



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

Tetiana Fedoniuk

Position

Head of Educational and
Scientific Center of
Agriculture, Natural
Resources and Bioeconomy

Organization

Polissia National University

Email

tanyavasiluk2015@gmail.com



Personal Link(s)

<https://orcid.org/0000-0002-6504-0893>

<https://www.scopus.com/authid/detail.uri?authorId=57213817165>

<https://www.linkedin.com/in/tetiana-fedoniuk-7b2823182/>

https://researchgate.net/profile/Tetiana-Fedoniuk?ev=hdr_xprf

<https://scholar.google.com/citations?hl=ru&user=UAb4YhoAAAAJ>

Your Target Calls/Topics

HORIZON-CL6-2026-01-CIRBIO-07 Advancing the European Bio-Based Innovation Enabled by Biotechnology and Biomanufacturing Concepts

HORIZON-CL6-2027-02-FARM2FORK-01-two-stage Strengthening plant health: addressing emerging plant pest risks

HORIZON-CL6-2026-2027-01-CIRCBIO-09 Increasing the circularity of bio-based sector: upcycling and recycling for higher value and environmental benefits

Your expected contribution to the project/consortium

PNU will contribute expertise in circular bioeconomy, biomass valorisation, soil health and sustainable agriculture. We can support the development and demonstration of biotechnology-enabled solutions for converting agricultural residues, organic waste streams and underutilised biomass into high-value bio-based products. Through our network of farmers, SMEs, municipalities and research organisations, PNU can provide pilot sites, stakeholder engagement and real-life validation environments in Ukraine. Our experience in Horizon Europe projects, digital agriculture, remote sensing and environmental monitoring will support data-driven assessment of environmental, economic and social impacts, facilitating the uptake and scaling-up of innovative circular bio-based solutions.

The current TRL of your research or technology

TRL 4-6: Development / proof of concept / laboratory testing

TRL 7-9: Pilot scale / demonstration / deployment

Your expected role in the project

Work Package Leader, Partner

Biography (200~300 words)

Prof. Tetiana Fedoniuk is Head of the Educational and Scientific Centre for Agriculture, Environment and Bioeconomy at Polissia National University (Ukraine) and a Professor of Ecology. She holds a Doctor of Agricultural Sciences degree and has over 20 years of experience in environmental sciences, sustainable agriculture, biodiversity conservation, ecosystem restoration and digital environmental monitoring.

Her research focuses on soil health, agroecology, ecosystem restoration, climate adaptation, GIS and remote sensing applications, biodiversity monitoring, and sustainable land management. In recent years, she has been actively involved in the development of innovative approaches for environmental recovery and the integration of digital technologies into agricultural and ecological systems. Prof. Fedoniuk has extensive experience in European research and innovation programmes. She currently serves as Country Leader in the Horizon Europe project AGROSUS (101084084), focused on agroecological strategies for sustainable weed management, and as Coordinator of POLIDIH (101191240), a European Digital Innovation Hub funded under the Digital Europe Programme. She has also coordinated and participated in several national and international projects related to geospatial technologies, sustainable agriculture, environmental monitoring and digital transformation.

Between 2024 and 2025, she served as the Ukrainian National Contact Point for Horizon Europe Cluster 6 (Food, Bioeconomy, Natural Resources, Agriculture and Environment), supporting international cooperation and strengthening Ukraine's integration into the European Research Area. She is actively involved in science-policy initiatives and contributes to national recovery, sustainability and innovation strategies. Prof. Fedoniuk is particularly interested in building international partnerships in the fields of soil health, bioeconomy, biotechnology, ecosystem restoration, digital agriculture and sustainable recovery of war-affected environments.

Research Area / Interests (+-10 lines)

Research Areas and Expertise

- Soil health, soil degradation and restoration
- Agroecology and sustainable agricultural systems
- Circular bioeconomy and biomass valorisation
- Ecosystem restoration and post-disturbance recovery
- Restoration of war-affected and contaminated environments
- GIS, remote sensing and environmental monitoring
- Digital agriculture and geospatial decision-support systems
- Biodiversity conservation and landscape ecology
- Climate change adaptation and nature-based solutions
- Key expertise and achievements
- Coordinator of the Digital Europe project POLIDIH and Country Leader of the Horizon Europe project AGROSUS
- Extensive experience in multi-actor approaches, stakeholder engagement and Living Lab methodologies
- Development of geospatial platforms and digital tools for environmental monitoring and agricultural decision-making
- Expertise in soil restoration, sustainable land management and environmental recovery planning
- Author of more than 150 scientific publications and contributor to science-policy initiatives in Ukraine and the European Research Area
- Co-inventor of a patented Earth Observation data receiving station and developer of innovative GIS-based monitoring solutions
- Strong experience in Horizon Europe proposal development, consortium building and international research cooperation

Motivation, Expectation and Plan

My primary motivation for participating in the Korea–EU Horizon Europe Researchers Networking Forum is to establish new strategic partnerships between Ukrainian, European and Korean research organisations and to explore opportunities for joint participation in Horizon Europe projects. As a researcher and project coordinator actively involved in Horizon Europe and Digital Europe initiatives, I am particularly interested in building collaborations in the fields of soil health, agroecology, biotechnology, circular bioeconomy, digital agriculture and ecosystem restoration.

