



University of Novi Sad
Faculty of Technical Sciences

overview of
**INTERNATIONAL
PROJECTS**

2025/2026

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OVERVIEW OF INTERNATIONAL PROJECTS

University of Novi Sad

Faculty of Technical Sciences

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University of Novi Sad

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2025/2026

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INTERNATIONAL COOPERATION PROJECTS
2025-2026



Foreword

Each era brings its own challenges, yet one truth remains unchanged – progress is born from curiosity, dedication, and the unyielding spirit of science. In moments of uncertainty, science gives us direction; in times of doubt, it gives us hope. It is the foundation upon which we build a more resilient and enlightened future.

At the Faculty of Technical Sciences, we continue to uphold this legacy. Our mission is rooted in the pursuit of knowledge that serves both the advancement of science itself and the betterment of society. Through the synergy of education, research, and industry, we transform ideas into innovation, bridging the distance between theoretical insight and real-world application.

Artificial intelligence, automation, and data-driven innovation are reshaping the fabric of modern life. We view these not as endpoints, but as tools through which creativity, efficiency, and sustainability can coexist. Our laboratories, research centers, and Science and Technology Park serve as meeting points where ideas evolve into solutions – for cleaner energy, smarter systems, and a more balanced coexistence between humanity and the environment.

As we look ahead, we do so with renewed determination to explore the unknown and to contribute meaningfully to the collective knowledge of humanity. Echoing the words of Isaac Newton, “If I have seen further, it is by standing on the shoulders of giants.”, it is our privilege to stand among them, continuing the pursuit of discovery for the generations to come.

The Faculty of Technical Sciences remains a symbol of excellence and perseverance – a place where science thrives, where ideas take shape, and where the future is continuously engineered.

Prof. dr Milan Vidaković

Vice dean for Science and International Cooperation



Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.

Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness.

Seen as a means to drive economic growth and create jobs, Horizon 2020 has the political backing of Europe's leaders and the Members of the European Parliament. They agreed that research is an investment in our future and so put it at the heart of the EU's blueprint for smart, sustainable and inclusive growth and jobs.

By coupling research and innovation, Horizon 2020 is helping to achieve this with its emphasis on excellent science, industrial leadership and tackling societal challenges. The goal is to ensure Europe produces world-class science, removes barriers to innovation and makes it easier for the public and private sectors to work together in delivering innovation.

Horizon 2020 is open to everyone, with a simple structure that reduces red tape and time so participants can focus on what is really important. This approach makes sure new projects get off the ground quickly – and achieve results faster.

The EU Framework Programme for Research and Innovation will be complemented by further measures to complete and further develop the European Research Area. These measures will aim at breaking down barriers to create a genuine single market for knowledge, research and innovation.



European
Commission

Horizon 2020
European Union funding
for Research & Innovation

1. ERA Chair for emerging technologies and innovative research in Stretchable and Textile Electronics- STRENTEX

Description: Wearable technology is set to supercharge the catwalk. Our clothes are becoming smarter with the integration of stretchable electronic circuits into textiles. The STRENTEX project's ERA Chair action aims to boost the research potential of the Faculty of Technical Sciences, University of Novi Sad (FTN) in Serbia. Building on a network of existing international, regional and national partners, as well as SMEs and stakeholders, the project will contribute to the development of patches to monitor health, sensors in baby slings, theranostic wound dressings and other similar products. A wider aim of the project is to strengthen the economy of Serbia and Europe. The motivation behind this Project is to create a point of excellence of the Faculty of Technical Sciences, University of Novi Sad (FTN), Novi Sad, Vojvodina, Serbia, to continuously advance state-of-the-art research, technological innovation and contribution to broader social goals, in the field of Stretchable and Textile Electronics. The Project is set in the framework of the ERA Chair action to simultaneously reinforce the research potentials of the FTN and to create cutting-edge dynamic and sustainable research environment. These products with a high future market potential, such as human monitoring patches, sensors in baby slings, theranostic dressings, will enable a move from "technology push" to "market pull" and will facilitate involvement of the ERA Chair into "Industry 4.0" revolution. STRENTEX project envisages the following activities: (1) ERA Chair establishment – ERA Chair holder appointment and employment of his/her team members; (2) Implementation of structural changes in FTN, for sustainable excellence; (3) Raising research profile of the FTN and its staff, thanks to ERA Chair; (4) Boosting FTN's innovative capacities and capabilities; (5) Dissemination, communication and exploitation activities. Thanks to this Project, disparities in terms of research and innovation performance between Serbia and innovation leaders in EU will be significantly decreased.

Contact person: Prof. dr Goran Stojanović

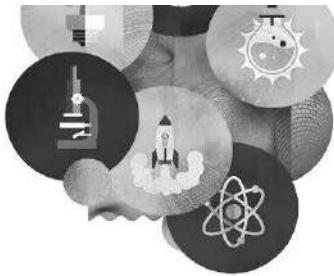
Period of realization: 2020 – 2026

ID: H2020- WIDESPREAD-04-2019: ERAChairs

<https://strentexproject.com/about-project/>

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



Horizon Europe is the EU's research and innovation programme for 2021-2027 with a budget of €95.5 billion.

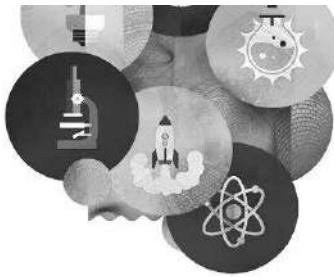
It tackles climate change, helps to achieve the UN's Sustainable Development Goals and boosts the EU's competitiveness and growth.

The programme facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges. It supports creating and better dispersing of excellent knowledge and technologies.

It creates jobs, fully engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



1. Towards MXenes' biomedical applications by high-dimensional immune MAPping - MX-MAP

Description: The long-term goal of MX-MAP is to develop a functional pipeline for the immune characterization of new 2D nanomaterials of MXene family, for the qualitative and quantitative assessment of the human immune compatibility and immune activity towards biomedical applications. The immune characterization of the tested materials on the basis of intrinsic physical-chemical and immunological properties, through the combination of the most innovative technologies such as single-cell mass cytometry (CyTOF), will open breakthrough perspectives for the development of new therapeutic approaches applying nanomaterials as immunomodulators, scaffolds for tissue engineering, cancer therapy, and antibacterial agents. MX-MAP will develop key chemistry and immune-based strategies for MXene medical applications. The implication of this project extends beyond the specific nanoscience program greatly advancing the engineering process of 2D materials and their use in biomedicine. The MX-MAP project involves fourteen key players in European and non-European countries, including the United States, Canada, Saudi Arabia, and three partners from Ukraine, coming from academia and SMEs. This program will provide strong support for the development of the careers of brilliant young scientists who want to grow towards an interdisciplinary vision of science.

Contact person: Prof. dr Goran Stojanović

Period of realization: 2022-2025

ID: HORIZON-MSCA-2021-SE-01 (101086184)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



2. Rural Environmental Monitoring via ultra-wide – ARea networkKs And distriButed federated Learning -REMARKABLE

Description: Internet of Things (IoT) technology combined with complementary support for data analytics is the corner stone of today's digital transformation. The societal and economic impact of IoT/ML systems in urban and suburban areas significantly outpaces the one in rural areas due to a limited reach of connectivity infrastructure. To reverse further widening of the urban-rural gap, we need to bring efficient and affordable IoT/ML solutions to deep rural areas, reaching out to applications and use cases ranging from wildlife management, rural tourism, livestock monitoring, water and air pollution control, and others. By identifying main gaps in connectivity and affordable data analytics and through interleaved research, development and validation in a real-world setting, REMARKABLE will address the challenge of bringing IoT and data analytics systems a step closer to seamless, energy efficient and secure deployment in rural areas. The consortium composed of six European academic partners, five companies and five associated partners representing leading academic groups from Africa, will focus on research, development, innovation and demonstration across five use cases with six demonstration sites located in rural areas across the European and African continent. The inter-disciplinary nature of the programme provides a unique opportunity for investigation of smart sensing, IoT and data science technology from non-traditional, holistic perspectives leading to new scientific achievements and innovations. Project outputs like smart IoT sensors and devices, rural IoT digital twining platforms, ultra wide-area IoT networks, novel data analytics models and architectures will find their routes to the market via active industrial partners. The project will impact EU workforce market via new interdisciplinary skills for young contributors and form new long-lasting networks of European and African institutions in the area of sensing, IoT, big data analytics and rural entrepreneurship.

Contact person: Prof. dr Maja Turk-Sekulić

Period of realization: 2023-2026

ID: HORIZON-MSCA-2021-SE-01 (101086387)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



3. Trustworthy and Resilient Decentralised Intelligence for Edge Systems- TaRDIS

Description: Developing and managing distributed systems is a complex task requiring expertise across multiple domains. This complexity considerably increases in swarm systems, which are highly dynamic and heterogeneous and require decentralised solutions that adapt to highly dynamic system conditions. The project TaRDIS focuses on supporting the correct and efficient development of applications for swarms and decentralised distributed systems, by combining a novel programming paradigm with a toolbox for supporting the development and executing of applications. TaRDIS proposes a language-independent event-driven programming paradigm that exposes, through an event-based interface, distribution abstractions and powerful decentralised machine learning primitives. The programming environment will assist in building correct systems by taking advantage of behavioural types to automatically analyse the component interactions to ensure correctness-by-design of their applications, taking into account application invariants and the properties of the target execution environment. TaRDIS underlying distributed middleware will provide essential services, including data management and decentralised machine learning components. The middleware will hide the heterogeneity and address the dynamicity of the distributed execution environment by orchestrating and adapting the execution of different application components across devices in an autonomic and intelligent way. TaRDIS results will be integrated in a development environment, and also as standalone tools, both of which can be used for developing applications for swarm systems. The project results will be validated in the context of four different use cases provided by high impact industrial partners that range from swarms of satellites, decentralised dynamic marketplaces, decentralized machine learning solutions for personal-assistant applications, and the distributed control process of a smart factory.

Contact person: Prof. dr Silvia Gilezan

Period of realization: 2023-2025

ID: HORIZON-CL4-2022-DATA-01 (101093006)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



4. Responsible Territories and Institutions eNable and Foster Open Research and Collaborative Innovation for traNsitions Governance – REINFORCING

Description: “The objective of REINFORCING is to become the ORRI (Open and Responsible R&I) central point of knowledge and expertise, easily accessible, up-to-date and tailored to community needs. It will do so by reviewing and exploiting the richness of 10 years of ORRI-related initiatives, including the RRI Tools database. It will make this know-how available in the REINFORCING One-Stop Source platform, together with new community-led resources, and pathways to support navigation through them. REINFORCING is committed to capitalize on EU-funded actions and the proven expertise of its partners in both the theory and the practice of ORRI implementation. REINFORCING will act as catalyst of quadruple-helix community members, who will co-develop services, including policy recommendations; of ORRI-related initiatives (regional and EU), to support efficient cooperation and adaptation rather than replication; and of ORRI expertise through the creation of a European map of Ambassadors and Facilitators. A key focus is on financial support of institutional and territorial changes towards Fair Transitions governance through cascading grants. REINFORCING will award 96 grants dedicated to boost institutions scaling up their ORRI experience, and to incubate newcomer territories experimenting with ORRI for the first time. Reducing disparities is also a key focus of REINFORCING. Three key gaps (Balkan territories, Open Innovation and Mission projects) have already been identified and addressed through specific actions, while the overall project contribution to their reduction will be thoroughly assessed. The engagement of the Global ORRI Network will guarantee wide international cooperation. These efforts will result in a number of medium and long-term impacts, such as over 150 sustainable, individual institutional changes and mainstreaming of excellent, open and responsible R&I across the ERA.”

Contact person: Prof. dr Petar Vrgović

Period of realization: 2023-2025

ID: HORIZON-WIDERA-2022-ERA-01-40 (101094435)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



5. ECOsystem-based governance with DAnube lighthouse Living Lab for sustainable Innovation processes—EcoDaLLi

Description: The 2030 & 2050 Green Deal goals push EU towards integrated solutions & clear targets. EcoDaLLi, embedded in the Mission 'Restore our Ocean, seas & waters by 2030' will help achieve freshwater targets of European Green Deal, integrating a systemic approach for restoration, protection & preservation for the entire Danube Basin, provided by coordinated actions. The main objective of EcoDaLLi is to centralise Danube governance structures in terms of innovative solutions for improved ecological restoration, protection and preservation of the Danube basin and its Delta by fostering a stronger innovation ecosystem within a well-connected Practices Living Lab System, supported by a digital Portal, completely linked to the Mission Implementation Platform. Improved governance at Danube Basin level, based on dedicated EcoDaLLi tools will foster such innovative solutions, change mindsets on water ecosystems restoration and climate change and develop value chains based on ecosystem services. This will contribute to the decarbonisation goal of Green Deal, cleaner water, improved state of the environment, land creation of jobs in sensitive areas along the basin, especially in the Danube Delta. EcoDaLLi will support innovators connect to governance structures, providing and maintaining networks, through dedicated Living Labs for knowledge co-creation, workshops, a custom made digital portal for synergies, and innovation support services, to experiment with new solutions, helping the innovation ecosystem to create circular services towards Sustainable Blue Economy in the Danube Basin and beyond.

Contact person: Prof. dr Đorđe Đatkov

Period of realization: 2023-2025

ID: HORIZON-MISS-2021-OCEAN-02 (101093908)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



6. EdTech Talents - EdTech

Description: The recent COVID-19 era demonstrated the need for seamless education, accessible under most challenging circumstances. It was revealed that while the technologies for facing these challenges exist, more work is needed to adapt these in modern education – a task that requires significant collaborative effort from academia and the rapidly developing Educational Technology Sector (EdTech) in order to involve best practices and validate novel products and services for the real world classroom use. For various reasons, this collaboration has been meagre so far. The goal of the EdTech Talents project is to strengthen academia/non-academia cooperation and reinforce the EdTech innovation ecosystems of Estonia, Hungary and Serbia by conducting a long-term knowledge transfer process for (a) the researchers and their support staff of these widening countries to learn from the EdTech spin-offs and consulting companies of Austria, Germany and Spain; and (b) the researchers of these advanced countries to share their relevant intellectual capital with the EdTech start-ups of these widening countries. During this process, knowledge transfer is supported via dedicated mentoring and training that aim at establishing continuous and more impactful flow of innovation, ideas, knowledge, know-how and relevant services among all involved, corresponding with the scope of ERA Policy Agenda and ERA Talents call for cross-sectoral talent circulation and academia-business collaboration, with the focus on widening countries.

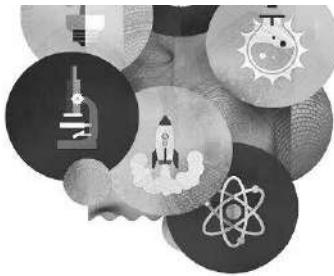
Contact person: Prof. dr Uglješa Marjanović

Period of realization: 2023-2027

ID: HORIZON-WIDERA-2022-TALENTS-03 (101119689)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



7. Multilingual and Cross-Cultural Interactions for Context-Aware, and Bias-Controlled Dialogue Systems for Safety-Critical Applications – ELOQUENCE

Description: ELOQUENCE is focused on the research and development of innovative technologies for collaborative voice/chat bots. Voice assistant-powered dialogue engines have previously been deployed in a number of commercial and governmental technological pipelines, with a diverse level of complexity. In our concept, such a complexity can be understood as a problem of analysing unstructured dialogues. ELOQUENCE's key objective is to better comprehend those unstructured dialogues and translate them into explainable, safe, knowledge-grounded, trustworthy and bias-controlled language models. We envision to develop a technology capable of learning by its own, by adapting from a very data-limited corpora to efficiently support most of the EU languages; from a sustainable computational framework to efficient and green-power architectures and, in essence, that may serve as a guidance for all European citizens whilst being respectful and showing the best of our European values, specifically supporting safety-critical applications by involving humans-in-the-loop. Overall, ELOQUENCE's project considers building on top and to improve of prior achievements in the domain of conversational agents, e.g. recently launched and public-domain Large Language Models (LLMs), such as chatGPT (e.g., more recent versions), or LaMDa most of them developed in non-EU countries.

More information about the project can be found at: <https://eloquenceai.eu/>

Contact person: Branislav Popović

Period of realization: 2024-2026

ID: HORIZON-CL4-2023-HUMAN-01 (101135916)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



8. Origami Paper-based technology fOr the innovativE aNd sustaInable Organ-on-Chip devices- PHOENIX-OoC

Description: Sustainability is one of the most important concepts nowadays, being able to drive activities in several sectors, namely environment preservation, society, and economy. In Analytical Chemistry, the development of sustainable devices was boosted by the introduction of microfluidic paper-based analytical devices (μ PADs) whose advantages, however, are not only confined to the concept of sustainability. Indeed, paper as a functional material, confers unprecedented features to μ PADs. However, paper-based devices remain exploited as only analytical tools, but have not (yet) been adopted by the Organ-on-Chip (OoC) world. The objective of the present project proposal is to alter this scenario. PHOENIX-OoC, we will radically change the OoC field by making use of paper's versatile properties, and develop OoC devices using paper in origami configuration used (i) for cell co-cultures with the aim to better simulate different organ tissues, (ii) for (bio)sensors integration with the aim of on site/continuous monitoring of cells status/response to stimuli, and (iii) with the ultimate goal of performing accurate pharmacological studies. The main new idea is the introduction of a technology which can deliver a versatile set of electrochemical devices with new functionalities, in which, it will be possible to create ready-to-use cell culture models for drug screenings, in a custom-made manner. Because, OoC is a complex system with respect to μ PADs, partners with different and needed skills have been gathered among the most important European scientists/entities in the field required. PHOENIX-OoC consortium brings together 6 partners, 4 Universities, 1 research organization, and 1 industrial partner (1 SME), 5 from 4 EU (associated)countries (Italy, Sweden, Spain, Serbia), and 1 non-EU member: Switzerland, which are renowned experts in the world on paper-based biosensors, in vitro/vivo studies, modelling, microfluidics, biomaterials, and joint tissue engineering.

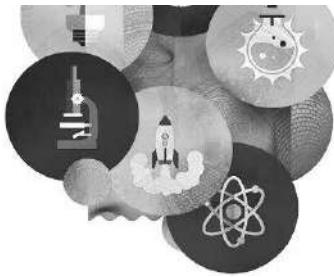
Contact person: Prof. dr Goran Stojanović

Period of realization: 2024-2025

ID: HORIZON-EIC-2023-PATHFINDEROPEN-01 (101130395)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



9. Regional Inclusive Biobased Entrepreneurship Solutions-RIBES

Description: RIBES will address the need to enhance the uptake of biobased innovations through pioneering governance and business models developed on the convergence of the circular bioeconomy, social innovation and rural development, thus contributing to the shift from a linear to a circular economy in 9 European regions lagging in innovation. Project activities will focus on specific sub-national levels but will also encompass proactive dissemination and replication at the country level. Participating regions have been selected based on various socio-economic indicators and data concerning the characteristics of the agricultural and biobased sectors, demographics, innovation capacity, etc. RIBES will perform an in-depth multidisciplinary assessment of regional bioeconomy ecosystems and research possible correlations between the socio-economic trends, innovation bottlenecks and the role of the primary sector. RIBES will create a significant impact by delivering innovative and tailored governance solutions and business models capable of fostering grass-rooted circular bioeconomy value chains, with particular attention devoted to the advanced sustainability of regional inclusive biobased entrepreneurship solutions, thus contributing to strengthening rural development and innovation in participating regions. RIBES will implement 9 local Multi-actor Transformative Forums (MTFs) based on the Living Lab and Open Innovation concepts to address complex societal challenges and problems by putting stakeholder participation and deliberation processes at the centre, aiming at systemic transformative change (instead of only addressing symptoms) in the three pillars of technological, social and economic innovation to co-create tailored business and governance models.

Contact person: Prof. dr Đorđe Đatkov

Period of realization: 2024-2025

ID: HORIZON-CL6-2023-GOVERNANCE-01 (101134911)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



10. Restoration of wetland complexes as life supporting systems in the Danube Basin - Restore4Life

Description: Restore4Life demonstrates the multiple socio-economic benefits generated by a holistic and transdisciplinary approach for the restoration of freshwater and coastal wetlands in the Danube basin that will contribute to new blue-green infrastructure supporting regional climate change resilience and mitigation. Restore4Life engages in 4 demonstration sites and 6 monitoring sites all across the Danube basin to make evident that increased delivery of key ecosystem services, as water and pollutant retention, carbon sequestration and tourism opportunities as well as improved resilience of water-dependent habitats will produce multiple socio-economic synergies that also provide opportunities for sustainable businesses and investments. Implementation of activities basically aiming to restore lateral connectivity in riverine corridors will be supported by a Restore4Life long term wetland restoration service/ Restore4Life Wetland Reconstruction Accelerator that combines timely integrative wetland management with a novel level of societal engagement. The Accelerator will provide tested indicators, monitoring approaches and decision support to identify adapted and future-oriented restoration goals, techniques and holistic road maps. Citizens and stakeholders will be empowered to engage in the co-design of projects by establishing stakeholder communities of practice, by twinning of similar projects at different realization stage, citizen science, thematic mobile apps and the use of multiple communication channels with special focus on visual, hands-on interactive information flow that promotes emotional links to water shaped environment. The various tools generated by Restore4Life also including handbooks for business audiences and targeted restoration roadmaps will secure the efficient replication of restoration activities in associated regions. In collaboration with similar mission activities, Restore4Life thus efficiently supports integrative social and economic transitions.

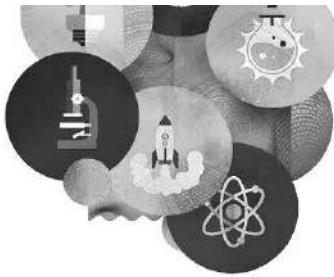
Contact person: Prof. dr Milan Segedinac

Period of realization: 2023-2027

ID: (101112736)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



11. Innovative Sediment Management Framework for a Sustainable Danube Black Sea System- SUNDANSE

Description: The Danube River has played a vital role in supporting both human and animal life for centuries. Since the late 19th century, human interventions have significantly altered the natural flow of the river to optimize its utility. These interventions have included actions such as straightening the riverbed, constructing hydropower plants, collecting freshwater, establishing nuclear power plants, engaging in agriculture, and facilitating navigation. The combined effects of climate change and extensive river regulation have led to a significant disruption in the natural balance of sediment in the Danube River, increasing flood risks, altering hydropower production, decreasing navigability of the river, and affecting biodiversity within the Danube Basin. SUNDANSE will:

- carry out a conceptual Driver-Pressure-State-Impact-Response with multiple levels of analysis (catchment level, water body level, etc.) to understand and address environmental issues of the uniqueness of Danube river lighthouse
- realize maps for observation of critical points for excessive sedimentation and/or excessive erosion, sediment transport and flow restoration
- perform innovative actions of measurements using cutting-edge portable on-vessel equipment prototypes for the direct analysis of microplastics and toxicity
- achieve an advance numerical prediction model of sediment transport process in the Danube River basin, to have a comprehensive overview of river dynamics
- develop an Innovative Sediment Management Framework for enhanced and sustainable sediment management within the Danube River basin
- produce an Action plan and Roadmap for associated regions to upscale demonstrated sustainable and effective solutions for sediment management
- fulfil interconnections synergies with DanubeSediment and SIMONA projects and ICDPR initiatives
- improve the trans - national and cross - sectorial cooperation, contributing to a better governance in region and to implementation of EU strategi.

