

Turku University of Applied Sciences

Get to know us –
a reliable partner
in Horizon
Europe proposals

TURKU AMK 



Value to the region

Are you seeking reliable, agile and innovative Horizon Europe partners? You need to implement, test and validate your innovative solutions? Partner with us to drive your innovation forward.

We work closely with business and industry

To reach our goals we collaborate closely with business, industry and research partners. In this leaflet you will get to know our activities, meet our researchers, and research facilities. You will also find suggestions for what we can do in Horizon proposals for various clusters and missions.

At Turku UAS we use applied research methods and multidisciplinary approach to build sustainable and better future.

Sustainability at our core

Turku UAS is a powerful partner for testing solutions, implementing pilots, developing digital twins, monitoring and more. We are experts in Northern climate conditions in energy solutions, biodiversity, circular economy and social inclusion.

The unique location, near the Archipelago of the Baltic Sea inspires us to develop solutions that are economically sound, competitive in digital market, sustainable and human centred.

Rector and President

Vesa Taatila



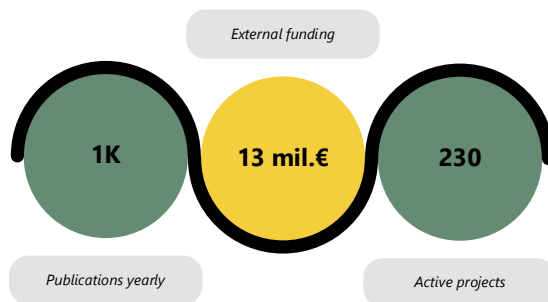
Empowering green economy and good life around the Baltic Sea

Turku University of Applied Sciences

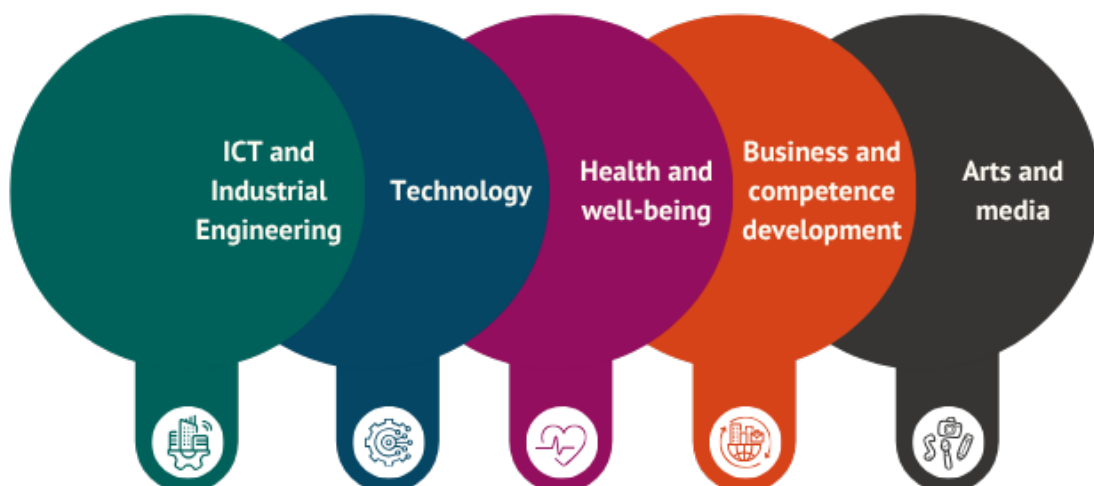
located in Southwest Finland, is a globally engaged and forward-thinking institution driving regional development through international funding.

In 2024, we published over 1,000 research outputs, secured €13 million in external funding, and contributed to 230 development projects.

With strong support from our **Project Management Office (PMO)**, we are ready to apply for and deliver projects of any scale.



We work in five Schools





**We conduct
multidisciplinary
applied research**

**You will find us in European Partnerships, Alliances
and Networks**

Waterborne
Horizon Partnership

EFFRA
Horizon Partnership

Batt4EU
Horizon Partnership

Hydrogen
Horizon Partnership

Water Europe
European Alliance

Textile ETP
Horizon Partnership

UAS4EUROPE
European Alliance

EASSH
European Alliance

UnLion
European Alliance

Turku UAS hosts over 30 research groups focused on applied research that delivers real-world impact—better products, services, and work practices. By consistently participating in alliances and EU partnerships, Turku UAS seeks to further expand its reach and influence, providing valuable expertise to European networks while contributing to innovation and sustainable development across the region and beyond.

Together with our partners our goal is

to develop good life and sustainable growth

Find out more
www.turkuamk.fi

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Mental Health promotion

New Ways of Promoting Performance

Social Inclusion and Active Citizenship

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Functioning and Activity from Infancy to Adolescence

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Renewing Competence

Resilient Supply Chain Management

Sales Management Lab

Arts Academy

Art Education and Pedagogy

Arts, Health and Well-being

Film and Media

Contemporary Art

School of Engineering



Research Groups:

Computational Engineering

New Energy

Circular and Business Models

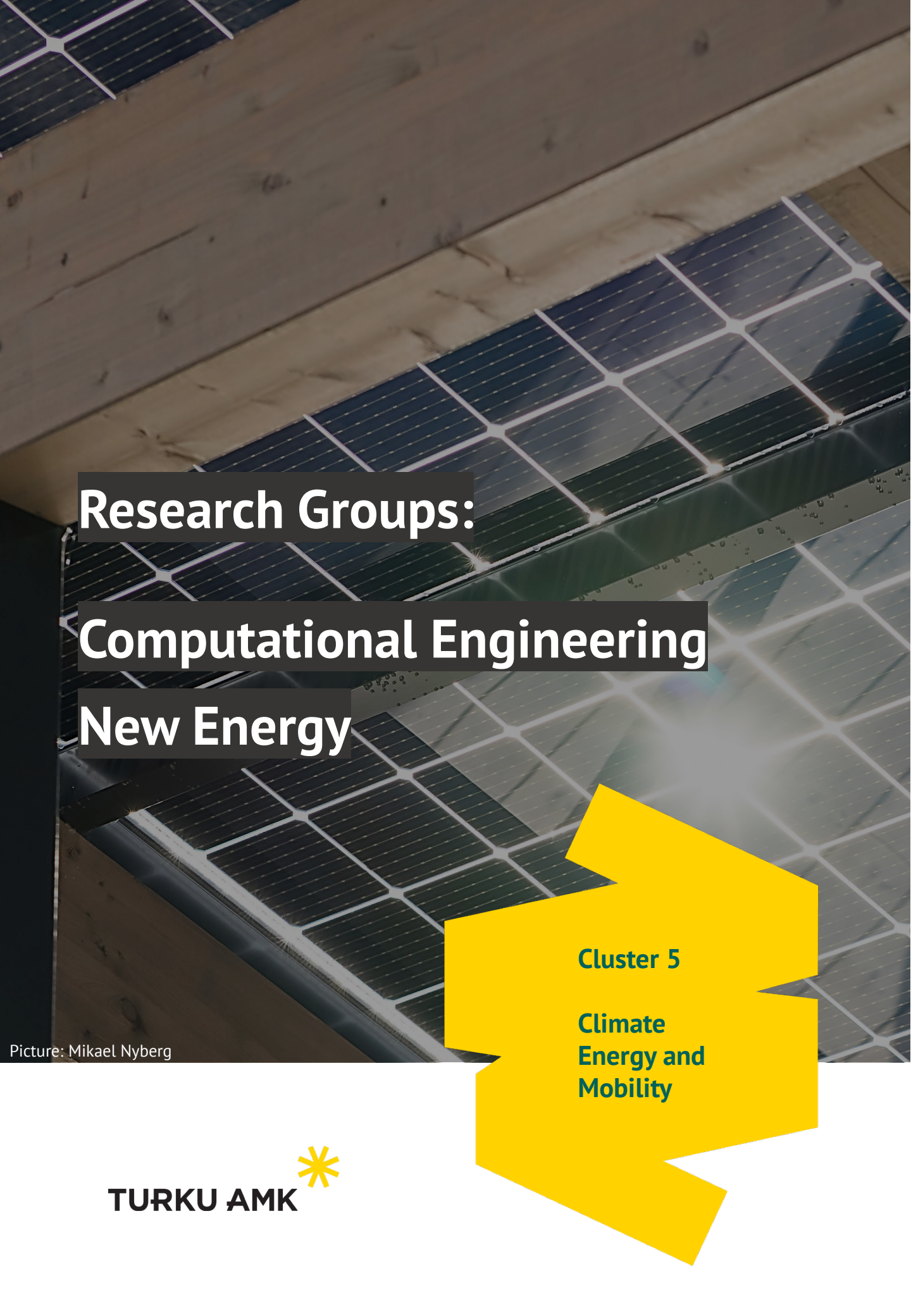
New Materials and Processes

Engine and Power Train

Manufacturing Engineering

Water and Environmental Protection

Marine Environment

A close-up photograph of solar panels installed on a wooden roof. The panels are dark blue with a grid of silver lines. The wooden planks of the roof are visible between the panels.

Research Groups:

Computational Engineering

New Energy

Cluster 5

**Climate
Energy and
Mobility**



Computational Engineering and Analysis

We provide solutions to technical problems using mathematical modelling and computational methods.

This work combines scientific research, the use of leading simulation software, and modern supercomputing environments to solve real-world problems. Our projects typically focus on improving processes, devices, or products, for example, from an energy efficiency perspective.

We work for green energy transition

New Energy

Through research and development, we respond to the challenges of the energy transition in Nordic conditions.

Through our research, we tackle system-level questions related to energy use in buildings, districts, and cities. We investigate a wide spectrum of energy production topics—from household appliances and agricultural systems to large-scale maritime operations. Our work emphasizes the distribution of electrical energy, as well as the transfer and storage of heat. In addition, we explore energy storage solutions across electrochemical, thermal, and chemical domains. We view stakeholder collaboration and citizen engagement as essential components of the energy transition and actively integrate them into our initiatives.



HORIZON-CL5-2026-03-D3-21 Hybrid AI-Control Framework for a next-generation grid-scale energy storage and system integration

COMECA offers expertise in control theory, optimization, and digital twin expertise to design hybrid AI-model-based control algorithms for energy storage and renewables integration. NERC offers expertise in battery energy storage, (HIL) simulations including system and battery grid interactions, DC microgrids, energy management systems, battery system testing and demonstrations and piloting.

HORIZON-CL5-2027-08-D3-18: PV based electrification of the economy

NERC offers expertise in PV systems for industrial electrification, energy management systems, DC micro grids and wide network of industrial partners for pilot installations. PV and energy systems laboratories for system simulations.

HORIZON-CL5-2026-11-D3-15: Improved system design for innovative PV applications

High relevance to NERC ongoing research activities in PV systems. Interest in development and piloting of system component design with focus on substructures, life cycle assessment, and business strategy. NERC engages industrial partners network in the field for higher impact.

HORIZON-CL5-2027-01-D1-07: Advancing understanding, modelling and prediction of extreme events in a changing climate

COMECA builds high-fidelity computational models (CFD-based or physics-based) for understanding cascading extreme events and develop machine-learning and/or inverse methods based predictive tools. COMECA has wide academic and industrial partner networks and access to supercomputers for demanding model execution.

Get in touch



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Our Lab Solar Module Laboratory

The only accredited solar panel testing laboratory in Finland

Turku UAS' solar module laboratory offers unique, FINAS-accredited solar panel testing in Finland (PV module power and integrity testing). We conduct reliable testing for solar panel performance and durability according to international standards. The laboratory tests the electrical performance of solar panels and their response to environmental conditions to ensure quality and longevity. The testing facilities of our laboratory help companies and research partners verify performance and durability to accelerate the development of next-generation solar technologies.

PV module power and integrity testing

Photovoltaic (PV) module power and integrity tests are important parts of quality control for PV modules. The inspection system provides IV-curve measurement at standard test conditions (STC), electroluminescence (EL) inspection, infrared imaging HiPot-Testing, and UV-fluorescence image acquisition. It is a powerful tool to evaluate the power performance and detect microcracks and other defects that may not be visible through visual inspection. Measurements could be performed both in the lab and on the site of a PV plant using in-house and mobile devices. PV module power and integrity testing is FINAS accredited (Finnish Accreditation Service, the national accreditation body and a unit of the Finnish Safety and Chemicals Agency, Tukes).

PV module mechanical load testing

MLT is a critical aspect of quality assurance for PV modules. It validates the durability of solar panels by ensuring they can endure external mechanical forces, e.g., wind, snow, and human handling, without compromising their structural integrity, safety, or energy efficiency. Manufacturers usually specify a mechanical load rating for their modules, outlining the type (static or dynamic) and magnitude of external forces the panels can tolerate. If this is unavailable or if there's a need to verify whether a panel or batch complies with industry standards, our MLT-device can accurately perform these tests. PV module power and integrity testing could provide insights of the module degradation or potential damage and changes from mechanical stress.

