia

State Research Programme · lead institution

Research on democratic values, civic participation, political trust, social cohesion and civil society, combined with development of models and recommendations for a responsible and resilient society.

Patriots and nationalists - cognition, attitudes and democratic civil society

Fundamental and Applied Research Programme · lead institution

Interdisciplinary research on patriotism, nationalism, national identity and civic behaviour, using survey research, scale development and validation, experiments and qualitative methods.

From polarisation to cohesion - dealing with the cracks in democracy

Fundamental and Applied Research Programme · lead institution

Research on societal and political polarisation, its causes and consequences, and factors supporting social cohesion and democratic resilience, including political trust and participation.

EXPERTISE WE ARE LOOKING FOR

Not specified - open to approaches from any complementary partner.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	**European Innovation Council**
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	**European Institute of Innovation and Technology**
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	**European Innovation Ecosystems**
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Strategic Communication and Media

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES



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CORE TEAM

- **Ieva Zaumane**
- **Liene Ločmele**
- **Vineta Silkāne**
- **Agnese Dāvidsone**

KEYWORDS

Strategic communication · Journalism · Social media · Media literacy · Disinformation · Thematic analysis · Statistical analysis

DOMAINS OF APPLICATION

Public administration · Communication and media studies

PROFILE AT A GLANCE

Horizon Europe experience: Submitted as a project coordinator

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation · Stakeholder engagement

Seeks partners among: Universities · Research infrastructures · NGOs

WHAT WE CONTRIBUTE

Experience in methodology development, pilot implementation, impact assessment, dissemination and exploitation in international research and innovation projects, supported by membership of the E^{3}UDRES^2 European University Alliance. Expertise in strategic communication, media literacy, disinformation and journalism studies, with social sciences and engineering faculties working together on interdisciplinary projects.

- **Strategic communication -** research in strategic communication, social media and journalism studies.
- **Media literacy -** media literacy and disinformation research, including fact-checking practices and media policy analysis.
- **Research methods -** policy analysis, qualitative and quantitative methods, including analysis of semi-structured interviews and survey data.
- **Dissemination -** scientific publications and stakeholder engagement at national level.

SELECTED PROJECTS

Baltic Engagement Center for Combating Information Disorders

EU co-funded · 2022-2025 · researcher and work package leader

Part of the European Digital Media Observatory. Leads work on media policy analysis, media literacy materials and the practices of fact-checking journalists.

Values in action - responsible, secure and educated civil society in Latvia

VPP-IZM-2018/1-0013 · 2018-2021 · lead researcher

Part of the Latvian state research programme on Latvian heritage and future challenges. Led the work package on civic participation and on links between media literacy and civic participation.

Nudging for behavioural change to improve households' waste management

Fundamental and Applied Research Programme · LZP-2020/1-0303 · 2021-2024

Behavioural study of household recycling, exploring nudges that promote sustainable consumption and the circular economy. Led by team member Vineta Silkāne.

RESEARCH INFRASTRUCTURE & FACILITIES

Research projects are coordinated at the Research Institute of Vidzeme University of Applied Sciences by experienced project management and communication staff.

EXPERTISE WE ARE LOOKING FOR

Universities and research institutes interested in media literacy, disinformation, journalism studies and strategic communication, for collaborative fundamental research projects.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - Sustainable and Circular Economy

UNIVERSITY · VALMIERA, LATVIA · VA.LV

VIDZEME UNIVERSITY OF APPLIED SCIENCES

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CORE TEAM

· **Agita Līviņa** - professor
· **Sarmīte Rozentāle** - professor
· **Maira Lescevica**
· **Aigars Andersons**

KEYWORDS

Sustainability · Responsible economy · Green economy and business · Circular economy · Urban circularity · Responsible consumption and behaviour

DOMAINS OF APPLICATION

Public administration · Transport & Mobility · Manufacturing · Smart Cities · Environment · Food Systems

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Funded as a project partner

Can take on: Consortium coordination · Proposal writing · WP leadership · Task leadership · Pilot implementation · Living labs · Stakeholder engagement · Dissemination & communication

Seeks partners among: Universities · Research infrastructures · Public authorities · SMEs · NGOs

WHAT WE CONTRIBUTE

Interdisciplinary research group conducting fundamental, applied and applicable empirical research in sustainability, responsible economics and business, and the circular economy, focused on business models, consumer behaviour and macro-level solutions. Established stakeholder network of SMEs, environmental NGOs and local and regional authorities across the Baltic Sea Region.