Contact person: Prof. dr Miljana Prica

Period of realization: 2024-2028

ID: HORIZON-MISS-2023-OCEAN-01-(101156533)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



12. Horticultural innovations in soil-friendly practices to ensure a sustainable future - Hort2thefuture

Description: Europe's horticultural production systems face 3 main sustainability problems: i) continued reliance on peat growing media, and drawbacks of current peat alternatives; ii) inefficient or inappropriate use of agricultural inputs; iii) suboptimal soil health due to unsustainable management practices. The multi-actor project Hort2thefuture will address these 3 challenges over 4 years with research, supplier, retail, and grower partners representing 11 European countries. Activities are divided between 7 Work Packages corresponding to the project's key objectives, together with project management. The objectives are to: (1) develop a methodological framework and tools for effective sustainability/Life Cycle Assessment analysis, (2) create and foster the commercial uptake of relatively low-cost, reliable, scalable growing media in horticulture, using EU-sourced raw materials, having substantially lower carbon and environmental footprints than peat, (3) develop and commercialize novel products and production systems that reduce input use in horticulture, (4) develop and commercialize novel products that improve soil structure and mitigate soil compaction in horticulture, (5) facilitate behavioral change to more sustainable practices through Living Labs and policy measures, and (6) communicate, disseminate & exploit project results effectively to 7 stakeholder audiences, raising soil literacy. The project will deliver outputs at TRL5-7 for Decision Support and LCA tools, an in planta nitrate monitoring electrode, new peat-free alternatives being commercialised, based on wood fibre, nano/micro-irrigation products developed to improve irrigation efficiency and soil health, as well as commercialised biological, chemical and mechanical solutions to reduce/prevent soil compaction, restore compacted soils and improve soil structure. These outcomes will help realize Mission: Soil health objectives, involving stakeholders along the whole agri-food chain and cooperation with FAO.

Contact person: Prof. dr Goran Stojanović

Period of realization: 2024-2028

ID: MISS-2023-SOIL-01-05-(101157434)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



13. Intelligent Wearable System for Enhanced Personalized Gait Rehabilitation - GaitREHub

Description: The GaitREHub project wants to provide an innovative solution – an Interactive Smart Wearable System with Artificial Intelligence for Personalized Gait Rehabilitation, by developing an interactive tool for rehabilitation at home with real-time tele-monitoring from the clinic. This system will enable gait training for neurologically injured patients and any other patient in need of gait rehabilitation, in their own homes. The project will allow patients to practice walking, have their performance and improvement monitored in real-time by professionals, and reduce the costs associated with traditional clinical treatment. The collected gait training data will be analysed and shared through a feedback tool for the patients and their rehabilitation team, allowing for monitoring and further training prescription without the need to physically attend a clinic. The ongoing COVID-19 pandemic has revealed the fragility of many health systems in the EU and globally, and the dire need for their digital transformation, including remote connections between healthcare workers and remote patient-monitoring technologies.

Contact person: Prof. dr Goran Stojanović

Period of realization: 2023-2026

ID: HORIZON-MSCA-2021-SE-01-(101086348)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



14. Advanced Cloud and High-performance Computing Education for a Valiant Europe—Achieve

Description: The Advanced Cloud and High-performance computing Education for a Valiant Europe (ACHIEVE) project aims to enhance the quality of EU higher education in IT infrastructures, particularly High-Performance Computing (HPC). It plans to implement a double-degree master's program focusing on Cloud and Networking Infrastructure, with specializations aligning with the strategic development of advanced, green, and efficient HPC systems. The program will be designed and delivered by eight higher education institutions from six different countries, in partnership with major industry associations, companies specializing in cloud computing and HPC, an innovative SME for educational program delivery, a non-profit association, and EIT Digital. ACHIEVE will also develop self-standing online modules on Cloud and Networking infrastructure and HPC, designed to provide flexible, in-depth learning opportunities. These modules will cater to diverse learning needs, enabling both students and professionals to enhance their knowledge and skills at their own pace. The program emphasizes fostering strong academia-business interactions, promoting entrepreneurial spirit, inclusiveness, and contributing to the growth of the EIT Digital ecosystem. Beyond the specialized master's program, ACHIEVE will develop standalone learning modules on Cloud and HPC topics, beneficial for on-the-job training, lateral entry employees, and raising awareness about the significance of Cloud and HPC in the digital era. The modules will lead to certifications in advanced digital skills from participating educational institutions and EIT Digital. Aligned with the Digital Compass and New European Innovation Agenda, ACHIEVE's curriculum will train over 150 participants across ten Member States, at MSc levels. It aims to bridge the gap in advanced digital skills in Europe, enhancing competitiveness in crucial digital technology domains like Cloud Computing and HPC.

Contact person: Prof. dr Dušan Gajić

Period of realization: 2024- 2028

ID: DIGITAL-2023-SKILLS-05-SPECIALISED-EDU-(101190015)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



15. CENTRAL INNOVATION POINT - SERBIA – CIPS

Description: This proposal addresses the actual and current needs within Serbia's ecosystem identified by the partners. The challenges faced by start-ups and MSMEs include limited support available to specific business initiatives within the ecosystem, limited access to finance, absence of networking and internationalization of operations. This proposal outlines three key objectives: - To resolve concrete technology issues in companies and other entities and enhance their development through professional support and promotion of cooperation with the R&D sector. - To increase knowledge, capacities and competencies of companies and institutions in business and technology area. - To enhance cooperation in all directions – B2B, stakeholder cooperation, international networking and cooperation – and facilitate access to finance for MSMEs. The entire outlay of the project is closely aligned with the objectives of the call for proposals, national and EU level strategies, current efforts by Serbian government. The EDIH point will focus on specific technologies: AI, high performance computing, cybersecurity and digital skills. The proposal also demonstrates alignment with other program outcomes and deliverables including: testing before investing, training and skills development, support to find investments, networking and access to innovation ecosystems. The action plan is structured into four work packages: WP1 CONCEPTS, where the partners will support concrete technology solutions, testing and joint initiatives of MSMEs; WP2 KNOWLEDGE, where training and capacity building will be implemented; WP3 NETWORKING AND FINANCING where platforms for cooperation and concrete support in networking and contacts with financiers will be provided; WPO MANAGEMENT AND COMMUNICATION as a horizontal measure. The consortium's composition is highlighted as ensuring efficient implementation and sustainability, with all partners possessing solid track records and competencies relevant to the project.

Contact person: Prof. dr Boris Dumnić

Period of realization: 2024-2025

ID: DIGITAL-2023-EDIH-04-ASSOCIATED-(101191422)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



16. Green, Organic and Printed Ultra-High Frequency Identification Tags- GRETA

Description: GRETA will lay the foundation of the first green, printed and flexible organic wireless identification tag operating at Ultra-High Frequency (UHF, 300 MHz – 1 GHz). The long-term vision is to enable remote powering and readout of tags up to meters distance range, as required in logistics and security, without the need of a battery and with drastically reduced lifecycle impact and costing with respect to any available passive radio-frequency identification (RFID) technology. To achieve such overarching goal, GRETA aims at groundbreaking progress along two specific complementary actions: - Action 1: Removing present barriers preventing sustainability of printed organic electronics, by tackling the most environmental and economically impactful aspects, yet seldom addressed, of organics synthesis and processing. - Action 2: Demonstrating unprecedented UHF operation of printed organic electronics. Measurable objectives of GRETA are: Objective 1. Green synthesis and development of sustainable and biodegradable materials (Action 1); Objective 2. Sustainable inks formulations for large-area printing tools (Action 1); Objective 3. UHF electronics based on sustainable printed organic semiconductors (Action 2); Objective 4. Enable an eco-designed, printed UHF wireless tag with sustainable lifecycle. Objective 4 is dedicated to demonstrators of the entire effort: GRETA UHF tag, demonstrating rectification of a 400 MHz wave to enable a code generator, and GRETA UHF logic, demonstrating a sustainable printed integrated 4-bit shift register. GRETA perfectly matches the scope of the Call as it serves emerging digitalization needs in logistics, healthcare and security without adding e-waste, independent from the silicon industry and from any critical raw material, and delivering safe materials for the environment. GRETA will quantify its drastically reduced environmental impact with a full LCA, along a cradle-to-grave approach, anticipating end-of-life scenarios.

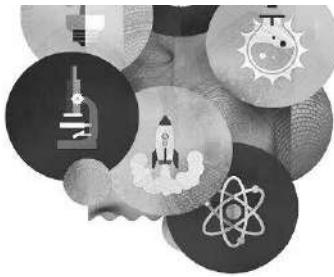
Contact person: Prof. dr Goran Stojanović

Period of realization: 2025- 2028

ID: HORIZON-EIC-2023-PATHFINDERCHALLENGES-01-(101161032)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



17. Intelligent Multi Agent Robotic System- iMARS

Description: The iMARS vision aims to revolutionize emergency services by harnessing AI, robotics, IoT, and cross-disciplinary expertise. This research program facilitates collaboration among three first responders, an industrial SME, and four research institutions, fostering the exchange of knowledge and personnel across sectors and borders. Its core impact lies in promoting a holistic problem-solving approach and practical innovation in emergency response through: 1. Multidisciplinary Collaboration: Leveraging diverse fields to create solutions surpassing the limitations of individual disciplines. 2. Knowledge Exchange and Mobility: Offering secondments to blend academic and industrial insights, ensuring real-world applicability of research. 3. Professional Development: Providing training to develop a skilled workforce ready to deploy advanced technologies in emergencies. 4. Creativity and Entrepreneurship: Cultivating an environment where innovation flourishes, potentially sparking new ventures focused on emergency services. 5. Sector Interaction: Ensuring direct involvement of end-users, from first responders to industry experts, guarantees that developments are user-centric and actionable. 6. Technological Advancements: iMARS addresses the full technology spectrum, from data acquisition to advanced communication, aiming for comprehensive enhancements in emergency operations. 7. Humanitarian Focus: Prioritizing the use of robotics in search and rescue to improve outcomes for society reflects the project's commitment to humanitarian values. iMARS stands to redefine emergency service provision, making it more robust and efficient. By aligning cutting-edge technology with strategic collaboration, iMARS sets the stage for global advancements in emergency management and could become a benchmark for international cooperative innovation.

Contact person: Doc. dr Miroslav Ferenčák

Period of realization: 2024- 2028

ID: HORIZON-MSCA-2023-SE-01-01 (101182996)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



18. Advancing the Digitization and Analysis of Dynamic Cultural Heritage Objects- KINETIKA

Description: The KINETIKA Platform is the integration of advanced technologies that have been developed to meet the challenges of managing and understanding the dynamic nature of cultural assets. The architecture is developed in such a way that it handles, analyses and stores the multimodal data while being interoperable with the European Collaborative Cloud for Cultural Heritage (ECCCH). All these components are solutions to the problems of how to manage and engage with mechanical cultural heritage objects, which are dynamic and present challenges in their digitization and interpretation.

The foundation of the platform is the microservices architecture that was chosen because of its ability to provide the highest level of flexibility and scalability. This architecture is useful because it allows the system to be broken down into many small components which are able to perform one task, for example data input or dynamic simulation. This design is modular and allows the platform to be developed in an incremental manner, while at the same time being highly fault tolerant as the failure of one service does not affect others.

Contact person: Prof. dr Ratko Obradović

Period of realization: 2026- 2028

ID: HORIZON-CL2-2024-HERITAGE-ECCCH-01-01 (101233379)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



19. Patient AI Treatment Hub – PATH

Description: Cancer is one of Europe's leading health burdens, responsible for 26% of all deaths in 2021, with mortality expected to rise by 24% by 2035 and an economic impact exceeding €100 billion annually. Despite the ambitions of Europe's Beating Cancer Plan, integrating complex cancer data across systems remains a major obstacle. The European Health Data Space (EHDS) seeks to address these gaps, though challenges around interoperability, privacy, and infrastructure persist. In this context, PATH will transform cancer care by leveraging secure data exchange and digital technologies to improve early detection, diagnosis, treatment, and long-term patient outcomes. Through the integration of AI tools into clinical workflows, PATH will foster a safe, ethical, and sustainable healthcare ecosystem, aligned with the Beating Cancer Plan and the EHDS. The project will create a federated, privacy-preserving health data space supporting interoperability and data fairness. AI models will be trained on representative, FAIR-compliant datasets with built-in transparency and bias mitigation. Federated learning and Trusted Execution Environments will enable secure, real-world model refinement while preserving patient privacy. An AI-powered dashboard will connect clinicians, patients, and developers to deploy validated tools and ensure broad adoption. To ensure long-term impact, PATH will conduct EU-wide pilot studies evaluating clinical outcomes, survivability, efficiency, and cost-effectiveness. It will also establish scalable business models, promote digital literacy among healthcare professionals, and drive cross-sector collaboration for responsible, evidence-based AI integration across Europe's cancer care continuum.

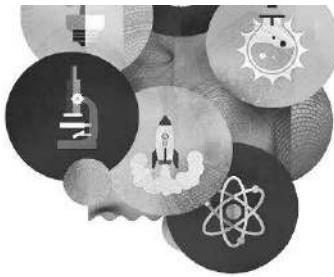
Contact person: Prof. dr Tatjana Lončar-Turukalo

Period of realization: 2026-2029

ID: HORIZON-JU-IHI-2025-09-04-single-stage (101253520)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



20. Co-creating safer Living Roads for all through a holistic, multi-level, participatory approach to cultural transformation - ROADS4ALL

Description: Roads4All orchestrates a transformative shift in traffic safety culture across Europe through a holistic, multi-level approach targeting individual, organisational, and institutional levels. Conceptualising Living Roads, we co-design, implement and evaluate a comprehensive and tailored set of real-world, theory-informed, context-specific, and culture-sensitive road safety interventions in 5 diverse settings. Our approach centres on continuous engagement with all key stakeholders, ranging from school communities and road users to enterprises and authorities, establishing continuous consultation, collaboration, and feedback. Drawing on evidence-based tools we develop, such as the Roads4All model, framework and decision support toolkit, our interventions leverage both theoretical and empirical insights. We drive change to influence attitudes and promote safe behaviours by innovating with open schooling and Cultural & Creative Arts and experimenting with advanced technologies. We educate, increase awareness building readiness for change, cultivate empathy and co-existence on road, and recommend safe organisational practices. Ultimately, we create guidelines, a roadmap for change and suggest policies towards institutionalisation of traffic safety culture. By integrating strategy and practice, we seek to develop essential values and norms that support a robust traffic safety culture. With a special emphasis on youth, we aim to address high-risk groups and promote long-term behavioural change. Our diverse consortium, consisting of 14 partners from 8 countries, and our consultation structures at national, EU and international levels, bring together a wide range of expertise across EU and beyond, ensuring the replication and sustainability of Roads4All results in various cultural and contextual settings, and paving the way for a traffic cultural transformation that is aligned with targets for climate, health, and more.

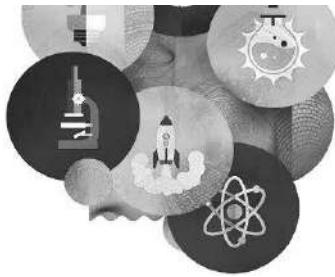
Contact person: Prof. dr Dragan Jovanović

Period of realization: 2025- 2027

ID: HORIZON-CL5-2024-D6-01-12 (101203314)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



21. Strategic Micro-Credentialing and Skills

Recognition for a Dynamic ESRs Talent Ecosystem - SMART Researchers

Description: The overall objective of the SMART Researchers project is to establish and institutionalize comprehensive, sustainable talent development ecosystems for ESRs across various positions in Widening Countries. By scaling HR excellence in line with the Council Recommendation on a European Framework for Research Careers and the European Charter for Researchers, the project aims to improve working conditions and create a capacity- building framework for European Competence Framework for Researchers-based micro-credentialing and certification. This framework will enable ESRs to acquire and demonstrate advanced skills essential for thriving in interoperable careers, addressing the transversal labor market demands of the twin transitions—green and digital—driven by R&I. The foundation of the project lies in the creation of Career Support Center, which provide continuous career guidance and tailored capacity- building for ESRs. These CSCs will implement Strategic Action Plans for ESRs career development that align institutional HR practices with the Council Recommendation on a European Framework for Research Careers and the European Charter for Researchers. A key component is the development of a micro credentialing and certification framework based on the ResearchComp. By supporting talent development and career progression of a large pool of R&I positions, the project equips the European labor market with well-skilled researchers, enhancing organizations' capacity for training, career development, and talent circulation. Additionally, the project provides policy feedback on implementing the European standards research careers, ensuring continuous alignment with best practices in talent development. The involvement of ESRs at every stage—from competency mapping to policy development—ensures that the solutions created directly address the precariousness they face, building a more stable and sustainable career landscape for researchers across Europe.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2025- 2028

ID: HORIZON-WIDERA-2024-ERA-02-03 (101216967)

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



22. Translational Research in Action for Cancer in regional Ecosystem -TRACE

Description: TRACE | Translational Research in Action for Cancer in Regional Ecosystems aims to bridge the research-to-practice gap in effective cancer awareness and prevention programmes, with a focus on underserved populations, for the improvement of the quality of life of patients and survivors, by collecting and analysing evidence on their needs. TRACE will implement a translational research initiative to develop regional ecosystems in three countries: Portugal, Poland, and Serbia, aligning with the objectives of the EC's Mission on Cancer. The project will focus on reinforcing the regional ecosystems around 3 Universities (UNL, GUMED and FTN) involving the quadruple-helix of stakeholders to integrate cancer research and data from universities and research institutes with local healthcare systems, small and medium-sized enterprises (SMEs), public services, and grassroots organisations towards evidence-based literacy and prevention initiatives. By fostering transdisciplinary collaboration between higher education institutions and regional stakeholders, innovative, co-created approaches to cancer prevention can be tailored to the specific needs of each country and region. Citizen Science, public health programs in underserved areas, awareness campaigns, and Living Labs will bridge the gap between research and healthcare by ensuring new knowledge and evidence-based innovations are developed, tested, and implemented in real-world settings. This reduces inequities and benefits underserved communities that face challenges accessing cancer care. Additionally, the creation of a common data-sharing platform and cascade funding through an Open Call will involve industry, health, and social providers, ensuring the sustainability of the engagement model. This model will be implemented in 3 ecosystems, allowing the local, regional, and national layers to be enriched by transnational exchange and mutual learning between countries at different maturity levels, expanding ecosystem growth.

Contact person: Prof. dr Tatjana Lončar-Turukalo

Period of realization: 2025- 2028

ID: HORIZON-MISS-2024-CROSS-02-01(101217160)

The Danube Transnational Programme is a financing instrument of the European Territorial Cooperation (ETC), better known as Interreg. ETC is one of the goals of the European Union cohesion policy and provides a framework for the implementation of joint actions and policy exchanges between national, regional and local actors from different Member States.

The Danube Transnational Programme (DTP) promotes economic, social and territorial cohesion in the Danube Region through policy integration in selected fields.

In order to achieve a higher degree of territorial integration of the very heterogeneous Danube region, the transnational cooperation programme acts as a policy driver and pioneer to tackle common challenges and needs in specific policy fields where transnational cooperation is expected to deliver tangible results.

Considering its geographical coverage, this highly complex programme provides a political dimension to transnational cooperation which is unique in Europe, successfully facing challenges such as ensuring good mechanisms to contract partners who receive funding from different EU instruments.

The Danube Transnational Programme finances projects for the development and practical implementation of policy frameworks, tools and services and concrete small-scale pilot investments. Strong complementarities with the broader EU Strategy for the Danube Region (EUSDR) are sought.

1. Initiating bottom-up management solutions to reduce plastic waste in the Danube Basin - Aquatic Plastic

Description: The main objective of the AQUATIC PLASTIC project is to use growing knowledge to significantly reduce riverine litter within water catchment areas like the Danube River Basin (DRB). The project will deliver several outputs, including solutions to cost-efficiently assess microplastic contamination of rivers, solution for managing and recycling large waste deposits collected at HPPs; a software to monitor potential infiltration points; a proactive stakeholder group, the RiverSaver Participatory Platform to enhance water quality in the DRB; a policy advocacy package for the upcoming update of the DRBMP to address riverine litter. By focusing on the largest accumulations of riverine plastic and the empowerment of stakeholders, the AQUATIC PLASTIC project aims to achieve significant improvements in river water quality.

More about the project can be found at:

<https://interreg-danube.eu/projects/aquatic-plastic>

Contact person: Prof. dr Dejan Ubavin

Period of realization: 2024 – 2026

ID: DRP0200235

2. An AI/IoT –based system of GEosensor NETworks for real-time monitoring of unStable tErrain and artificial structures - GeoNetSee

Description: The GeoNetSee project will create a solution for monitoring unstable terrain and artificial structures, which will include a geosensor network and a platform for collecting, processing, and visualizing collected data in real time. In cooperation with partners, a location for research the local test area will be selected with an advisory role during the duration of the project. An innovation chain of technology and knowledge-intensive activities within the Danube region will be created, which will enable to close innovation gaps and towards the uptake of advanced technologies for a smarter and greener Danube region. The project will include a transnational cooperation to complement national and regional mainstream with innovative and coordinated policy, planning and pilot tested led delivery. The project will rely on existing infrastructure, experience, and knowledge from previously implemented and ongoing projects of similar character managed by project partners (GIMS, RISE, GeoTwinN (Horizon); EXA4MIND, safEarth, RESPONSA (Interreg); eTeren, BORIS, SoFPAS, GeoSES (infrastructure EU funded projects); MontePN, TRMODELL (innovative and IPA); URMA (European Space Agency funded project)).