PV module light soaking

It is vital to assess and enhance the long-term performance and reliability of PV modules. Solar panels undergo gradual performance degradation over their operational lifespan due to light exposure and material aging. The light soaking test applies accelerated sunlight exposure to replicate these processes and evaluate long-term performance stability. We can provide reliable, data-driven insights into the power output and durability of PV modules. This allows manufacturers, developers, and operators to make informed decisions regarding module quality and long-term energy production.

PV plant field testing

Field testing of PV plants is essential for verifying the real-world performance and reliability of PV systems. We offer comprehensive on-site testing services to assess the functionality, efficiency, and safety of PV plants under actual operating conditions.



Our Lab Battery Testing Laboratory

Versatile and reliable battery testing

Our battery laboratory provides testing services for battery cells and packs. By combining high-quality infrastructure with applied research expertise, we help industry and research partners accelerate the development of safe, efficient, and sustainable battery solutions.

Cell characterization measurements

We provide detailed performance mapping of individual battery cells under different operating conditions with regenerative cell cyclers 24 channels, 5V/100A, and thermal chambers from 10l to 6m³. Characterization includes charge/discharge cycling, capacity and efficiency measurements, and voltage/current behavior analysis. This data is essential for selecting the right cells, designing reliable packs, and benchmarking new chemistries.

Aging, impedance, insulation resistance, calorimetry, and thermal behavior tests

Understanding how batteries degrade is key to ensuring safety and long service life. We perform accelerated aging tests and impedance spectroscopy to study internal resistance growth and capacity fade. Insulation resistance testing ensures electrical safety, while calorimetry and thermal behavior measurements give insights into heat generation, energy losses, and risks of thermal runaway.

Battery management system (BMS) testing

A BMS is the brain of any battery system. We test its accuracy, reliability, and fault-handling under different scenarios. This includes state-of-charge and state-of-health estimation, protection mechanisms, and communication interfaces. Reliable BMS validation helps improve safety, efficiency, and compliance with international standards.

Battery pack and module testing

Modules are tested under real-world load conditions to evaluate performance, efficiency, and durability. This includes electrical cycling, thermal profiling, and mechanical stress tests with regenerative battery pack and module cyclers 16 channels, 100V/50A, and thermal chambers up to 6m³. Module-level testing bridges the gap between cell-level research and full system applications, providing crucial data for scale-up and integration into vehicles, stationary storage, or other applications.

Vibration testing for cells and electronics

We replicate demanding mechanical environments, such as those encountered in electric vehicles, industrial machines, or maritime applications. Vibration testing ensures that cells, modules, and electronic components (including BMS units) withstand shocks, vibrations, and long-term mechanical stress without loss of performance or safety.



Research Groups:

Circular Business Models New Materials and Processes

Cluster 4
Digital, Industry and Space

Cluster 5
Climate, Energy and Mobility

Cluster 6
Food, Bioeconomy Natural
Resources

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TURKU UNIVERSITY OF
APPLIED SCIENCES





Circular Business Models

We bring sustainability, circular economy solutions and competitiveness to many industrial sectors, such as automotive industry and shipbuilding supplier network. We work with circular economy business models, material recycling, recovery, reuse and recyclability.

We build collaborative ecosystems that bridge the private and public sectors to advance circular economy practices in the market. We have in-depth knowledge of circular economy business models that are essential for the emerging global sustainable market economy. We see that the circular economy encompasses not only material circulation, and new business models but also the perspectives of global justice and equality.

We are interested in

- Life cycle thinking
- Systemic change
- Developing circular economy solutions into the life cycle of ships and cars
- Textile industry
- Circular economy business models
- Industrial ecosystems

New Materials and Processes

Our activities in Chemical Engineering support the green transition, circular economy, and sustainable development.

We develop new materials, processes, and solutions in collaboration with companies and research institutes. Our activities include development of new biomaterials, recycled materials, and analytical methods, as well as solutions supporting the green transition and sustainable development.

We are interested in

- Medical biomaterials and devices
- Materials recycling, secondary raw materials, and circular economy
- Rheology, mechanical testing, and biodegradability
- 3D printing and development of printing materials



Call compatibility

HORIZON-CL6-2026-01-CIRCBIO-02 Advancing recycling technologies for mixed post-consumer textiles waste from blended product

We are interested in developing new products from recycled fibers and optimizing the properties and production processes. Our actions could also include the characterization of textile materials and processed products, as well as implementing processing pilots together with our partner companies.

HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-01 Advanced manufacturing for key products (IA)

We are interested in developing and integrating recycled polymer-based filaments and powders for circular 3D printing applications. Our actions could include the characterization and processing of recycled plastics into printable formats, and the optimization of additive manufacturing techniques such as FDM and SLS, supported by statistical design of experiments. We can demonstrate the materials in industrial use cases, particularly in health technology, with a focus on strengthening supply security through local and sustainable material sourcing.

HORIZON-CL5-2027-04-D5-03 Data-driven circular economy for e-mobility ecosystem

Our team has expertise in developing circular economy solutions for the end-of-life (EoL) vehicles and heavy machinery. We design and implement RDI projects that enhance dismantling technologies, integrate automation and robotics, and build data-driven systems for material traceability and quality assessment. By combining material research with the development of circular economy solutions in all the phases of vehicle's life cycle, we support the creation of sustainable business and contribute to securing raw material availability for industry through improved resource efficiency and circular economy practices.

From the material research perspective, we are interested in identification of materials and conducting hazardous substance analyses of ELV (End-of-Life Vehicle) materials, particularly plastics. We are also interested in piloting source separation. Our contribution could include various composition and hazardous substance analyses, research on the processability of recycled plastics, and characterization of them.

Get in touch



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[illegible]

We solve and promote the concrete challenges of circular economy in the Circular Economy Lab project learning environment, where experiments and development projects based on the needs of companies are carried out together with higher education students from different fields. Our aim is to help companies find circular economy opportunities for their business. The circular economy lab also serves as a learning environment where students from different fields get to develop their skills and work on projects implemented with companies.

- Building and developing industrial ecosystems to promote transition towards sustainability
- Developing new circular economy business and solutions with industrial companies
- Connecting companies and research organizations
- Helping students and professionals to update the know-how of sustainability and circular economy



Our Lab Chemical Engineering

Labriikki – Laboratory of Chemical Engineering

Labriikki is a laboratory specialized in materials processing, testing, and analytics. Our services are tailored to client's needs, and our experts are responsible for research and development tasks in biomaterials, biotechnology, materials engineering, food technology, chemical analytics, and microbiology.

Labriikki's equipment enables research and small-scale production. The laboratory is utilized in demanding international development projects. Students of chemical engineering are involved in the provision of services under the guidance of experts.

Activities:

- 3D printing and development of printing materials
- Bio- and food processes, bioreactor cultivation, and downstream processing
- Medical biomaterials and devices
- Materials recycling, secondary raw materials, and circular economy
- Rheology, mechanical testing, and biodegradability
- Biogas processes, microbiology
- Chemical analytics
- Lean and cleanroom expertise, quality, and safety

Kupittaa Campus Brewery for Research and Development

Kupittaa Campus Brewery serves as a research brewery and development environment, where brewing technology research, product development, and analytics are integrated. The brewery develops new beer and food products, conducts sensory analyses and consumer studies, and investigates the utilization and digitalization of brewery process side streams.

The brewery's operations are based on close cooperation between research group experts and industry partners, and it is involved in several development projects.

Kupittaa Campus Brewery, a small brewery that serves as a learning environment for students, is also located on the premises.

Activities:

- Brewing process research, development and analytics
- Beer product development, sensory analysis and consumer research



Research Groups:

Engine and powertrain

Manufacturing engineering

Cluster 5
Climate, Energy and
Mobility



Engine and powertrain

Our research group focuses on energy use and component studies of land and sea transport vehicles powertrains.

Our research focus on engines, emissions, and fuels for non-road machinery, and engines, emissions, and fuels for marine vessels.

The main tools are our experimental laboratory facilities, where we study internal combustion engines, electric powertrain components, fuels and their emissions. The laboratory can run internal combustion engines up to 400 kW shaft power.

We have invested in testing facilities for studies on hydrogen, methane, and methanol-fuelled internal combustion engines.

Powertrain simulation by using GT-Suite, AMESIM, or Matlab/Simulink software can be combined with experimental research.

Manufacturing engineering

Our research team focuses on solving problems in the manufacturing industry. We collaborate on RDI projects with industry and research organizations.

Our RDI activities focus on five priority areas:

- 1) General manufacturing technology - we research and develop manufacturing techniques for mechanical engineering and industrialize new manufacturing techniques.
- 2) Welding and joining technology - we focus on developing joining processes and looking at joints through quality, design and cost.
- 3) Manufacturing quality and economics - we look at manufacturing production methods from a broader perspective.
- 4) Additive manufacturing - we look at the potential of additive manufacturing to produce new types of products and develop the manufacturing techniques.
- 5) Manufacturing technologies for electrical energy storage - manufacturing technologies and production methods for battery technology for electric vehicles and non-road machinery.



Call compatibility

HORIZON-CL5-2027-06-D4-09: Demonstration of industrial excess/waste heat conversion to mechanical or electrical power

We offer system-level simulation studies, an experimental test facility, for 50...400 kW waste heat studies alongside the combustion engine process. The waste-heat unit can produce electric or mechanical power, and it can be connected in several ways to the engine process.

HORIZON-CL5-2027-04-D5-19: Onboard renewable energy solutions and energy saving measures to reduce the fuel consumption of ships by at least 55% (ZEWTP Partnership)

We can offer emission trade-off analysis related to different new fuels e.g. ammonia, hydrogen, and methanol use.

Get in touch



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Our Lab Engine and Powertrain

Research and development on engine and powertrain

Research and development environment for experimental research on non-road machinery and transport equipment. We provide companies and our public research partners the equipment, facilities and expertise to study fuel and emission reduction and new hybrid electric technologies.

We have conducted fuel research on a long-term basis and been involved in creating new environmentally friendly fuel solutions for Finnish companies.

Our services

We provide testing and measurement services for research into the performance and energy efficiency of vehicles and machinery, engines and electrical powertrain. We can do for example:

- exhaust emission measurements
- fuel research
- energy efficiency and loss measurements
- Long unmanned endurance tests

Laboratory equipment

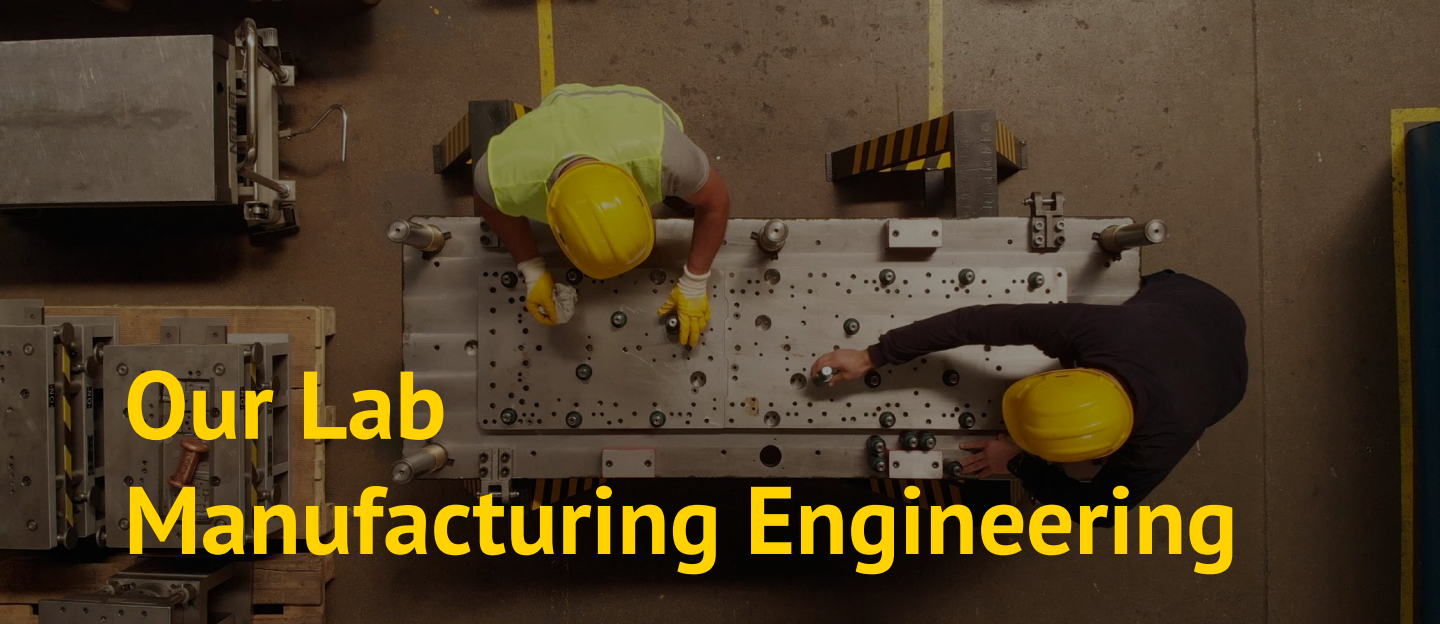
Electric dynamometer

The laboratory has four research test benches, one of which is equipped with an electric dynamometer, enabling the study of hybrid and electric powertrains. The equipment can measure power, torque, rotational speed, and energy consumption. A DC voltage of up to 180 kW can also be connected alongside the electric dynamometer to allow testing of electric powertrains.