Through this networking opportunity, I aim to identify complementary expertise, exchange knowledge on innovative technologies and discuss potential cooperation within upcoming Horizon Europe calls. I am especially interested in connecting with partners working on biotechnology-enabled innovation, sustainable food systems, environmental monitoring, nature-based solutions and recovery of degraded ecosystems.

Following the event, I plan to initiate bilateral meetings with potential partners, develop joint project concepts, explore opportunities for researcher mobility and institutional cooperation, and prepare collaborative proposals under Horizon Europe. I also expect to establish long-term cooperation agreements between PNU and Korean and European institutions, contributing to stronger international research and innovation networks and supporting Ukraine's integration into the European Research Area.



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

Elena Simina LAKATOS

Position

CEO

Organization

Institute for Research in
Circular Economy and
Environment "Ernest Lupan"

Email

simina.lakatos@ircem.ro

**Personal Link(s)**

<https://www.linkedin.com/in/elena-simina-lakatos-323a7650/>

Your Target Calls/Topics

HORIZON-CL3-2026-01-DRS-01 Designing new ways of risk awareness and enhanced disaster preparedness

HORIZON-CL3-2026-01-INFRA-03 Targeted innovative capabilities for the resilience of critical entities to natural and human-induced disasters, including hybrid scenarios

HORIZON-CL3-2026-01-FCT-06 Prevention and mitigation of misuse of synthetic biology for bioterrorism purposes

HORIZON-CL6-2026-01-BIODIV-06 Boosting agrobiodiversity for food security and sustainable competitiveness

HORIZON-CL6-2026-01-CIRBIO-07 Advancing the European Bio-Based Innovation Enabled by Biotechnology and Biomanufacturing Concepts

HORIZON-CL6-2027-02-FARM2FORK-01-two-stage Strengthening plant health: addressing emerging plant pest risks

HORIZON-CL6-2026-2027-01-CIRCBIO-09 Increasing the circularity of bio-based sector: upcycling and recycling for higher value and environmental benefits

Your expected contribution to the project/consortium

The Institute for Research in Circular Economy and Environment "Ernest Lupan" (IRCEM) expects to contribute to the consortium by bringing strong expertise in circular economy, environmental sustainability, bioeconomy, stakeholder engagement and capacity building. IRCEM can support the development of project activities related to circular business models, resource efficiency, upcycling and recycling strategies, agrobiodiversity, sustainable value chains, climate resilience, risk awareness and community preparedness.

IRCEM's added value lies in its ability to connect research, policy, business and civil society actors, especially in Romania and Central-Eastern Europe. Within a future consortium, IRCEM can contribute to stakeholder mapping, multi-actor engagement, co-creation workshops, training programmes, dissemination and communication activities, policy recommendations, exploitation strategies and replication plans. IRCEM can also support the identification and mobilisation of relevant local and regional actors, including public authorities, SMEs, NGOs, clusters, educational institutions and community organisations.

Depending on the specific project topic, IRCCEM is prepared to lead or contribute to work packages focused on circular economy assessment, societal acceptance, awareness raising, behavioural change, policy support, knowledge transfer and impact maximisation. We can also provide access to Romanian and regional case studies, support pilot validation activities, organise local stakeholder consultations and contribute to the design of practical solutions that can be replicated in other European regions.

IRCCEM's objective is to act as a reliable and impact-oriented partner, helping the consortium translate research and innovation results into practical, policy-relevant and socially accepted solutions that support Europe's transition towards a more circular, resilient and sustainable economy.

The current TRL of your research or technology

TRL 1-3: Fundamental / exploratory research

TRL 4-6: Development / proof of concept / laboratory testing Transporte

Your expected role in the project

Project Coordinator, Work Package Leader, Partner

Biography (200~300 words)

Dr. Eng. Ec. Elena-Simina Lakatos, Senior Researcher I, habil., is the General Director and Senior Scientific Researcher at the Institute for Research in Circular Economy and Environment "Ernest Lupan" (IRCCEM), Romania. She is one of the leading national and European experts in the fields of circular economy, bioeconomy, and the green transition. With more than a decade of experience at the intersection of research, public policy, and innovation, she has made significant contributions to the development and implementation of circular economy strategies, governance frameworks, and applied instruments at local, national, and European levels.