More about the project can be found at:

<https://interreg-danube.eu/projects/geonetsee>

Contact person: Prof. dr Zoran Sušić

Period of realization: 2024 – 2026

ID: DRP0200783

3. Danube Digital transformation Network of Active industry training and knowledge transfer centers – Danube DNA

Description: The main challenge addressed with the project is the synchronized transnational digital transformation of SMEs towards industry and logistics 4.0, across the Danube Region. The main objective of the project is to create the Danube DNA Network – Digital Transformation network of Active SMEs training and knowledge transfer centers. The Danube DNA network will be the nucleus of integrative smart specialization, skills development, cross-sectorial collaborations, SMEs transformation, and transition towards industry and logistics 4.0, through the transfer of knowledge, inter-regional capacity building, jointly developed solutions, and implementation of innovative and sustainable pilot actions. Danube DNA main outputs and results will be:

Established Danube DNA network of “one-stop shops” for SMEs digital transformation and knowledge transfer along the Danube Region.

Established Danube DNA platform.

Transnational Guidelines for the smart specialization of the Danube Region.

Knowledge transfer sessions and capacity buildings organized in 12 Danube Region countries.

6 joint technological solutions.

More about the project can be found at:

<https://interreg-danube.eu/projects/danube-dna/>

Contact person: Prof. dr Sanja Bojić

Period of realization: 2024 – 2026

ID: DRP0200391

4. Analyzing and promoting energy storage solutions, developing tools to mitigate the intermittency of RES, contributing to an accelerated transition to renewable energy and more balanced electrical grids – StoreMore

Description: Energy storage is key to unlocking renewable power's full potential. Our groundbreaking project targets the critical challenge of energy storage within the Danube Region, specifically focusing on the environmental impacts of current storage methods and the need for more sustainable alternatives. Under the framework of the EUSDR Action Plan 2.1, our project is dedicated to assisting each country in the region in meeting its national targets by 2030, contributing to the European Union's ambitious goal of achieving 30% renewable energy usage by the same year, while adhering to the National Emission Ceilings. Strategic Direction & Envisaged Achievements: Our project's strategic direction is to expedite the transition towards a renewable energy-based economy in the Danube Region by enhancing energy storage capacities to alleviate the intermittency of Renewable Energy Sources (RES) and push towards a more balanced electricity grid. This is a pressing need as increasing the share of RES in electricity production requires a more balanced supply of these energy sources. More about the project can be found at: <https://interreg-danube.eu/projects/storemore>

Contact person: Prof. dr Filip Kulic

Period of realization: 2024-2026

ID: DRP0200271

5. Foresight for Danube Region's future-oriented Competitive Planning—ForeDanube

Description: The main project objective is the development of foresight activities in research and education in the Danube region. The project partners originating from EU and EU candidate countries plan to raise awareness about foresight in the university and economic public of their environments and through their associations (e.g., the Danube Rectors Conference) and also in the wider Danube region. The low awareness about foresight in the broader society shall be tackled in this way. Especially economy in the Danube region struggles with challenges as is e.g. disruptive innovation, because after the collapse of large industrial sights (brownfields) of the lower Danube region and the difficulty of the West Danube region in maintaining competitive advantages from former times, the family businesses lost orientation in the global markets and lack the insight to follow the new trends to a larger extent than in other North and West European regions. Additionally, most people working on foresight are self-educated and learning by doing.

More about the project can be found at:
<https://interreg-danube.eu/projects/foredanube>

Contact person: Prof. dr Đorđe Đatkov

Period of realization: 2024 – 2025

ID: DRP0401011

6. Integrated Disaster Management Network in the Danube Region-InDiMaND

Description: InDiMaND addresses the increasingly complex and cross-border nature of environmental risks in the Danube Region—such as floods, wildfires, heatwaves and droughts.

The project aims to build a trans-national, integrated disaster-management network that enhances regional coordination, improves interoperability among organisations, and promotes sustainable volunteer involvement (with a special focus on youth).

Key activities include:

- Developing and testing joint disaster-response models and standard operating procedures (SOPs) through research, workshops and pilot exercises.
- Raising awareness in communities, especially engaging volunteers and youth, via surveys, campaigns and outreach.
- Strengthening operational response capacity by mapping existing capacities, building e-learning tools, running training of trainers, exercises and co-creation events.

The result is expected to be a scalable, sustainable disaster-management framework embedded in institutions across the Danube Region, improving readiness and cooperation across borders. More about the project can be found at: <https://interreg-danube.eu/projects/indimand>

Contact person: Prof. dr. Igor Džolev

Period of realization: 2025-2028

ID: DRP0200029 DRP0301060

7. Establishing a Danube training academy as measure against brain drain from rural and crisis region – TransAC

Description:

The TransAC project (Establishing a Danube Training Academy as a Measure Against Brain Drain from Rural and Crisis Regions) is a three-year initiative led by the Carinthian University of Applied Sciences (Austria) under the Danube Region Programme. Its main goal is to combat brain drain and social stress in seven rural and crisis

affected regions across Europe by developing a transnational training academy focused on additive manufacturing (3D printing). The academy will provide accessible, inclusive, and high-

quality education and training opportunities, especially for young learners and vulnerable groups such as the unemployed, women, and older workers.

TransAC brings together 14 partners from 11 countries who jointly develop and test innovative training models, teaching methods, and learning environments such as virtual labs, FabLabs, and mobile laboratories. The project applies a triple-helix approach, uniting education, industry, and policy to strengthen regional labor and education markets. By involving stakeholders at every stage, TransAC ensures that training programs meet real market demands and contribute to regional development and employability.

The project's expected outcomes include a pilot training center, a fully established Danube Training Academy, and direct engagement of over 570 learners, with additional participants through synergy projects. Beyond skills development, TransAC aims to make participating regions more attractive places to live and work, thus reducing migration pressures and fostering sustainable, inclusive growth across the Danube region. More about the project can be found at: <https://interregdanube.eu/projects/transac>

Contact person: Prof. dr. Dejan Movrin

Period of realization: 2025-2028

ID: DRP0301105

8. Creation of a theme region and cultural route along the Roman Danube Limes to empower the socio-economic development of shared European heritage - ROMAN LEGACY

Description: The ROMAN LEGACY project aims to develop a transnational Cultural Route along the Roman Danube Limes, embedded within a broader Theme Region. This initiative highlights the shared Roman heritage that connects countries along the Danube, from Germany to the Black Sea. It capitalises on the legacy of earlier EU projects and unites partners from 10 countries to preserve, interpret, and promote this common cultural legacy. The ultimate goal is to submit the route for official certification as a Cultural Route of the Council of Europe. ROMAN LEGACY will achieve its goal through three key actions:

1. **Transnational networking and knowledge sharing:**

A stakeholder network and Scientific Board will be established to provide a collaborative platform for authorities, museums, tourism operators, and researchers across the Danube region.

2. **Joint presentation and Promotion strategy:**

The project will create a shared branding identity, interpretive framework, and digital tools (such as VR/AR reconstructions, a website, and mobile app) to present Roman heritage sites in a unified and engaging way.

3. **Creation and Certification of the Cultural Route:**

By defining the route, developing Roman Trails, and installing onsite materials, the project will prepare the application for certification as a Council of Europe Cultural Route and ensure long-term sustainability through an international management structure.

Website: <https://interreg-danube.eu/projects/roman-legacy>

Contact person: Prof. dr. Milena Krklješ

Period of realization: 2025-2028

ID: DRP0300976

Interreg VI-A IPA Hungary Serbia is an initiative implemented within the 2021-2027 European Union financial framework, under the Instrument for Pre-Accession Assistance (IPA).

Established by the Commission Implementing Regulation (EU) No 2021/1529 (IPA III Implementing Regulation) and implemented by the (Interreg) Regulation (EC) No 2021/1059 of the European Parliament, this instrument for pre-accession assistance serves as a financial source both for candidate (among them the Republic of Serbia) and potential candidate countries. IPA addresses five policy areas, whereas the “regional and territorial cooperation” (including CBC) is one of them. The main aim of the Programme is to foster and encourage the harmonious cross-border development of the region, by co-financing great ideas by non-profit organizations from the Programme’s territory. Hungary and the Republic of Serbia co-operate in a joint structure through shared management and joint decision making, with common financial resources available. The Programme priorities and objectives (chosen by the participating partner countries from the list of the Policy objectives and Specific objectives available in Article 3 of the 2021/1058 Regulation and Article 14 of the (Interreg) Regulation 2021/1059), as well as the main implementation modalities has been developed mutually, and were approved by the EC’s decision C(2022) 7444 on 14 October 2022.

This Programme is co-funded by the European Union.

1. Joint adaptation and mitigation measures to climate change supporting integrated water management on the Tisa River – ADAPTisa

Description: The ADAPTisa project aims to develop an Integrated Water Management Platform for the Tisa River using innovative tools and enhancing communication and cooperation among water and disaster management stakeholders to adapt to weather extremes and mitigate hydrological risks.

By now it is widely accepted that due to global warming, precipitation and evapotranspiration patterns will change in the cross-border region of Hungary and Serbia, resulting in a more dynamic hydrological cycle. Consequently, an increase in the frequency and intensity of extreme weather events is expected, affecting various aspects of human life. Weather extremes and related flood and drought events have become a significant threat to communities, infrastructure, and ecosystems in the Tisa/Tisza River Basin. These call for joint action to tackle the current challenges water management faces. The ADAPTisa project develops continuous, data-driven cooperation between water and disaster managers in the Hungary-Serbia cross-border region, focusing on mitigating hydrological risks and improving the region's adaptation capacity and resilience. More about the project can be found at:

<https://hungary-serbia.eu/projects/adaptisa>

Contact person: Prof. dr Slobodan Kolaković

Period of realization: 2024-2027

ID: HUSRB/23R/11/006

2. Developing sustainable solutions for the restoration of local ecosystems through pioneer use of discharged thermal waters - SPArrow

Description: The SPArrow project aims to sustainably revitalize the soda lakes and pans in the cross-border Homokhátság region. By using renewable thermal water resources, we will restore these unique, vulnerable habitats and enhance biodiversity, ensuring a sustainable future for this precious ecosystem.

The project focuses on finding a sustainable way to the revitalization of vulnerable and rare soda lakes and pans in the Homokhátság region with the use of discharged and filtered thermal water. By identifying sustainable practices, the project seeks to plan the restoration ensuring long-term ecological and societal benefits. By preparing the revival and preservation of these ecosystems, the project directly contributes to the protection and promotion of biodiversity in the area. The SPArrow project aims to promote nature-based solutions to minimize harmful impacts on these sensitive ecosystems. The Birds and Habitats Directives are key pieces of legislation aimed at protecting and conserving Europe's natural habitats and species. The SPArrow project directly contributes to the implementation of these directives by working towards the conservation and restoration of soda lakes and pans. More about the project can be found at:

<https://hungary-serbia.eu/projects/sparrow>

Contact person: Prof. dr Ivana Mihajlović

Period of realization: 2024 – 2025

ID: HUSRB/23S/12/020

This is a cross-border cooperation programme aimed at enhancing social, economic, and territorial development between Croatia and Serbia.

The programme focuses on fostering innovation, promoting environmental sustainability, improving healthcare services, and supporting sustainable tourism and cultural heritage. Key areas include developing research and innovation capacities, promoting renewable energy, enhancing climate change adaptation, and strengthening social inclusion

1. AI-Assisted Monitoring and Management of Invasive Plant Species in Cross-Border Region - Alnspec

Description: Invasive plant species (IPS) pose a significant ecological and economic challenge in the cross-border region, particularly in protected natural habitats. Their rapid spread threatens native biodiversity, disrupts ecosystems, and increases management costs for conservation authorities. Traditional monitoring and control methods are labor-intensive, time-consuming, and often ineffective in detecting IPS at an early stage. Additionally, current treatment approaches lack precision, leading to unintended environmental consequences. This project directly addresses these challenges by introducing an AI-supported drone-driven enhanced spectrum sensing system for IPS detection and a drone-based spraying solution for targeted chemical treatment. By integrating remote sensing and automated treatment technologies, the project aims to improve the efficiency, accuracy, and sustainability of IPS management in protected areas in the cross-border region. The project's main objective is to develop and implement an advanced, technology-driven approach to IPS detection and treatment, enabling conservation authorities to respond more effectively to the threat. By leveraging AI, remote sensing, and drone-based spraying technology, the project will:

- Enhance early detection of IPS, preventing further spread.
- Improve the precision and efficiency of IPS treatment, reducing environmental impact.
- Strengthen the capacity of nature management organizations to monitor and control IPS.
- Foster cross-border collaboration to develop and share innovative solutions.

Contact person: Prof. dr Jelena Radić

Period of realization: 2026-2028

ID: HR-RS00236

2. Boosting Research and Innovation Capacities in Cybersecurity-oriented and Functional Safety-oriented Smart Mobility- CySafe SmartMob

Description: The main objective of the project is to develop and enhance research, innovation, and educational capacities by modernizing the existing automotive infrastructure with two IT laboratories focused on cybersecurity and functional safety, aimed at creating innovative and secure AI-based automotive solutions, and by providing new knowledge and skills to the research and teaching staff of the project partners in the field of CS&FS-oriented AI-based SDVs.

Contact person: Prof. dr Ivan Kaštelan

Period of realization: 2026-2028

ID: HR-RS00269



Erasmus+

Erasmus+ Strategic Partnerships are transnational projects designed to develop and share innovative practices and promote cooperation, peer learning, and exchanges of experiences in the fields of education, training, and youth.

Overall, strategic partnerships aim to address horizontal priorities as well as field specific priorities in the areas of:

- Higher education
- Vocational education and training
- School education
- Adult education, and
- Youth.

There are two kinds of Strategic Partnership: those supporting innovation and those supporting the exchange of good practices.

Strategic Partnerships provide opportunities for a wide variety of public, private, and non-governmental organisations to implement a broad range of activities including, for example:

Strengthening cooperation and networking between organisations,
Promoting the development, testing, and implementation of innovative practices,

Promoting the recognition and validation of knowledge, skills, and competences,

Promoting cooperation between regional authorities to develop new systems for education, training, and youth,

Supporting education and training professionals to promote equity, diversity, and inclusion in learning



Erasmus+

1. Intelligent Methods for Structures, Elements and Materials (IM4StEM)

Description: The consortium of 7 partners will involve students and professors in seismic risk research, damage prediction and testing of new recycled building materials by using digital tools and ML to strengthen capacity in work, research and teaching and to educate for sustainable development. The backbone of activity is virtual and combined cooperation with the usage of IT tools and active involvement of all stakeholders from the public and private sectors in dissemination. During 36 months, data will be collected from databases and in situ via digital maps in several countries. Various scenarios, reports, guidelines and measures will be created through digital tools, machine learning and artificial intelligence. Laboratory tests of recycled const. material –bio mortar, bricks from Petrinja and demolished buildings from Turkey. Education through webinars, new and updated courses. Networking will be established with stakeholders within and cross-sector. Presentation of research results will be implemented in all partner institutions. Implementation of activities will result in developed IT tool and 52500 building characteristics will be collected. Models for prediction will be created and a Machine Learning Module implemented. Report of Predominant typologies of buildings, Priority index of building damage, Vulnerability predictions, application of biomortar, use of composites with recycled bricks will be developed. The vulnerability scenario for 3 levels of earthquake intensity will be developed and 10 webinars will be published. Within duration of project 600 students and 20 teachers will be educated. Consortium will create total of 3 new courses and 12 will be amended.

More about the project can be found at: <https://im4stem.eu/en/home/>

Contact person: Prof. dr Borko Bulajić

Period of realization: 2023-2026

ID: 2023-1-HR01-KA220-HED-000165929



Erasmus+

Erasmus+ Capacity-building projects in the field of higher education build on the success of the former Alfa, Edu-link and Tempus programmes and aim to:

Support the modernisation, accessibility and internationalisation of higher education in the Partner Countries;

Promote cooperation between Programme Countries and eligible Partner Countries (as well as among eligible Partner Countries themselves);

Promote voluntary convergence with EU developments in higher education;

Promote people-to-people contacts, intercultural awareness and understanding.

Capacity-building projects in the field of higher education are transnational cooperation projects, based on multilateral partnerships, primarily between higher education institutions from Programme and eligible Partner Countries.

Joint Projects operate at micro level and target higher education institutions in the eligible Partner Countries specifically.

They aim to modernise and reform higher education institutions through activities such as:

Developing new curricula or improving existing ones; Improving governance and management systems; Building relationships between higher education institutions and relevant socio-economic actors. Structural projects operate at macro level and target national higher education systems and policies in the eligible Partner Countries. They involve activities such as:

Modernisation of policies, governance and management of higher education systems; Strengthening relations between higher education systems and the wider socio-economic environment.

Projects can involve, where relevant, NGOs, SMEs and any organisations in the field of higher education.



Erasmus+

1. WEStern Balkan higher educational courses in data JOUrnalismju (WEBJOU)

Description: Data journalism and more generally, data-based communication represents a rapidly growing experience in higher educational courses and in professional training in European countries, since the media and news systems are more and more appreciating the use of data, in a systematic and scientific way, in the production of journalistic and communication content. WEBJOU project aims to promote knowledge exchange and multidisciplinary teaching and learning innovation in the Western Balkan reality, for what concerns providing all knowledge and skills, in particular from fields such as data science, statistics, visualization and communication, necessary to fruitfully operate in the data journalism and data communication frameworks. The WEBJOU Project has the following four major goals: 1. The definition of the profile of data journalism and data communication for the higher education (ISCED-6) with reference to the Wester Balkan higher education system. 2. The design of 6 modular courses, which can be composed to realize different training paths (Big Data, Data Visualization, statistical analysis, Geospatial representations, Story telling, Legislation on data property in EU (GDPR)). The courses will be compliant with a competences assessment and qualification system based on the ECTS credit points. 3. The realization of 7 first course/bachelor's (ISCED-6) in Data journalism, one for each participating HE, tailored for the Wester Balkan context with particular reference to the Albanian and Kosovan higher education system. 4. The development of an online platform. All the resources and teaching aids will be available to the public free of charge through open licenses. (Open Educational Resources -OER) To evaluate these objectives, WEBJOU will test the courses with 70 students with particular reference to females (50). Additionally, both academic and administrative staff will be trained both on the courses and on the learning platform.

Contact person: Prof. dr Uglješa Marjanović

Period of realization: 2023 – 2025

ID: ERASMUS+ KA2 - 101083122



2. Business Analytics Skills for the Future-proof Supply Chain (BAS4SC)

Description: BAS4SC project is focused on modifying and improving the higher education curriculum of supply chain management professionals at universities, resulting in improved processes of recognition competencies regarding business analytics. The project consortium envisages five universities that offer study programs including courses in supply chain management. So, the project partners are linked by the use of studies and practical experience in the field that's very important for the functioning of the global economy and for the operational functioning of single companies. Some facts that prove the importance of the logistics industry are: the European logistics market, contributing around 10% to European GDP, employing more than 10 million people, and amounting to more than 1150 billion EUR in 2021. The European logistics market is rapidly progressing to digital, intelligent, sustainable solutions. However, the skills gap in this sector is expected to be significant in the coming years. One of the skills the European logistics sector will need is business intelligence, which is expected to boost logistics competitiveness. There are several paths to develop business intelligence knowledge, which vary in time commitment, cost, and rigour. One of the best ways for future supply chain professionals to boost their skills is by taking appropriate university courses. BAS4SC project aims to develop courses that will be accompanied by innovative learning and teaching methods and materials, enabling learners to develop their analytical skills and put them into practice. The final project goal is to ensure that supply chain management professionals possess key digital and soft management skills for the rapidly changing logistics labour market. The project will seek to not only produce a business analytics skills strategy for logistics professionals but also to increase the number of these professionals – enhancing the efficiency of the whole logistics industry. In the end, advanced analytics and business intelligence capabilities can create an overall sustainable competitive advantage.

Contact person: Prof. dr Marinko Maslarić

Period of realization: 2022-2025

ID: KA220-HED-000088856



Erasmus+

3. Strengthening Engineering and Management Education foR the GrEen and Digital Twin Transition – (EMERGE)

Description: The EMERGE project establishes a multi-country cross-regional partnership comprising of: 3 HEIs and one industry partner from Azerbaijan, 3 HEIs and 1 industry partner from Kazakhstan and, 2 HEIs and one industry partner from Mongolia. 5 HEIs from 4 EU Member States (Latvia, Lithuania, Poland, Croatia) and 1 HEI from a third country associated with the Programme (Serbia) and one VET provider from Latvia. The primary aim of the EMERGE project is to facilitate a successful dual green and digital transition in the Neighbourhood East, Central Asia, and Asia regions, with a specific focus on the contexts of Azerbaijan, Kazakhstan, and Mongolia. This is achieved through the comprehensive development and adoption of twinning competencies in green, digital, and business skills necessary for a modern workforce, contributing to sustainable economic growth and job creation. Central to the project is the creation of an innovative competency-oriented learning ecosystem designed to equip future generations with the skills required to address the challenges and opportunities presented by the green and digital transition, thereby enhancing their positive societal impact. The cornerstone of this learning ecosystem is the competency-oriented curriculum model, which will be applied to modernize and enhance existing curricula in eight higher education institutions across Azerbaijan, Kazakhstan, and Mongolia. The EMERGE project's curriculum will expertly balance engineering and management disciplines, reflecting the dual nature of the green and digital transitions. Additionally, the project will establish an eLearning ecosystem, incorporating courses aligned with the competency-oriented curriculum model. These courses will integrate innovative instructional design approaches and Massive Open Online Courses (MOOCs) to ensure accessibility and effectiveness.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2024-2027

ID: ERASMUS-EDU-2024-CBHE-STRAND-2 – 101177203



Erasmus+

4. The ESG Imperative for the Project Management World: Alliance for Developing and Empowering Changemakers – (ESG4PMChange)

Description: The ESG4PMChange project stands at the forefront of integrating Environmental, Social, and Governance (ESG) principles into project management education and training, marking a pivotal shift towards sustainable business practices across Europe and beyond. This initiative represents a collaborative effort among HEIs, VET providers, PM2 Alliance, and Business actors to address the growing demand for ESG-focused competencies in the workforce. By fostering an environment of cooperation and knowledge exchange, the project aims to catalyze innovation, enhance the sustainability agenda, and create a significant multiplier effect. At its core, the project conducts an exhaustive education gap analysis to align current offerings with the dynamic demands of the job market for ESG-focused project management roles. Building on this foundation, the initiative develops standardized professional profiles and a competency framework, ensuring that project management professionals are equipped with the essential skills for integrating ESG principles into their work. This project pioneers an innovative ESG4PMChange learning framework, incorporating practical, real-world application through Living Labs, where students and professionals can apply ESG principles in actual project settings. This hands-on approach bridges the gap between theoretical knowledge and practical application, enhancing the learning experience and ensuring the curriculum's relevance and effectiveness. In addition to educational components, the ESG4PMChange project introduces a digital resource hub, integrating MOOCs and OER to provide accessible, high-quality learning opportunities on ESG project management. Moreover, the project establishes a pioneering micro-credential framework to formally recognize and validate ESG project management competencies.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2024-2027

ID: ERASMUS-EDU-2024-PI-ALL-INNO-EDU-ENTERP – 101187376



Erasmus+

5. Fostering employability through occupational health and safety education in Sub-Saharan Africa- (FOCUS)

Description: The FOCUS project aims to enhance occupational health and safety (OHS) education and professional development in Sub-Saharan Africa by strengthening the capacity of higher education institutions through upgraded curricula, professional development programs, and summer schools. By partnering with experienced countries, FOCUS will facilitate knowledge transfer to align with modern industry, regulatory, and organizational needs. The project emphasizes digital pedagogy, media literacy, and diverse educational methods, preparing institutions to meet 21st-century challenges. This initiative will address the regional gap in accessible, high-quality OHS training, building employability skills and fostering sustainable growth in the region.