The electric dynamometer can be used to rotate motors and powertrain components to study equipment friction, losses, and the effect of lubricants. The laboratory can also study conventional internal combustion engines, their power, and exhaust emissions. In addition, exhaust after-treatment devices such as particulate filters and nitrogen oxide removal devices can be studied.

Hybrid container

In 2026, we will launch a research container that enables the experimental use of hydrogen, methane, and methanol fuels in combustion engine research.



Our Lab Manufacturing Engineering

Manufacturing Engineering Lab

Is a research and development environment for experimental research for machine, marine and infrastructure equipment. We provide companies and public research partners the equipment, facilities and expertise to study widely manufacturing engineering technologies.

Our services

We provide manufacturing, testing and measurement services for research into the welded structures, wide range of AM processes PBF-LB, DED-arc/laser, assembly of electrical powertrain. We can provide for example:

- Laser joining processes
- 5-axis machining center and multiaxis lathe
- Measurement services CMM (3 µm),
- Scanner-based measuring (40 µm)
- DT –testing for metal and plastic structures
- Cyber secured factory network

Laboratory equipment

Industry scale FMS

- 250 Pallet places
- Machining center horizontal Deckel (4-axis)
- Machining center Doosan (5-axis) MX2500 ST
- Multifunction lathe Daewoo Puma MX2500ST (5-axis)
- Robot Fanuc R 2000 iB 165F
- Fastems control updated 2022

Laser processing room (15*10m, 5 ton crane)

- Robot Motoman UP50
- VST 600 Track 10 m
- ABB IRP 60 kg Track 10 m
- IPG - Fiber laser 10 kW MM
- IPG - Fiber laser 2 kW SM
- IPG - LightWELD
- Laser cutting 5-axis and flat bed

Additive manufacturing - PBF-LB/M

- SLM 280 1#
- SLM 280 2#
- EOS M100
- Agonity dedicated laboratory AM (multimaterial)
- Several post-processing processes



Research Groups:

**Water and Environmental
Protection**

Marine environment

**Cluster 6
Natural Resources
Agriculture and
Environment**

Ocean Mission

Climate Mission



Water and Environmental Protection

We develop scientifically based practical solutions for water and environmental protection, climate adaptation and conservation of biodiversity.

We carry out applied research and development projects in collaboration with authorities, companies, and research institutes mainly from European countries. We draw on multidisciplinary expertise and work on multiple levels, from practical fieldwork to the policy level.

Our core expertise:

- Adaptation to climate change
- Environmental monitoring and modeling
- Research, design and implementation of water restoration
- Research and reduction of harmful substances
- Sustainable public procurement
- Sustainable management and regulation of stormwater and wastewater
- Development and implementation of water and environmental education for different target groups.

Marine Environment

We improve the ecological status of the marine environment through research and development.

We carry out research and development work related to improving the ecological status of the marine environment and the sustainable reconciliation of marine protection and human activities, especially in the offshore areas. We specialise in the protection of marine nature, the research and monitoring of underwater habitats, marine mammals and other marine organisms, as well as bioacoustics and underwater noise research.

We carry out surveys and monitoring of marine species and habitats, as well as research related to marine protection and the restoration of marine nature, with the aim of supporting and promoting marine protection planning and the development of conservation measures by working in close co-operation with national authorities and stakeholders.

Call compatibility

Water and Environmental Protection

HORIZON-MISS-2027-03-OCEAN-01

Increasing riparian and coastal areas resilience to climate change, including in waterfront cities and islands.

We study and develop climate change adaptation solutions, coastal restoration methods and load reduction implementation techniques, working closely with local and regional environmental authorities and governance. We develop and promote inclusive and cooperative models for environmental management, based on scientifically robust objective and scale relevant data.

HORIZON-MISS-2026-03-OCEAN-02

Addressing aquatic pollution and biodiversity loss through nature-positive solutions in the land-sea connection

Our group focuses on reducing harmful substances and restoring aquatic ecosystems through studying the implementation of nature-based solutions. We integrate land-sea interaction research and pollution source tracking, particularly in the Baltic Sea region, and collaborate with stakeholders to implement scalable and targeted restoration strategies.

HORIZON-CL6-2026-03-GOVERNANCE-07

Interconnect Earth Observation research for addressing environmental policies.

We design, test and implement real-time and scale relevant environmental observation systems, including sensor networks and mobile observation platforms, for water quality, greenhouse gases and ecosystem health. Our work informs policy and supports adaptive management in the Baltic Sea and surrounding catchments.

HORIZON-CL6-2026-01-ZEROPOLLUTION-01-two-stage

Decontaminate and bioremediate aquatic pollution

HORIZON-CL6-2026-02-CLIMATE-02

Towards the water infrastructures of the future

We develop and test innovative bioremediation and pollutant removal techniques, including multi-functional nature-based methods, for contaminants such as PFAS, nutrients, and suspended solids. Our expertise in real-time and scale relevant water quality monitoring and modeling supports effective deployment and impact assessment.

Get in touch

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Call compatibility

Photo: Rasmus Boman

Marine Environment

HORIZON-CL6-2026-01-BIODIV-04

Ensuring continuous effectiveness of protected areas in conserving habitats and species while facing intensifying drivers of biodiversity loss

We take a holistic approach to research in the Baltic Sea, especially in Archipelago and Åland sea areas. We're able to develop science-based indicators and innovative approaches for the sustainable use and management of protected areas, in close co-operation with governmental and local authorities in Finnish mainland and Åland.

HORIZON-CL6-2027-01-BIODIV-01

Integrating Remote Sensing and in-situ observations of Biodiversity, towards a fully interoperable observation and data framework

We pilot continuous biodiversity monitoring methods in marine areas to support protected area management and inform policy-making. Our research includes nutrient monitoring, underwater bioacoustics, and video surveillance. We contribute to FAIR-compatible data and indicators, supporting integrated, multisensory monitoring and the sustainable use of marine protected areas.

HORIZON-CL6-2027-01-BIODIV-03

Technical innovation to protect ecosystems and to scale up their restoration

We offer technical innovation for continuous monitoring in marine environments, supporting both ecosystem protection and restoration. In partnership with SME's we can co-create technical solutions and further quantify and monitor the effects of the innovations in marine environment.

Field work equipment

We operate two research vessels and a 4wd tailored for different environments and needs.

The smaller, agile boat is ideal for rapid deployment along the entire Finnish coastline, especially in shallow areas and locations requiring frequent landings. The larger catamaran is optimized for fast offshore operations and serves as a versatile platform for underwater noise and bioacoustics research, offshore biodiversity surveys, scientific diving and sediment sampling.

Our equipment supports both marine and terrestrial bioacoustics surveys, bird, fish and marine mammal monitoring and dive-based research operations.

Get in touch



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Our Lab Water and Environmental Protection

Coastrider monitoring

Coastrider water quality surveys generate proven knowledge about the state and function of coastal waters. In practical environmental management, data from the Coastrider method is used to target water management measures and monitor their impact.

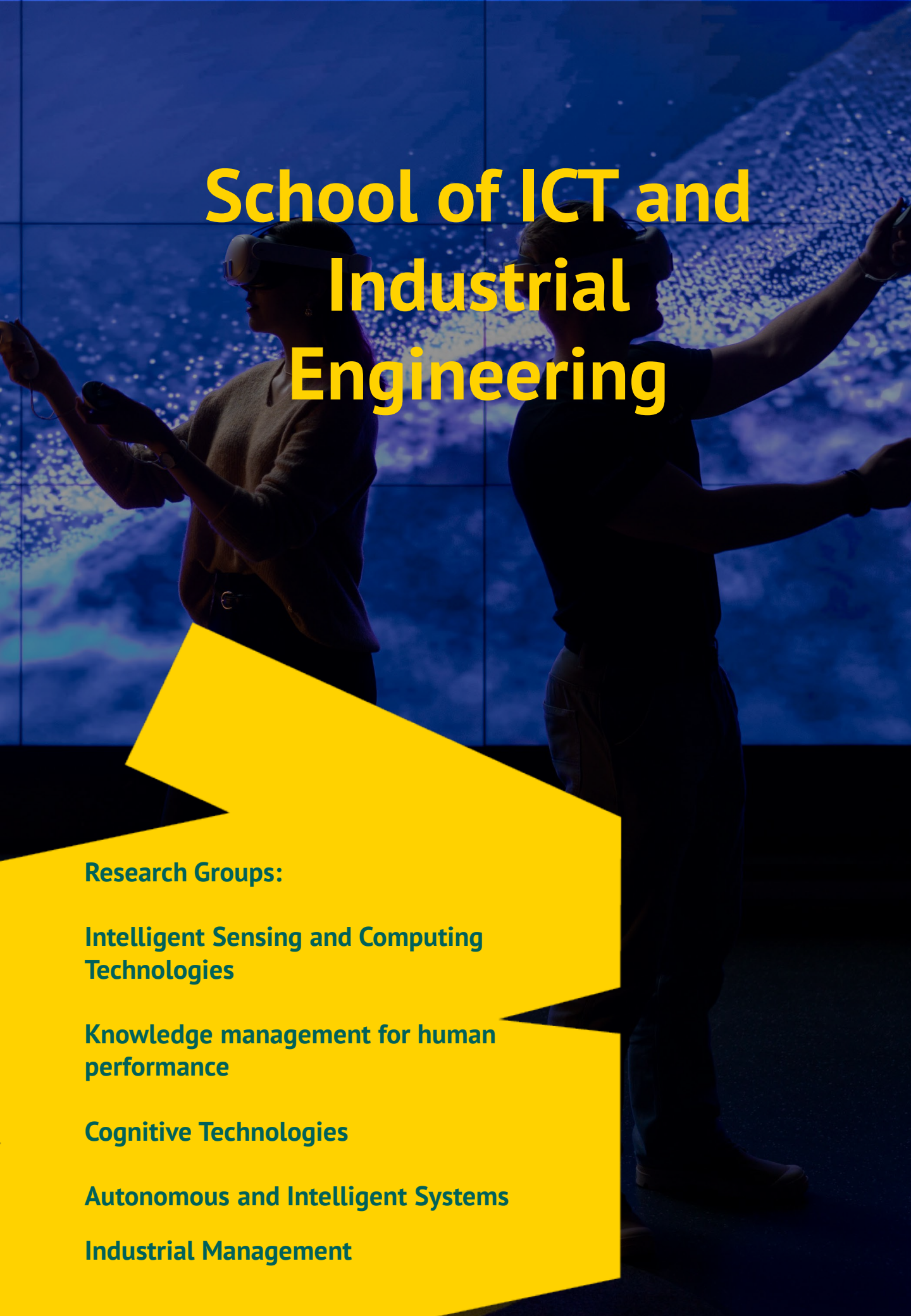
Coastrider is a scalable, reproducible measurement platform that produces empirical water quality information tailored to its purpose. It measures variation in key water quality variables vertically and horizontally in a highly cost-effective way—virtually anywhere, anytime.

This information supplements existing perceptions of coastal water quality and variability, which otherwise rely on fixed stations, satellite observations, and derived models. Coastrider measurements, combined with other data, form a comprehensive, representative sample of spatial and temporal variation in coastal waters (an estuarine continuum). The aim is to deepen knowledge of this system's structure and function in academically new ways, providing a robust, scale-relevant basis for water management using the latest proven methods.

Real-time environmental monitoring

Real Time Environmental Monitoring Network (RTEON): RTEON is a comprehensive, state-of-the-art, continuous, real-time environmental observation network, developed together with our Autonomous and INtelligent Systems research group. RTEON produces reliable information on changes in hydrology and water quality in open streams, stormwater networks and the coastal sea. These support hydrological and water quality modelling, load reduction and water management impact assessments, as well as joint research on policy implementation and climate change effects.

RTEON and Coastrider can be combined to produce holistic information on the land to sea continuum, enabling evaluation of cross sectoral environmental management practices and large-scale impact assessment of implemented climate change adaptation and load reduction measures.

The background of the slide features two individuals, a woman on the left and a man on the right, both wearing VR headsets and holding controllers. They are standing in a dark environment with a large, glowing blue grid pattern in the background, suggesting a virtual reality or augmented reality setting. The overall color scheme is dark blue and black, with bright yellow text and a yellow geometric shape at the bottom.