Her work focuses on evidence-based public policies, multi-level governance, circular and low-carbon business models, sustainable energy systems, climate resilience, and green-blue infrastructure. She has advanced expertise in life-cycle assessment tools, including LCA, PEF, and TEA, as well as in the EU Taxonomy and the Do No Significant Harm principle, ESG/CSRD reporting, circular public procurement, and industrial symbiosis, with applications in the construction, agri-food, energy, and waste management sectors.

Dr. Lakatos is actively involved in major European programmes, including Horizon Europe, Interreg Europe, the Interreg Danube Region Programme, Romania's National Recovery and Resilience Plan, and Erasmus+, where she has held roles as project manager, work package leader, and scientific coordinator. Her work has addressed topics such as the circular economy, sustainable food systems, hydropower refurbishment, energy self-sufficiency, and climate change adaptation. She has also contributed to the development of Romania's National Circular Economy Strategy and Action Plan.

In parallel, she is a PhD supervisor in Engineering and Management in Agriculture and Rural Development at the University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca and has served as an associate lecturer at the Technical University of Cluj-Napoca. She is a recognised evaluator for European and national research and innovation programmes, a member of European Commission advisory structures, and Chair of the ASRO/CT 398 Technical Standardisation Committee on Circular Economy. Her current interests focus on accelerating the implementation of the circular economy through standardisation, digitalisation, and systemic innovation in support of climate neutrality and the Sustainable Development Goals.

Research Area / Interests (+10 lines)

Circular economy, bioeconomy, LCA, LCC, GHG, low-carbon technologies, CCUS, circular economy standardisation, green transition, evidence-based public policies, multi-level governance, industrial symbiosis, circular settlements, green-blue infrastructure, climate resilience, energy efficiency, digital product passport, EU Taxonomy and DNSH, PEF/TEA, circular public procurement, ESG and CSRD reporting, Scope 1–3 carbon accounting, circular construction materials, materials passport, BIM and digital twins, eco-design and reparability, waste management and EPR, social economy, nature-based solutions, living labs and co-creation.

Motivation, Expectation and Plan

The Institute for Research in Circular Economy and Environment “Ernest Lupan” (IRCEM) is motivated to participate in this event in order to identify strong partners from Korea and build competitive consortia for upcoming Horizon Europe calls in the fields of circular economy, bioeconomy, agrobiodiversity, climate resilience, disaster preparedness and sustainable innovation. As an organisation dedicated to accelerating the transition towards circular and environmentally responsible models, IRCEM sees this networking opportunity as a strategic step to connect its expertise in stakeholder engagement, policy support, capacity building, circular business models and regional ecosystem mobilisation with complementary technical and scientific expertise from across World.

Through this event, IRCEM aims to identify partners for concrete project ideas related to the circularity of bio-based sectors, upcycling and recycling, agrobiodiversity for sustainable food systems, bio-based innovation, risk awareness and disaster preparedness. We are particularly interested in meeting universities, research organisations, technology providers, SMEs, public authorities, clusters, living labs and civil society organisations that are preparing proposals under Horizon Europe Cluster 6 and Cluster 3 calls. Our specific goal is to define IRCEM’s added value within future consortia, especially in work packages related to circular economy strategies, stakeholder mapping, multi-actor engagement, training, dissemination, exploitation, policy recommendations and replication in Romania and Central-Eastern Europe.

As a concrete follow-up, IRCEM plans to organise bilateral meetings with selected partners immediately after the event, exchange concept notes and partner profiles, and agree on roles for joint proposal submissions. Where there is a strong strategic fit, IRCEM is ready to contribute to the preparation of Horizon Europe proposals, participate in partner meetings, support the drafting of relevant work packages, and explore the signing of Memoranda of Understanding for long-term cooperation. Our expected outcome is to leave the event with at least two to three concrete consortium opportunities and a clear roadmap for joint proposal development in 2026–2027.



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Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

Kristina Petrovic

Position

Research Councillor

Organization

Agriculture Institute of
Slovenia

Email

kristina.petrovic@kis.si

Personal Link(s)

<https://www.linkedin.com/in/kristina-petrovi%C4%87-37b37078/>

**Your Target Calls/Topics**

HORIZON-CL6-2026-01-BIODIV-06 Boosting agrobiodiversity for food security and sustainable competitiveness

HORIZON-CL6-2027-02-FARM2FORK-01-two-stage Strengthening plant health: addressing emerging plant pest risks

Your expected contribution to the project/consortium

HORIZON-CL6-2026-01-BIODIV-06

Expected contribution / technical strategy:

Expertise in plant pathology, crop breeding, plant health monitoring, molecular diagnostics, and multi-location field trials. Contribution to activities related to agrobiodiversity assessment, crop resilience, disease management, and stakeholder engagement. Interested in participating as a partner and potentially leading relevant work packages.