Contact person: Prof. dr Maja Petrović

Period of realization: 2024-2027

ID: ERASMUS-EDU-2024



Erasmus+

6. Precise agriculture and sustainable environment curriculum modernization supporting climate change resilient society – (PASEC)

Description: Food security is one of the most important issues for the sustainability of human communities around the world and especially in Asian countries with high population growth or limited resources, such as Indonesia, Thailand and the Maldives. Therefore, the development of precision agriculture based on cutting-edge technological solutions is crucial and is included in all national (and also EU) development strategies. In parallel to food security, the introduction of modern technologies integrated into the digital technological revolution is an integral goal of all partner countries' (and the EU's) digitalization strategies. Higher education based on advanced knowledge and skills, supported by modern technological solutions, is an important prerequisite for the successful application of precision agriculture. The PASEC project therefore focuses on providing knowledge on advanced applications of geospatial technologies (satellites, drones and various sensors) in precision agriculture. By combining academic and entrepreneurial program partners specialized in this field (with the introduction of applications developed by them), the existing curricula of the Asian partners will be modernized and a new subject on the application of geospatial technologies in (precision) agriculture will be introduced. This will be achieved through the transfer of knowledge and skills, the acquisition of specialized equipment and the implementation of specific practical projects with teachers and students in the field, including communication and collaboration with farmers and business stakeholders, and finally through the implementation of a cross-partner hackathon for students. A careful selection of top universities from the partner countries, well distributed across the partner countries' territory, creates the conditions for the knowledge and skills acquired to be widely applied in the partner countries, thus achieving the expected program impact.

Contact person: Prof. dr Miro Govedarica

Period of realization: 2026-2028

ID: ERASMUS-EDU-2025-CBHE (101234799)



7. Boosting digital and green skills for a resilient and sustainable WB society – (SKILL2SUSTAIN)

Description: Research on sustainability and sustainability itself are today both a necessity and a challenge for higher education. In our Balkan region, there is a lack of a fully integrated approach to sustainability research and action. The Green Agenda for the Western Balkans (2020) represents a roadmap for the future, aiming to achieve climate neutrality and environmental sustainability by 2050. The green transition, in addition to new developments, includes the Renovation Wave policy, which aims to improve energy efficiency, boost the economy, and provide better living standards for Europeans. Resilient cities and fire safety in buildings, energy efficiency, the circular economy, and adaptation to climate change represent common challenges for the countries of the Western Balkans. Advanced solutions face a shortage of specific education, knowledge, and skills, particularly in light of the goals of the Digital Agenda for the Western Balkans (launched in 2018). Universities can play their role through experience at various levels of education (learning and teaching at undergraduate and master's studies, and through professional training).

The contribution of higher education to digital skills and green growth can be achieved in several ways:

By implementing courses that cover digital skills and green growth at the undergraduate and master's levels.

By training staff and professors involved in curriculum development on issues related to digital skills and green growth, as well as their objectives.

By providing capacity-building courses in the field of digital skills and green growth for other interested stakeholders.

By advocating for the implementation of public education policies that support education on digital skills and green growth.

Contact person: Prof. dr Mirjana Laban

Period of realization: 2025-2028

ID: ERASMUS



Erasmus+

Erasmus+ Cooperation Partnerships in higher education

The primary goal of **Cooperation Partnerships** is to allow organisations to increase the quality and relevance of their activities, to develop and reinforce their networks of partners, to increase their capacity to operate jointly at transnational level, boosting internationalisation of their activities and through exchanging or developing new practices and methods as well as sharing and confronting ideas. They aim to support the development, transfer and/or implementation of innovative practices as well as the implementation of joint initiatives promoting cooperation, peer learning and exchanges of experience at European level. Results should be re-usable, transferable, up-scalable and, if possible, have a strong transdisciplinary dimension. Selected projects will be expected to share the results of their activities at local, regional, national level and transnational level.

Depending on the field of the project proposed or on the type of applicant, Cooperation Partnerships are managed either by the National Agencies or by the European Education and Culture Executive Agency (EACEA). For more information in this respect, please refer to the section “where to apply” under the **eligibility criteria**.

Cooperation Partnerships aim at:

Increasing quality in the work, activities and practices of organisations and institutions involved, opening up to new actors, not naturally included within one sector;

Building capacity of organisations to work transnationally and across sectors;

Addressing common needs and priorities in the fields of education, training, youth and sport;

Enabling transformation and change (at individual, organisational or sectoral level), leading to improvements and new approaches, in proportion to the context of each organisation.



Erasmus+

1. Supporting the evolutive expansion of technical and entrepreneurial knowledge sets for electric vehicle technologies – EvolvEV

Description: EvolvEV aims at developing the technical and entrepreneurial competencies of current and future professionals in the EV sector in the Balkan region through a digital learning platform, accredited training programs and courses, workshops for technical skills, and competitions for business plan development, thus impacting a growing industry in need of more than 10000 workers in the near term in partner countries. EvolvEV will try to find ways to be active after the project ends.

EvolvEV will develop a knowledge, training, and innovation hub to advance technical and entrepreneurial knowledge sets in one of the most important green sectors – transportation electrification. EvolvEV will provide institutionally accredited courses with microcredentials through a common training programme with different topics for EVs and entrepreneurship. Virtual and Living Lab will be offered through the hub to researchers and industries worldwide for innovative research.

More about the project can be found at: <https://evolvev.eu/>

Contact person: Prof. dr Ivan Todorović

Period of realization: 2023-2025

ID: KA220-HED-CBC0E71E



Erasmus+

2. Sustainable project management through PM2- SPM2

Description: The Sustainable Project Management through PM2 (SPM2) project is an innovative initiative aimed at integrating sustainability principles into project management practices using the European Commission's PM2 methodology. The project seeks to enhance the digital and green capabilities of higher education institutions (HEIs) and vocational education and training (VET) providers, responding to labor market needs for professionals skilled in sustainable project management. The project will develop the SPM2 Guide and SPM2 Digital Resource Hub, providing practical tools and strategies for embedding sustainability in project management. Additionally, it will create a micro-credential framework for sustainable project management, standardized according to international standards (EQF, EQAVET, ECTS, ISO 17024). SPM2 will offer flexible training programs and micro-credentials to students, professionals, and educators, equipping them with critical skills in sustainable project management. These qualifications will be highly valued in the labor market, contributing to the development of a workforce prepared to address sustainability challenges across various industries. The project will also foster collaboration between HEIs, VET providers, and industry partners, ensuring that the educational content and developed skills align with real-world demands and sustainability trends.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2024-2026

ID: KA220-HED-59461896- 101187376



Erasmus+

3. Developing Innopreneurship, Sustainability and Culture - DISC

Description: Since 2000, universities have recognized the need to extend their impact beyond campus boundaries to achieve Sustainable Development (SD) goals within communities. Yet, only isolated efforts have been made to develop a comprehensive approach that spans learning, research, and collaboration across educational and business sectors.

Embark on a journey of competence development and validation in sustainability literacy at European Higher Education Institutes (HEI). The DISC Project is not just a project—we want to foster lasting collaboration among students and educators to create a sustainable future.

Contact person: Prof. dr Uglješa Marjanović

Period of realization: 2022-2025

ID: KA220-HED-3E79D279- 000087131



Erasmus+

4. ESG competences for the GLAM sector— ESG4glam

Description: ESG4GLAM aims to design and deliver a comprehensive Training Course and an ESG Knowledge Box to equip professionals in the GLAM sector (Galleries, Libraries, Archives, Museums) with the competences required to apply ESG (Environmental, Social and Governance) principles within their institutions. Building on an in-depth needs analysis, the project will identify the skills and competences essential for ESG-related roles in the cultural sector and develop a corresponding competency framework. Based on this framework, ESG4GLAM will produce a full training course and a prototype of an online platform, which will be tested and validated through in-person training with three groups of GLAM professionals and an online pilot involving a wider group of European practitioners. The project will deliver two core results: (1) the ESG Training Course and (2) the ESG Knowledge Box. By strengthening ESG knowledge and competencies in the cultural sector, ESG4GLAM supports institutions in improving their ESG practices and advancing toward more sustainable, inclusive, and responsibly governed organizational pathways. More information about the project can be found at <https://www.esg4glam.eu/>.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2026-2028

ID: 2025-1-IT01-KA220-VET-000364271



5. CREDIPILLS for XXI Century Skills – CREDIPILLS

Description: The CREDIPILLS project aims to develop and validate an innovative approach to strengthening and certifying 21st-century skills through short, intensive learning modules known as “Skill Pills.” The project introduces a flexible methodology aligned with a micro-credentialing system designed to confirm skill acquisition through a gradual, “small-steps” approach. CREDIPILLS focuses on twelve essential 21st-century skills: critical thinking, creativity, collaboration, communication, information literacy, media literacy, technology literacy, flexibility, leadership, initiative, productivity, and social skills. Key project results include:

- (1) a taxonomy of learning outcomes,
- (2) a comprehensive library of Skill Pills modules, and
- (3) the CREDIPILLS Playbook with reference models, learning pathways, and micro-credential criteria.

By integrating this modular, outcome-based approach, the project supports the development of essential competencies and contributes to a more flexible, skills-oriented educational environment.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2026-2027

ID: Erasmus+ KA220-HED



Erasmus+

6. Augmented and Immersive Reality in Higher Education – AIR

Description: The AIR project aims to enhance teaching and learning through accessible Augmented and Immersive Reality (A&IR) solutions in higher education. It will develop competence frameworks, training programs for educators, and certified A&IR courses available via the IDEAL learning platform. To support adoption, AIR will provide a cost-effective mobile tool for creating and experiencing A&IR content. Pilot activities will involve 60 students and 16 trained facilitators, testing collaborative, design-driven learning approaches. The project builds on a University Alliance and European networks, concluding with an international conference to present results and best practices.

Contact person: Prof. dr Uglješa Marjanović

Period of realization: 2025-2028

ID: 2025-1-IT02-KA220-HED-000359340



Erasmus+ Jean Monnet

Jean Monnet Activities are designed to promote excellence in teaching and research in the field of European Union studies worldwide. The activities also foster the dialogue between the academic world and policy-makers, in particular with the aim of enhancing governance of EU policies.

European Union studies comprise the study of Europe in its entirety with particular emphasis on the European integration process in both its internal and external aspects. The discipline also covers the role of the EU in a globalised world and in promoting an active European citizenship and dialogue between people and cultures.

There are 3 types of activities:

Teaching and Research: Jean Monnet Modules, Chairs and Centres of Excellence.

Support to Associations: Jean Monnet support to Associations.

Policy debate with the Academic World: Jean Monnet Networks and Jean Monnet Projects.

Key activities include courses, research, conferences, networking activities, and publications in the field of EU studies.

Opportunities are available to higher education institutions worldwide. Furthermore certain actions are open to organizations active in the European Union subject area and associations of professors and researchers specialising in European Union Studies.



Erasmus+

1. Information Technology in the Function of Harmonization of Criminal Procedure Law of Republic of Serbia with EU Law (IT4LEGALHARMONY)

Description: The aim of the project is to acquaint the wider academic community and civil society with the need to harmonize national rules of criminal procedure with EU rules, as well as with the importance of information technology in achieving this goal. One of the best illustrations of the potential of information technology to advance development of law is the harmonization of national with supranational legislation. Information technology has a great potential to automate many repetitive and simpler legal tasks. This potential is slowly but steadily being realized in the last decade with an upswing of many legal tech companies through EU and the world. The current UNS curricula do not usually provide the proper knowledge and skills in legal technology as their outcome. Thus the students in general lack awareness of possibilities of process of digital transformation in law. The project will foster the dialogue between future lawyers and IT professionals on the importance of harmonization of criminal procedure law of Republic of Serbia with relevant EU rules and acquaint students and wider academic community with legal technology and to enhance their digital skills and competence. The participants of the summer school are future representatives of the legislative and executive authorities at the local, provincial and republic level, holders of judicial functions, lawyers who will get acquainted with the European dimension of the project and who will promote the adopted European values in the future. Also, the dissemination activities shall inform the wider academic community and public in general about the importance of harmonization of national rules with EU legislation. This shall be accomplished by implementing three summer schools and disseminating information about the activities and the results of the project.

Contact person: Prof. dr Stevan Gostojić

Period of realization: 2022-2025

ID: 101047859



2. Enhancing PM2 Skills and Competencies for EU Funded Projects - PM²4EUfunds

Description: The PM²4EUfunds Module is designed as an interdisciplinary set of lectures, practical classes, training and outreach activities to bring the European PM² Methodology and its benefits closer to its broader stakeholders and potential user community. The PM²4EUfunds Module is based on three main pillars: Teaching; Training; Outreach encompassing activities oriented towards three target groups: Students, CSOs & student activists; the Academic community & General Public. The general objective of the PM²4EUfunds Module is to sustainably promote excellence in the management of EU-funded projects by introducing European PM² Methodology through teaching, training and outreach activities aimed at students, CSOs & student activists and the broad academic community. Furthermore, the Module seeks to increase the awareness, knowledge, and skills for successful, cost-effective preparation of a funding proposal and develop management capabilities for implementing EU-funded projects - towards common values of the European Union.

The specific objectives are:

1. By Revising the curriculum to integrate the PM² Methodology to sustainably build students' capabilities for managing EU-funded projects while promoting the EU Grant Landscape & Funding Structure.
2. By delivering PM²4EUfunds Training Academy to increase CSOs and student activists' management skills and capacities for EU-funded projects while promoting the EU Grant Landscape & Funding Structure.
3. By organising PM24EUfunds outreach activities to promote excellence in the management of EU - funded projects according to the standards of the PM² Methodology.

Contact person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2022-2025

Website : www.pm24eufunds.uns.ac.rs



Erasmus+

3. Challenges and opportunities for implementation of regulations on environment, occupational health and safety and labor relations based on the best European practices- ENROL

Description: The project focuses on perceptions of EU policy and best practices in selected topics in the field of environmental protection, occupational safety and health and labor relations and their impacts upon workplace changes and demands, educational retraining and new competences and skills. Human and technical resources available in the field of environment and occupational safety and health including labor relations conditions and opportunities for improvement are limited, resulting in insufficient monitoring, reporting and evidence-based policy actions. Focusing on EU policy in key areas of environmental protection, occupational safety and health and labor relations the project centers on several activities – blended learning summer school which will be available for interested parties (students from HEIs, stakeholders, industries, and government) from Serbia and countries such as Bosnia and Herzegovina, Montenegro and Kosovo as the main activity. Moreover, 6 round tables are planned in order to bring academics together with industry, business, policy makers and community stakeholders.

Contact person: Prof. dr Maja Petrović

Period of realization: 2022-2026

ID: 101085701



4. European Sustainable Development Goals - Embracing ESG for Business Transformation – ESDG

Description: The multidisciplinary Jean Monnet Module "European Sustainable Development Goals - Embracing ESG for Business Transformation" / (ESDG) hosted by the International Postgraduate School of Engineering and Management, Faculty of Technical Sciences, University of Novi Sad aim is to introduce and promote the EU'S ESG-related policies, initiatives, and directives through teaching, training, and outreach activities. The ESDG Module will target a wide range of audiences, including students, academics, the professional community, policymakers, and wider society. The focus will be on increasing awareness, knowledge, and skills for successful business transformation aligned with common EU values and Sustainable Development Goals. The aim is to inspire and motivate target groups to take action and become leaders in their respective fields, driving forward the EU's agenda for a more sustainable and prosperous future. SO 1. To integrate the ESDG Module into the MBA curriculum by incorporating EU'S ESG-related policies, initiatives, and directives into the existing "Business Strategies" course. This will be achieved through the development and annual delivery of a comprehensive course, establishing the ESDG module as a key component of the MBA curriculum. As a result, the UNS will be positioned as the leading HEI in Serbia, contributing to the promotion and implementation of EU'S ESG policies. SO 2. To establish the ESDG Training Academy at the University of Novi Sad as an annual training program aimed at promoting the integration of EU'S ESG-related policies, initiatives, and directives through the use of innovative training methodology and OER (Open Educational Resources). SO 3. To improve the understanding and awareness of the challenges associated with implementing EU'S ESG-related policies, initiatives, and directives among academic, professional, public and media communities through targeted and effective communication and dissemination efforts.

Contact person: Prof. dr Bojan Lalić

Period of realization: 2023-2026

ID: ERASMUS-JMO-2023-MODULE, 101127856



Erasmus+

Erasmus Mundus Design Measures (EMDM) have been introduced in 2021. They support the design of high-level and integrated study programmes, at master level. Joint programmes are designed and delivered by an international partnership of HEIs. Additionally, they may involve other educational and/or non-educational partners with specific expertise and interest in the area of study. Erasmus Mundus Design Measures encourage HEIs to develop new, innovative and highly integrated master programmes by facilitating the setup of such international partnerships. EMDM aim to involve EU Member States and third countries associated to the Programme (previously called Programme countries), institutions, and/or thematic areas that are somehow under-represented in Erasmus Mundus. By the end of the project, the involved HEIs will have agreed on the basic following joint mechanisms for the master programme under development:

- joint procedures for student application, admission, selection and monitoring
- rules and procedures for student examinations and performance evaluation
- joint programme design and integrated teaching/training activities
- common services offered to students
- joint promotion and awareness-raising strategy
- joint administrative and financial management by the partnership
- a joint degree policy
- a draft partnership agreement
- a draft joint student agreement



Erasmus+

1. International Masters in Risk Assessment and Management of Civil Infrastructures (NORISK)

Description: The NORISK Master's is a "Joint Master" under the Erasmus Mundus Joint Master Degree (EMJM) framework, delivered by a consortium of four universities: Universidade do Minho (Portugal, coordinator), La Rochelle Université (France), Universität degli Studi di Padova (Italy) and Universitat Politècnica de Catalunya (Spain).

It is fully delivered in English. The programme trains a new generation of professionals to work in the risk assessment and management of civil and critical infrastructures (transport, energy, communications, water, defence, etc) with emphasis on reliability, resilience, sustainability, digitalisation and intervention.

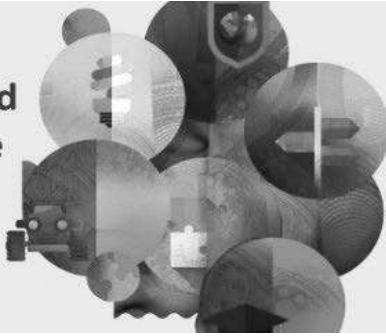
Mobility is a key feature: students complete coursework in one institution and the dissertation in another, among the partner universities.

Contact person: Prof. dr Mirjana Laban

Period of realization: 2024-2029

ID: 101128171

The Citizens, Equality, Rights and Values programme 2021-2027



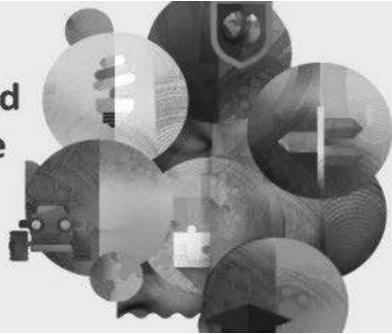
Citizens, Equality, Rights and Values programme overview (CERV)

The Citizens, Equality, Rights and Values (CERV) programme was launched in 2021 and will run for seven years until 2027. It was created along with the 2021-2027 Justice programme under the Justice, Rights and Values Fund.

The CERV programme seeks to support and develop open, rights-based, democratic, equal and inclusive societies based on the rule of law. That includes a vibrant and empowered civil society, encouraging people's democratic, civic and social participation and cultivating the rich diversity of European society, based on our common values, history and memory. The CERV programme has four pillars:

1. Equality, Rights and Gender Equality - promoting rights, non-discrimination, equality (including gender equality), and advancing gender and non-discrimination mainstreaming
2. Citizens' engagement and participation - promoting citizens engagement and participation in the democratic life of the Union, exchanges between citizens of different Member States, and raising awareness of the common European history
3. Daphne - fight violence, including gender-based violence and violence against children
4. Union values - protect and promote Union values

The Citizens, Equality, Rights and Values programme 2021-2027



1. Children's Holistic Initiatives for Literacy and Digital-AI Inclusion (CHILD-AI)

Description: This project aims to foster children's digital and AI literacy and promote their rights and safety in digital environments across the Western Balkans, with a particular focus on Albania and Bosnia and Herzegovina. Grounded in principles of inclusion, ethics, and empowerment, the initiative responds to the urgent need for structured, rights-based digital education that reaches all children—especially those from marginalized and underrepresented groups. The project will empower children aged 8–18 with the knowledge and critical thinking needed to navigate the digital world safely and ethically, introducing key concepts such as data privacy, algorithmic bias, and misinformation. Through a cascade Training-of-Trainers (ToT) model, over 250 educators will be equipped to deliver gender-sensitive, age-appropriate digital and AI education using an inclusive training curriculum and a co-designed Digital AI Literacy Toolkit. To ensure that children are not just passive recipients, the project will actively engage them as co-creators and campaigners, enabling them to lead awareness initiatives such as "My Digital Voice" and contribute to resource development. The approach will prioritize universal design for learning (UDL) to close digital access gaps for girls, children with disabilities, rural youth, and those in institutional care. On the policy level, the project will drive change by producing a regional Policy Paper and organizing roundtables with ministries and digital stakeholders, advocating for the integration of children's rights and ethical AI use into national education and child protection strategies.