School of ICT and Industrial Engineering

Research Groups:

**Intelligent Sensing and Computing
Technologies**

**Knowledge management for human
performance**

Cognitive Technologies

Autonomous and Intelligent Systems

Industrial Management

Research Groups:

**Intelligent Sensing and
Computing Technologies**

**Knowledge Management for
Human Performance**

Cognitive Technologies

**Cluster 1
Health**

**Cluster 2
Culture, Creativity and
Inclusive Society**

**Cluster 4
Digital, Industry and Space**

Cancer mission



Intelligent Sensing and Computing Technologies (INSIGHT)

At INSIGHT, we specialize in intelligent sensing and computing technologies at the intersection of computational and biological sciences. Our solutions drive innovation in medical and health technologies, as well as overall wellbeing. We focus on developing advanced computational methodologies and robust software architectures—such as distributed machine learning for medical imaging—to support diagnostics, patient monitoring, and clinical decision-making.

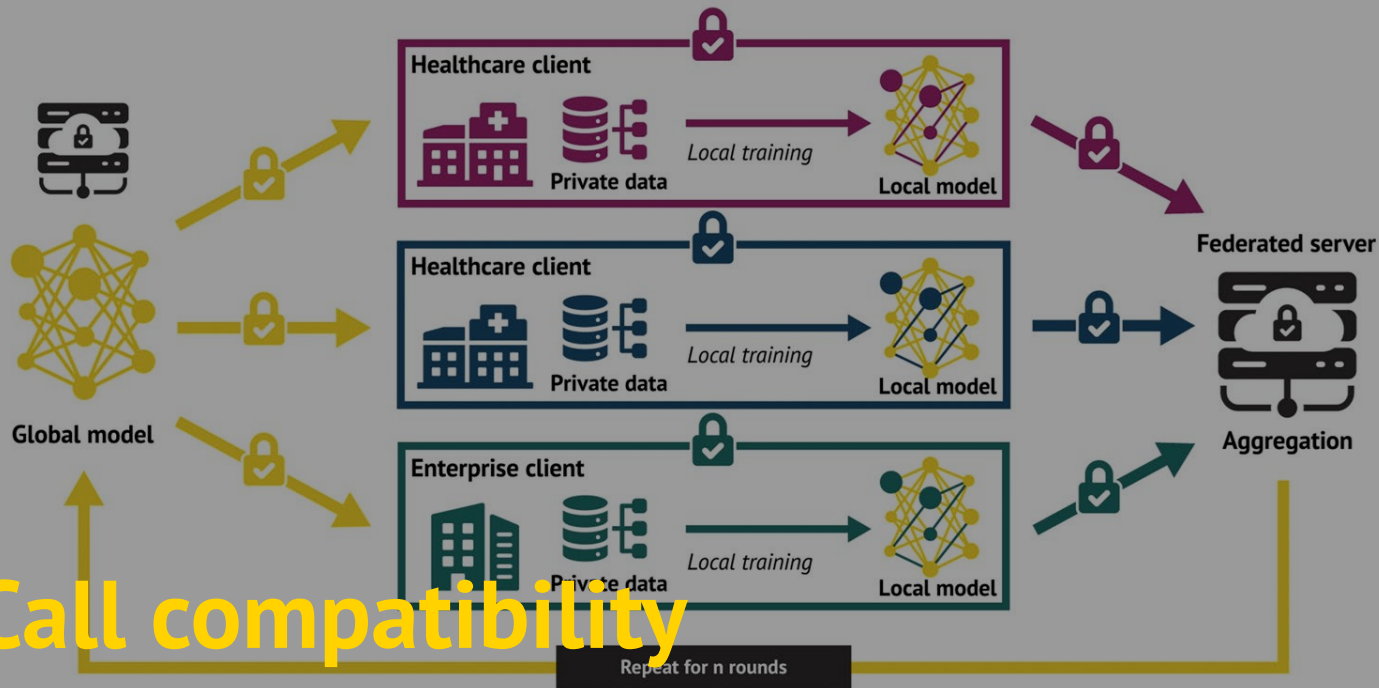
Our core expertise

- Privacy preserving generative AI and federated learning
- Multi-modal health sensing and wearable computing
- Computer vision and machine learning for medical technology

We collaborate with a broad network of partners, including research institutes, companies, and other organizations at both national and international levels. Our work spans externally funded RDI projects as well as smaller initiatives, such as student-driven collaborations.

Our experts

Our team brings broad expertise in health and medical technology as well as artificial intelligence, covering areas such as mathematical modeling, algorithm development, software engineering (both front-end and back-end), medical imaging, federated learning, and computer vision. Our team combines experienced professionals—many with doctoral degrees and long careers in science and technology—with early-career researchers who bring fresh ideas and enthusiasm to the field.



HORIZON-HLTH-2027-02-DISEASE-01-two-stage: Innovative healthcare interventions for non-communicable diseases.

We can contribute by designing and implementing AI-driven tools that support clinical decision-making, while leveraging distributed machine learning and advanced data analytics.

HORIZON-HLTH-2027-01-DISEASE-10: Prevention and management of chronic non-communicable diseases in children and young people (GACD).

We can contribute by developing AI-powered screening tools (including imaging and predictive analytics) to support early detection of NCD risk factors.

HORIZON-HLTH-2027-02-TOOL-01-two-stage: Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases.

We can contribute by developing and applying distributed and federated machine learning methods on heterogeneous data sources including medical images and other clinical data.

HORIZON-MISS-2026-02-CANCER-01: Virtual Human Twin (VHT) Models for Cancer Research.

We can contribute by developing advanced AI and machine learning models, including models for synthetic data, to create virtual human twins used for cancer research and treatment development.



Get in touch

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Knowledge management for human performance

We develop knowledge management by leveraging artificial intelligence, data analytics and software development.

Our goal is to make all activities related to human performance based on situationally relevant, reliable and applicable knowledge. We pursue the goal by supporting the abilities of humans and organizations to apply knowledge as well as improving the processes of need-based knowledge creation.

Our core expertise

- Knowledge Management as a Service and Data-Driven Innovation
- Holistic Human Performance Assessment
- Cognitive Factors in Human Performance

Our network of partners includes research institutes, companies and other organizations both nationally and internationally. We carry out externally funded RDI projects and activities as well as smaller projects, including student collaborations.

Our experts

The research group and the staff at INSIGHT Lab includes professionals in the field of engineering and health, with dozens of years of experience in the field in total.

Most of our experts have defended their doctoral dissertations on topics related to artificial intelligence or programming. The staff has been involved in several research, product development and service projects and offered tailored education in the field of health technology to support organizations.



Call compatibility

HORIZON-HLTH-2026-01-STAYHLTH-02: Behavioural interventions as primary prevention for Non-Communicable Diseases (NCDs) among young people.

We can contribute by designing and implementing evidence-based behavioral interventions and leveraging real-world data and AI-driven analytics to personalize interventions and enhance long-term effectiveness.

HORIZON-CL4-2027-02-DIGITAL-EMERGING-52: HORIZON-CL4-2027-01-DIGITAL-EMERGING-52-two-stage: New approaches for Human/AI collaboration for the workforce of the future (RIA).

We can contribute by designing innovative frameworks for knowledge capture and continuous upskilling.

Get in touch



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Cognitive Technologies

We build trustworthy and human-centered AI solutions that make data understandable and decision-making smarter.

Our goal is to strengthen the competitiveness and sustainability of organizations by transforming fragmented information sources into coherent, actionable intelligence.

Our core expertise

Multimodal data fusion and analytics: We integrate data from machine vision, audio, text, sensors, and process systems into unified, interpretable models that support operational and strategic decision-making.

Explainable and human-centric artificial intelligence: We develop algorithms that predict, classify, and transparently explain their reasoning to users — ensuring trust and accountability in AI-assisted processes.

Modelling tacit knowledge and human expertise: We research how experiential and skill-based knowledge can be captured, quantified, and transferred into digital, measurable, and teachable forms.

Real-time analytics and edge intelligence: We bring AI closer to the user through decentralized and secure edge solutions, enabling efficient and privacy-preserving data processing.

Cognitive and interactive systems: We design and support the development of AI-based agents and cognitive systems that enhance human work instead of replacing it.

Compatible calls

Our own technology architecture is designed for interoperability and scalability, allowing seamless integration of new data streams, sensing modalities, and intelligence modules. This flexibility makes CoRe an ideal partner across multiple Horizon Europe Cluster 4 Destinations and Topics — from AI, data, and robotics, to digital twins, smart manufacturing, human-machine collaboration, and all up to space.

Destinations where we could contribute are:

HORIZON-CL4-2026-04-DIGITAL-EMERGING

HORIZON-CL4-2026-04-HUMAN

HORIZON-CL4-2026-04-DATA

HORIZON-CL4-2026-01-MATERIALS-PRODUCTION

HORIZON-CL4-2026-SPACE

We are also available for 2027 topics and calls in other Clusters where our experience and technology could be useful.

Call compatibility

235,62	662,32	654,53	369,21	152,81	834,44
667,21	827,33	619,56	43,74	32,23	565,39
651,54	446,45	424,19	353,60	173,70	834,94
364,52	246,24	332,18	272,67	123,46	757,37
358,66	402,08	624,85	309,36	120,37	595,78
286,87	888,43	486,99	279,19	100,22	237,58

HORIZON-CL4-2026-05-DIGITAL-EMERGING-02

Our research group can develop and validate innovative components that strengthen the autonomy, reliability, and real-world applicability of next-generation AI agents, e.g.,

- Multimodal knowledge fusion engine
- State-aware memory architecture
- Agentic reasoning for data understanding
- Adaptive orchestration among multiple agents
- Trust and validation framework
- Knowledge extraction layer for digital ecosystems

HORIZON-CL4-2026-04-HUMAN-01

Our research group can contribute with technologies that enable intelligent, human-centric interaction and tacit knowledge transfer inside immersive and interoperable virtual environments, e.g.,

- Tacit knowledge capture and transfer
- Multimodal data fusion for immersion
- Generative AI for adaptive experience
- Edge-integrated intelligence layer
- Interoperability and standardization support

HORIZON-CL4-2026-02-DIGITAL-EMERGING-51

Our research group can contribute by developing explainable adaptive intelligence that unifies industrial data into actionable knowledge for real-time optimization and sustainable manufacturing, e.g.,

- State-aware multilevel data fusion layer and knowledge extraction engine
- Explainable AI for process reliability and anomalies detection
- Adaptive optimization engine
- Knowledge extraction and decision support

HORIZON-CL4-2027-02-DIGITAL-EMERGING-52 and HORIZON-CL4-2027-01-DIGITAL-EMERGING-52

Our research group can contribute by creating AI-driven methods that make human expertise, intuition, and experience explicit, reusable, and adaptive inside collaborative industrial environments, e.g.,

- Tacit knowledge capture and formalization
- Co-learning and interactive mentoring
- Adaptive and inclusive interfaces
- Cognitive teamwork and planning support
- Ethics, fairness, and digital humanism integration

Other calls of interest are, e.g.,

HORIZON-CL4-2026-02-DIGITAL-EMERGING-53
HORIZON-CL4-2027-05-DIGITAL-EMERGING-01
HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-61
HORIZON-HLTH-2027-03-TOOL-04
HORIZON-CL2-2027-01-TRANSFO-04
HORIZON-CL2-2026-01-HERITAGE-04
HORIZON-CL2-2027-01-HERITAGE-02

Get in touch



Cognitive Technologies Research Group

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Our Lab FIT Turku Competence Centre

Centre of expertise for Futuristic Interactive Technologies

We conduct applied research on virtual, augmented and mixed reality and offer tailor-made solutions to meet the needs of our partners. We use the latest technology and know-how in the industry. Whether you require immersive training simulations, interactive product visualizations, we have the skills and knowledge to make your vision come true.

We have carried out a wide range of projects from rehabilitation and educational digital gamified solutions with strong work in UX/UI, to the newer needs of the metaverse, digital twins and robotics with own challenges on data structures, neural networks, machine learning, and prototype developing and testing. We are developing our own metaverse technology specifically designed for industrial training applications. We can also offer expertise in game and application development, market validation and patenting, for example.

Our strengths:

- VR, AR and MR research and applications
- Metaverse-technologies
- Game and app development
- Fast prototyping
- Visualization solutions
- UX/UI

Metaverse technologies in education applications

Maritime VR training: Emerging immersive technologies, such as virtual reality (VR), augmented reality (AR) and mixed reality (MR) transformed the concept and operations of maritime simulations

Industrial metaverse are VR- and/or AR-based collaborative environments used for learning, training and practicing tasks in industrial settings. In this video you can see a collection of cases of what we have working on.

Digital Twins: possibilities to analyze human experiences of possible future spaces using digital twins.

Virpa – Fire Expert is a digital and virtual learning environment for young schoolchildren. The purpose of this fully-free-to-play game is to promote knowledge and skills related to fire safety.

Forklift training: processes and tasks, like the operation of a forklift, can be practiced and learned in Industrial Metaverse. In this video we show the first-person view of a worker practicing the use of a forklift.

AIF FireSimulation: Prototype for VR Safety Training



Our Lab INSIGHT Laboratory

Photo: Vesa-Matti Väärä

Intelligent Sensing and Computing Technologies

INSIGHT Lab is an ICT research laboratory driving innovation in health, wellness and sport technologies through advanced AI and data-driven solutions.