- **Circular economy -** circularity assessment and business process modelling, life cycle assessment, resource efficiency, waste prevention and management, reusable food packaging, urban circular neighbourhoods and circularity in tourism.
- **Responsible economy -** responsible business models, responsible consumption and consumer behaviour change, macro-level analysis of responsible decision-making, and sustainable investment assessment.
- **Research methods -** quantitative, qualitative and participatory research, spatial analysis and GIS, virtual reality and eye-tracking studies.
- **Design research -** design research and practice, with methods from prototyping to testing and evaluation.

SELECTED PROJECTS

Change (K)now! - from single-use to circular food delivery systems in BSR cities

ERDF Interreg Baltic Sea Region · 2023-2026 · leading partner

Studies and tests the transition from single-use to reusable packaging in food delivery (public catering, events, take-away) from provider, consumer and municipality perspectives.

VIMAS - visitor monitoring and management in protected and recreational areas

Horizon Europe MSCA Doctoral Network · 2023-2027 · co-leader of work package

Studies smarter monitoring methods for nature areas used for tourism and recreation, visitor management strategies and more inclusive governance models.

Climate Neutrality Decision Models in Action

Latvian Council of Science, National Research Programme · 2024-2026 · leading partner

Evaluates climate change mitigation and adaptation tools; prototyped an online data system for the energy sector and an integrated decision-support system based on system dynamics modelling.

RESEARCH INFRASTRUCTURE & FACILITIES

Spatial laboratory and virtual reality (VR) laboratory.

EXPERTISE WE ARE LOOKING FOR

Universities and research organisations interested in testing prototypes of digital solutions for the circular economy in small economies and the post-Soviet space. In the circular economy field, partners from agriculture, food, data science and information technology.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	Cluster 1 "Health"	Cluster 4 "Digital, Industry and Space"	European Innovation Council
Marie Skłodowska-Curie Actions	Cluster 2 "Culture, Creativity and Inclusive Society"	**Cluster 5 "Climate, Energy and Mobility"**	**European Institute of Innovation and Technology**
Research Infrastructures	Cluster 3 "Civil Security for the Society"	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus - Climate-neutral and smart cities · New European Bauhaus			
Widening participation and strengthening the European Research Area			

Vidzeme University of Applied Sciences - ViA VR-Lab

UNIVERSITY · VALMIERA, LATVIA · VA.LV



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CORE TEAM

· **Laura Ozoliņa**
· **Alvis Misjuns**
· **Zintis Erics**

KEYWORDS

Virtual Reality (VR) · Augmented Reality (AR) · Extended Reality (XR) · Immersive Technologies · Mixed Reality (MR) · Human-Computer Interaction (HCI) · Interactive Simulation

DOMAINS OF APPLICATION

Healthcare · Education · Cultural & Creative Industries · Digital Technologies · Smart Cities · Artificial Intelligence · Defence

PROFILE AT A GLANCE

TRL: 4-6

Horizon Europe experience: Submitted as a project partner

Can take on: Proposal writing · WP leadership · Task leadership · Scientific leadership · Pilot implementation

Seeks partners among: SMEs · Universities · Large industry · Public authorities · Hospitals

WHAT WE CONTRIBUTE

The Virtual Reality Technologies Laboratory (VR-Lab) of Vidzeme University of Applied Sciences offers expertise in virtual, augmented and extended reality (VR/AR/XR), immersive technologies, interactive simulation and human-centred digital solutions. It acts as a technology, research, prototyping and validation partner, turning research concepts into functional XR prototypes and evaluated demonstrators.