Contact person: Prof. dr Nenad Medić

Period of realization: 2026-2028

ID: 101252980



EIT Higher Education Initiative

The EIT strengthens Europe's ability to innovate by powering solutions to pressing global challenges and by nurturing entrepreneurial talent to create sustainable growth and skilled jobs in Europe. The EIT is an EU body and an integral part of Horizon Europe, the EU Framework Programme for Research and Innovation.

The Institute supports dynamic pan-European partnerships, EIT Knowledge and Innovation Communities, among leading companies, research labs and universities. Together with their leading partners, the EIT Community offers a wide range of innovation and entrepreneurship activities across Europe: entrepreneurial education courses, business creation and acceleration services and innovation driven research projects.

EIT facts & figures

- Europe's largest innovation network: 2 000+ partners from top business, research and education organisations across Europe in 60+ innovation hubs across Europe
- Making innovation happen: powered more than 3,100 start-ups and scale-ups, created more than 1,170 new products and services that have gone to raise more than €3.3 billion in external capital. More than 3,100 students have graduated from EIT-labelled master and doctoral programmes, and over 10,000 have participated in EIT Community entrepreneurial trainings.

The EIT's Higher Education Initiative is supported by EIT's Knowledge and Innovation Communities (KICs) under Horizon Europe.



1. Boosting digital and green skills for a resilient and sustainable Western Balkan society - AI-InnoScEnCE

Description: The project seeks to mainstream a holistic approach toward the twin transitions of digitalisation and green economy in higher education institutions (HEIs) across the Western Balkans region.

Key goals include:

- Establishing Research & Education Centres (RECs) within HEIs in the region for green and digital transition.
- Raising awareness among staff and students about the need for green and digital skills.
- Promoting a culture of digitalisation and green transition in HEIs.
- Strengthening synergies between academia and stakeholders (industry, government, NGOs) for joint initiatives in digital & green transitions.
- Reinforcing networking and collaboration between Western Balkan and EU institutions and communities around digitalisation and green transitions.

Contact person: Prof. dr Goran Stojanović

Period of realization: 2025 – 2028

ID: 101178204



Western Balkans Fund – Supporting Common Projects

The Western Balkans Fund (WBF) is an international organization located in Tirana, Albania, founded by the governments of Albania, Bosnia and Herzegovina, Kosovo *, North Macedonia, Montenegro and Serbia. Its establishment, as an all-inclusive and regionally owned initiative, is considered as a clear sign of a new cooperation spirit taking roots in the Balkans.

The Agreement for the creation of WBF was signed by the Ministers of Foreign Affairs of WB6, on November 2015. The Fund has become operational on October 1, 2017, after the conclusion of the ratification procedures by all parliaments of its constitutive members.

WBF is financed by the six Contracting Parties in equal quotas. The First appointed WBF Executive Director, elected by the WBF Conference of Ministers of Foreign Affairs is Mr. Gjergj Murra, a career diplomat from Albania. Its Secretariat is in Tirana and it is composed by experts coming from all over WB Region.

WBF aims to promote cooperation and the common values between citizens, civil society and people to people contacts, by providing funding for small and medium projects, in the following key areas.

***This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.**

1. Empowering occupational health and safety for sustainable development in the Western Balkans – (GREEN4OHS)

Description: The project aims to address the lack of comprehensive education and collaboration in the field of Occupational Health and Safety (OHS) within the context of sustainable development in the Western Balkans. By empowering OHS educators, students, and professionals, the project seeks to introduce innovative tools and methodologies, such as risk assessment models, green workplace practices, and sustainable safety management strategies. The project's relevance lies in its focus on regional cooperation within the Western Balkans, recognizing the shared challenges of transitioning to green economies and ensuring workers' safety in rapidly evolving industries.

Contact person: Prof. dr Maja Petrović

Period of realization: 2025

ID: westernbalkanfunds



CEEPUS is an acronym for "Central European Exchange Program for University Studies".

CEEPUS is based on lean management. The highest ranking decision making CEECUS body is the Joint Committee of Ministers that meets once a year and takes all strategic decisions.

Coordination, evaluation, program development and advertising are the main tasks of the Central CEECUS Office (consisting of only two persons). Each country has a National CEECUS Office in charge of national implementation. In order to avoid setting up new administrative bodies, the National CEECUS Offices are integrated into already existing structures, usually national agencies.

The main activity of CEECUS are university networks operating joint programs ideally leading to Joint Degrees, esp. Joint Doctoral Programs. CEECUS covers mobility grants for students and teachers in this framework.

The main objectives are:

Focus on joint PhD programs.

Promote cooperation in the framework of the EUSDR.



1. Image Processing, Information Engineering & Interdisciplinary Knowledge

Description: The CEECUS network AT-0042 is an interdisciplinary consortium, integrating medical and engineering departments, established in 1997. The network emphasizes the sharing of expertise and the promotion of interdisciplinary collaboration. Consequently, there is a concentrated effort on exchanging knowledge pertinent to pediatric care, ranging from radiation protection to the diagnosis and treatment of leukemia, as well as the engineering of medical image processing technologies and the development of specialized software. The Pediatric Center at the Medical University Graz, comprising the Division of Pediatric Radiology-Department of Radiology, Department of Pediatrics and Adolescent Medicine, and the Department of Pediatrics and Adolescent Surgery, serves as a leading institution in this field. It provides support to partnering entities as required. This collaboration results in a certain imbalance, favoring Graz in terms of exchange benefits. Additionally, the "MULTIDISCIPLINARY PAEDIATRIC EDUCATIONAL COURSE (JULY)" is organized annually in July. Previously named the "CEEPUS Summer Academy of Pediatric Medicine," a title bestowed upon its inception in 2014 by Univ.-Prof. DDr.hc Erich Sorantin, the course was rebranded due to licenses granted to American and Australian universities; however, the program retains a reference to CEECUS under the section "Programme includes CEECUS Summer Academy of Paediatric Medicine Specialty: Paediatric Radiology," catering to 10 students for clinical rotations.

Contact Person: Prof. dr Tibor Lukic

Period of realization: 2025 – 2026

ID: CIV-AT-0042-21-2526



2. Applications and diagnostics of electric plasmas

Description: What is plasma and where can we find it? Electrical plasma consists of ionized matter and is frequently called the fourth state of matter. Every gas assumes this state when a sufficiently strong electric current is passed through it or when it is heated to more than about 10000 K or when it is exposed to intensive ionizing radiation (UV, X-rays, gamma-rays). More than 99 % of the visible matter of the universe is in the plasma state. The most common method to produce physical, technical or industrial plasma is the application of a dc or ac voltage to a more or less diluted gas and to produce a gas discharge in which electron impact ionization (frequently supported by secondary electron emission) produces sufficient charge carriers to pass an electric current through the gas. Recently, atmospheric plasma has become more important, i.e. discharges in gases at atmospheric pressure, which makes the use of expensive vacuum systems obsolete. Plasma consists of free positive and negative electric charge carriers – most commonly positive single-charged ions and electrons (as the negative charge carriers). But there are also plasmas with a large fraction of negative ions or clusters, which can be of high relevance for technical applications in reactive plasmas. It is the presence of negative and positive charge carriers which determines the behavior of plasma decisively, since for its theoretical description not only the laws of fluid mechanics, thermodynamics and statistics are required but also those of electrodynamics. For very hot plasmas such as fusion plasmas, also nuclear physics is required (fusion reactions) and, under extreme conditions, plasma particles can even become relativistic. An additional characteristic of plasmas is that the negative charge carriers (most frequently electrons) are much lighter than the positive charge carriers; in the case of hydrogen plasma the mass ratio of electron to ion is 1836. Due to the presence of electric charge carriers, plasma can be manipulated, confined and utilized by electric and magnetic fields.

Contact Person: Prof. dr Branko Škorić

Period of realization: 2025 – 2026

ID: CIV-AT-0063-21-2526



3. New teaching technologies and new applications in modernization of teaching at the Faculties of Technical Sciences in connection with the needs of small and medium enterprises in the environment

Description: "Technology can and should play an important role in curriculum planning, development, delivery, assessment, and administration. Technology must be "institutionalized in a faculty"- integrated into the culture and classroom practice of a University" (Nelson, Post, & Bickel, 2001). Professional development is essential to ensure that teachers are able to choose the most appropriate technologies and instructional strategies to meet district curriculum goals and student learning needs. The primary reason teachers do not use technology is a lack of experience with the technology itself (Wenglinsky, 1998). Technological trends inspire restructuring of higher engineering education in the direction of improving competencies of graduates. Based on the project objectives and planned activities, the expected outputs from this project are: a) Modernized Engineering studies by changing modules and courses focused on the specific and applied area of new technologies and in relevance to the labour market needs. b) (Updated existing and built new capacities concerning equipment, teaching materials, teaching methods, and teaching staff in order to achieve quality and relevance of the newly developed modules and courses. c) Improved regional and international university networks in engineering leading to the improvement of higher education performance. d) Implemented Project Oriented Methodologies in the Universities, as an innovative pattern and pedagogical methodology for improving the graduates' skills and for obtaining sustainable industry-education cooperation. Introducing the new technologies in engineering education will have an impact on improving the level of competences and skills in WBC engineering graduates and at the same time will improve the attractiveness of the study program.

Contact Person: Doc. dr Ivan Knežević

Period of realization: 2025 – 2026

ID: CIV -BA-1402-07-2526



4. RAiSE – Robotics, AI, and Computer Science for Engineering

Description: Robotics, AI, and Computer Science for Engineering connects education, science, and industry partners in Central and South-Eastern Europe to enhance teaching, research, and innovation in robotics, AI, and engineering. The network fosters interdisciplinary collaboration to tackle regional and global challenges, focusing on integrating AI and robotic solutions into real-world applications. Key activities include student and teacher exchanges, joint research, co-supervision of theses, and an annual Summer/Winter School on Robotics and AI, which offers hands-on experience with cutting-edge technologies. RAiSE supports bilateral agreements between institutions, ensuring mutual recognition of learning outcomes, facilitating mobility, and preparing students for global careers. The network includes 13 partners from 10 countries from faculties of electrical engineering, computer science, information and communication sciences, robotics and machine intelligence, medical & health technologies, and technical sciences. The RAiSE network brings together leading universities specializing in robotics, AI, and engineering across Central and South-Eastern Europe. Through its collaborative activities, the network facilitates student exchanges via targeted mobility schemas for one or two semesters or shorter durations. Teachers and faculty members gain valuable experience lecturing and conducting research at partner institutions. The network emphasizes support for students from low socio-economic backgrounds, enabling them to pursue studies and careers in robotics, AI, and engineering. This focus enhances their employability in emerging industries and provides a competitive edge in the global job market.

Contact Person: Prof. dr Mirko Raković

Period of realization: 2025 – 2026

ID: CIV-BA-2004-01-2526



5. Modern Trends in Education and Research on Mechanical Systems - Bridging Reliability, Quality and Tribology

Description: Mechanical engineering is one of the oldest and most diverse branches of engineering and supports industrial development in such areas as manufacturing and production, energy generation and conversion, chemical engineering, transportation, automation, robotics, etc. Nowadays, the existence of general crisis enhances the increasing and continuous need for improved methods of determining the reliability and predicting the lifetime and quality of elements, machines and production systems. This is especially valid for the European countries, particularly in Danube region, and in Central and East European regions. Attention will be turned to the role of tribology for the large and complex scope of reliability engineering and the different tribology-related methods to improve reliability and quality, such as reliability design, component lifetime, condition monitoring, and diagnostics. One of the tasks of tribology is to study and find the advantages from a full investigation of industrial failures, and using tribological knowledge and understanding to establish the causes and the ways of healing them. It is frequently possible to improve reliability and quality substantially by not so complex procedures, once the real cause of the mechanism of the failure is revealed and understood. An illustration can be given in the following consideration. What is wear? The tribological interactions of a solid surface's exposed face with interfacing materials and environment results in loss of material from the surface. The process leading to loss of material is known as wear, one of the most menacing tribological processes. Wear can be minimized by modifying the surface properties of solids by one or more of surface engineering processes or by use of lubricants. Engineered surfaces extend the working life of both original and recycled and resurfaced equipments, thus saving large sums of money and leading to conservation of material, energy and the environment.

Contact Person: Prof. dr Milan Rackov

Period of realization: 2025 – 2026

ID: CIV-BG-0703-14-2425



6. Modelling, Simulation and Computer-aided Design in Engineering and Management

Description: Advanced modelling and simulation frameworks and corresponding Computer-aided design tools have to be developed to provide methods and environments to deal with autonomous systems which are determined by intelligent and adaptive behavior. The know-how in the network "Modelling, Simulation and Computer-aided Design in Engineering and Management" can be useful in many ways to new traffic solution/Autonomous driving. A review of different partners' experience shows that the network can contribute in topics as:

- Modelling, simulation and testing the electronic and communication aspects of automobiles and unmanned aerial vehicles (UAVs or drones);
- Study, evaluation and applications of standards in Intelligent Transportation System - Network architecture, standards, routing protocols, coding and network security of VANETs;
- Design of Arduino-based sensor network in smart parking systems;
- Transmission line modelling for automotive applications;
- Development of Software tests for electronic systems in automobiles, using the systems PROVETech and Vision,
- Study on unmanned aerial vehicles (UAVs or drones) Safety regulations and Safety Management System.
- Object detection and tracking from live video streams which can be exploited for realtime control of unmanned vehicles (robotics, automotive, aerospace) in natural geometric environment. Such environments are characterized with high level of uncertainty in their structure and state and few others.

Contact Person: Prof. dr Slobodan Morača

Period of realization: 2025 – 2026

ID: CIV-BG-1103-10-2526



7. Development of Computational Thinking

Description: The network is focused on the development of computational thinking. Each of the partner institutions allows support for the development of specific components of computational thinking through a wide range of study programs and technical backgrounds and thus contributes to the comprehensive development not only for students but also for teachers. Among the offered study areas are, for example, algorithmization and programming, automation and robotics, virtual and augmented reality, artificial intelligence, etc. Within the network, it is possible to exchange not only students at all levels of higher education but also teachers. A key aspect is the cooperation of individual institutions to exchange examples of good practice, experience, views on the issues addressed, etc. to achieve the most effective combinations of approaches to the development of computational thinking. The network is also fully prepared for virtual and hybrid mobility thanks to its own e-learning platform.

Contact Person: Prof. dr Slobodan Morača

Period of realization: 2025 – 2026

ID: CIV-CZ-1503-06-2526



8. ABCD Network = Architecture, Built Environment, City Planning and Design Network

Description: The ABCD Network brings together 16 universities across Central Europe and the Balkans to advance education and research in architecture, urban design, and city planning. By fostering interdisciplinary collaboration and mobility, the network addresses contemporary urban challenges and equips students, researchers, and educators with the tools needed to shape the cities of tomorrow. A key focus of our network is the implementation of a semester-long joint studio, where students from multiple faculties collaborate on shared themes, encouraging creativity and cross-border interaction. We also organize workshops, which are a cornerstone of our activities, promoting hands on learning and innovation. Additionally, we actively facilitate mobility for PhD students and faculty, enabling advanced research and educational cooperation. Digital education plays a crucial role in our vision. We are committed to enhancing our e-learning environment, and we focus on the integration of digital tools and resources across the network. Joint studios utilize online platforms for critiques, workshops, and collaboration, ensuring continuous interaction among participants. Students also gain proficiency in advanced digital tools such as CAD, BIM, and visualization software, preparing them for the demands of modern architectural practice. Our network aims for inclusivity, with a particular focus on supporting young researchers and women. Through tailored opportunities such as mentoring programs, workshops led by female experts, and balanced mobility options, we empower them to excel in their fields and contribute to shaping a diverse and inclusive future for architecture and urban planning.

Contact Person: Prof. dr Anica Draganić

Period of realization: 2025 – 2026

ID: CIV-CZ-1602-05-2526



9. Concurrent Product and Technology Development - Teaching, Research and Implementation of Joint Programs Oriented in Production and Industrial Engineering

Description: According to CEEPUS IV Work Programme are developed and promoted university network is designed to stimulate academic mobility, in particular, regional student mobility i.e. joint programs in the frame of CII HR 108 network leading up to double i.e. joint degrees and joint thesis supervision and planned mobility actions will be set in that direction. Planned mobility actions are going to be equally stressed on joint programs on all academic levels with the workload for teachers in the sense of at least six teaching or supervising hours a week at the host university in accordance with CEEPUS IV Agreement. We have finalized our curriculum, and we were preparing common teaching materials in the frame of a curriculum on the level of BSc, MSc an PhD. We unified the methodology of modern industrial practices, educational-technological knowledge, and curricula. Successfully connecting the educational technological knowledge with the modern industrial praxis and the important topics in an industry in the frame of our joint curricula. On the level of the joint program, a strong industrial collaboration of the majority of project partners enabled high educational level. Specialization of each project participant and its implementation into the new joint curriculum. Determining of the optimal structure of the curricula enable set-up of Join Degree Diplomas, issued by partner universities in participating EU countries.

Contact Person: Prof. dr Mladomir Milutinović

Period of realization: 2025 – 2026

ID: CIV-HR-0108-19-2526



10. Research and Education of Environmental Risks

Description: A natural disaster is a major adverse event resulting from natural processes of the Earth; examples include floods, hurricanes, tornadoes, volcanic eruptions, earthquakes, tsunamis, and other geologic processes. Due to population growth and its concentration in densely populated areas there is an increasing need for modern society to be vigilant of the impact of catastrophic natural events. Every year, the number of disasters in the world is increasing. It causes more and more damage and deaths. Floods, forest fires and droughts, which do not choose either the place or time when to occur, have been causing irreparable damage, often threaten the lives of people, cultural, material resources and the environment. There are many areas, including towns and cities that are already at risk. Therefore, it is necessary to develop earthquake, tsunami or flood damage scenario by utilizing appropriate vulnerability assessment criteria, topographical information, building and infrastructure inventories, demographical data and other relevant facts. Seismic risk represents the degree of possible loss of human life and material assets in case of earthquake occurrence of a certain intensity in a given area and is usually expressed in relative numbers (in relation to the maximum possible loss). Seismic Risk Management is a process of systematic application of policies, procedures, treatments and monitoring of seismic risk. Managing risks means looking into the future, thinking ahead about the potential events, actions and consequences that one can be faced with in the future as a result of earthquakes, and taking timely measures to minimize risks, thereby avoiding or reducing adverse effects. Risk management includes: formal, quantitative evaluation of potential damage or loss at a given time interval; observation and correction of security deficiencies. The main objective is to provide sustainability in three crucial segments: development of leadership (human resources), capacity development (funds), raising public awareness (information, training and education).

Contact Person: Prof. dr Borko Bulajić

Period of realization: 2025 – 2026

ID: CIV-HR-1302-08-2526



11. Active Methods in Teaching and Learning Mathematics, Informatics and their Applications

Description: Our network is aimed at enhancing the Teaching and Learning of Mathematics, Informatics and their Applications in our partnership by finding those active methods which can catalyse the classical teaching methods using the excellent opportunities offered by CEEPUS network mobility. We build up our network activity by means of large cooperation based on the joint activity of 76 partners from 14 CEEPUS countries. The activity of our network has been awarded the CEEPUS Ministers' Prize of Excellence twice, in 2006 Ljubljana, and 2013 Vienna. We will create a shareable database with teaching videos, recorded lectures, course materials, teaching materials etc, offer to our partners to possibility to create a virtual visiting professorship portfolio, and making possible hybrid type mobilities. A great variety of teaching programs, intensive and joint activities and excellent partner staff contribute as well to cooperation, fulfilling the high quality, and to meet the needs of the labour market. The dedication of partner coordinators, the excellent silent partners resulted in combining networking with other cooperation forms, as organizing summer universities activities and planning a great number of various joint programs. We did organize an excellent summer University intitled GeoGebra Summit. 2021. Computer Algebra and Dynamical Geometry Environment in Education of Mathematics and Informatics we decided to organize it as on-line events due to the emerging restrictions. One of strengths in our network is the fact that many partner coordinators are members of decision-making bodies/are scientific or administrative leaders of the partner universities, organizations. The large variety and geographic situation of our partners allow us to hope that we strongly contributed to the challenges of the Danube Region strategy concerning the increase of mobility inside the countries of the region, especially the students of our 68 partner universities, exploiting the international dimension of innovation and research.

Contact Person: Prof. dr Slavica Medić

Period of realization: 2025 – 2026

ID: CIV-HU-0028-19-2526



12. SZE network in Business Studies

Description: The SZE network in Business Studies, as part of the CEEPUS (Central European Exchange Program for University Studies) framework, is a unique international platform focusing on business studies. Its primary aim is to foster cross-border collaboration between students and educators, providing opportunities for participants to deepen their knowledge, share experiences, and explore innovative approaches. The network's objectives align closely with the economic principles of CEEPUS, emphasizing efficient resource management and promoting sustainable international mobility. The program leverages the diversity of business studies to create practical learning environments that encourage global thinking, problem-solving, and collaboration. It pays special attention to sustainability and building intercultural connections, supporting the CEEPUS mission to advance education and economic development across Central Europe. By establishing this network, participating universities aim to enhance educational quality, offer attractive mobility programs for students and faculty, and develop a long-term sustainable and relevant educational framework. The SZE network prioritizes innovation, collaboration, and sustainable growth, creating positive impacts not only for business students but also for the economic and social development of the broader Central European region. The mission of the SZE network is to create an international learning and research environment centered on business studies, supporting professional excellence, intercultural collaboration, and sustainable development. The program prepares participants to address global business challenges and develop effective solutions to economic, environmental, and societal issues. The network's core principles include accessibility, inclusivity, and transparency. The SZE network ensures that all students and educators, regardless of their economic or geographical circumstances, can participate in the program.

Contact Person: Angela Fajsi

Period of realization: 2025 – 2026

ID: CIV-HU-1408-07-2526



13. Metronet - network for modern measuring and manufacturing technologies

Description: Network Metronet is dedicated to the problems of measurement science and its application in contemporary manufacturing systems. In particular, network members deal with various aspects of the metrology of geometrical quantities. The coordinator of the network is Prof. Krzysztof Stepien from Kielce University of Technology (Poland). An important factor aiming at the integration of the network members is the Summer School that is organized each year at the Kielce University of Technology. Apart from the academic exchange of students and teachers, the aim of the network is to set the connections between the members in the field of science. Therefore, we promote such activities as publishing joint papers in recognized journals, preparation and submitting of joint research project proposals, etc.