Our work focuses on leveraging Artificial Intelligence (AI) to enable smarter healthcare solutions, while addressing critical challenges such as secure management of sensitive patient data and the ethical integration of synthetic health data. These areas offer groundbreaking opportunities for predictive analytics and personalized medicine but require rigorous scientific and regulatory oversight.

Operating under strict Medical Device (MD) regulations and the rapidly evolving frameworks for AI and software compliance, the lab provides a research-driven environment for developing robust, validated solutions. By combining academic expertise with industry partnerships, we tackle complex regulatory and technical constraints to accelerate innovation in digital health—ensuring that new technologies are not only cutting-edge but also safe, ethical, and compliant.

What We Do:

Privacy-Preserving Data Analytics

Secure frameworks for handling sensitive health data, including synthetic data generation and federated learning approaches.

Multimodal Research Platforms

Combining eye tracking, EEG, and physiological sensors for usability studies, cognitive workload analysis, and human-centered design in health technology.

Hybrid Rehabilitation Models

Developing and validating AI-driven approaches that combine in-person and remote therapy using sensor data and predictive analytics.

Digital Health, Sport and Wellness Concepts

Design and development of mobile and web solutions

Regulatory Research for Innovation

Advancing knowledge on MDR and emerging AI/software regulations to build structures that support responsible early-stage health technology development.

Our expertise:

- AI & Machine Learning
- Sensitive Data Management
- Synthetic Health Data
- Software Development
- Usability Engineering
- Medical Device Regulation



Our Lab Cyber Test Laboratory

Cybersecurity expert services

Digitalisation has become a critical factor in many areas of business, and it is creating lot of new business opportunities. At the same time, cyber threats related to digital services and systems are constantly increasing. Well-built and managed cybersecurity protects the business and is a crucial part of companies' risk management. Cybersecurity protects your business. The Cyber Test Lab, operating in Turku and Salo, helps companies take care of their cybersecurity correctly. We focus especially on ensuring the cybersecurity of IoT devices and services. We test the current state and help to find the corrective solutions.

Our services:

- Risk assessment
- Penetration testing
- Cyber security consultation services
- Cyber security trainings
- Joint Research, Development and Innovation projects

We test the company's connected devices, cloud services and other information systems. In verifying the level of cyber security, we utilize automated testing tools as well as manual customized testing performed by experts. Testing is performed using the device's user interface, network connection, communication interfaces and wireless data transmission. The laboratory has two tamper-proof rooms where wireless testing can be done safely. Testing is performed in accordance with open standards, guidelines and processes such as IEC, ETSI, NIST and OWASP.

Benefits of working with Cyber Test Lab

- You will have access to the expertise and solutions of cybersecurity professionals. We help you identifying cyber security vulnerabilities and developing solutions to protect your systems against those.
- You will be assured that our company's cybersecurity is up to date. You will have a solid cyber security solutions that help secure your business operations without unwanted interruptions.
- Your organisation's cybersecurity understanding and skills will improve.
- You stay one step ahead and can ensure that your processes are up to date. We help you develop a model for continuous cyber security assessment system with an expert taking into consideration limited resources of small and medium size companies.



Research Groups:

**Autonomous and Intelligent
Systems (AIS)**

Industrial Management



Cluster 3
**Civil security for
society**

Cluster 5
**Climate, Energy
and Mobility**



Autonomous and Intelligent Systems (AIS)

Our work spans various domains, including maritime, land, and air. We leverage the unique surroundings of Turku, Finland, for testing and development, with a particular focus on maritime autonomous systems.

Hub for creating intelligent systems for autonomous operation

Our test vessel, eM/S Salama, serves as a valuable platform for experimentation and validation. We also operate a remote operations center, enabling us to control the eM/S Salama over a wireless connection.

While our current test platform is in the maritime environment, our work can be applied to various domains in land and air.

AIS actively collects, annotates, and publishes open access multi-modal sensor data related to various domains. This process of sensor data gathering and annotation is one of our key services, along with dataset collection which we offer to companies.

Beyond maritime applications, the lab explores robotics and machine learning topics in various environments, fostering cross-disciplinary collaboration.

Test Vessel eM/S Salama

An Unmanned Surface Vessel (USV) remotely operated and progressively advanced toward autonomy.

Its size allows operation in challenging weather and collection of multimodal data. The platform supports deep learning development, bridges the digital skills gap, and fosters collaboration between academia and industry. It is independently built using commercial off-the-shelf components where suitable.

Remote Operation Centre (ROC)

Allows operators to monitor, support, assist, supervise and control the USV. Equipped with a comprehensive display setup, with 180-degree front and back views, telemetry and map data.

Data Platform

On-shore data platform specifically tailored for storing the multi-modal data collected by the eM/S Salama. This platform also allows enrichment of the data by incorporating information from external sources, such as accurate weather data and Automatic Identification System (AIS) data.



Call compatibility

HORIZON-CL5-2027-08-D5-16: Autonomous vessels in short sea shipping and inland waterways

We plan to coordinate a proposal in this call.

- AIS Group offers a full-stack demonstrator for autonomous shipping through the electric vessel eM/S Salama.
- We enable Degree 3 remote control and Degree 4 autonomy with real-world trials in short-sea and inland waterways.
- Our solution integrates RBAT-aligned safety logic and AI governance compliant with the EU AI Act.
- As a maritime AI testbed, we support SME and academic experimentation aligned with the Apply AI Strategy.

HORIZON-CL3-2026-01-BM-01: Advanced border surveillance and situational awareness

- Integrated Multi-Sensor Expertise – We will deliver advanced multi-sensor fusion capabilities combining AIS, radar, SDR, and GNSS to create real-time situational awareness systems tailored for border surveillance.
- Operational Testbed with e/M/S Salama – Our unmanned surface vessel e/M/S Salama will serve as a fully equipped maritime testbed for validating surveillance technologies in realistic and challenging operational conditions.

HORIZON-CL5-2026-10-D6-03: Generative AI for smarter CCAM: enhancing perception, decision- making, and validation

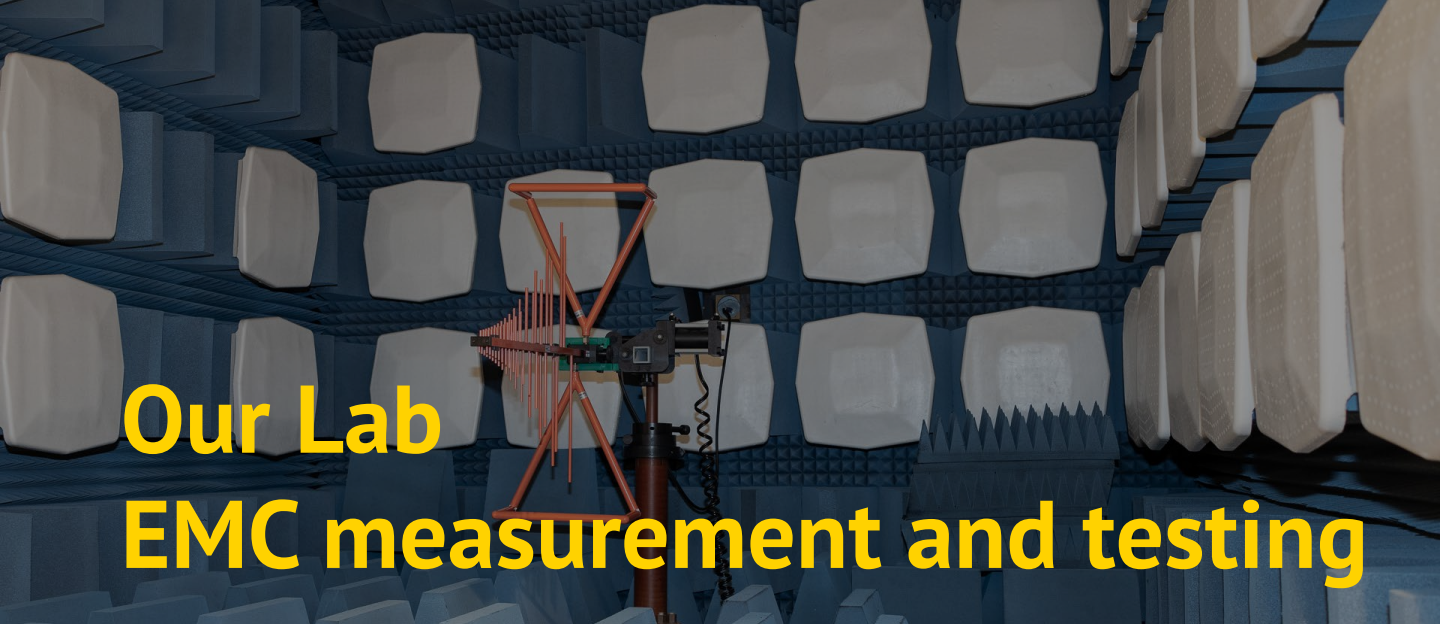
- Development and validation of generative AI models.
- Testing and benchmarking of AI-driven CCAM solutions – Our team will establish comprehensive testing and benchmarking frameworks to ensure reliability, safety, and performance of AI-enabled CCAM applications under diverse operational scenarios.
- Integration of wireless communications and cybersecurity.

Get in touch



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Our Lab EMC measurement and testing

Product Development EMC Lab

Specialising in product development provides services for testing and developing the electromagnetic compatibility (EMC) of products. We offer a wide range of tests to ensure the functionality and safety of your products in a variety of environments.

Our services:

We offer electromagnetic emission and immunity tests that can be applied to most products in office, residential and industrial environments.

EMC emissions

- For example, EN 55011, EN 55032, EN 55022, EN 55015
- conducted emissions 9 kHz to 30 MHz
- radiated emissions 30 MHz to 3 GHz.

Immunity testing

- RF immunity 80 MHz–6 GHz (IEC 61000-4-3)
- conducted RF immunity 0.15–100 MHz (IEC 61000-4-6)
- electrostatic discharge (ESD, IEC 61000-4-2)
- transient immunity (EFT, IEC 61000-4-4)
- surge immunity, IEC 61000-4-5
- voltage dips & short interruptions (IEC 61000-4-11)
- magnetic field testing (IEC 61000-4-8)

Interference-proof and attenuated RF testing

- The test space has an attenuation of 100 dB and return loss of > 20dB in the 30 MHz–18 GHz frequency range.
- Measurements of radio interference of RF equipment and antennas can also be carried out in the room.
- The maximum dimensions of the EUT that can fit into our interference-protected test room (6.7 x 4 x 3.3 m) are approximately 220 x 97 x 180 cm (L x W x H). The load capacity of the turn table is 400 kg. The height of the door frame limits the height of your product, but if the device can be brought in horizontally and straightened inside, the device height may be slightly over 2 m.

Exposure studies for lighting equipment

- 20 kHz–10 MHz (IEC 62493)



Industrial Management

Our research group currently focuses on supply network value creation, emphasizing the strategic and operational dynamics that drive competitiveness in industrial ecosystems. We investigate how organizations can co-create value through collaborative practices, digital integration, and sustainable operations across global supply networks.

By bridging academic insight with practical relevance, we aim to support industrial renewal and the development of sustainable industrial practices. We contribute to academic understanding and practical development, especially within complex industrial ecosystems.

Contemporarily we are specialized on ship building ecosystem material management development in S4M project (www.s4m.fi/en) together with Meyer Turku Shipyard and their extensive supply network.

In the S4M collaboration we contribute to:

- Environmental regulation management for SMEs operating in EU, US, and global markets, helping companies navigate complex compliance landscapes.
- Product data management and traceability, both at the shipyard and across the supply network, ensuring transparency and quality throughout the lifecycle.
- Production and material flow control, with a focus on network-wide coordination and shipyard-level optimization.
- Preparation for GHG Scope 3 emission reporting, supporting supply network companies in building capabilities for carbon footprint transparency and accountability.
- Cost competitiveness research in shipbuilding and its supplier network, identifying factors that drive efficiency and value creation.
- Quality performance in multi-disciplinary and multicultural subcontracting chains, addressing challenges such as shared responsibility for regulatory compliance and traceability.

Through our applied research and close industry collaboration in S4M, we support the transformation of shipbuilding ecosystems toward smarter and sustainable network operations.

Call compatibility

HORIZON-CL5-2026-05-D5-12: Shipyards of the future

HORIZON-CL5-2026-06-D5-10: Disruptive Technologies and Innovative Concepts for Energy Saving Onboard of long-distance ships

As members of the Waterborne partnership and close collaboration with leading European shipyards as well as collaboration with smaller Southeastern shipyards makes us a good partners for collaboration. IM offers experienced academic research staff and practice-oriented expertise on industrial supply network management. Our research areas are operations management, project management, quality management, material logistics and supply network compliance management.