- **XR development -** VR/AR/XR solution design, multi-user VR, digital twins, 360° immersive environments, spatial interaction and AI-enhanced XR applications.
- **Simulation & training -** immersive simulation and training systems, including safety training and assessment platforms and cloud-based rendering for multi-user environments.
- **Sensing & integration -** eye, hand and body tracking, wearable and motion sensors, smart training equipment, and integration of hardware and software.
- **User-centred methods -** iterative design, rapid prototyping, usability and user-experience evaluation, pilot implementation, experimental testing and technology validation.

SELECTED PROJECTS

VireTS - tactical combat casualty care and battlefield advanced trauma life support

EDIDP-SME-2020-045-VireTS · European Defence Industrial Development Programme · 2022-2023 · WP leader

Provided expertise in cloud-based rendering for multi-user virtual environments, so that computationally demanding immersive scenes could be delivered remotely to several VR users for collaborative medical training.

Interactive Gardens - immersive VR for horticulture, education and well-being

Interreg · work package leader

Researches, designs and develops an interactive VR garden platform combining plant simulation, GIS-based terrain generation and user interaction, with educational, simulation and therapeutic modes.

RESEARCH INFRASTRUCTURE & FACILITIES

XR hardware for cross-platform development and comparative testing, including Meta Quest, HTC VIVE, Pico and Varjo headsets; eye, hand, body, object and facial tracking and wearable sensors; professional 360° and stereoscopic cameras; smart trainers and tracked physical controllers; Unity and Unreal Engine environments with components for multi-user VR, training and assessment scenarios, data visualisation and digital twins; and existing demonstrators in safety training, healthcare, rehabilitation, tourism and education.

EXPERTISE WE ARE LOOKING FOR

Universities, research institutes, SMEs, technology providers, public authorities, healthcare organisations, industry, NGOs and end users interested in developing and validating XR-based solutions.

INTERESTED IN:

PILLAR I	PILLAR II		PILLAR III
European Research Council	**Cluster 1 "Health"**	**Cluster 4 "Digital, Industry and Space"**	European Innovation Council
Marie Skłodowska-Curie Actions	**Cluster 2 "Culture, Creativity and Inclusive Society"**	Cluster 5 "Climate, Energy and Mobility"	European Institute of Innovation and Technology
Research Infrastructures	**Cluster 3 "Civil Security for the Society"**	**Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"**	European Innovation Ecosystems
EU Missions and New European Bauhaus			
Widening participation and strengthening the European Research Area			

Thematic Index

Profiles grouped by the Horizon Europe programme parts each team is interested in. Teams appear under every programme part they selected.

Pillar I

European Research Council

- AiFlo Technologies
- Baltic Photonics
- Baltic Satellite Service
- Baltic Studies Centre
- Daugavpils University - Society "Park of Intellect"
- Eirobaltik
- Empyrio
- InnoMatrix
- Institute of Electronics and Computer Science (EDI)
- Institute of Electronics and Computer Science (EDI) - Wind Energy Research
- Institute of Food Safety, Animal Health and Environment (BIOR)
- Jāzeps Vītols Latvian Academy of Music
- Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
- Latvia University of Life Sciences and Technologies - digiMEI
- Latvia University of Life Sciences and Technologies - Faculty of Economics
- Latvia University of Life Sciences and Technologies - Food Science and Technology
- Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
- Latvian Institute of Aquatic Ecology - Ecotoxicology
- Latvian State Institute of Wood Chemistry
- Linearis
- National Institute of Research and Innovation - Biotic Interaction Research Group
- National Institute of Research and Innovation - Cancer Biomarker group
- National Institute of Research and Innovation - Cancer Gene Therapy Group
- National Institute of Research and Innovation - Molecular and Functional Genomics Group
- National Institute of Research and Innovation - Pharmaceutical Pharmacology
- National Institute of Research and Innovation - Technology Transfer Office
- NewDoor
- Rīga Stradiņš University - Computational Systems Biology Group
- Rīga Stradiņš University - Feminist Investigations research group
- Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
- Rīga Stradiņš University - Institute of Oncology and Molecular Genetics
- Rīga Stradiņš University - Integrative Bioinformatics Group
- Rīga Stradiņš University - Motor Control Research
- Rīga Stradiņš University - Populist Encounters Research Group
- Rīga Stradiņš University - Precision Oncology
- Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology
- Rīga Stradiņš University - Social Sciences Research Centre
- Rīga Stradiņš University - Sports Healthcare Research Centre
- Rīga Stradiņš University - Wearable Sensors and Smart Textiles
- Riga Technical University - Antibacterial Biomaterials and Hydrogels
- Riga Technical University - Bio-Textiles and Nanomaterials
- Riga Technical University - Building Energy and HVAC Research Team
- Riga Technical University - High Performance Materials and Structures
- Riga Technical University - Innovation and Technology Transfer
- Riga Technical University - Institute of Biomaterials and Bioengineering
- Riga Technical University - Mathematical Modelling
- Riga Technical University - Surface and Biomaterial Spectroscopy
- Riga Technical University - Sustainable Construction Materials
- Riga Technical University - Wood and Timber Engineering
- Sprayify
- Stratex
- University of Latvia - Bioethics and Research Ethics Group
- University of Latvia - Center for Sustainable Chemistry
- University of Latvia - Centre for Diaspora and Migration Research (CMDR)
- University of Latvia - Centre for European and Transition Studies