HORIZON-CL6-2027-02-FARM2FORK-01-two-stage

Expected contribution / technical strategy:

Expertise in plant health, emerging pests and pathogens, molecular diagnostics, disease surveillance, and Horizon Europe project coordination. Development of integrated approaches combining field monitoring, diagnostics, predictive modelling, and digital tools for early detection and management of plant health risks. Interested in coordinating the proposal and consortium building.

The current TRL of your research or technology

TRL 4-6: Development / proof of concept / laboratory testing Transporte

TRL 7-9: Pilot scale / demonstration / deployment

Your expected role in the project

Project Coordinator, Work Package Leader

Biography (200~300 words)

Plant pathologist, innovation manager, and Horizon Europe project coordinator with 18 years of experience in agriculture, plant health, crop breeding, and research management. My work focuses on bridging agriculture and advanced technologies, including sensors, AI, digital agriculture, and sustainable bio-based solutions. I coordinated the Horizon Europe project CREDIT Vibes (<https://nutribreedinghub.rs/>) and currently serve as Project Manager of the Horizon Europe project EINSTEIN (<https://einsteinproject.com/>), a project concept that I initiated and successfully developed into a funded Horizon Europe action.

Within EINSTEIN, I collaborate with a multidisciplinary team developing innovative electronic materials and sensors derived from food and agricultural waste streams for applications in biomedicine and sustainable technologies. My expertise covers plant disease monitoring, molecular diagnostics, crop resilience, and the translation of scientific discoveries into practical innovations. I actively generate project concepts, build international consortia, professionally develop Horizon Europe proposals, and maintain a strong network of academic, industrial, and innovation partners across Europe.

Research Area / Interests (+10 lines)

Research interests include sustainable agriculture, plant health, nutribreeding, functional crops, digital agriculture, AI-assisted disease monitoring, bio-based materials, and agri-food technologies for biomedical applications. A key innovation is the Nutribreeding concept, which integrates breeding, organic production, and the valorisation of nutrient-rich crops. Through the Horizon Europe project CREDIT Vibes, organically produced crops with enhanced nutritional and bioactive properties were developed and subsequently utilised within the Horizon Europe project EINSTEIN to create nutrifood-based electronic materials and biosensors for biomedical applications, including early colorectal cancer detection.

Research excellence is reflected through co-authorship of nine soybean varieties, four patents related to agricultural technologies and seed processing, an internationally recognized software solution for pest monitoring (Bio-Calendar), numerous scientific publications, and the successful development and management of Horizon Europe projects and international research consortia.

Motivation, Expectation and Plan

My main motivation for participating in this event is to establish strategic collaborations with Korean and European partners and to identify complementary expertise for future Horizon Europe proposals. I am particularly interested in building consortia around plant health, agrobiodiversity, digital agriculture, AI-enabled monitoring systems, bio-based materials, and sensor technologies. Through this networking opportunity, I aim to identify partners for the HORIZON-CL6-2027-02-FARM2FORK-01 call, where I am interested in contributing to consortium development and proposal coordination, as well as for biodiversity and bio-based innovation topics under Cluster 6.

I am also interested in exploring synergies between agriculture, sensing technologies, and biomedical applications. As a follow-up, I expect to organize bilateral meetings with interested partners, exchange project concepts, and initiate the preparation of joint Horizon Europe proposals and long-term research collaborations.



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

Sung Ja Chang Yoon

Position

European Project Manager

Organization

GRADIANT

Email

schang@gradient.org

Personal Link(s)

www.linkedin.com/in/sung-ja-c-b509b63b

**Your Target Calls/Topics**

HORIZON-CL3-2026-01-DRS-01 Designing new ways of risk awareness and enhanced disaster preparedness

HORIZON-CL6-2026-01-CIRBIO-07 Advancing the European Bio-Based Innovation Enabled by Biotechnology and Biomanufacturing Concepts

Your expected contribution to the project/consortium

GRADIANT would like to address the topics, not only the two selected, with our following expertise:

- Cloud-Edge Continuum: Moves computing from centralized clouds to edge and end devices to improve efficiency, latency, and privacy, enabling distributed intelligence across nodes for critical applications.
- Advanced Data Management: Combines Big Data, DataOps, and privacy-enhancing technologies to ensure high-quality, secure, and interoperable data use across the full lifecycle of AI-driven solutions.
- Applied Artificial Intelligence: Develops efficient and trustworthy AI solutions with built-in privacy and security, spanning multimodal systems, cybersecurity, and advanced paradigms like neurosymbolic and decentralized AI.
- Autonomous Systems: Creates intelligent, adaptive platforms for air, land, and maritime use with resilient navigation, sensor fusion, and real-time decision-making in complex environments.
- Cybersecurity Technologies: Delivers advanced threat detection and response using AI, encryption, and behavioral analytics to protect data, systems, and infrastructure.
- Multimedia Analysis: Develops AI-based image and video analysis solutions for surveillance, identity verification, and autonomous systems, leveraging computer vision and multimodal processing.