We can contribute on value chain cooperation and integration between equipment manufacturers and large, medium, and small-scale shipyards resulting in enhanced European competitiveness. Enhance capability and efficiency of European shipyards and equipment manufacturers to meet the increasing need to convert the shipping fleet towards zero-emission and biodiversity friendly maritime transport via management decision making in ship building supply network.

Get in touch



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A hand holding a red stethoscope over a heart model. The background is a light-colored, textured surface. The stethoscope is red with silver-colored tubing and a silver-colored chest piece. The heart model is red and appears to be made of a soft, pliable material. The hand is light-skinned and is holding the stethoscope's binaural part. The overall image has a warm, clinical feel.

School of Health and Well-being

Research Groups:

Advancing Supportive Cancer
and Palliative Care

New Ways of Promoting Performance

Mental Health promotion

Sexual and reproductive health

Social Inclusion and Active Citizenship

Developing Better Health Care in Hybrid World

Functioning and Activity from Infancy to Adolescence

Advancing Supportive Cancer and Palliative Care (CARE)

Research, development and Innovation (RDI) on cancer and palliative care

We provide expertise on applied and implementation research and development on the whole continuum of cancer and palliative care; from prevention to early detection, high quality care, survivorship and end-of-life as well as training and work environmental needs of social and health care professionals.

Our work includes developing people-centred care and services, enhancing the expertise and career paths of healthcare professionals and promoting digital and pedagogical innovations in healthcare. The group operates internationally and across disciplines, aiming to strengthen care quality, support rehabilitation and survivorship, and ensure holistic support for both people with cancer and their loved ones.

PMO will support us through all stages of project lifecycle

Our methods of RDI

We use mixed methods approaches on RDI in the cancer and palliative care setting. Our projects commonly integrates multiple approaches including contemporary care and pedagogical interventions. We are broadly networked, international and multidisciplinary applied research team.

Strengths of the CARE Research Group

Strength Area	Description
Comprehensive Care Continuum	Our interests, expertise and work cover all stages of cancer and palliative care, from prevention to end-of-life.
Applied Research	We conduct research that addresses real-world challenges and supports the implementation of evidence-based solutions in clinical practice, education, and health systems.
Interprofessional Collaboration	We are engaged with national and international partners, including universities and healthcare institutions.
Pedagogical Research	We develop educational models and career pathways for healthcare professionals.
Leadership Development	We promote authentic, transformational leadership in interprofessional contexts.
Digital Innovation	We implement and study digital tools to enhance care delivery and education.
EU-Level Impact	We are aligned with European health strategies, including Beating Cancer Plan and EU4Health programme.
Focus on Vulnerable Populations	We address the needs of young adults, older adults and other underrepresented groups in cancer and palliative care.

With expertise in various EU and other funding mechanism where the PMO will ensure a smooth process from the ideation to the closing of the project. Our expertise will also guide you through the project.



Call compatibility

HORIZON-MISS-2026-02-CANCER-07: Improve the Quality of Life of older cancer patients

CARE Research group has specific interest in this call to address the needs of vulnerable group of older adults affected by cancer. We are looking for partners interested in holistic supportive care interventions in improvement of QoL of older adults.

CARE research group works also in collaboration with other research groups in Turku UAS, such as Dignified Old age, Sexual and reproductive health (Search), Mental Health Promotion.

HORIZON-MISS-2026-02-CANCER-04: Earlier and more precise palliative care

We are interested in focusing on co-developed, scalable solutions that enhance timely access and evidence-based quality of palliative care. CARE can bring expertise in applied research and the implementation of person-centred early palliative care models, including psychosocial support, digital tools and interprofessional collaboration. Our partners include international and nationwide clinical, professional, and academic networks.

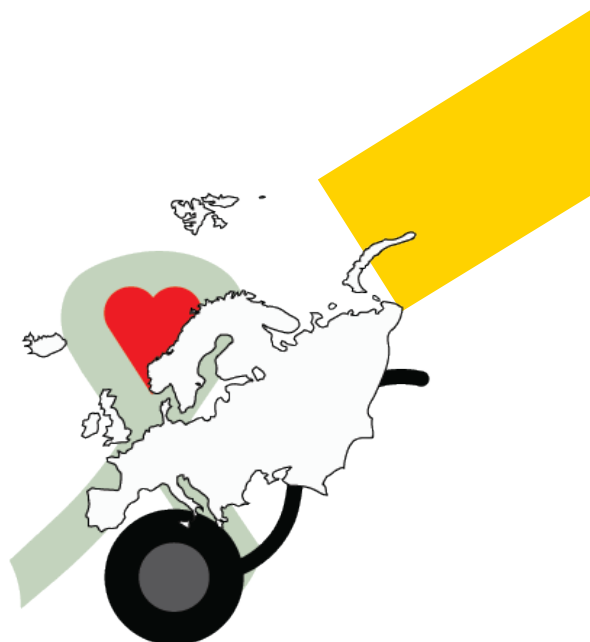
Get in touch



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CARE Research group
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More information
[**CARE Group**](#)





Mental Health Promotion

Through research, we promote the mental health service structure, mental health literacy and develop practices in a variety of subject areas both nationally and globally.

Mental health research is crucial for understanding disorders, developing effective interventions, and mitigating their societal impact.

To address gaps in prevention, access, and professional capacity in mental health and substance abuse care, the Mental Health Promotion Research Group leads research, development, innovation, and education initiatives. Its focus spans mental health promotion, substance use care, and capacity-building both nationally and internationally.

Mental Health Promotion's specific areas of interest are:

RDI in violence, aggression, mental health and substance abuse work and crisis preparedness

Collaboration with well-being counties, NGOs and other regional cooperation in primary and specialized care, including emergency services

RDI in mental health prevention and promotion

Through the lifespan of population, including vulnerable groups

RDI in education and professional development

Digitalisation, education & leadership in mental healthcare. Workforce capacity, expertise & career development

RDI in perinatal mental health and family care

Supporting mothers, significant others, families, communities and healthcare in perinatal period

Digital mental health

The group has a growing focus on the intersection of technology and mental health, leading projects that explore digital interventions, virtual reality-based support, and data-driven approaches to prevention and care.



Call Compatibility

HORIZON-HLTH-2026-01-STAYHLTH-02: Behavioral interventions as primary prevention for Non-Communicable Diseases among young people

The Mental Health Promotion Research Group specialises in youth-focused behavioural interventions, combining mental health literacy, digital self-monitoring, and community-based support. We have implemented and studied school-based interventions using virtual reality (e.g. Safe4Child) and mobile tools (e.g. Well@School) and led international research on mental health literacy among youth and professionals. Our strengths include co-creation, real-world data use, and interdisciplinary collaboration with educators, healthcare providers, and policymakers.

HORIZON-HLTH-2026-01-DISEASE-02: Innovative interventions to prevent the harmful effects of using digital technologies on the mental health of children and young adults

The Mental Health Promotion Research Group has experience in youth mental health, digital wellbeing, and co-created interventions with young people, families and educators. We have led projects such as Well@School and Safe4Child, developing digital and VR-based tools for mental health promotion in school settings, and can support clinical or cohort studies via access to schools and public health services in a large Finnish well-being county.

HORIZON-HLTH-2026-01-DISEASE-09: Multisectoral approach to tackle chronic non-communicable diseases: implementation research maximising collaboration and coordination with sectors and in settings beyond the healthcare system

The Mental Health Promotion Research Group offers expertise in system-level NCD research and real-world implementation within a large Finnish well-being county. We provide access to community settings beyond healthcare and support cross-sector collaboration for sustainable, equity-focused impact.

HORIZON-HLTH-2027-01-DISEASE-10: Prevention and management of chronic non-communicable diseases in children and young people

The Mental Health Promotion Research Group has led projects such as Well@School, MELODIC and eMama, focusing on mental health promotion and NCD prevention among youth in schools, young adults and families. We offer expertise in co-designed, scalable interventions and access to real-world implementation settings in Finland and LMICs through our broad international networks.

Get in touch

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More information
[Mental Health Promotion](#)





Call Compatibility

HORIZON-CL2-2026-01-TRANSFO-04: The impact of the use of digital tools outside school and for communication on educational outcomes and mental health

The Mental Health Promotion Research Group, has strong expertise in school-based mental health interventions and digital literacy research. Through EU-funded projects such as Well@School, Safe4Child and MELODIC, we have co-designed digital and VR tools with youth and educators to support emotional wellbeing and responsible digital engagement. We can contribute empirical research from Finnish school settings and facilitate stakeholder collaboration with educators, families and young people.

Expertise Area:

Target Groups: The Mental Health Promotion Research Group focuses on children, adolescents, young adults and families, including perinatal mental health. The group has specific expertise in working with vulnerable populations.

Research Themes: Key research areas include mental health promotion, prevention of NCD risk factors, mental health literacy, crisis preparedness, and the development of digital interventions.

Health & Social Care System Research: The group conducts system-level research across health, social and educational sectors, with strong collaboration within the Finnish wellbeing services county Varha.

Digital Solutions: The group has developed and piloted digital and VR-based tools in projects such as Safe4Child, MEGA, eMama and Well@School, targeting youth mental health and wellbeing.

Implementation Science: Research applies hybrid designs and established frameworks such as RE-AIM and CFIR to support real-world implementation in service and school environments.

Mixed Methods Research: Expertise includes both qualitative and quantitative methodologies, participatory research, and co-creation with youth, professionals and families.

Funding & Project Experience: The group has participated in multiple international projects under EU4Health, Horizon Europe and Erasmus+ programmes, with experience as both coordinator and partner.

Get in touch



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More information
[Mental Health Promotion](#)



New Ways of Promoting Performance

We develop and research well-being at work and leadership in the changing world of work. New ways of working, leadership, work performance and nature as part of promoting well-being at work are at the heart of what we do.

Work methods and tools are constantly evolving, and an increasing amount of work is carried out independent of time and place. This transformation poses challenges for individuals, teams, communities, and large organizations alike. As researchers, developers, and service providers, we actively contribute to shaping and supporting this change.

Working in changing world

Our roots lie in developing and researching new forms of work and methods that promote workplace well-being. We base our RDI activities on the premise that well-being at work is closely connected to everyday life, focusing on leadership practices that strengthen employee motivation and performance.

Workability

Our group collaborates with working life partners to implement various interventions that promote employees' workability. We approach workplace well-being from a positive psychology perspective, while also emphasizing the importance of physical workability.

Nature-based solutions

Nature-based sustainable solutions for promoting workplace well-being form our third area of focus. Green environments, sensory experiences, and the use of nature as a setting for well-being are at the core of the interventions we implement as part of our RDI activities



Call Compatibility

HORIZON-HLTH-2026-01-STAYHLTH-02: Behavioral interventions as primary prevention for Non-Communicable Diseases (NCDs) among young people

The NWPP research group brings strong expertise in implementing interventions and conducting implementation research focused on promoting healthy work behaviour among young people at the beginning of their careers. This includes enhancing work-life balance and supporting recovery from work-related strain – key factors in the prevention of many lifestyle-related, NCDs. NWPP also contributes to the development of (generative) AI-based solutions that promote workplace wellbeing and investigates how the application of AI technologies influences health-related behaviour in the context of work.

HORIZON-CL2-2026-01-TRANSFO-09: Persons with disabilities: opportunities for labour inclusion and social protection through the life course

NWPP brings strong expertise in creating inclusive work environments and leadership models that foster well-being and employability. We specialize in designing and implementing workplace interventions, including strategies to improve workability and nature-based, sustainable solutions tailored to diverse needs, such as those of persons with disabilities. With access to advanced RDI infrastructure, we are well-equipped to pilot and evaluate innovative models for inclusive employment and support systems across the life course.

HORIZON-NEB-2026-01-PARTICIPATION-03: Understanding inhabitant's experiences of neighbourhoods to support their health and well-being

The NWPP research group has expertise in applying nature-based environments across diverse communities. Our understanding of the eight human sensory systems and how they are stimulated in different natural settings offers a valuable perspective for this call. Sensory experiences play a crucial role in human well-being, and we actively contribute to planetary health and its reciprocal relationship with well-being.

Get in touch



Marion Karppi

New Ways of Promoting Performance

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Social Inclusion and Active Citizenship

We are a multi-professional RDI community in the field of social sciences. For us, promoting inclusion means involving citizens in the development of activities, rather than treating them as objects of action. Our expertise includes engaging immigrants, young adults, the elderly, and the unemployed, and developing solutions tailored to their needs.

Citizen engagement

Supporting the agency of individuals, groups and families is important to us. The aim of our RDI work is to enhance their participation in democratic decision-making, environmental stewardship, and active engagement in society. With our research we foster decision-makers' understanding of citizens' perspectives, while acting as a bridge between scientific knowledge and the civil society.

Inclusive methods

Characteristics of our methodology in RDI work

- Practice-oriented applied sciences valuing personal encounters utilizing co-creative and participatory methods
- utilizing digital solutions—such as AI, virtual reality, and gamification
- acting as an SSH partner also in technical fields
- producing practical guides, educational material and support services

Vulnerable target groups

We use participatory and service design methods to engage vulnerable groups, ensuring that their voices are heard in service developing processes where they are often excluded. Our expertise covers promoting agency and employment, strengthening community engagement, and developing peer support models to prevent social exclusion and foster active citizenship. Our research interest also covers wider societal and systemic aspects of vulnerability.