University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Faculty of Science and Technology (Human Geography)
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Latvian Language and Linguistics
University of Latvia - Living Materials group
University of Latvia - Microbial Strain Collection of Latvia (MSCL)
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Societal Resilience Research Group
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - History and Economics
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Strategic Communication and Media

Marie Skłodowska-Curie Actions

Blue Siren Solutions
Digital Accelerator of Latvia
Eirobaltik
EKA University of Applied Sciences
Empyrio
InnoMatrix
Institute for Environmental Solutions
Institute of Agricultural Resources and Economics (AREI)
Institute of Economics of the Latvian Academy of Sciences
Institute of Electronics and Computer Science (EDI)
Institute of Food Safety, Animal Health and Environment (BIOR)
Jāzeps Vītols Latvian Academy of Music
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Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Latvian State Institute of Wood Chemistry
Logics Research Centre SIA
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
Rīga Stradiņš University - Computational Systems Biology Group
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology
Rīga Stradiņš University - Social Sciences Research Centre
Rīga Stradiņš University - Sports Healthcare Research Centre
Rīga Stradiņš University - Wearable Sensors and Smart Textiles
Riga Technical University - Antibacterial Biomaterials and Hydrogels

Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Industrial and Power Electronics
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Surface and Biomaterial Spectroscopy
Riga Technical University - Sustainable Construction Materials
Riga Technical University - Wood and Timber Engineering
Sprayify
Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Center for Sustainable Chemistry
University of Latvia - Centre for Diaspora and Migration Research (CMDR)
University of Latvia - Centre for European and Transition Studies
University of Latvia - Department of Environmental Science
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Faculty of Science and Technology (Human Geography)
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Latvian Language and Linguistics
University of Latvia - Living Materials group
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - Mobility Research
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Strategic Communication and Media
Vidzeme University of Applied Sciences - Sustainable and Circular Economy
Vidzeme University of Applied Sciences - ViA VR-Lab

Research Infrastructures

AiFlo Technologies
AS Sadales tīkls
Baltic Photonics
Empyrio
InnoMatrix
Institute for Environmental Solutions
Institute of Agricultural Resources and Economics (AREI)
Institute of Electronics and Computer Science (EDI)
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Institute of Food Safety, Animal Health and Environment (BIOR)
Jāzeps Vītols Latvian Academy of Music
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - Animal Sciences Institute
Latvia University of Life Sciences and Technologies - Bioprocess Engineering
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Food Science and Technology
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian Institute of Aquatic Ecology - Ecotoxicology
Latvian Institute of Aquatic Ecology - Marine Ecosystem Research
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Logics Research Centre SIA
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group