Contact Person: Prof. dr Branko Štrbac

Period of realization: 2025 – 2026

ID: CIV-PL-0007-21-2526



14. Development of Mechanical Engineering

Description: Small and medium industrial companies (SMC), according to the opinion of many experts, are the base of developing countries economy. It concerns especially the economy of Central Europe countries, which formerly had non market economy. Development of mentioned industrial enterprises nowadays depends on proper level of mechanical engineering (design, manufacturing engineering and production management) and, in particular, on proper logistics. All of this demand good level of education from proper specialized institutions especially universities. Exchange of ideas, knowledge, results of investigations, students, teachers etc. is the condition sine qua non of high level of research and education in particular university. Thus, existence of the possibility of mentioned exchange is very important from the point of the development of economy. Technology, one of the most important fields of knowledge of the modern world, determines manufacturing of various machines and mechanical equipment. The development of manufacturing methods is dependent on the intensity of research, the aim of which is obtaining high-quality products in mass production at as low costs as possible. Therefore, the investigations carried out by the majority of European research centers concentrate on basic conventional technologies as well as prospective unconventional manufacturing techniques. Numerically controlled machine tools and also modern computer-aided manufacturing systems are being employed in the analysis and simulation of technological processes. The development of technology enables monitoring of particular stages of the technological process, inspection of the technical conditions of technological machines and devices and control of the production cycle of machine elements. It is also possible to check the manufacturing accuracy (product dimensions, shape and surface quality), evaluate the quality of materials used for the manufacturing of particular machine elements, evaluate and test the final products, and also test the durability and reliability of machines and devices.

Contact Person: Prof. dr Milan Rackov

Period of realization: 2025 – 2026

ID: CIV-PL-0033-21-2526



15. Engineering as Communication Language in Europe

Description: In Europe, many national languages are used, however, very often engineers use their own slang, which is quite well understandable to them, regardless of their nationality. It has been noticed, that technical tutorials, brochures or other documents which are written in technical English can be understood by people, who have only basic knowledge of English. The goal of that CEEPUS Network titled "Engineering as Communication Language in Europe" is to create communication and cooperation between engineers, dealing with various engineering branches. The aim of the Network is to be able to create Interdisciplinary Engineering Teams. A strong background in engineering techniques applicable to a wide variety of complex problems is in demand in the widespread knowledge. Our engineers should understand more than one discipline and be prepared to work at the intersection of two or more engineering and science disciplines. Often a single engineer is not able to solve complicated interdisciplinary problems, but there is a great possibility that Interdisciplinary Engineering Teams would make it better and faster. The main task of that Network is involving teachers from partner Institutions in order to create team projects that would be main parts of the program. It is also expected that students will take an active part in all didactic activities proposed by Network and will benefit from our Program, as much as possible. Thanks to engineering knowledge as well as soft skills (ability to work in an international team), all the students in their further career will be able to communicate freely and work in international companies as well as continue their education, e.g. doctoral studies in any university in the world. The CEEPUS Network "Engineering as Communication Language in Europe" gives the opportunity to create successful cooperation, not only between students, but also between teachers from all the universities, which are participants in the network PL-701. Additionally, the Network is open for any open-minded people, who can participate in events organized by that network with using the Freemover Mobilities.

Contact Person: Prof. dr Borislav Savković

Period of realization: 2025 – 2026

ID: CIV-PL-0701-14-2526



16. Teaching and research in advanced manufacturing

Description: Teaching and research in advanced manufacturing in times of rapid development of the above thesis is very important. Technological development and improving the quality of people's lives are closely linked with the development of manufacturing processes and manufacturing techniques. There is a continuous development of automation and robotics manufacturing processes. Conventional machine tools are replaced with modern multipurpose and multi-axis machining centers, which are equipped with smart functions to enable a safe and user-friendly service, and optimal energy-efficient operation. Robotics and automation is concentrated not only on manufacturing, but also includes the rehabilitation of people, health and daily living assistance. As part of the development of technology conducts research in the field of highspeed machining as advanced manufacturing. Very important aspect of mentioned above thesis is to link industry with the teaching of the field on advanced and at the same time environmentally friendly technologies. Planning processes, construction of virtual technological lines, robotics applications, everything must be linked with the concept of energy efficiency.

Teaching and research in advanced manufacturing encompass a diverse array of technologies and methodologies aimed at revolutionizing the production landscape. With a specific focus on metal manufacturing and machining processes, this field delves into cutting-edge techniques and innovations reshaping the industry. Metal machining, a cornerstone of advanced manufacturing, involves precision shaping and forming of metallic components using various cutting tools and machinery. From traditional methods like milling and turning to modern advancements such as CNC machining and additive manufacturing, students and researchers explore these techniques' nuances, efficiencies, and applications.

Contact Person: Ivan Matin

Period of realization: 2024 – 2025

ID: CIV-PL-0901-11-2425



17. Internet of Things and Teleinformatics – ITT network

Description: The rapid development of Information and Communication Technology (ICT) has been observed recently. Global networking infrastructure contains millions of cables, optical fibres, computers, servers, mobiles and other elements to keep the connection alive. The current networks are being used almost in every aspect of our daily life. The expansion of micro and nanodevices as well as Internet of Things (IoT) devices in home, offices and industry are another reason for increasing the role of ICT. IoT technology using the Internet will integrate all objects communicating with human beings as well as other devices. IoT refers to the networked interconnection of objects which are often equipped with artificial intelligence, so it is strongly related to Industry 4.0 and 5G Technology. With the current fast expansion of the Internet, the needs for development of research in ICT, Industry 4.0, 5G Technology, programming, network architecture, exploitation, testing wire and wireless computer networks, and cybersecurity have increased. There are many positions on the job market for the engineers with knowledge and skills in the field of advanced technologies. There is a necessity to include these issues in study programs at university level. Taking all this into consideration we propose to continue in the academic year 2024/2025 the implementation of the project: "Internet of Things and Teleinformatics – ITT network" The main goal of the network is to foster cooperation in education and research activities in Computer Science. The network is focused on expanding the advanced trends in education and research on Computer Science with particular emphasis on ICT, Internet of Things, Web of things and services, Future Internet Engineering, Industry 4.0 and their implementations. The project is important for the region and the staff has the relevant experience and knowledge for its implementation. The project includes 18 PPU with different specializations from 11 countries.

Contact Person: Doc. dr Ivan Knežević

Period of realization: 2025 – 2026

ID: CIV-PL-1509-06-2526



18. Teaching and Research of Environment-oriented Technologies in Manufacturing

Description: Traditional academic exchanges are justifiable from the social-cultural standpoint, permitting as it does the circulation of scientific knowledge, research techniques and pedagogical approaches. Academic exchanges allows the individual to engage in professional development and networking, representing an investment in human capital by higher education system that is likely to bring returns in the form of innovation in teaching and research. However, the benefits of this type of mobility occur principally in both universities (home and host, via the exchange of knowledge, experience and practice) and can help to make our universities more attractive as a study destination. The skills, competences and qualifications that people need, are changing over time and must be developed in line with the evolving needs of the labor market. This means that educational systems must know the current requirements of the labor market and also to continuously adapt their curriculum to them. The exchanges of experience and mobility between partner universities can strongly support these and can help to acquire the key competences needed to enable them to adapt flexibly to such changes. In the global economy, when the labor market evolves at a faster rate than education and training, international experience becomes more and more important and mobilities are bridges that can reduce the "speed" between the two. In this connection, one of the major objectives of this project is contributes to develop the education and training systems to facilitate peer learning and the exchange of good practices and to follow up developments and progress of these, through reports, after semester mobility. The main objective for prolongation of the network is to continue to offer the possibility for participants to access mobilities, through which they can obtain more information about the importance, advantages and limits of environment-oriented technologies, tools, and methods.

Contact Person: Prof. dr Boris Agarski, Prof. dr Milenko Sekulić

Period of realization: 2025 – 2026

ID: CIV-RO-0013-21-2526



19. Implementation and utilization of e-learning systems in study area of Production Engineering in Central European Region

Description: "Globalization, new technologies and demographic developments constitute an enormous challenge; one of the answers to this problem is the access to lifelong learning." (Jan Figel, former European Commissioner for Education, Training & Culture, 2004-2009) A learning system based on formalized teaching but with the help of electronic resources is known as E-learning. While teaching can be based in or out of the classrooms, the use of computers and the Internet forms the major component of E-learning. E-learning can also be termed as a network enabled transfer of skills and knowledge, and the delivery of education is made to a large number of recipients at the same or different times. (The Economic Times, 2018) Access to lifelong learning can be solved using the e-learning systems. Information and communication technologies (ICT), properly used, contribute to the quality of education and training and to Europe's move to a knowledge-based society. The universities have to know to respond to global problems and to be prepared to educate the specialists. Many of the new methods used in production engineering and in CA systems and technologies as rapid machining, virtual prototyping, CAD/CAM/CAE/CMMS are based on "e" (electronic) activities because reduce the time (time is becoming rapidly the most strategic topic of companies) and increase the quality of products without increasing the costs. E-learning comprises all forms of electronically supported learning and teaching. E-learning applications and processes include Web-based learning, computer-based learning, virtual classroom opportunities and digital collaboration. Content is delivered via the Internet, intranet/extranet, audio or video tape, satellite TV, and CD-ROM. It can be self-paced or instructor-led and includes media in the form of text, image, animation, streaming video and audio.

Contact Person: Prof. dr Aco Antić

Period of realization: 2025 – 2026

ID: CIV-RO-0202-19-2526



20. Technical Characteristics Researching of Modern Products in Machine Industry with the Purpose of Improvement Their Market Characteristics and Better Placement on the Market

Description: This network is based on the combined capabilities of partners to improve the product characteristics and its better placement on the market. The network is based on four pillars of industry and the academic community that need to be constantly developed: knowledge-experience-technology-marketing. Each partner has appropriate potential in these areas. Combining these potentials provides a powerful tool to improve product features and market placement. By managing between these areas, the product can be significantly improved, while at the same time, these areas are being developed. The cooperation between network institutions is very important, and since some have better equipment and experience in marketing, product development is fully engaged. The main goal of the network is to promote and implement continuous product development and internationally recognized knowledge transfer between industry and academia through management between knowledge, experience, technology and marketing.

During the applied academic year, all initiatives will be organized that are directed towards the next focus areas: developing the product through regional and European markets, mutual collaboration between universities and universities and industry, international profiling of study programmes and research, competency and capacity building for internationalisation and business-oriented study programmes.

Contact Person: Prof. dr Milan Rackov

Period of realization: 2025 – 2026

ID: CIV-RS-0304-18-2526



21. Research, Development and Education in Precision Machining

Description: The key change drivers in the case of machining technology include: Diminishing component size, enhanced surface quality, and tighter tolerances and manufacturing accuracies, reduced costs, diminished component weight and reduced batch sizes. The trends towards higher precision are occurring in virtually all areas of manufacturing. Higher precision is needed for several reasons · To obtain the high motion required in high-accuracy machine tools, computer peripherals, etc. · To guarantee robustness (optimal functionality under varying circumstances). · Creating information on advanced materials and the possibilities of their application · To guarantee part interchange ability (avoid adjustments), and hence to allow mass production at low price. Metal machining industry is under increasing pressure as a result of competition, stricter environmental regulation, supply chain demand for improved environmental performance and falling skill levels within industry. Adopting sustainable manufacturing practices offers material machining companies a cost effective route to improve their economic, environmentally and social performance. The alternative sustainable production, have to put all three levels on the same equal level. Sustainability products principles are considering manufacturing costs, energy consumption, waste management, environmental impact, operation safety and personal health. The education system ought to be preparing knowledge based, well skilled and trained people for the future practice. It is a main task of Universities but it could be realized only with narrow cooperation among them. As known each university (technical Institution) has its own strongpoint in the research, development and education. Therefore, knowledge based and well skilled experts could be prepared well when this strongpoint will be used for students' education and teacher cooperation. The exchange mobility program Ceepus could be enabled in mentioned effort.

Contact Person: Prof. dr Borislav Savković

Period of realization: 2025 – 2026

ID: CIV-RS-0507-15-2526



22. Research and Education in the Field of Graphic Engineering and Design- READGRID

Description: The graphic industry in the developed world takes a high profit place and its products greatly influence the other industry product marketing. It has a special importance in the economies of developing countries with a large number of small and medium enterprises. The particular place belongs to the packaging because it presents product to the customers and it is one of the most important deciding factor when buying is in a question. This project mainly aims to form proper network through which the advance of the knowledge will be enabled and significantly improved. The improvements will have a basis inconstant research and knowledge along with modern programming tools and systems. Key research will include the important areas of graphic engineering and design. The basic research will include the field of design, prepress, press, postpress and packaging. Research in the field of design will include graphic product and industrial design in a correlation with prepress, press and postpress demands. Photography, typography and realization of multimedia contents will be also the objectives of the research. Important focus is going to be put on the type design of different lettering (e.g., Latin, Cyrillic) and a various number of a critical marks. Impact of different materials used for enhancement of printed images, like special and UV pigments, will be investigated. In recent years there is increasingly significant research in this field in order to achieve visually attractive products in graphic industry. Determination of achieved value of gloss and colour range will help solving the problem of revisualisation of products in the design face. Special attention will be paid to the market trends in terms of current requests concerning visual identity and production ability. Prepress activities will consist of defining the proper software for image processing, vector based pictures processing and final layout. Also, the research will be addressed to usual problems from the graphic industry with printing plates for different printing techniques and possible improvements in every day usage.

Contact Person: Prof. dr Živko Pavlović

Period of realization: 2025 – 2026

ID: CIV-RS-0704-14-2526



23. Fostering sustainable partnership between academia and industry in improving applicability of logistics thinking (FINALIST)

Description: Supply chain management is a fact of business, with logistics as a most powerful tool for achieving ultimate strategic advantage. Today's business is constantly changing and evolving in response to change in technology, social and economic environments, and climate. Changes in business models drive a "new" supply chains. That novelty could be described through several major characteristics: (1) supply chain role has moved from being tactical to being strategic; (2) supply chain complexity and dynamics are constantly growing; (3) supply chain completely focuses on value from customers' point of view. Hence, new paradigms in business evolve new logistics and supply chain management strategies. To understand and apply those new logistics thinking, appropriate way of dissemination of logistics knowledge to future and current employees should be created. Hence, the overall objective of this project is to promote the innovation and implementation of sustainable knowledge transfer between academia and industry, with the final aim to improve regional logistics competence through better applicability of logistics thinking. Long program description Dynamics of market changes dictated by globalization, liberalization and constant technological development places the effectiveness of logistics and supply chain in the centre of economic success and competitiveness of a country or region. Logistics effectiveness is based on the appropriate level of excellence regarding logistics infrastructure, applied logistics practices and technologies, logistics culture and logistics competence. Logistics competence implies understanding of new strategic role of logistics activities in contemporary strategies for supply chains management. Understanding and application of the principle of contemporary logistics management requires creation of appropriate dissemination of new logistics knowledge among future and at the moment employed logisticians (creation of logistics human capital).

Contact Person: Prof. dr Marinko Maslarić

Period of realization: 2025 – 2026

ID: CIV-RS-1011-11-2526



24. Multidisciplinary Approach to Education and Research in the Field of Digital Media Production

Description: In contemporary society, digital media technology touches almost every aspect of our lives. Digital media are an integral part of our day including both leisure and work times. Today, all analogue media have their digital version where most of them are with an interactive component, offering new experiences and functionalities. Further, development, production, advertisement, exploration of common products in our surroundings such as cars, pieces of furniture or food articles are advanced or enriched with digital content. This project primarily aims to form an academic network connecting respective high education institutions in the field of digital media production with diversified background and expertise. The main network objectives are aimed at creating a multidisciplinary approach to improve educational outcomes and research potential in this field among all network participants. The network is defined to answer the enhanced needs for education and research in contemporary creative media industries. The participating faculties characterized by the industry-standard laboratories and a wide range of state-of-the-art courses which combine practical elements and theory at a high level. The exchange and dissemination of knowledge base, learning practices and materials will facilitate and accelerate adaption of each institution to dynamic changes in a continually evolving field of digital media production where cutting-edge technology and solutions now may be overrated practice in five years. The collaboration within the network aims to develop a modular way of updating multidisciplinary courses and research application to reflect expected changes in both industry and academia. The mobility program anticipated with the project plan will enable scholarship users to access to media centres, design archives, library materials and research facilities and equipment.

Contact Person: Prof. dr Sandra Dedijer

Period of realization: 2025 – 2026

ID: CIV-RS-1311-08-2526



25. Interdisciplinary approach for enhancing knowledge in supply chain analytics (SCAN)

Description: Supply chains (SCs) are complex systems, which involve different organizations with different goals and objectives. The overall goal of all organizations involved in SC is to create a profit by satisfying the customer's demand for products or services. The business uncertainty (market conditions) is among the most important challenges facing modern SCs, and it poses considerable difficulties in terms of SC planning and control. Design of SC as well the strategic and operational decisions depend on the expectations of what will be the market conditions in the following planning period. In today's changing markets, business uncertainty can emerge from a range of different sources: volatile and hardly predictable resources prices (oil), varying micro and macroeconomics indicators in different regions, wide customers base spread all over the world, demand volatility generated by end customers, political and climate challenges, etc. Accordingly, SCs are faced with huge obstacles in providing the value for the end customers in this changing environment. In order to deal with today's business challenges, SCs need modern analytic tools to overcome the "bridge of uncertainty" in everyday business. This project explores the various analytical tools and techniques which can be used in providing support for the decision making in a real SC. Accordingly, the project will be focused on building, enhancing and sharing the knowledge base about different kind of mathematical and simulation models for dealing with the business uncertainty in modern markets, as well as educating the future SC practitioners with analytical techniques, categorized in terms of descriptive, predictive and prescriptive analytics, which are needed in the contemporary markets.

Contact Person: Prof. dr Svetlana Nikolić

Period of realization: 2025 – 2026

ID: CIV-RS-1412-07-2526



26. Research and Development of New Technologies for Innovative Services in Sustainable Logistics 4.0

Description: The CEEPUS project serves as an invaluable formal framework for collaboration among partner institutions. The network provides an efficient platform for student and teacher mobility, fostering mutual understanding and the development of high-quality educational and research programs. The exchange of knowledge and experience is vital for both university teachers and students, contributing significantly to academic growth. Beyond acquiring essential information, dissemination of knowledge is a core characteristic of universities and other scientific institutions. A key advantage of this network is the opportunity to develop joint study programs and collaboratively evaluate diploma and PhD theses, enhancing academic standards and integration. Students and young researchers can also participate in scientific seminars, conferences, and workshops specially organized within the network, further enriching their academic experience. One major strength of this newly established network is that most partners are already familiar with one another, having collaborated informally for several years. Some partners are involved in multiple networks, while others participate in only this one, yet all share a history of scientific and teaching cooperation through conferences and formal meetings in previous years. This CEEPUS network not only strengthens existing partnerships but also provides opportunities to establish new, mutually beneficial relationships. The focus of our network is to improve the studies in practical part of studies. The industrial market requires engineers who are ready to work in an environment where they need to understand the latest technology and provide innovative solutions.

Contact Person: Prof. dr Milan Rackov

Period of realization: 2025 – 2026

ID: CIV-RS-1511-06-2526



27. Application of CAx technologies in smart production as a significant basis for the development of Industry 4.0 in small and medium-sized enterprises - connection between industry and higher education institutions through lifelong learning

Description: The idea of this network is to build partnerships for collaboration and engage other researchers from different countries to develop and maintain network of academic and industrial organizations for continuous education of engineers, students and teachers. Thus, one of the goals of the project is the development of joint studies programs at master's and doctoral studies, in order to become future teachers prepared for the implementation of CAx technology for its integration into Industry 4.0. Another goal would be to define plans and programs for retraining, continuous learning and training of students, engineers, etc., that is, the development of higher technical education during the implementation of CAx technologies in accordance with the requirements of Industry 4.0. These mobilities will help in work on master's and doctoral studies related to CAx technology, defining the plan and program for continuous education, and at the same time the introduction of joint activities between the University and the economy, in cooperation with the network partners. The MPI, given the availability of engineering knowledge, professional qualification of workers and infrastructure, has significant potential to attract investments. In order to further develop this sector, research and innovation policy should be focused on connecting and networking of key actors, as well as the initiation of intersectoral connections in order to create added values to the existing products and services. Also, of key importance are the improvement of programs for the development of human resource skills and systematic support process of presenting this industry to global markets.

Contact Person: Prof. dr Aleksandar Živković

Period of realization: 2025 – 2026

ID: CIV-RS-1812-03-2526



28. Metrology, quality and environmental aspects in Industry 4.0

Description: In today's industrial environment, the shift from the passive use of information from industrial equipment to data-driven intelligent systems is evident. The primary engine of this change is the latest industrial revolution or Industry 4.0, which signifies the use of data in more ways than ever before. Raw data is collected from various sources like files, databases, and sensors in production, working stations, buildings, the internet, and other appropriate sources. Collected data needs to be verified, corrected, reduced, transformed, and extracted. Preparing the data for further analysis is called preprocessing. After preprocessing, scientists and engineers can use data to gather information and knowledge to optimize and elevate current production processes by developing various predictive models. The main objective of the proposed network is to gather and exchange knowledge, experience, and technical know-how from partner institutions in the field of industrial metrology, quality assurance, and the effects of environmental aspects on the ongoing processes and well-being of all personnel involved (worker's health) and energy consumption for industrial processes. These aspects are also related to managements systems on the base of ISO standards: 10012 (Metrology), 9001 (Quality), 14001 (Environment), 45001 (OHS), 50001 (Energy efficiency), 46001 (Water efficiency), etc. The exchange of expertise will be carried out through conferences, seminars, discussions, collaboration, preparation of project proposals, and joint activity between researchers. Prominent experts and younger generations of researchers from different institutions will have the opportunity to meet each other and learn valuable skills. The product of this collaboration will be scientific papers, projects, and degree finals. This way of collaboration between partner institutions will raise awareness about the importance of metrology, quality, energy and water efficiency and impact of modern industrial processes on the environment of today. We hope that this collaboration will inspire new development in multiple areas of industrial engineering.