Supporting multicultural integration

In our RDI projects, we have collaborated closely with immigrant communities and civil society to co-create practical, evidence-based solutions. We are interested in doing research on integration at the level of individuals, communities and society.

A top-down view of three children sitting on a paved surface, drawing colorful chalk art. One child in a yellow shirt is at the top, another in a red shirt and blue overalls is on the left, and a third is on the right. The pavement is covered with various colorful lines and shapes drawn in chalk.

Call Compatibility

HORIZON-CL2-2026-01- DEMOCRACY-09: Lifelong learning of citizenship education and citizen participation

Our approach is to develop solutions together with civil society to provide decision-makers and educators with tools that citizens themselves find meaningful. Our methods bring generations together and facilitate knowledge transfer as part of lifelong learning, leading to an understanding and respect for diverse values and perspectives. With our tools we can offer inclusive insight how democracy is experienced in different citizen groups and communities.

Get in touch



Hanna Kirjavainen

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Social Inclusion and Active Citizenship

HORIZON-CL2-2026-01- TRANSFO-06: Making Europe a global magnet for talent - Attracting and retaining students, researchers and high-skilled workers from outside the EU.

With a significant proportion of international students, we provide a strong foundation for examining the gap between the stated need for international labor and the actual capacity of individuals, organizations, society, and EU labor markets to absorb it. Key strengths of our research group are 1) our deep knowledge of employability in social and health care sectors 2) direct insight to the enablers and barriers of international workers. These allow us to identify success factors for creating an attractive EU labor market.



Call Compatibility

HORIZON-CL2-2027-01-TRANSFO-01: How does access to nature-positive environments promote social cohesion and reduce inequalities in urban and peri-urban settings?

Our research group is interested in exploring how different citizen groups perceive nature and its role in well-being. Natural environments can reduce inequality by providing cost-free opportunities to enhance quality of life, as supported by Finland's "Everyman's Right." Nature faces pressures from changing environments and competing land-use demands, which can create conflicts with natural values and other interests and compromise the ability to benefit from nature's well-being effects. We have expertise in fostering constructive dialogue among diverse interest groups to find balanced solutions.

HORIZON-CL2-2027-01-TRANSFO-07: Persons with disabilities: opportunities for labour inclusion and social protection through the life course

In our RDI work related to people with disabilities we have wide experience in collaborating with third sector organisations and social enterprises. We are interested in conducting research on systemic challenges and implementing person centered interventions. Our aim is to strengthen the agency and employment pathways of the individuals and to advance tolerance, openness, and trust across work communities and labor market.

Get in touch



Hanna Kirjavainen

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Social Inclusion and Active Citizenship



Sexual and reproductive health – SEARCH

We promote sexual and reproductive health through high quality national and international education, research and development. Our aim is to increase understanding and develop practices on sexual and reproductive health issues that are socially and globally important.

Sexual and reproductive health is a multidisciplinary research area, and we operate extensively in national and international networks. We are also pleased to cooperate with new partners.

Key Research Areas:

1

Education, research and development of sexual health at different stages of life

- The development of and support for sexuality
- Promoting and supporting sexual rights and equality
- Sexual health at different ages

2

Education, research and development of reproductive health promotion

- Promoting fertility awareness
- Right to safe and high-quality family planning, pregnancy and childbirth and postnatal care

3

Developing and supporting the sexual and reproductive health skills and work of current and future professionals

4

Utilizing the potential of technology in sexual and reproductive health research and development



Call Compatibility

HORIZON-CL2-2026-01- DEMOCRACY-01: Understanding and addressing gender-based violence against politically active women and LGBTIQ people

The Sexual and Reproductive Health Research Group (SEARCH) conducts high-impact research focused on women's health, gender-based violence (GBV), and sexual and reproductive health. We bring together expertise from health, social work, education, and human rights to address complex challenges across diverse populations. Our experience includes projects developing evidence-based interventions, creating digital educational resources, and promoting culturally sensitive care. We have strong experience in qualitative and mixed-methods research, stakeholder engagement, and co-creation to ensure relevance and impact. Additionally, we have experience in advancing professional competences in gender and sexual diversity, improving equality and accessibility of services, and informing policy through research-based recommendations.

Tiina Murto

Tiina.murto@turkuamk.fi

**Sexual and
reproductive health –
SEARCH**

Expertise Areas:

- Gender-based violence research and its intersection with health and social care
- Qualitative and mixed-methods research on sensitive topics and vulnerable populations
- Development of digital training and educational tools

With a strong track record in applied research and cross-sector collaboration, SEARCH offers both research excellence and practical solutions to support impactful outcomes at national and international levels.

Get in touch





FAIA – Functioning and Activity from Infancy to Adolescence

As a research group, we promote actions that increase the physical activity and functional capacity of children, young people, students and their families through systems-level development and research. Our work is guided by translational and implementation research methods.

“We are committed to ensuring that children grow into healthy, resilient adults with full work and functional capacity”

Our priorities are:

Activities that promote health, social relationships and learning through healthy physical activity

Developing environments and utilizing technologies that promote physical activity and functional capacity.

A central methodology we apply in our research and development activities is implementation research, combined with participatory design involving target groups in the development process.



Call Compatibility

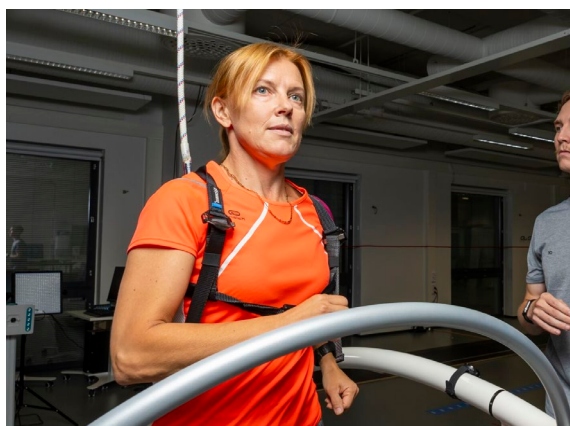
HORIZON-HLTH-2027-01-STAYHLTH-01: Addressing disabilities through the life course to support independent living and inclusion

We develop evidence-based interventions, adapted physical activity models, and technology-supported solutions to enable independent living for children and youth with disabilities including neurodiverse population. Our approach combines systemic development, multi-sector collaboration, and digital innovation to create inclusive environments and personalized support strategies

HORIZON-HLTH-2027-01-DISEASE-10: Prevention and management of chronic non-communicable diseases in children and young people (GACD)

We design and implement evidence-based interventions combining physical activity and inclusive environments, supported by digital tools and wearable technologies for personalized health monitoring. Our expertise in translational research and multi-sector collaboration ensures scalable solutions that improve long-term health outcomes and reduce disease risk across diverse populations

Get in touch



Niina Katajapuu

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FAIA – Functioning and Activity from Infancy to Adolescence



Call Compatibility

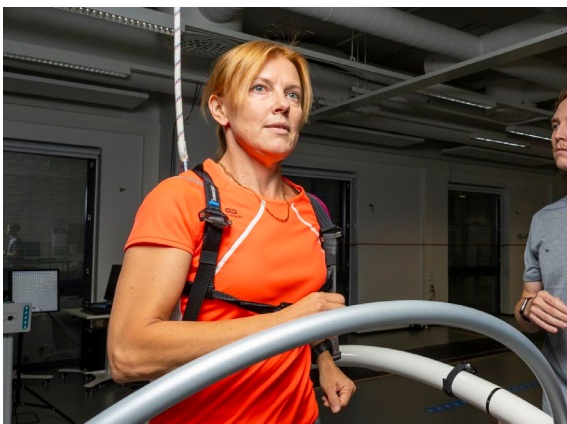
HORIZON-MISS-2026-02-CANCER-04: Earlier and more precise palliative care

We bring expertise in functional capacity assessment, technology-supported interventions, and inclusive care models for children and youth with cancer. Building on collaboration with Turku University Hospital, we can contribute to developing personalized, early palliative care pathways that integrate physical activity, psychosocial support, and digital monitoring tools. Our approach emphasizes patient-centered solutions and multi-sector collaboration to improve quality of life and independence during palliative care

HORIZON-MISS-2026-02-CANCER-05: Boosting mental health of young cancer survivors through the European Cancer Patient Digital Centre (ECPDC)

Building on the projects focusing on mental health and physical activity in children with cancer, we can contribute to developing digital tools and personalized programs that enhance mental health, resilience through psychophysiological approach among young cancer survivors. Our approach integrates physical activity, social inclusion, and digital engagement to support long-term recovery, emotional regulation, and overall quality of life.

Get in touch



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FAIA – Functioning and Activity from Infancy to Adolescence



Our Lab Liilab – Sports and functional capacity laboratory

Physiotherapy and fitness testing services for individuals and organisations

The Sports Laboratory offers versatile services for assessing and promoting physical activity and performance.

The Sports Laboratory is a training environment for physiotherapy students, where they assist you under the guidance and supervision of a physiotherapist specialised in physical activity.

Our services

- Physiotherapy and sports physiotherapy
- Firstbeat wellbeing analysis
- Fitness testing
- Endurance test with a bicycle ergometer
- Running endurance test
- Step analysis
- Functional Movement Screen
- Muscle strength testing
- Muscle balance testing
- Speed, agility and explosive power
- InBody scan

For athletes, runners, lifters – for everyone

We offer tailored tests such as body composition analyses, endurance tests and motion analyses to help you achieve your personal fitness goals. The results help you improve your training, track your progress, and improve your wellbeing.

For clubs, work communities and organisations

We offer organisations and clubs wellbeing events and group analyses to optimise exercise programs, improve performance and prevent sports injuries. Our services are suitable for people training on all levels and offer valuable information at individual and group levels for sports clubs, companies and hobby groups. With the support of our experts, you can **optimise your training, prevent injuries and improve results** at both individual and group level. Our services are suitable for people of all ages and levels and support result-oriented improvement.

We also organise tailored **wellbeing events for companies and organisations** as student work. Events may include tests, break exercise, information sessions, massages or other activities.

We can carry out tests and provide guidance outside the laboratory in the customer's premises, for example in sports halls.



Developing Better Health Care in the Hybrid World

We promote the expertise of healthcare professionals and better care for patients and clients through research and development activities.

We focus especially on hybrid operating methods and the opportunities offered by digital methods.

Our priorities are:

1. High-quality and safe nursing

We promote the quality of nursing and patient safety by developing, testing and evaluating new methods together with our partners. We focus, but are not limited to, leveraging digital solutions.

2. Digital learning environments (simulation and XR technology)

We develop, test and evaluate learning environments using simulation and XR technologies.

3. Professional development and ethical competence

We promote ethical competence among nursing professionals and assess the ethical aspects of solutions developed within projects.



Call Compatibility

HORIZON-MISS-2026-02-CANCER-04: Earlier and more precise palliative care

We bring expertise in caring for seriously ill children and supporting those with cancer or cancer survivors. We collaborate with pediatric hematology departments in university hospitals. Together with our networks, we can contribute to developing family- and child-centered interventions and integrating them into care pathways. In addition, we evaluate the implementation of new models.

HORIZON-HLTH-2027-01-DISEASE-10: Prevention and management of chronic non-communicable diseases in children and young people (GACD)

Our team develops and evaluates interventions, including digital solutions, to promote the health of children and young people. We offer competence in implementation research for scaling solutions to new contexts and support professionals working with children in adopting these interventions.

HORIZON-HLTH-2026-01-STAYHLTH-02: Behavioral interventions as primary prevention for Non-Communicable Diseases (NCDs) among young people

Our team has extensive experience working with children affected by non-communicable diseases. We develop and test child-focused, evidence-based interventions and study their implementation and impact. We focus, but are not limited to, leveraging digital solutions.

Get in touch

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[Developing Better Health Care in the Hybrid World](#)





School of Business and competence development

Research Groups:

Entrepreneurship and Value Creation

Resilient Supply Chain Management

Renewing Competence



Entrepreneurship and Value Creation

We support companies in business development and sustainable value creation. We promote entrepreneurship and entrepreneurial skills through continuous learning and update the skills of entrepreneurs through a variety of methods. We study business models and the impact of the digital green transition on the operations of SMEs.

EVC is a multidisciplinary research group that comprises team members with a background in the industry, business and entrepreneurship research, cultural studies, information sciences, and political sciences. These core competencies are complemented by a large pool of experts (e.g. marketing, finance) at our disposal in the Faculty of Business in Turku UAS.

The interdisciplinary composition of our team and experience in working across engineering and natural sciences makes us an excellent fit for technological projects that need SSH integration.

We are an experienced project management group with decades of international collaboration in Europe, Asia, and Africa.