National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - Social Sciences Research Centre
Rīga Stradiņš University - Sports Healthcare Research Centre
Riga Technical University - Antibacterial Biomaterials and Hydrogels
Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Building Energy and HVAC Research Team
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Riga Technical University - Sustainable Construction Materials
Riga Technical University - Wood and Timber Engineering
Sprayify
Stratex
Transport and Telecommunication Institute (TSI)
University of Latvia - Centre for Diaspora and Migration Research (CMDR)
University of Latvia - Centre for European and Transition Studies
University of Latvia - Department of Environmental Science
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Microbial Strain Collection of Latvia (MSCL)
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Societal Resilience Research Group
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - History and Economics
Vidzeme University of Applied Sciences - Regional Economy and Tourism

Pillar II

Cluster 1 "Health"

InnoMatrix
Institute of Electronics and Computer Science (EDI)
Latvia University of Life Sciences and Technologies - Bioprocess Engineering
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Linearis
LMT
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Riga East University Hospital
Rīga Stradiņš University - Computational Systems Biology Group
Rīga Stradiņš University - Extended Reality in Rehabilitation
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Institute of Oncology and Molecular Genetics
Rīga Stradiņš University - Integrative Bioinformatics Group

Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology
Rīga Stradiņš University - Social Sciences Research Centre
Rīga Stradiņš University - Sports Healthcare Research Centre
Rīga Stradiņš University - Wearable Sensors and Smart Textiles
Riga Technical University - Antibacterial Biomaterials and Hydrogels
Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Sprayify
Tet
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Center for Sustainable Chemistry
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Living Materials group
University of Latvia - Spectroscopy and Light Source Technology Laboratory
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - ViA VR-Lab

Cluster 2 "Culture, Creativity and Inclusive Society"

Baltic Studies Centre
Daugavpils University - Society "Park of Intellect"
Digital Accelerator of Latvia
dots. (WeAreDots)
EKA University of Applied Sciences
InnoMatrix
Institute of Economics of the Latvian Academy of Sciences
Jāzeps Vītols Latvian Academy of Music
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Linearis
National Institute of Research and Innovation - Cancer Gene Therapy Group
NewDoor
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Social Sciences Research Centre
Sprayify
Stratex
University of Latvia - Centre for Diaspora and Migration Research (CMDR)
University of Latvia - Centre for European and Transition Studies
University of Latvia - Faculty of Science and Technology (Human Geography)
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Latvian Language and Linguistics
University of Latvia - Social Work and Social Policy
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - History and Economics
Vidzeme University of Applied Sciences - New Media Art and Aesthetics
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Scientific Institute (ViAZI)
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Strategic Communication and Media
Vidzeme University of Applied Sciences - ViA VR-Lab

Cluster 3 "Civil Security for the Society"

AS Sadales tīkls

Baltic Photonics
Baltic Satellite Service
Daugavpils University - Society “Park of Intellect”
Digital Accelerator of Latvia
dots. (WeAreDots)
Institute of Electronics and Computer Science (EDI)
Latvia University of Life Sciences and Technologies - digiMEI
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian State Radio and Television Centre (LVRTC)
Linearis
LMT
National Institute of Research and Innovation - Cancer Gene Therapy Group
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Social Sciences Research Centre
Riga Technical University - Building Energy and HVAC Research Team
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Sprayify
Stratex
Tet
University of Latvia - Centre for European and Transition Studies
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Social Work and Social Policy
University of Latvia - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Scientific Institute (ViAZI)
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Strategic Communication and Media
Vidzeme University of Applied Sciences - ViA VR-Lab

Cluster 4 "Digital, Industry and Space"

AS Sadales tīkls
Baltic Photonics
Baltic Satellite Service
Daugavpils University - Society “Park of Intellect”
Digital Accelerator of Latvia
dots. (WeAreDots)
EKA University of Applied Sciences
GroGlass
InnoMatrix
Institute for Environmental Solutions
Institute of Economics of the Latvian Academy of Sciences
Institute of Electronics and Computer Science (EDI)
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian State Radio and Television Centre (LVRTC)
Linearis
LMT
Logics Research Centre SIA
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Gene Therapy Group
Rīga Stradiņš University - Extended Reality in Rehabilitation
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Integrative Bioinformatics Group
Riga Technical University - Antibacterial Biomaterials and Hydrogels

Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Industrial and Power Electronics
Riga Technical University - Innovation and Technology Transfer
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Sprayify
Stratex
Tet
Transport and Telecommunication Institute (TSI)
University of Latvia - Center for Sustainable Chemistry
University of Latvia - Centre for European and Transition Studies
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Spectroscopy and Light Source Technology Laboratory
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - ViA VR-Lab

Cluster 5 "Climate, Energy and Mobility"

AS Sadales tīkls
Baltic Satellite Service
Baltic Studies Centre
Digital Accelerator of Latvia
dots. (WeAreDots)
Empyrio
InnoMatrix
Institute for Environmental Solutions
Institute of Electronics and Computer Science (EDI)
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Latvia University of Life Sciences and Technologies - Animal Sciences Institute
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Linearis
LMT
Naco Technologies
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Gene Therapy Group
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Social Sciences Research Centre
Riga Technical University - Building Energy and HVAC Research Team
Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Industrial and Power Electronics
Riga Technical University - Mathematical Modelling
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Riga Technical University - Sustainable Construction Materials
Sprayify
Stratex
Transport and Telecommunication Institute (TSI)

University of Latvia - Centre for European and Transition Studies
University of Latvia - Department of Environmental Science
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Spectroscopy and Light Source Technology Laboratory
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - Mobility Research
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Sustainable and Circular Economy

Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"

AS Sadales tīkls
Baltic Satellite Service
Baltic Studies Centre
Blue Siren Solutions
dots. (WeAreDots)
Eirobaltik
Empyrio
European Forum for Agricultural and Rural Advisory Services (EUFRAS)
InnoMatrix
Institute for Environmental Solutions
Institute of Agricultural Resources and Economics (AREI)
Institute of Economics of the Latvian Academy of Sciences
Institute of Electronics and Computer Science (EDI)
Institute of Food Safety, Animal Health and Environment (BIOR)
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - Animal Sciences Institute
Latvia University of Life Sciences and Technologies - Bioprocess Engineering
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvia University of Life Sciences and Technologies - Food Science and Technology
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian Institute of Aquatic Ecology - Ecotoxicology
Latvian Institute of Aquatic Ecology - Marine Ecosystem Research
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Latvian Rural Advisory and Training Centre (LLKC)
Latvian State Institute of Wood Chemistry
Linearis
LMT
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Technology Transfer Office
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Social Sciences Research Centre
Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - Mathematical Modelling
Riga Technical University - Personal Protective Equipment Laboratory (PPELab)
Riga Technical University - Surface and Biomaterial Spectroscopy
Sprayify
University of Latvia - Center for Sustainable Chemistry
University of Latvia - Department of Environmental Science

University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Living Materials group
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Spectroscopy and Light Source Technology Laboratory
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Sustainable and Circular Economy
Vidzeme University of Applied Sciences - ViA VR-Lab

Pillar III

European Innovation Council

AiFlo Technologies
AS Sadales tīkls
Baltic Photonics
Baltic Satellite Service
Daugavpils University - Society "Park of Intellect"
Digital Accelerator of Latvia
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Empyrio
GroGlass
InnoMatrix
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Institute of Food Safety, Animal Health and Environment (BIOR)
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - Bioprocess Engineering
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Food Science and Technology
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Linearis
LMT
Logics Research Centre SIA
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Rīga Stradiņš University - Computational Systems Biology Group
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - PrustyLab, Institute of Microbiology and Virology
Riga Technical University - Antibacterial Biomaterials and Hydrogels
Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Innovation and Technology Transfer
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Sustainable Construction Materials
Sprayify
Stratex
Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Center for Sustainable Chemistry
University of Latvia - Centre for European and Transition Studies
University of Latvia - Faculty of Medicine and Life Sciences