Contact Person: Prof. dr Miodrag Hadžistević

Period of realization: 2025 – 2026

ID: CIV-RS-1813-03-2526



29. Greening Project Management for a Sustainable World: Developing and Empowering a New Generation of Changemakers

Description: A new reality demands new Green and Sustainable-related Project Management professional profiles – with a strong social agenda. While already in high demand in the job market, this profile still lacks proper education, training and recognition in Europe. The GreenPM Network aims to produce top-level professionals and researchers combining theoretical, experimental and practical knowledge from business and management, economics, IT and different engineering disciplines, all having a common denominator - project management. The GreenPM Network will help PPUs to upgrade their educational offer and scientific capacities and to make teaching processes and outcomes relevant to a new reality and the current needs of the world and society. Through this network, PPUs aim to set up a robust collaborative platform with a vision of long-life cooperation. The GreenPM is a newly established network proposed for the first time for the 2023/2024 round. It includes 14 PPUs participating units from 9 countries (Table 1). The network includes prominent institutions involved in research and higher education in the GreenPM field in the Central European area, each from its own perspective. Many topics related to PM require an interdisciplinary approach which can only be achieved through interactions among the PPUs of the proposed network. The interdisciplinary domains are important because they operate at the borderlines between PM and other disciplines, such as economics, IT, environmental protection, mechanical engineering, and other engineering disciplines opening various topics with a multidisciplinary approach.

Contact Person: Doc. dr Danijela Ćirić Lalić

Period of realization: 2025 – 2026

ID: CIV-RS-1815-03-2526



30. Advancements in Operations and pRoDuction management in the Era of Industry 5.0 – ORDERI5

Description: ORDERI5 encapsulates the transformative journey focusing on the adaption to new industrial trends through the development of study programs in the field of industrial engineering that cover necessary competencies which will enable future employees to adapt to the digitalization of internal and external company value chains as well as product and service offerings and entire business models. ORDERI5 delves into the unprecedeted convergence of the physical and digital realms, where smart technologies, smart automation, and data-driven insights are propelling operational efficiency to new heights. This comprehensive exploration unravels the intricacies of designing and managing production processes in an era characterized by interconnected systems, intelligent machines, and real-time decision-making. As a consequence, the fulfilment of specific customer demands is to be achieved through the utilization of mass-produced items, while strategic decisions should be optimized within adaptable business and engineering workflows. Concurrently, efforts should be directed towards enhancing resource productivity and efficiency. ORDERI5 network invites all interested stakeholders to explore the revolutionary changes in manufacturing, supply chain management, and overall business operations. From the adoption of Industrial Internet of Things and artificial intelligence to the integration of cyber-physical systems, the advancements representing Industry 5.0 reflect the paradigm shift from traditional manufacturing approaches to highly interconnected and adaptable systems. Furthermore, the network will explore how Industry 5.0 is redefining the role of human operators in the production landscape. It highlights the symbiotic relationship between humans and machines, emphasizing the importance of collaborative and flexible workflows.

Contact Person: Doc. dr Nenad Medić

Period of realization: 2025 – 2026

ID: CIV-RS-1912-02-2526



31. Multidisciplinary Approach in Critical Heritage Studies - CHS network

Description: During the past few decades, cultural heritage studies have faced paradigmatic changes due to diverse social, political, economic and cultural transformations. The concept of heritage itself should be understood from a critical perspective as a complex phenomenon that merges various tangible and intangible dimensions. This complex issue requires a cross-disciplinary approach, integrating knowledge from architecture, anthropology, archaeology, sociology, art history, digital humanities, and other fields. CHS network aims to foster this holistic approach in heritage studies across Central Europe and the Balkans. The network will enhance research and education quality, facilitate academic and student mobility, and support joint activities. It will leverage multidisciplinary collaboration to address multifaceted challenges, such as memory politics, contested heritage, localised vs. globalised narratives, ethics in digital heritage, participation, commodification, and intersectionality.

The key mission of our network is to develop students' critical contextual thinking. We want to contribute to the construction of progressive heritage studies in Central Europe and the Balkans, but also to improve mutual understanding through conversations about common history, dissolve traditional prejudices and look beyond ideological frameworks.

Contact Person: Prof. dr Anica Draganić

Period of realization: 2025 – 2026

ID: CIV-RS-2016-01-2526



32. Advancing sustainable environmental, health and safety practices for green job readiness (Sustain Force Alliance)

Description: The Sustain Force Alliance is a forward-thinking interdisciplinary network dedicated to addressing sustainability challenges through an innovative and holistic approach. The Alliance brings together leading experts from diverse fields, including environmental protection, occupational safety and health, business management, social sciences, civil, mechanical, and electrical engineering, AI and logistics, environmental chemistry, and environmental engineering. With its foundation in key global frameworks such as the European Green Deal, Agenda 2030, and EU Directives, the network focuses on developing actionable solutions to pressing issues like climate change, the green transition, and social equity. The Sustain Force Alliance fosters cutting-edge collaboration through initiatives such as Winter Schools, international student conferences, and teacher, student and university staff mobility programs, providing a platform for interdisciplinary exchange.

Contact Person: Prof. dr Maja Petrović

Period of realization: 2025 – 2026

ID: CIV-RS-2017-01-2526



33. Advancing Circular Economy Through Education and Research in Social and Engineering Fields

Description: In the face of growing environmental crises and the urgent need for sustainable development, the transition from a linear to a circular economy stands as a critical challenge and opportunity for our global society. Traditional linear economic models, which follow a “take-make-dispose” approach, are inherently unsustainable. They deplete natural resources at alarming rates and generate waste that contributes to climate change, biodiversity loss, and pollution. This unsustainable pattern is increasingly putting pressure on ecosystems, with long-term consequences for economic and social well-being.

The goal of the proposed network is to elevate the awareness of the circular economy and promote the integration of systems thinking into both social and engineering disciplines. Emphasis is placed on fields such as economy, industrial engineering, management, and technical sciences, with the aim of advancing interdisciplinary education and research and preparing a new generation to tackle sustainability challenges.

Contact Person: Prof. dr Jelena Demko-Rihter

Period of realization: 2025 – 2026

ID: CIV-RS-2018-01-2526



34. Chemistry and Chemical Engineering

Description: In the academic year 2025/2026, the proposed Ceepus network is set to include active participation from nine partner institutions representing eight distinct countries. This collaboration underscores the international scope and diversity of the network, which aims to foster cross-border academic and research cooperation. Each partner institution will bring unique expertise, resources, and perspectives, contributing to a robust and dynamic exchange of knowledge and fostering innovation in the network's key thematic areas. By integrating the strengths of institutions across multiple nations, the network seeks to build a strong foundation for collaborative research, academic mobility, and interdisciplinary projects that address pressing global challenges.

The main objectives of the Ceepus network CIII-SI-0708 would be as follows:

- to establish a research center of excellence in the fields of process efficiency, renewable resources, new products and materials, cycle economy and sustainable development,
- to promote research work among students at all three levels in order to build a research excellence from Bachelor level through Master level up to Doctoral level. Students should acquire the competencies for independent and innovative research work,
- to establish research synergies among participating institutions in order to develop holistic, integrated, efficient and sustainable process solutions for some of the most challenging problems, such as depletion of fossil fuels, depletion of important chemical elements, transition from linear to circle economy, preservation of environment, efficient production, development of new products and materials.

Contact Person: Prof. dr Dunja Sokolović

Period of realization: 2025 – 2026

ID: CIV-SI-0708-13-2526



35.Training and research in environmental chemistry and toxicology

Description: The collaboration among some partners in the region has started already fifteen years ago through Association of Chemistry and the Environment (ACE) between partners from University of Ljubljana, Faculty of Health Sciences (prof. Polonca Trebše), University of Belgrade, Faculty of Chemistry (prof. Branimir Jovančićević) and Brno University of Technology, Faculty of Chemistry (prof. Josef Caslavsky). They collaborated through the research as well as in the development of new study programmes and study materials in the field of environmental chemistry and toxicology (TEMPUS project). Our common points of interest represent pollutants, coming from different sources like industries, agriculture, human activities, affect different environmental spheres such as air, water, soil, and pose serious threat to the ecosystems and living organisms. From that reason we wanted to connect not only teachers in the region but mostly students to work on real environmental problems and get insight to them. The network represents a basis for the establishment of collaboration between faculties with the main objective: to provide expertise and infrastructure for interdisciplinary education and research of future experts in the fields of environmental chemistry and toxicology. Within the last five years: - We performed intensive exchange of students and professors within the network. - Several students performed the research work to obtain more skills and experiences (e.g. Adna Čolaković, Nejra Kovač, Igor Akrap, Lara Čižmek) - Several students performed the research work within master of doctoral thesis (e.g. Šenan Hadžibegić, Hena Divanović, Štefan Kulaš, Marcin Podražka, Anamarija Milisav, Jerca Bajuk, Katarina Bertović).

Contact Person: Prof. dr Ivana Mihajlović

Period of realization: 2025 – 2026

ID: CIV-SI-0905-12-2526



36. Internationalization and development of joint activities in the field of smart factories based on intelligent manufacturing systems, robotics and artificial intelligence - contribution to increased flexibility, skills, competences and mobility of students and teachers in the CEE region

Description: Global world brings global problems in production engineering. Economic pressures urge manufacturers to make more customized products of high quality, in smaller series, with shorter lead time and of course, without increased costs. Time is becoming rapidly the most strategic topic of companies. Costs are also important, more important are competitive price and the most significant are marketability of manufactured products. Today, industrial enterprises are increasingly confronted with rising energy prices as the result of the energy crisis. Businesses must also respond to current trends in environmental protection and in contributing not only to the energy intensity of their production, but also in producing fewer and fewer harmful emissions. However, these are generated throughout the product's life cycle. It is therefore very important to monitor the carbon footprint of all processes within the product life cycle, Therefore the producers look for tools to increasing a competitive advantage of enterprises. Naturally the universities have to know to respond on the global problems and to be prepared to educate the specialist. The new methods of production engineering, Intelligent manufacturing systems, robotics, Rapid machining, Virtual prototyping, Big Data analysis, Artificial Intelligence, Internet of Things, Neural Networks, Deep Learning, Expert Systems are indeed strong tools for solving the global problems. These methods are basis for Smart factories with implementation of intelligent manufacturing systems and robots.

Contact Person: Prof. dr Aco Antić

Period of realization: 2025 – 2026

ID: CIV-SK-0030-21-2526



37. Applied Economics and Management

Description: The CEEPUS network "Applied Economics and Management" is a prolongation of the already existing network coordinated by the Faculty of Economics and Management of the Slovak University of Agriculture in Nitra, Slovakia. Based on the very positive feedback, good practice and experience from previous academic years, we are planning to: **to** continue the networking between universities in the field of applied economics and management and related fields as well as carry out coordinating network activities; **to** in order to make the network activities more efficient, we are re-evaluating the cooperation within the partnership annually and based on the growing interest in participation in our network we are accepting new partners; **to** enable undergraduate student, doctoral student and teacher exchanges (with growing demand for short term excursions) to facilitate the emphasis areas at the host institutions, with using the library and other resources; **to** organize and manage the work of experts' groups in applied economics and management (namely in the field of economics, management, marketing and applied agri-sector economics as well as emerging market studies); **to** implement participation in lectures, workshops, conferences and seminars devoted to areas of expertise – special focus on guest lecturers aimed at the transfer of know-how and enriching the education process; **to** implement the International Master Double Degree study program "Business Economics" offered by two universities of the network – the Slovak University of Agriculture in Nitra and the University of Agriculture in Krakow; **to** involve teachers from our partner universities in lecturing the managerial course MBA at the coordinating institution, the Slovak University of Agriculture in Nitra;

Contact Person: Prof. dr Slavica Mitrović Veljković

Period of realization: 2025 – 2026

ID: CIV-SK-0044-20-2526



38. Future Skills for Digitalized Production and Education

Description: CEEPUS (Central European Exchange Program for University Studies) has been a cornerstone of academic collaboration and mobility in Central Europe, fostering partnerships among universities to advance education, research, and innovation. Since its establishment in 2005, the SK-0067 network, originally named "ADVANCES IN MACHINING," has focused on cutting-edge developments in production engineering and machining technologies. Over the years, the network has evolved, adopting the current title, "Future Skills for Digitalized Production and Education – FUSION" to reflect its expanded focus on digital transformation and interdisciplinary collaboration. The network's history is rooted in the need to support innovation in machining processes and production technologies, a goal that has remained central to its activities. From its inception, SK-0067 has built strong partnerships among leading universities, fostering research collaboration, mobility opportunities, and knowledge exchange. These efforts have contributed significantly to advancements in precision machining, digital manufacturing systems, and the integration of sustainable practices. The CEEPUS Network "Future Skills for Digitalized Production and Education" connects 17 partner institutions to advance education and research in digitalized manufacturing, machining technologies, and Industry 4.0 applications. For the academic year 2025/2026, the network will host the intensive course "Advanced CNC Programming for Future Manufacturing" at the Technical University of Košice, providing participants with hands-on training in cutting-edge CNC programming techniques and digital manufacturing technologies. The annual "Development in Machining" conference further supports the exchange of knowledge, bringing together PhD students, researchers, and educators to discuss advancements in engineering education and manufacturing innovations. Through mobility programs and collaborative research projects, the network promotes practical learning, innovative thinking, and the development of future-ready skills essential for modern industry and academia.

Contact Person: Prof. dr Borislav Savković

Period of realization: 2025 – 2026

ID: CIV-SK-0067-21-2526



39. Renewable energy sources

Description: CEEPUS Network Renewable energy resources CII-SK-0405-01-0910 was created in 2009 with three partners – universities from Slovakia, Hungary and Bulgaria. After the first year of the duration of the Network, we have very positive feedback from participants of mobility. From this point of view the main aim of the CEEPUS network “Renewable energy sources” is to continue in the development of strong partnership where participated universities work together not only in the frame of undergraduate, graduate, and postgraduate students exchanges and teacher’s mobility, but they are involved in wide diapason problems concerning renewable or alternative energies, sustainable development and climate changes and relevant science areas. The main objective of SK0405-00-2526 Network can be defined as an effort to enhance the quality of study and research in the field of “Renewable energy sources” and relevant outcomes of the Network can be defined as (i) exchange of experiences between university teachers in the area of sustainable renewable energy, implementing advanced technology learning environments; (ii) common study and research activities in the field of RES, climate changes and sustainable development; (iii) speed up and provide a more effective process of join studies preparation and cooperation on the joint syllabus; (iv) exchange experts between partners, e.g., for doctoral thesis or support join research activities within Central and Eastern Europe, and at last, but not least to disseminate of the Network not only between partners but outside of the Network as well. This network would also stimulate further topic-oriented engagement and provide the basis for such kind of further research and training activities in the relevant research fields such as passive solar utilization – low energy houses, Internet of Things in Industry, intelligent (smart) environmental solutions.

Contact Person: Prof. dr Borislav Savković

Period of realization: 2025 – 2026

ID: CIV-SK-0405-17-2526



40. Virtual and augmented reality in the training and teaching of technical subjects

Description: The project "Virtual and augmented reality in the teaching and training of technical subjects" aims to modernize and enrich educational processes at technical universities through the implementation of VR and AR technologies. This project will have significant implications not only on an individual level for students and teachers but also on a broader regional and national level. Integrating VR and AR into technical education offers the possibility to simulate realistic and complex scenarios that would otherwise be difficult to implement. The project will focus on developing specialist applications for technical disciplines such as engineering, allowing students to practice and develop skills in a safe, controlled environment. Teachers will be trained to use these technologies effectively while supporting materials will be created to ensure seamless integration into existing curricula. The project will strengthen inter-university cooperation through the exchange of students and teachers, thus facilitating the sharing of resources and knowledge in VR and AR. These mobilities will support mutual learning and enable the exchange of experience, which will contribute to improving the quality of education in the entire region. From a national point of view, the project contributes significantly to increasing the quality of technical education in Slovakia. It not only improves the position of our universities on the international scene but also supports the development of a technologically competent workforce, which is essential for the country's economic growth. The implementation of VR and AR represents an innovative step towards the modernization of educational methods and prepares students for the challenges of the future labour market. This is a promising opportunity for potential investors to contribute to the country's economic growth.

Contact Person: Doc. dr Ivan Knežević

Period of realization: 2025 – 2026

ID: CIV-SK-2024-01-2526



41. Development of engineering knowledge for interdisciplinary applications taking into account Industry 5.0 aspects

Description: In technical practice, it is often necessary to solve tasks that are not of the nature of just one narrow specialization but are complex problems from different areas that cannot be separated. When designing equipment and designing its production process plan, as well as in terms of the subsequent successful application of a new idea, it is necessary to take into account a number of factors that could affect the operation, service life, reliability or safety of the equipment, component or the entire process and system during analysis, design and solution. The same applies if a failure occurs and it is necessary to determine the causes of the failure. When searching for causes, it is similar to when designing necessary to take into account a large number of influences that caused the failure of the equipment or component. The proposed network should develop relations not only between network partners (universities/faculties/higher education institutions), but also between other and institutions that can later join the network, as well as cooperation with companies where students can prepare their diploma theses and get a job after graduation. The cooperation agreement within the project will be signed between the following institutions. The main objective of the project is therefore to create a network of experts (scientific researchers, teachers, professionals) who will provide students with a view of the process of designing and manufacturing a device (component, consumer item) from different points of view so that it is possible to efficiently produce a given product (or to build a new device/product), taking into account environment, safe, reliability and whole life cycle, or to look at the causes of its failure from a comprehensive perspective and thus reveal its essence.

Contact Person: Doc. dr Cvijetin Mlađenović

Period of realization: 2025 – 2026

ID: CIV-SK-2026-01-2526



The Royal Society, UK is a Fellowship of many of the world's most eminent scientists and is the oldest scientific academy in continuous existence.

Mission and priorities

The Society's fundamental purpose, reflected in its founding Charters of the 1660s, is to recognise, promote, and support excellence in science and to encourage the development and use of science for the benefit of humanity.

The Society has played a part in some of the most fundamental, significant, and life-changing discoveries in scientific history and Royal Society scientists continue to make outstanding contributions to science in many research areas.

Our principles

- Independence
- Partnership and convening
- Equality, diversity and Inclusion
- International and global focus
-

Our strategic priorities

- The Fellowship, Foreign Membership and beyond
- Influencing
- Research system and culture
- Science and society Corporate and governance



1. Exploiting bursting oscillations for energy harvesting

Description: Despite recent continuous progress in the areas of Structural Health Monitoring and Sensors, there are still major difficulties in wide proliferation of self-powered wireless sensors technology, mainly due to limitations in power supplies. However, detecting potential faults/damages, wear, and other abnormal behaviour of various structural components at early stages, remains a top priority from the safety and cost saving points of view. This interdisciplinary project aims to create and validate numerically and experimentally a radically new science-enabled energy harvesting technology for self-powered wireless sensing utilizing a bursting oscillations phenomenon.

Contact person: Prof. dr Ivana Kovačić

Period of realization: 2023-2025

ID: 522482101

COST is the longest-running European framework supporting trans-national cooperation among researchers, engineers and scholars across Europe.

It is a unique means for them to jointly develop their own ideas and new initiatives across all fields in science and technology, including social sciences and humanities, through pan-European networking of nationally funded research activities. Based on a European intergovernmental framework for cooperation in science and technology, COST has been contributing - since its creation in 1971 - to closing the gap between science, policy makers and society throughout Europe and beyond. As a precursor of advanced multidisciplinary research, COST plays a very important role in building a European Research Area (ERA).

It anticipates and complements the activities of the EU Framework Programmes, constituting a “bridge” towards the scientific communities of COST Inclusiveness Target Countries. It also increases the mobility of researchers across Europe and fosters the establishment of scientific excellence.

The former science organization which was structured into nine science and technology domains has been replaced by a new organization aiming at guaranteeing a fully open and bottom-up approach through the establishment of a single Scientific Committee. This also includes a renewed evaluation and selection procedure aiming at identifying breakthrough ideas and favoring interdisciplinary and multidisciplinary projects.

1. Pan-European Network for Sustainable Hydropower (PEN@Hydropower)

Description: Hydropower (HP) played an essential role in Europe over decades, providing a unique combination of safe, low-cost, and clean electricity production. It is still one of the largest renewable energy sources (RES), adding up to about 35% of the electricity generated from RES. Predictions show that by 2024-2025 all RES will contribute almost 34% to the worldwide electricity production, and HP will provide approx. 50%. Europe shows an almost equal share of electricity from volatile wind (36.5%) and predictable hydropower sources (34.3%) for 2019. This trend of an increasing quantity of unregulated energy (wind plus solar) involves market requirements for flexibility and dynamics such as energy storage and fast response. In that case, HP has the potential to balance a renewable energy system on a short term (seconds to minutes) and on a medium to long term (months or even years) basis by using pumped-storage technology. New requirements in terms of operation and maintenance of Hydropower plants as well as co-generation of electricity with other RES needs substantial future research. As past funding of research projects was low, this new initiative should work together for a better knowledge exchange, capacity building of young researchers to meet the needs of the future. The main objective of this Action is to establish a Pan-European network for a sustainable, digitalised Hydropower contributing to the Clean Energy Transition (CET), a united network of researchers, engineers, scholars, and other stakeholders, such as representatives from industry, policy and civil society, to facilitate close collaboration among European research groups through projects supporting sustainable Hydropower.

Contact person: Prof. dr Branka Nakomčić-Smaragdakis

Period of realization: 2022 – 2026

ID: COST Action CA21104

2. Maximizing impact of multidisciplinary research in early diagnosis of neonatal brain injury (AL-4-NICU)

Description: Five in every 1000 babies born each year have a condition linked to brain injury. For newborn term infants, lack of oxygen is a common cause of injury; for premature infants, an immature cardiovascular system can lead to brain injury. These injuries can result in death, cerebral palsy, or neurodevelopmental delay. Early diagnosis is essential for risk stratification and targeted neuro-protective strategies. Central to an early diagnosis is continuous brain monitoring. The AI4NICU Action will create a pan-European multidisciplinary network with the clinical and technical expertise required to bring artificial intelligence (AI)-enabled decision-support tools to the neonatal intensive care unit (NICU). These AI tools build on existing cot-side technologies, such as the electroencephalogram, by including machine-learning algorithms to detect biomarkers of brain injury. Neuro-physiological data sets are limited in size and scope and not freely available; AI4NICU will develop the tools necessary to acquire, pool, share, and manage data. These data are often complex and noisy, and standards for developing and appraising machine-learning algorithms are lacking; AI4NICU will create a framework to develop, test, and compare these algorithms. A lack of coordinated effort, sometimes exacerbated by a disconnect between clinicians and scientists/engineers, impedes progress; AI4NICU will expand the research community, consolidate existing fragmented efforts, and create and enhance productive synergies. Working with all stakeholders, AI4NICU will identify roadblocks to clinical implementation and propose designs for clinically useful prototypes. This Action will address the urgent, unmet need to reduce the potentially catastrophic life-long consequences of neonatal brain injury.