The current TRL of your research or technology

TRL 4-6: Development / proof of concept / laboratory testing Transporte

Your expected role in the project

Work Package Leader, Partner

Biography (200~300 words)

Industrial Engineer with extensive expertise in R&D project management, bringing over 10 years of experience in the development, coordination, and implementation of funding programmes at regional, national, and particularly European levels. My career has progressed across private industry and multi-sector technology centres, providing a strong multidisciplinary perspective. I am currently part of Gradiant, a leading organization in advanced telecommunications solutions, where I contribute to the successful delivery of innovative projects. My experience in European initiatives includes drafting competitive proposals for Fast Track to Innovation and the Horizon 2020 SME Instrument, alongside extensive use of the Funding & Tenders Portal for submission, monitoring, and reporting processes. I have led Grant Agreement and Consortium Agreement negotiations and overseen administrative and financial management in Horizon 2020, Horizon Europe, and Interreg Sudoe programmes, ensuring compliance, efficiency, and impactful project outcomes. Additionally, I foster collaboration among international partners and stakeholders to drive strategic alignment and maximize project value.

Research Area / Interests (+-10 lines)

- Coordination and research on UxVs, including digital twins.
- Video analysis for security inspection and threats detection (CL3) and categorization/plantation evolution (CL6).
- Data quality and intelligence analysis for decision making.
- Communication infrastructure deployment (tethered drones, communication in GNSS denied areas, connection solutions in rural areas)
- Natural Language processing.
- Cybersecurity: Anomaly detection, User and entity behaviour analytics) specially for hybrid security scenarios.

Motivation, Expectation and Plan

GRADIANT would like to participate in this forum to strengthen EU–Korea collaboration on pressing global challenges related to resilience, sustainability, and bio-based innovation. This forum offers a unique opportunity to exchange knowledge, identify synergies, and co-develop impactful research initiatives.

Our main outcomes include:

- Networking for consortia building and proposal defined.
- Identification of joint call opportunities.
- Knowledge exchange EU ↔ Korea.

As for follow-up plans:

- Joint proposal submission.
- Multidisciplinary partner meeting.
- Any other kind of collaboration.



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

Peter Emmrich

Position

Senior Affiliated Scientist

Organization

John Innes Centre

Email

peter.emmrich@jic.ac.uk

Personal Link(s)

<https://www.jic.ac.uk/people/peter-emmrich/>

**Your Target Calls/Topics**

HORIZON-CL6-2026-01-BIODIV-06 Boosting agrobiodiversity for food security and sustainable competitiveness

Your expected contribution to the project/consortium

Our work on geographically explicit suitability modelling of a wide range of underutilised crops in a changing climate is a versatile and impactful work package for HORIZON-CL6-2026-01-BIODIV-06 proposals.

At the Norwich Institute for sustainable Development and the University of East Anglia School of Environmental Sciences, we are developing a platform, called Blacksheep, for geospatial crop suitability forecasts under climate change. This is based on the Ecocrop database, allowing it to handle a large number of plant species (currently 545), including many underutilised species for which more detailed physiological crop models are not available. The tool was originally developed for India and Nepal (operating at district level), and through this work package we will adapt it for other world regions including Europe. Among other use cases it allows to match forecast climates to other areas where those conditions already exist. Previous climate analogue models have been limited by the applicability of different agricultural systems in identified analogue regions. Our model matches areas not on climatic conditions directly, but on the suitability of a user-defined basket of crops, taking into account climatic and soil properties and the presence of irrigation. In this way, the tool provides actionable insights for farmers and policymakers. Already existing crop mixes and practices, as well as forecasts of high suitability can provide practicable adaptation pathways. The fact that our tool handles such a wide range of crop species makes it particularly useful for identifying ways in which crop diversification can support climate resilience.

Through NISD, we can integrate this work with genomics and bioinformatics expertise at the John Innes Centre and Sainsbury Laboratory (e.g. in the recent Watkins collection of wheat landraces, or the Mendel-Seq effort in pea pangenomics), and deep expertise across many aspects of crop science, in both major and underutilised crops.

Your expected role in the project

Work Package Leader, Partner

The current TRL of your research or technology

TRL 1-3: Fundamental / exploratory research

TRL 4-6: Development / proof of concept / laboratory testing Transporte

Biography (200~300 words)

I am a crop scientist with a focus on underutilised legume crops. I did my PhD at the John Innes Centre, UK, followed by postdocs at JIC and the International Livestock Research Institute, Kenya, before joining the Norwich Institute for Sustainable Development at the University of East Anglia as a John Innes Foundation Fellow in Sustainable Agriculture.