University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Living Materials group
University of Latvia - Microbial Strain Collection of Latvia (MSCL)
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Societal Resilience Research Group
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - History and Economics
Vidzeme University of Applied Sciences - Societal Resilience Research Group

European Institute of Innovation and Technology

AiFlo Technologies
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Empyrio
GroGlass
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Institute of Agricultural Resources and Economics (AREI)
Institute of Electronics and Computer Science (EDI)
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Institute of Food Safety, Animal Health and Environment (BIOR)
Jāzeps Vītols Latvian Academy of Music
Latvia University of Life Sciences and Technologies - Bioprocess Engineering
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Linearis
LMT
Naco Technologies
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Motor Control Research
Riga Technical University - Antibacterial Biomaterials and Hydrogels
Riga Technical University - Industrial and Power Electronics
Riga Technical University - Innovation and Technology Transfer
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Sustainable Construction Materials
Sprayify
Stratex
Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group

University of Latvia - Centre for European and Transition Studies
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Societal Resilience Research Group
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - History and Economics
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Sustainable and Circular Economy

European Innovation Ecosystems

AiFlo Technologies
AS Sadales tīkls
Baltic Photonics
Baltic Satellite Service
Blue Siren Solutions
Daugavpils University - Society "Park of Intellect"
Digital Accelerator of Latvia
EKA University of Applied Sciences
Empyrio
European Forum for Agricultural and Rural Advisory Services (EUFRAS)
InnoMatrix
Institute for Environmental Solutions
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Institute of Food Safety, Animal Health and Environment (BIOR)
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - digiMEI
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian Institute of Aquatic Ecology - Ecotoxicology
Latvian Rural Advisory and Training Centre (LLKC)
Linearis
LMT
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Grant Office
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Rīga Stradiņš University - Feminist Investigations research group
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Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Social Sciences Research Centre
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Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Innovation and Technology Transfer
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Sustainable Construction Materials
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Stratex
Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics

University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Societal Resilience Research Group

Missions and cross-cutting programmes

EU Missions and New European Bauhaus

AS Sadales tīkls
Baltic Satellite Service
Baltic Studies Centre
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Digital Accelerator of Latvia
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Eirobaltik
Empyrio
European Forum for Agricultural and Rural Advisory Services (EUFRAS)
InnoMatrix
Institute for Environmental Solutions
Institute of Agricultural Resources and Economics (AREI)
Institute of Electronics and Computer Science (EDI)
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvia University of Life Sciences and Technologies - Food Science and Technology
Latvia University of Life Sciences and Technologies - Precision Agriculture and Beekeeping
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Environment, Geology and Meteorology Centre - Meteorology and Climate Services
Latvian Institute of Aquatic Ecology - Ecotoxicology
Latvian Institute of Aquatic Ecology - Marine Ecosystem Research
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Latvian Rural Advisory and Training Centre (LLKC)
Linearis
LMT
Naco Technologies
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Rīga Stradiņš University - Computational Systems Biology Group
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Institute of Oncology and Molecular Genetics
Rīga Stradiņš University - Integrative Bioinformatics Group
Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Motor Control Research
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - Social Sciences Research Centre
Rīga Stradiņš University - Wearable Sensors and Smart Textiles
Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Sustainable Construction Materials
Riga Technical University - Wood and Timber Engineering
Sprayify

Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Centre for European and Transition Studies
University of Latvia - Department of Environmental Science
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Faculty of Science and Technology (Human Geography)
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Numerical Modelling
University of Latvia - Institute of Numerical Modelling (INM)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Living Materials group
University of Latvia - Spectroscopy and Light Source Technology Laboratory
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - Mobility Research
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Sustainable and Circular Economy