Contact person: Prof. dr Tamara Škorić

Period of realization: 2021 – 2025

ID: COST Action CA20124

3. Intelligence –Enabling Radio Communications for Seamless Inclusive Interactions – (INTERACT)

Description: INTERACT vision is to go beyond the capabilities of the 5G and to make the radio network itself intelligent. This is required in order to enhance the human experience of both human-to-human and human-to-machine communications, and make it seamless, with the perception of no intermediary. Machine learning is an important tool in implementing this vision, since along with advanced network architectures and distributed content provision, it provides a means of implementing many aspects of this network intelligence. However, its use must be informed by theoretical and experimental research on radio channel models, network architectures and signal processing algorithms.

Hence, the main scientific objectives of INTERACT are:

1. To perform fundamental research in the fields of antennas and propagation, signal processing and localization, network architectures and protocols, to design intelligent-enabling radio communications.
2. To make the wireless network intelligent, meaning aware, adaptive, and parsimonious. Similarly to cities and buildings, future wireless networks should become intelligent by taking advantage of cutting-edge technologies to cope with the increasing demand for connectivity and traffic density and to bring the user experience to a new level.
3. To contribute to the creation of intelligent environments. Not only will mobile radio networks become intelligent, but they will constitute the nervous system to foster intelligence in other systems and verticals, such as ehealth, transportation, industry, buildings and cities.

Contact person: Prof. dr Dragana Bajić

Period of realization: 2021 – 2025

ID: COST Action CA20120

4. European Network on International Student Mobility: Connecting Research and Practice

Description: Over the past decades, international student mobility (ISM) in higher education has expanded rapidly. This growth has sparked a considerable interest in ISM within different disciplines, research communities, and circles of practitioners and policy makers. However, there is surprisingly little connection and exchange among researchers across these spheres. In addition, ISM scholarship remains strongly restricted to scientific circles, despite the relevance that scientific knowledge on ISM has for policy and daily practice. This Action responds to the pressing need for systematic interdisciplinary and international exchange of knowledge on theoretical frameworks, research methodologies, findings, and best practice examples, and for translating scientific findings into recommendations for ISM practice. It is organised around five working groups, four of them addressing themes in need of scientific development, and a fifth one bringing together recommendations for practice:

- (1) Global ISM flows and trends at the macro-level.
- (2) Social inequalities in access to and during ISM.
- (3) The social and cultural integration of international students in their host countries.
- (4) The impact of ISM on graduates' careers.
- (5) Connecting research and practice.

The Action brings together established researchers, early-career investigators (ECIs) and PhD students from different scientific disciplines, countries, and research communities as well as stakeholders from international offices, international student and study abroad organizations, and different policy levels.

Contact person: Prof. dr Milan Segedinac

Period of realization: 2021 – 2025

ID: COST Action CA20115

5. Implementation of Circular Economy in the Built Environment (Circular B)

Description: Facing the increasing concerns about the negative environmental impacts of buildings, governments and general society worldwide have been seeking more efficient and sustainable constructions. Hence, the Circular Economy (CE) emerged as a new paradigm of innovative practice with potential application to the construction industry besides other economic sectors. Following the European Circular Economy Action Plan (ECEAP), multiple efforts have been made to apply circular thinking to construction practices and include resource circularity into sustainability frameworks, such as Level(s). However, despite the endeavours, there is still a lack of a standard tool that fully implements the circularity potential, classifies buildings accordingly, and assesses the realisation level of the ECEAP. Thus, the CircularB Action aims to develop a common international framework of a circularity rating tool with Key Performance Indicators (KPIs) based on current best practices of CE construction, state-of-the-art and ECEAP. The tool's framework will allow local application and adaptation by different COST countries and regions. By developing a benchmark database – based on each country/region conditions, culture and traditions – the direct use of the tool is enabled, supporting both designers in developing more sustainable buildings and national/local governments in assessing and promoting their CE targets. Furthermore, construction, assembly, adaptability, deconstruction and business model guidelines will be identified for new and existing buildings to enhance CE in buildings and promote stakeholder knowledge.

Contact person: Prof. dr Mirjana Laban

Period of realization: 2022 – 2026

ID: COST Action CA21103

6. European network for the Mechanics of Matter at the Nano-scale (MecaNano)

Description: Our society urgently needs new materials with improved performance and durability in order to overcome its environmental crisis. Room for significant progress is available at the nano-scale, where all properties originate. Research at this length scale strongly intensified over the past two decades, but the knowledge remains very fragmented. As a consequence, a holistic understanding of how the nanoscale mechanical behavior gives rise to the macroscopic properties of the materials is still missing. The Action ambitions to combine the expertise and resources of European researchers to overcome the different bottlenecks limiting the exploration of mechanical size effects. Synergetic gains will be achieved through a common agreement on the physical parameters to be measured and by promoting interoperability of the produced research data throughout the European Research Area (ERA). In addition, the experimental yield will be boosted by granting access to the latest techniques in nanomechanical testing, nanomechanical simulation and nano characterization to the whole community. Even more dramatic gains will be achieved by promoting the application of machine learning to nanomechanical research and favoring the development of interdisciplinary *in situ* techniques. The transformative policies implemented by MecaNano will durably strengthen nanomechanical research in the ERA. They will foster the emergence of talented future scientific leaders, increase the number of female scientists engaging in nanoscience, as well as increase the visibility of research institutions in Inclusiveness Target Countries and allow their researchers to establish durable cooperations with their peers throughout the ERA.

Contact person: Prof. dr Goran Stojanović

Period of realization: 2022 – 2026

ID: COST Action CA21121

7. European Materials Acceleration Center for Energy(EU-MACE)

Description: Materials have played a decisive role in nearly all rupture technologies in the industrial history of our society. Faced with the current climate, geopolitical and humanitarian crisis, many international and regional entities (political, industrial and scientific alike) recognize the importance of a strong materials innovation ecosystem for driving the clean energy transition. In response, self-driving laboratories (SDL) (a.k.a. MAPs – materials acceleration platforms) are created at institutional, regional and international levels. SDLs integrate combinatorial synthesis, high-throughput characterization, automated analysis and machine learning for fast-track discovery and optimization of advanced materials. While these platforms are proving their effectiveness in producing advanced materials with targeted functionalities and physical properties, a large margin of improvement still exists. Streamlining materials integration into components and to safe and sustainable products is one example challenge in order to enable rupture technology. Another challenge is that of geographical concentration of MAPs that practically excludes a substantial fraction of research labs and tech-companies in Europe from contributing and benefiting from such platforms. Finally, next generation material science researchers need to develop new skills to be able to integrate such systemic and automated approach into their future R&D framework. To this end, EU-MACE will become an ecosystem for accelerated materials development at the user end, gathering researchers and stakeholders with state-of-the-art digital and material competences combined with the market/social pull.

Contact person: Prof. dr Branka Nakomčić-Smaragdakis

Period of realization: 2023 – 2027

ID: COST Action CA 22123

8. Techno-economic analysis of carbon mitigation technologies (TrANsMIT)

Description: TrANsMIT proposes a COST Action on the techno-economic analysis (TEA) of the overall, integrated CO₂ Capture, Utilisation, and Storage (CCUS) value chain. It aims to bring together academia, research institutes and industry into a cutting-edge, pan-European knowledge network. The Action advances the research frontier of CCUS TEA from partially unharmonized and disciplinary research to harmonized, holistic pan-European, coordinated research on the full CCUS system, facilitating development of the most technologically, economically and commercially feasible CCUS technologies and systems. It will be achieved by harmonizing and coordinating the methods and tools used for CCUS TEA in Europe, leveraging the knowledge created by our partners in national or international research projects. The project focuses most on holistic assessment of the CCUS chain, and on those areas where most development is needed (e.g. CO₂ capture from air, CO₂ utilization). The created science will be an essential means to steer CCUS R&D and deployment in a direction that allows reaching climate targets on-time and in a cost-effective manner, while harnessing the competitiveness of European industry. TrANsMIT will have a strong focus on knowledge sharing and career development, tackling existing disparities in knowledge distribution and career opportunities. It will foster strong collaboration between the more and the less research intensive countries in Europe, improving the access of the latter to State-of-the-Art science and new research projects. It will put into leadership roles early-career researchers and minorities, helping to fast-track their career development. TrANsMIT will lead to top-tier techno-economic analysis of CCUS systems across European countries.

Contact person: Prof. dr Dunja Sokolović

Period of realization: 2022 – 2026

ID: COST Action CA21127

9. Modular Energy for Sustainability and Resilience (MODENERLANDS)

Description: The MODENERLANDS Action aims to merge and systematise the efforts of the European Research and Development (R&D) groups working on Sustainable Energy and the related technologies, in particular wind and wave energy sources, by proposing pathways for incorporation and by promoting the relevant synergies in Research, Education and Training in order to enhance Sustainability in the built environment. MODENERLANDS revisits safe, smart, modular, cost-effective and socially valuable high performance sustainable Energy Islands for consideration in the plans, design and development of the future sustainable energy infrastructure. Looking forward to future development, MODENERLANDS will work with Modularised Construction of Offshore Floating Platforms aiming at easily extending their size and capacity according to future energy needs. The concept of Modular Energy Island will act as a platform to maximise collection and conversion of the renewable energy sources and efficiently transfer them to the network, exploring cutting-edge Green Hydrogen related technologies for efficient energy storage and transportation. MODENERLANDS will promote synergies that will offer breakthrough scientific developments leading to new concepts and R&D outcome and thereby contributing to the strengthening of the European research and innovation capacities on Sustainable Energy Applications along the European Green Deal lines.

Contact person: Prof. dr Ivan Todorović

Period of realization: 2021 – 2025

ID: COST Action CA20109

10. Managing Artificial Intelligence in Archaeology (MAIA)

Description: The advent of Artificial Intelligence (AI) applications within archaeology has brought incredible opportunities but also significant challenges. Only a few years ago, Machine Learning algorithms and Neural Networks were concepts unknown to archaeologists; now, AI has been applied to many archaeological fields, from the detection of archaeological sites, the recognition and reassembling of archaeological pottery, the mining of text from historical documents and epigraphs, the study of human remains, the identification of murals and graffiti, and even robotics. AI has great potential to create a better comprehension of shared archaeological heritage. However, a more profound understanding of which archaeological research questions could be addressed, the availability and creation of the data upon which this research relies, the ethical, epistemological and hermeneutical side of the challenges that AI poses, and the lack of sustainable access to the necessary resources to undertake this work now deserve more in-depth discussion and exploration. The MAIA COST Action will create a community of archaeologists, digital archaeologists and computer scientists who will work together to develop a shared understanding of AI applications in archaeology. This will include meetings and workshops bringing together researchers who wish to create or use digital collections and training data. Key to this will be training opportunities in the field for documenting archaeological resources optimised for AI research and Short Term Scientific Missions, where researchers can work across borders to understand how to create comparative and training data.

Contact person: Prof. dr Dragan Ivanović

Period of realization: 2024 – 2028

ID: COST Action CA23141

11. Architectural and Urban Ambiances of European Cities (CitySenZ)

Description: In the manufacturing process of living spaces, a predominant top-down approach, from project inception to delivery to users, has often led to post-construction issues that are costly to resolve. These issues may include areas overexposed to noise, a lack of cool shaded spaces, and various other challenges that affect the quality of life. This highlights the significance of exploring the lived spaces through ambiances in the missing “bottom-up” flow. Moreover, ambiances studies, which have evolved since the 1980s, offers a more comprehensive understanding compared to earlier post-project evaluations, including post-occupancy assessments that originated in the 1960s. It encompasses various trends, such as the phenomenological approach, artistic works that utilize ambiances as a creative medium, environmental psychology, ambiance engineering, and architectural achievements by figures like Peter Zumthor. These trends significantly contribute to our understanding of architectural and urban ambiances. This COST Action seeks to unite diverse perspectives and methodologies to understand, exchange and harmonize the concepts, definitions, by collecting archives, and defining cooperative objectives by harmonizing the technical language and draw perspectives for the future of architectural and urban ambiances in European cities and beyond. It focuses on holistically integrating the “bottom-up” approach, including sensitive experiences of ambiances, into the design, construction, and management of living spaces. By emphasizing the sensory dimension of ambiances, this aims to highlight solutions that prioritize the human experience in urban planning.

Website: <https://www.cost.eu/actions/CA23145/>

Contact person: Prof. dr Milena Krklješ

Period of realization: 2024 – 2028

ID: COST Action CA23145

12. ISO compatible, efficient and reproducible protocols/equipment for mICro-nanoPLASTIC detection through machine-learning (ICPLASTIC)

Description: The ICPLASTIC Action addresses the urgent need to standardize methods for detecting micro and nanoplastics (MNPs) in environmental, drinking, and bottled water. Recognizing knowledge gaps in MNP risks, occurrence, and standardized procedures, ICPLASTIC will develop ISO-compatible protocols and equipment for MNP detection, using machine-learning to ensure efficient and reproducible results. This initiative will create a transdisciplinary network connecting equipment manufacturers, end-users, and academics to establish essential design specifications for compliance with upcoming ISO standards and environmental regulations. Expected outcomes include market-ready equipment for MNP detection, new MNP-related water legislation compatible with ISO standards, and knowledge dissemination for regional monitoring, benefiting researchers, the economy, and European citizens alike.

Contact person: Prof. dr Maja Petrović

Period of realization: 2024 – 2027

ID: COST Action CA23131

13. Mediterranean Cancer Screening and Early Diagnosis Network (Medi-Case)

Description: Cancer burden (in particular for breast, cervical and colorectal cancer) represents a compelling issue worldwide, and the Mediterranean area is no exception. In this area, the implementation of cancer control policies is heterogeneous as most high-income countries set up organized programs, while low-middle-income countries (LMICs) face more constrained situations. Either way, a general enhancement, considering implementation, organization, monitoring and participation, is needed. Despite broad differences, commonalities, that go beyond geographical proximity, exist in relation to socio-cultural backgrounds, and they can be successfully exploited in defining common preventive approaches. The Mediterranean Cancer Screening and Early Diagnosis Network (Medi-CaSE) aims to involve countries bordering the Mediterranean Sea, to foster health systems' capacities in the implementation of effective and sustainable secondary cancer prevention policies. Further, Medi-CaSE will form a common research platform in cancer screening, for investigating gaps in current knowledge with a specific attention to inclusiveness and innovation. Medi-CaSE can be valuable in identifying research priorities, collecting best practices, spreading and translating evidence-based interventions into clinical practice. Meanwhile, training and career opportunities for local professionals and young researchers will be provided, favoring a multidisciplinary approach. All tasks will be carried out with the early involvement of local stakeholders and policymakers. Medi-CaSE has been conceived to face several challenges, considering local scenarios of cancer secondary prevention and current epidemiological frameworks.

Contact person: Prof. dr Tatjana Lončar-Turukalo

Period of realization: 2024-2028

ID: COST Action CA23151

14. Knowledge Graphs in the Era of Large Language Models (KGELL)

Description: Knowledge Graphs (KGs) have gained attention due to their ability to represent structured and interlinked information. KGs represent knowledge in the form of relations between entities, referred to as facts, typically grounded in formal ontological models. Such machine-readable formats enable AI systems to make decisions using clear and verifiable data. Consequently, KGs have become essential elements in web search engines, recommendation systems, etc. Large Language Models (LLMs) have revolutionized the landscape of AI and are widely utilized in various NLP tasks such as natural language understanding, question answering, etc. Despite their remarkable performance, LLMs suffer from some significant drawbacks. First, they are trained on general-purpose data and have lower performance in domain-specific tasks and low-resource languages. Secondly, they often reflect societal biases present in training data, which can result in biased outcomes. Third, LLMs sometimes produce inaccurate or made-up information, termed “hallucinations”. Finally, understanding the decision-making process of LLMs is challenging and their outputs may lack consistency. A potential solution to all these problems is to integrate LLMs with KGs, since KGs can provide factual information and the ability to perform reasoning. This would boost the LLM’s domain-specific reasoning, and interpretability, and mitigate biases and hallucinations. A notable challenge with KGs is their requirement for frequent updates, usually performed by processing and integrating information from vast textual datasets, LLMs can aid in generating and refining KGs.

Contact person: Prof. dr Dragan Ivanović

Period of realization: 2025-2029

ID: COST Action CA24121



Republic of Serbia

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

BILATERAL COOPERATION

The Ministry of Science, Technological Development and Innovation of the Republic of Serbia performs state administration tasks related to: system, development and improvement of scientific research activities in the function of scientific, technological and economic development; proposing and implementing the policy and strategy of scientific and technological development; determination and implementation of scientific, technological and development research programs; support for young talents; training of personnel for scientific research work; proposing and implementing innovation policy; proposing and implementing policies and programs in the field of artificial intelligence; encouraging technopreneurship, transfer of knowledge and technologies in the economy; development and improvement of the innovation system in the Republic of Serbia; development of the functioning of the system of scientific and technological information and the program of development of scientific and technological infrastructure; research in the field of nuclear energy; security of nuclear facilities; production and temporary storage of radioactive materials, except in nuclear power plants; creation of conditions for access and implementation of projects within the purview of that ministry that are financed from the funds of the pre-accession funds of the European Union, donations and other forms of development assistance, as well as other tasks specified by law.



Republic of Serbia

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

SERBIA - AUSTRIA

1. Green micro-reinforced building composites with agricultural by products - Green Area

Contact person: Doc.dr Slobodan Šupić

Period of realization: 2024-2026

2. Activated flux fusion for wire-based plasma additive manufacturing (AS Fusion)

Contact person: Prof. dr Sebastian Baloš

Period of realization: 2024-2026



Republic of Serbia

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

SERBIA – SLOVAKIA

- 1. The University campus as a logistics living lab: a methodology approach**
Contact person: Prof. dr Marinko Maslarić
Period of realization: 2024-2025
- 2. Stopping criteria to bound distributed consensus algorithms with asymptotic convergence for network size estimation**
Contact person: Prof. dr Dragana Bajović
Period of realization: 2024-2025
- 3. A bipolar approach in mathematic models of decision-making processes**
Contact person: Prof. dr Biljana Mihailović
Period of realization: 2024-2025
- 4. Research of material and technological properties of structured perforated Armax sheets intended for ballistic protection**
Contact person: Prof. dr Sebastian Baloš
Period of realization: 2024-2025



Republic of Serbia

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

SERBIA – CHINA

1. Integration with Flexible IoT and Blockchain technology for PLM Strategy based perishable food quality

Contact person: Prof. dr Stevan Stankovski

Period of realization: 2024-2026



Republic of Serbia

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

SERBIA – FRANCE

1. Linear logic and probabilistic programming -LILOPRO

Contact person: Doc. dr Ivan Prokić

Period of realization: 2025-2026



Key Action 1: Mobility of Individuals

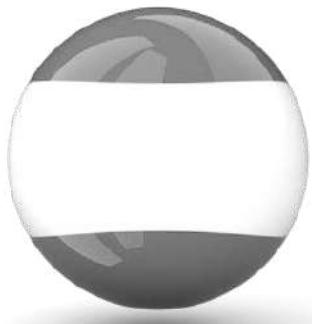
This Action is all about providing opportunities for individuals to improve their skills, enhance their employability and gain cultural awareness.

Under Key Action 1 organizations can apply for funding to run mobility projects to enable organizations to offer structured study, work experience, job shadowing, training and teaching opportunities to staff and learners.

Beneficiaries are able to spend a period of time in another participating country gaining valuable experience of life, study and work with the aim of increasing the opportunities available to them in the future.

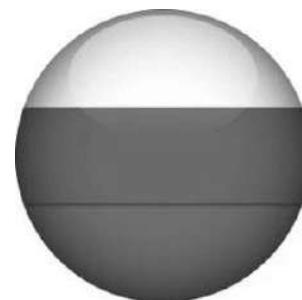
Key Action 1 covers the five fields of higher education, vocational education and training, schools, adult education and youth. It is important to note that target groups and activities for Key Action 1 vary by field.

Key Action 1 is the largest action in Erasmus+ with 63% of programme budget supporting its focus on increasing mobility and skills.



AUSTRIA

1. GRATZ UNIVERSITY OF TECHNOLOGY – TU GRAZ
2. UNIVERSITY OF KLAGENFURT



BULGARIA

3. TECHNICAL UNIVERSITY OF SOFIA
4. UNIVERSITY OF TELECOMMUNICATIONS AND POST, SOFIA
5. HIGHER SCHOOL OF TRANSPORT 'TODOR KABLESHKOV', SOFIA



GREECE

6. UNIVERSITY OF THE AEGEAN, MYTILENE
7. UNIVERSITY OF PELOPONNESE, PATRAS
8. UNIVERSITY OF WESTERN MACEDONIA, KOZANI
9. UNIVERSITY OF WEST ATTICA, EGALÉO

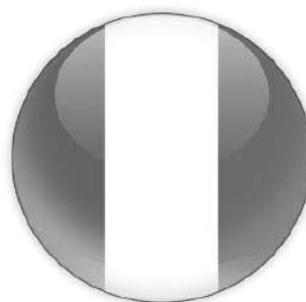


CROATIA

10. JOSIP JURAJ STROSSMAYER UNIVERSITY, OSIJEK
11. UNIVERSITY OF APPLIED SCIENCES, ZAGREB
12. UNIVERSITY OF RIJEKA
13. UNIVERSITY OF SLAVONSKI BROD

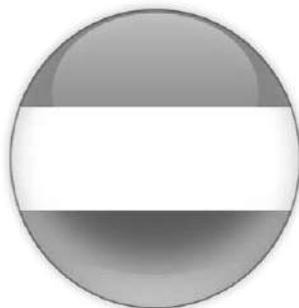
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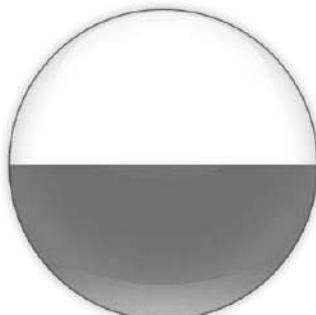
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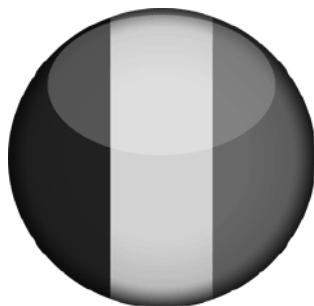
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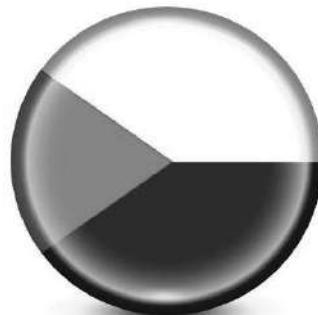
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