My work combines foundational crop science, translational work, social and environmental sciences. A particular focus of my career has been on grasspea (*Lathyrus sativus*), including its genome, global diversity, stress responses, biochemistry, breeding, and seed systems. This work aims to deliver the potential of this highly stress resilient legume crop for farmers in the Global South (Ethiopia, Bangladesh and India) and in Europe. I have led the work on projects funded by BBSRC and Innovate UK, and I co-supervise the development of Blacksheep. Through NISD, I am involved in a range of projects connecting the Norwich Biosciences Institutes and the University of East Anglia, bridging between crop science and social science research on food security, farmer preferences and cultural context of agriculture in smallholder systems and environmental research modelling the changing suitability of crops under climate change futures.

Beyond this, I advise on transdisciplinary aspects on the JIC Institute Strategic Programmes, particularly Harnessing Biosynthesis (HBio) and Advancing Plant Health (APH), giving me a broad insight into the research capacities and partnership opportunities across the Norwich Research Park.

Research Area / Interests (+-10 lines)

My research interests involve harnessing the potential of underutilised crops, which requires transdisciplinary approaches to address both underlying biological limitations such as antinutritional factors or lack of breeding resources, and applied work to understand seed systems and value chains for such crops to be utilised. A particular focus has been the genomics and diversity of underutilised legumes (e.g. genomes of grasspea, African Yam Bean, Lablab).

My interest in climate resilience connects this to our work on crop suitability modelling (two manuscripts currently in development). Blacksheep is unique in its ability to model hundreds of plant species (including food, feed and fibre crops, annuals and perennials, as well as non-crop species) making it a very useful tool to support decision-making regarding agrobiodiversity.

Motivation, Expectation and Plan

I aim to find opportunities to partner in HORIZON-CL6-2026-01-BIODIV-06 proposals under development, by integrating our work on Blacksheep as a work package. Our crop climate modelling expertise and research on the diversity and potential of underutilised crops would be applicable to a range of projects investigating agricultural diversification, and the ability to identify real-world analogues will accelerate adaptation efforts and farmer peer learning.

I am also keen to explore opportunities for future partnerships on Horizon proposals, or to link workshop participants with other expertise and capacity available on the Norwich Research Park.



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)

José Luis Casteleiro roca

Position

Associate professor

Organization

University of A Coruña

Email

jose.luis.casteleiro@udc.es

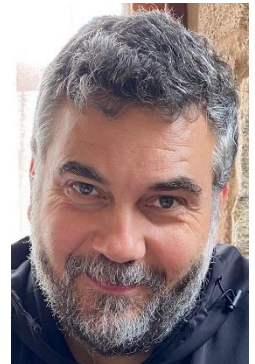
Personal Link(s)

<https://investigacion.udc.es/gl/Research/Details/G00087>

<https://www.udc.gal/ctc>

<https://pdi.udc.es/gl/File/Pdi/6Q67G>

<https://scholar.google.es/citations?user=OIlaFIMAAAJ&hl=es>

**Your Target Calls/Topics**

HORIZON-CL3-2026-02-CS-ECCC-01 Approaches and tools for security in software and hardware development and assessment

HORIZON-CL3-2026-01-SSRI-01 Open topic on supporting disruptive technological innovations for civil security

Your expected contribution to the project/consortium

The Cybernetics Science and Technique Research Group (CTC) can contribute its expertise in intelligent modelling, artificial intelligence, anomaly detection, optimisation, and decision-support systems for critical infrastructures and industrial environments. Our proposed research approach combines real-time monitoring data, digital twins, advanced analytics, and AI-based predictive models to detect anomalies, emerging risks, fires, and safety-related incidents while minimising false alarms. Building upon these capabilities, the system can support emergency management through adaptive risk assessment and intelligent recommendation of response actions, enabling a transition from reactive to predictive and resilient safety management. CTC is interested in contributing to the design, development, validation, and demonstration of these technologies within collaborative Horizon Europe projects.

The current TRL of your research or technology

TRL 1-3: Fundamental / exploratory research

TRL 4-6: Development / proof of concept / laboratory testing Transporte

TRL 7-9: Pilot scale / demonstration / depolyment

Your expected role in the project

Project Coordinator, Work Package Leader, Partner

Biography (200~300 words)

The Cybernetics Science and Technique Research Group (CTC) at Universidade da Coruña conducts research and innovation in the fields of Automation, Control Engineering, Artificial Intelligence, IoT, and Industry 4.0. Recognised and funded by the Xunta de Galicia as a Research Group with Growth Potential, CTC brings together more than 30 researchers and technical staff, including senior researchers, postdoctoral fellows, PhD candidates, and specialised technical personnel.

The group's research activities focus on intelligent modelling, optimisation and control systems, fault and anomaly detection, advanced sensing technologies, data analytics, virtual instrumentation, cybersecurity, environmental monitoring, and energy efficiency. These technologies are applied across a wide range of domains, including healthcare, industrial processes, critical infrastructures, environmental applications, and smart resource management.