Widening participation and strengthening the European Research Area

AiFlo Technologies
AS Sadales tīkls
Baltic Satellite Service
Baltic Studies Centre
Blue Siren Solutions
Daugavpils University - Society "Park of Intellect"
Eirobaltik
Empyrio
European Forum for Agricultural and Rural Advisory Services (EUFRAS)
InnoMatrix
Institute for Environmental Solutions
Institute of Agricultural Resources and Economics (AREI)
Institute of Economics of the Latvian Academy of Sciences
Institute of Electronics and Computer Science (EDI)
Institute of Electronics and Computer Science (EDI) - Wind Energy Research
Latvia University of Life Sciences and Technologies - Agrihorts
Latvia University of Life Sciences and Technologies - digiMEI
Latvia University of Life Sciences and Technologies - Faculty of Economics and Social Development
Latvia University of Life Sciences and Technologies - Faculty of Economics
Latvian Environment, Geology and Meteorology Centre - Data Systems and AI
Latvian Environment, Geology and Meteorology Centre - Digital Environmental Services
Latvian Institute of Aquatic Ecology - Ecotoxicology
Latvian Institute of Aquatic Ecology - Microplastics and Pollution Monitoring
Latvian State Institute of Wood Chemistry
Linearis
LMT
National Institute of Research and Innovation - Biotic Interaction Research Group
National Institute of Research and Innovation - Cancer Biomarker group
National Institute of Research and Innovation - Cancer Gene Therapy Group
National Institute of Research and Innovation - Grant Office
National Institute of Research and Innovation - Molecular and Functional Genomics Group
National Institute of Research and Innovation - Pharmaceutical Pharmacology
National Institute of Research and Innovation - Technology Transfer Office
NewDoor
Rīga Stradiņš University - Computational Systems Biology Group
Rīga Stradiņš University - Feminist Investigations research group
Rīga Stradiņš University - Healthy and Sustainable Food Systems Research Group
Rīga Stradiņš University - Institute of Oncology and Molecular Genetics
Rīga Stradiņš University - Integrative Bioinformatics Group

Rīga Stradiņš University - Leading Research Group, Faculty of Pharmacy
Rīga Stradiņš University - Populist Encounters Research Group
Rīga Stradiņš University - Precision Oncology
Rīga Stradiņš University - Social Sciences Research Centre
Riga Technical University - Antibacterial Biomaterials and Hydrogels
Riga Technical University - Bio-Textiles and Nanomaterials
Riga Technical University - Faculty of Civil and Mechanical Engineering
Riga Technical University - High Performance Materials and Structures
Riga Technical University - Industrial and Power Electronics
Riga Technical University - Institute of Biomaterials and Bioengineering
Riga Technical University - Mathematical Modelling
Riga Technical University - Sustainable Construction Materials
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Stratex
Tet
Transport and Telecommunication Institute (TSI)
University of Latvia - Bioethics and Research Ethics Group
University of Latvia - Centre for European and Transition Studies
University of Latvia - Department of Environmental Science
University of Latvia - Faculty of Medicine and Life Sciences
University of Latvia - Faculty of Science and Technology (Human Geography)
University of Latvia - Institute of Atomic Physics and Spectroscopy
University of Latvia - Institute of Clinical and Preventive Medicine
University of Latvia - Institute of Microbiology and Biotechnology
University of Latvia - Institute of Solid State Physics (Theory Laboratory)
University of Latvia - Institute of Solid State Physics - Energy Materials
University of Latvia - Institute of Solid State Physics - Ferroelectrics
University of Latvia - Institute of Solid State Physics - Thin Films and Photonics
University of Latvia - Institute of Solid State Physics, Thin Films Laboratory
University of Latvia - Molecular Life Sciences, Microbiology and Biotechnology
University of Latvia - Social Work and Social Policy
University of Latvia - Societal Resilience Research Group
University of Latvia - Spectroscopy and Light Source Technology Laboratory
University of Latvia - Thermoacoustics research group
Vidzeme University of Applied Sciences - AI in Education
Vidzeme University of Applied Sciences - Digital Health and XR
Vidzeme University of Applied Sciences - Mobility Research
Vidzeme University of Applied Sciences - Regional Economy and Tourism
Vidzeme University of Applied Sciences - Societal Resilience Research Group
Vidzeme University of Applied Sciences - Strategic Communication and Media
Vidzeme University of Applied Sciences - Sustainable and Circular Economy
Vidzeme University of Applied Sciences - ViA VR-Lab