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Deputy Research Group Leader
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PhD Ritva Hyttinen

Deputy Research Group Leader
Entrepreneurship and Inclusion
Africa Collaboration

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Call compatibility

HORIZON-CL4-2027-01- MATERIALS-PRODUCTION-03: Factory processes and automation for de- and re-manufacturing (RIA)

The topic is highly relevant to EVC. Our team is particularly interested in the human and business factors that enable and restrain organizations during the implementation of new sustainable production processes. EVC is leading two interdisciplinary national projects on re-manufacturing with significant industry collaboration (e.g. [SuFiRe](#) and [ReMaFIN](#))

HORIZON-CL4-2026-01- MATERIALS-PRODUCTION-41: Enhancing industry-academia knowledge exchange in Social Sciences and Humanities

EVC is an active member of the European Alliance for Social Sciences and Humanities, which aims to emphasize the depth and breadth of SSH and their usefulness in multiple sectors. We are particularly relevant where promoting human-centric business is crucial.

Such integration requires the integration of SSH in sectors where it tends to be absent. We have a decade of experience in, for example, integrating SSH with engineering research.

HORIZON-CL2-2027-01-HERITAGE- 03: Crafting routes to a circular economy

EVC can contribute to a consortium through our long history of working and developing SMEs innovation and sustainability knowledge. We are currently managing several projects that relate to developing innovation capabilities in small regional businesses. Combined with our projects on sustainability in manufacturing, we can offer a diverse set of skills and a network of collaborative businesses.

Get in touch



**PhD Annette
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Research group Leader
Innovation and SME growth

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Renewing Competence

Research, Development and Innovation on skills anticipation, recognition of prior learning and competence development across three learning contexts.

1. **Formal education**, including expertise in transversal skills development and frameworks, linguistic and cultural diversity, pedagogical well-being and guidance.
2. **Non formal education**, including expertise in recognition of prior learning and the development of workplace learning cultures.
3. **Continuous learning**, including expertise in future competence profiles, skills anticipation, and the use of micro-credentials and digital Open Badges.

Our focus areas form ecosystem that supports individuals and organizations in adapting to evolving skill demands across diverse learning environments.

RDI methods, environments and experts

Our activities are grounded in practice-based research, authentic environments, and close collaboration with working life.

Based on these, we can engage a large number of actors in developing and testing.

By producing practical and evidence-based understanding of competence developments, we also offer support for pedagogical leadership and strategic decision-making across organizations.

The strength of our research group lies in the multidisciplinary expertise of its members. The activities of our research group combine field-specific expertise and diverse pedagogical competence with the strong project and funding expertise.

Renewing Competence research group empowers individuals and organisations to thrive in continuous learning and evolving professional environments.



Call compatibility

HORIZON-CL2-2026-01-DEMOCRACY-09: Lifelong learning of citizenship education and citizen participation

Europe is missing a validated competence framework for democracy education and training, with different levels of knowledge, skills and attitudes. We have experience in multiple framework validation and development approaches in different educational contexts.

We can contribute to development of a competency framework by:

- testing in authentic learning environments involving large numbers of learners.
- engaging different stakeholders in development processes
- considering the contextual characteristics of stakeholders in supporting their agency and involvement
- validating the framework by using practice-based design and multiple quantitative and qualitative methods.

We have extensive experience in the whole process of putting into practices in new competence framework in education institution level, including curricula, teaching and learning methods, assessment criteria and learning management systems. Development of the innovation competence framework has given us insight how to equip students, teachers, and heads of education making the strategic and systematic educational reform.

HORIZON-CL2-2026-01-TRANSFO-07: Fostering competences for the green transition

Parallel to previous description of our expertise and interests; our expertise covers competence development for the green transition. Additionally, we can contribute to RDI approaches in upskilling and reskilling workforce and experts.

HORIZON-CL2-2026-01-HERITAGE-06: Safeguarding linguistic diversity in Europe

Language plurality is key element in safeguarding European culture and values. We would like to examine content and language integrated learning (CLIL) in cross-border contexts, combining virtual and physical learning environments with intensive learner mobility models. With this approach, we would like to study whether engagement with authentic, contextual learning affordances can facilitate learner motivation and engagement in learning foreign languages. In this model, we would also like to advance language plurality, through engagement in multi-language settings.

Get in touch

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Research group leader
Renewing Competence





Resilient Supply Chain Management and Logistics

We develop flexible, resilient and sustainable supply chains for the flow of products and services from raw materials to the end customer.

A resilient supply chain is flexible, adaptable and resilient to disruptions and different kind of hazards.

It is able to adapt quickly to changes in the operating environment.

Our research and development work in the supply chain is particularly focused on:

The demand needs of companies, purchase, transport and mobility, storage, cooperation between different actor of supply chain management, energy in supply chain management, electrification of transport especially heavy traffic, urban planning linked with urban mobility and last and first mile solutions.

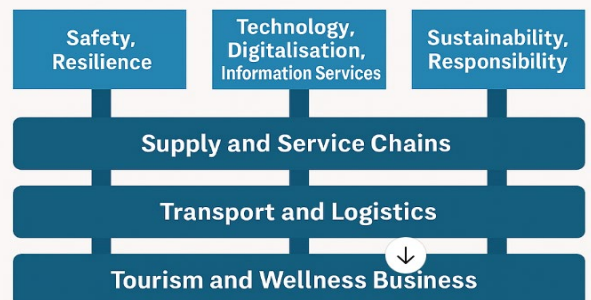
Example of our previous EU project:

The conversion issues of diesel rolling stock. Would it be possible to accelerate the electrification of heavy-duty vehicles by developing the conversion of old diesel rolling stock to electric power?

The focus is on technical, economic, business, environmental and electricity infrastructure issues

RESILIENT SUPPLY AND SERVICE CHAINS

FOCUS AREAS AND CROSS-CUTTING THEMES



”

Effective management of different aspects of the supply chain is key to ensuring business flow, customer satisfaction and cost-efficiency, as well as accelerating the green transition. Supply chain management is a key factor in the quality of daily life.

- **Material flows: Operational and Logistical Priorities in Supply Chain**
- **Sustainable and Green Energy Solutions**
- **Strategic and Administrative Development of the Supply Chain**
- **Real Estate Development and Value Creation, Due Diligence**
- **Tourism and Well-Being as Special Area of Interest**



**HORIZON-CL4-2027-01-
MATERIALS-PRODUCTION-22:**
Innovative advanced materials
and new production processes –
reducing dependencies on
Critical and Strategic Raw

**HORIZON-CL4-2026-01-
MATERIALS-PRODUCTION-44:**
Attracting management talent
for capacity building for
Technology Infrastructures staff
members

Resilient Supply Chain Management &
Logistics Research Group will provide
knowledge and expertise about the human
factor in logistics and supply chain on raw
materials and development the
management.

HORIZON-CL5-2026-10-D6-06:
Increasing competitiveness and
resilience of multimodal freight
transport and logistics for
competitive supply chains.

HORIZON-CL5-2027-03-D5-05:
Higher Voltage, Megawatt
Charging System Modular
powertrain for Heavy Duty
Vehicles

Resilient Supply Chain Management &
Logistics Research Group can provide large
scale knowledge linked in electrification in
transport chain and recharging of heavy
trucks.

Get in touch

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More information
[Resilient Supply Chain Management
and Logistics](#)



A group of students are seated at a long white table in a modern, brightly lit lab or classroom. They are focused on their laptops and tablets. In the foreground, a male student with a beard, wearing a dark blue hoodie and a black beanie, is looking intently at his laptop. Behind him, several other students, including a female with blonde hair and a male with a green beanie, are also working. The background shows shelves with various items and a green wall.

Our Lab Sales Academy

Sales and marketing student projects

The Sales Academy is a learning environment that provides support for your business to develop sales and marketing.

At the Sales Academy, we cultivate tomorrow's top sales and marketing talent. Engineering and business students work in the learning environment under the guidance of teachers.

Our services include:

- Reforming the sales process and buyer's journey
- Customer acquisition and telemarketing campaigns
- Customer satisfaction surveys
- Productisation and new product launch
- Market research
- Competitor analysis
- Marketing plan
- Planning and implementing a marketing campaign
- Marketing materials and visual design
- Social media marketing
- Event production and fairs
- Website content design



Arts Academy

Research Groups

Art education and pedagogy

Arts, Health and Well-being

Film and Media

Contemporary Art

Call compatibility

Art education and pedagogy

We are a developer and implementer of interaction, engagement, and group-oriented working methods – at the core of our activities are diverse communities and their needs.

Art education and art pedagogy group focuses on:

- art-based processes in collaboration with diverse individuals and communities
- fostering inclusion and integrating environmental perspectives on group-oriented approaches
- art in new contexts

HORIZON-NEB-2027-01- PARTICIPATION-01: The transformative potential of inclusive co-governance in the green transition of neighborhoods

- We promote multi-level participation and strengthen community resilience through art-based approaches
- We engage cultural actors in a field of performing arts
- We harness the power of art to shape identities and strengthen communities across life stages and transitions

Get in touch

Mervi Rankila-Källström
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+358505985230





Call compatibility

Photo: Culture and Health Forum, Turku 2025.

Research group Arts, Health and Well-being

Partnering for Culture, Arts and Health
in Horizon Europe

We offer our research group as a
consortium partner or coordinator for
Horizon Europe projects under

We support evidence-based practices and
interprofessional cooperation across culture,
health, social and education sectors. We
foster connections between education,
practice and research.

We are committed to advancing the
transformative role of culture and the arts in
health and social systems across Europe.

Get in touch

HORIZON-CL2-2027-01- HERITAGE-04: Culture, heritage and creative industries for health and well-being

Our expertise includes:

- **Capacity building** in arts and health through multidisciplinary, accessible, and arts-based practices.
- **Network, communication and knowledge development** to support systemic change.
- **Impact evaluation and applied research** for evidence-based policy and implementation.
- **Experience in arts-on-prescription** models.

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Call compatibility

Research group Film and Media

We look for innovative solutions for media industry transformation.

Film and Media research group focuses on:

- New ways of expressive storytelling.
- Virtual and AI content production methods.
- Role of media in innovation and development.

HORIZON-CL2-2026-01- HERITAGE-03: AI integration in CCSI work practice: catalysing innovation and competitiveness

We support competitiveness of the media industry.

We develop film education for virtual production.

We research the emotional impact of media.

HORIZON-CL2-2026-01- DEMOCRACY-04: Sustainable paths to media viability

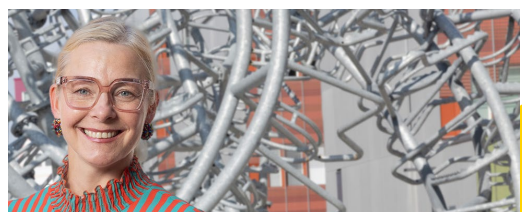
We develop sustainable media education.

We research the future of journalism.

We support media for equality.

We advocate media for democracy.

Get in touch



Milla Järvi
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Media for meaningful art and culture

We are looking for projects with
Socially conscious partners,
Meaningful goals,
Sustainable innovations,
Forward-looking approaches, and
Practical applications.



Call compatibility

Contemporary Art Research group

Contemporary Art Research Group creates tools for a creative, democratic future. In our projects, we combine art and research, technological innovations, and social responsibility to provide a platform for experimental knowledge production. Our core expertise is in practice-based work guided by critical, inclusive, and humane dialogical processes.

What art brings to the table?

Art has a fluid ability to combine or fuse knowledge from many fields of expertise.

We can provide various art-based research and co-creation workshops, use artistic methods to reveal new perspectives on the job at hand, and launch critical discussions to strengthen the inclusion of on-going processes.

Publishing structures like exhibitions, performances, and open workshops include audiences actively in the process. We are fostering an experimental, warm-hearted, and hands-in-the-dirt attitude in our projects.

Get in touch

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HORIZON-CL2-2027-01- HERITAGE-03: Crafting routes to a circular economy

We structure and facilitate a series of cross-disciplinary co-working labs to study and develop material upscaling from waste to finished products of art and design. Our focus is to rethink the role of craft as a vehicle to promote the principles of circular economy in people's everyday life. The process will produce a set of scalable learning modules that include the roles of communities, craft and regenerative practices as well as local networking and reclaiming agency in the shift towards a more sustainable future. In co-operation with waste management facilities, we will structure pilots for low-key access for citizens to access reusable materials for arts and crafts purposes.

HORIZON-CL2-2026-01-HERITAGE- 01: "Artistic intelligence": harnessing the power of the arts to address complex challenges, enhance soft skills and boost innovation and competitiveness competitiveness

We develop a model for Work Community Artist to bring experimental creative procedures tangible in the center of workplaces. The Work Community Artist facilitates a creative hub that fosters and studies the role of creativity in the workplace and offers the community the opportunity to experience their work from an artistic point of view. We will study a wide range of artistic inclusions ranging from artists independent working within the community, to cross-disciplinary co-working. The pilots are executed in different kinds of working environments and the results for the community are analyzed and measured.