CTC has extensive experience in the execution and coordination of research and innovation projects at both European and national levels, complemented by a strong track record of technology transfer and collaboration with industry. The group actively participates in multidisciplinary projects involving academic institutions, public organisations, and private companies, contributing scientific expertise as well as practical solutions with real-world impact.

Current and recent activities include projects related to cybersecurity of critical infrastructures, intelligent water network management, environmental radiological monitoring, sustainable communities, digital transformation, and advanced industrial systems. Through these initiatives, CTC has strengthened its expertise in addressing complex societal, industrial, and environmental challenges.

The group is committed to expanding its international collaborations and contributing to ambitious research consortia within Horizon Europe, supporting the development of innovative and sustainable solutions aligned with European priorities.

Research Area / Interests (+-10 lines)

CTC's research activities focus on automation, control engineering, and artificial intelligence, with applications across multiple sectors. Our work promotes the adoption of intelligent technologies in domains such as healthcare, industry, cybersecurity, environmental monitoring, and energy efficiency. Key research topics include data analytics and processing, advanced and intelligent control, system modelling and optimisation, fault and anomaly detection, and the development of virtual and intelligent instrumentation.

Our main research areas are:

- Intelligent modelling, optimisation, and control systems.
- Fault and anomaly detection using conventional and AI-based approaches.
- Development of novel sensing technologies, including robust and virtual sensors.

Motivation, Expectation and Plan

Our main motivation is to contribute to the achievement of the objectives of Clusters 3 through applied research, generating practical and impactful solutions to current societal and environmental challenges. We expect this Forum to facilitate the identification of complementary partners and the development of strong international consortia for future Horizon Europe calls. Our research group is fully committed to collaborative research and is willing to assume any role within future projects, including coordinator, work package leader, or partner, depending on the needs and expertise required by each consortium.



Korea-EU Horizon Europe Researchers Consulting Forum 2026 on Cluster 3 & 6

Cluster 3: Civil security for society & Cluster 6: Food,
Bioeconomy, Natural Resources, Agriculture and Environment

Full Name (English)	Suchada Hnoonpakdee
Position	Founder
Organization	Impact Intelligence Lab
Email	hello@impactintelligencelab.space



Personal Link(s)

<https://www.impactintelligencelab.space/>
<https://www.linkedin.com/in/suchada-hn/>

Your Target Calls/Topics

HORIZON-CL3-2026-01-DRS-01 Designing new ways of risk awareness and enhanced disaster preparedness

HORIZON-CL6-2026-01-BIODIV-06 Boosting agrobiodiversity for food security and sustainable competitiveness

Your expected contribution to the project/consortium

Impact Intelligence Lab proposes to contribute a geospatial intelligence and decision-support layer to consortia focused on disaster risk awareness and preparedness. Our technical strategy combines Earth observation data (Copernicus Sentinel, ERA5 reanalysis), spatial exposure and vulnerability analysis, and composite risk indices to produce decision-grade risk maps and briefings for planners, emergency managers, and frontline organizations. We develop open, reproducible methods that make risk evidence interpretable and actionable beyond specialist audiences.

Our specific contribution would include:

- (1) geospatial exposure and vulnerability indicator development for target regions, with a focus on Southeast Asia as a high-risk, data-sparse context;
 - (2) design and development of interactive risk awareness dashboards and public-facing knowledge products;
 - (3) field validation with practitioner partners to ensure tools meet actual decision requirements;
 - (4) open data publication and methods documentation to support reproducibility and cross-consortium reuse.
- Current TRL for our core geospatial risk analysis pipeline: TRL 4–5, with pilot deployments in coastal resilience contexts.

For HORIZON-CL6-2026-01-BIODIV-06: Impact Intelligence Lab proposes to contribute AI-powered geospatial intelligence for agrobiodiversity monitoring and smallholder food system resilience, drawing on field experience in Thailand and the broader Mekong region. Our approach combines satellite-derived land-use and crop diversity indicators, climate exposure analysis, and local knowledge integration to build monitoring infrastructure for agrobiodiversity outcomes. We bring Southeast Asia field access, practitioner networks, and open data methods that European consortium partners typically cannot source internally.

The current TRL of your research or technology

TRL 4-6: Development / proof of concept / laboratory testing Transporte

Your expected role in the project

Project Coordinator

Biography (200~300 words)

Suchada Hnoonpakdee is the founder of Impact Intelligence Lab, an independent research and intelligence organization applying data, AI, and geospatial analysis to climate resilience, environmental risk, and social systems change. She brings over six years of experience across software engineering, AI product development, and climate technology entrepreneurship.

Her professional track record spans from AI-powered Earth observation platform development at RIFFAI, and the founding of CarbonNexus - a climate intelligence platform recognised as a Youth Climate Innovation Finalist through Seedstars and UNEP's Climate Technology Centre and Network (CTCN). She has led cross-functional international teams through the full product lifecycle, from geospatial data pipeline architecture to decision-support interface design, with a focus on transparency, reproducibility, and practical usability.

Based across Bangkok and Brussels, she works at the intersection of Southeast Asian field intelligence and European research and innovation ecosystems. She has engaged with European climate-tech and policy environments through participation in the 2026 Cleantech Conference in Brussels, the 2025 AOGEOS Symposium, and regional convenings on AI, geospatial intelligence, and climate finance across Bangkok, Helsinki, and Paris.

Her technical expertise includes satellite imagery analysis, Earth observation for environmental monitoring, climate risk indicator development, geospatial AI pipelines, and open decision-support tools. She has applied these capabilities to renewable energy site selection, flood and coastal shift detection, smallholder agriculture intelligence in Thailand, and climate adaptation planning across Southeast Asia.

Suchada was a selected speaker at the Asia-Pacific Regional Commemoration of International Women's Day 2025 (ESCAP/UN Women), presenting on AI innovations for gender equality before an audience of over 600 diplomats, policymakers, and civil society representatives. She is actively building Horizon Europe consortium partnerships to bring Southeast Asia field intelligence and open geospatial methods into European research collaborations.

She is currently positioning Impact Intelligence Lab as a Horizon Europe consortium partner, bringing Southeast Asia field access, open geospatial methods, and AI-powered decision-support capabilities to European research teams. Her motivation is to ensure that climate and disaster risk intelligence is open, reproducible, and usable by the institutions and communities that most need it.

Research Area / Interests (+-10 lines)

Main research fields:

- Climate risk and disaster exposure analysis using Earth observation and reanalysis data (ERA5, Copernicus Sentinel-1/2, MODIS, VIIRS)
- Geospatial vulnerability and adaptive capacity indexing at subnational scale
- AI and machine learning for environmental monitoring and decision support, including land-use classification, crop mapping, and anomaly detection
- Composite risk indices for climate adaptation planning, drawing on IPCC AR6 risk frameworks and open methodologies

- Open decision-support tools and interactive evidence dashboards for non-specialist audiences including planners, funders, and community leaders
- Agrobiodiversity and climate-resilient agriculture in smallholder systems, with field experience in Thailand and the Mekong region
- Blue carbon geospatial intelligence: mangrove extent, coastal ecosystem services, and carbon stock estimation
- Civic and social data intelligence: open government data, SDG indicator monitoring, and participatory data systems

Technological specialization:

- Geospatial AI pipelines combining satellite imagery, vector data, and tabular climate records into reproducible, versionable analysis products
- Open-source stack: Python, GeoPandas, Rasterio, Google Earth Engine, QGIS, PostgreSQL/PostGIS, and web-based visualization using MapLibre GL and Observable Framework
- Focus on methods transparency, documented assumptions, and outputs designed for institutional and public trust

Motivation, Expectation and Plan

I grew up in a rural farming village where climate shocks were not numbers on a chart – they were and still are real life-threatening crises. That pushed me into climate data science and software engineering, and later into founding Impact Intelligence Lab to build climate-intelligence tools. Today, some of the biggest decisions on where to invest in adaptation, how to target early warning systems, and which communities are most at risk are still taken with scattered data and black-box models that people cannot question. Impact Intelligence Lab exists to fix that, by building open, tested tools together with partners on the ground. Horizon Europe is the most serious and well-funded place to do this kind of work, with clear calls on disaster risk and agrobiodiversity at TRL 4–5. Joining this matchmaking event is a practical way to find consortia whose research strengths fit our field access, geospatial skills, and open-methods mindset in Southeast Asia.

Specific goals:

Meet one or two European research or applied science teams working on disaster risk awareness (HORIZON-CL3-2026-01-DRS-01) or boosting agrobiodiversity for food security (HORIZON-CL6-2026-01-BIODIV-06) who are building or joining consortia for the 2026–2027 work programme.

Present Impact Intelligence Lab as the Southeast Asia geospatial and risk-intelligence partner, bringing field access, EO analysis, practitioner networks in Thailand and the Mekong, and open decision-support tools that can reach TRL 4–5 in real environments.

Start MoU or letter-of-intent talks with at least one consortium lead to agree on our role before the 2026 call deadlines.

Concrete follow-up plan:

After the event, we will contact matched partners within five working days, share a one-page overview of the lab and short examples of our work, and aim to define our role in at least one draft proposal within sixty days. We can write and review sections on geospatial methods and field validation, add Southeast Asia context and partner references, and help shape work packages that match our TRL 4–5 strengths. Depending on what each consortium needs, we are open to joining as a full partner or as a focused subcontractor on regional risk analytics and open-source tools.