

VInnovate Call 2024 - Overview Project Ideas Expressed (August 2024)

- The present document provides a **brief description** of the project ideas presented during the various webinars organised and/or described on the Gateway.
- The aim of the present document is to maximize outreach and matchmaking opportunities, offering interested organisations a single document where project ideas are described.
- If you have an interest in teaming up with one of the organisations listed below (who are willing to develop VInnovate projects), please contact them directly (see "contact details").
- Taking into account the "Project Fit Form" deadline (16.09.2024), we recommend you to act swiftly, if possible.

Name Organisation (type)	Region	Project idea description	Complementary expertise (partnering requests)	Contact details
Sirris (Facility Centre)	Wallonia (BE)	Quantification of the advantages of a complete data chain based on additive farm production from the point of view of: • Lead time • Quality • Reliability • Environment Identify real related challenges to make easier technological choices for agile production line for small and medium series.	willing to add agility to its designs while guaranteeing short production lead times. Solution provider: supplier of automation systems (part sorting, handling, etc.), ERP software maker Raw material supplier: supplier of high-	julien.magnien @sirris.be
Sirris (Facility Centre)	Wallonia (BE)	Assessing the potential and challenges of the molten metal deposition process of making component in aluminium alloy with thin walls matrix and/or to be used for reparation	aluminium like reactor system for gas	olivier.rigo@sir ris.be



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			Service provider (part printing): wishing to assess the technical and economic potential of the technique	
BioComposit es Centre, Bangor University	Wales	Valorisation of agri-food-forestry residues using a biorefinery approach linked to the Bioeconomy Pilot (lignocellulosic biorefinery demo case)	Industrial and academic partners with access to conversion technologies or with end-user requirement for new biobased products	Adam.charlto n@bangor.ac .uk
MUSP and one SME	Emilia- Romagna	Introduction of new sustainable steel materials for high volume machining production. Exploring use of "free milling materials" for machining without use of lubricant (oil or fluids).	A company inside VInnovate region (but outside Italy) that is interesting to join to team interested in sustainable steel materials. i.e. raw material supplier	matteo.lomb ardi@musp.n et +39 348 9240673
OPTIMATHR SOLUTION (SME)	NORTH EST ROMANI A	Improve the product: ORoLoC-3D <optimized 3d="" constraints="" loading="" routing="" with=""> (a solution that optimizes the transportation of boxes (cuboids) of various sizes and weights for multiple destinations, assuming on-demand availability of delivery trucks. Following improvements expected: 1) improving the computational time by leveraging parallel computing platforms (CUDA); 2) allow orders to be split into multiple trucks (currently we assume each order is fully delivered by the same truck) and/or 3) Transform our product into a cloud service</optimized>	The targeted partners are: 1) Industrial partners with expertise in logistics interested in using our ORoLoC-3D product for validation and further improvements (e.g. logistics hubs, factories that deliver fragmented orders) or 2) New collaborations: partners with interesting projects participating in VInnovate for which our expertise could be valuable (e.g. optimization, Machine Learning, Remote Sensing)	VICTOR ROBU: optimathr@g mail.com



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T&E COM SERV SRL (SME)	NORTH EST ROMANI A	Company was founded in 1997. We design and manufacture women clothing. Within the VInnovate project T&E would like to find a partner with whom to take production to an advanced technical level, ensuring the transition to a more efficient industry, through Virtual prototyping and Try on system made with digital twin.	Technology provider for Virtual prototyping and Try on system made with digital twin.	VICTORIA URSU- te.comsrv@g mail.com
Vasco da Gama CoLAB (VG CoLAB) (tech. centre)	NORTE	Scaling up different battery cell technologies by supporting academic institutions and research institutes to validate their technologies at a semi-industrial level, technically and economically. Improve internal competences to assist all the aspects of scaling up.	Research partners with validated battery cell technologies at TRL 4 or 5, irrespective of chemistry or format. Industrial partners interested in assessing new battery technologies before committing to large-scale investments.	João Paulo Sousa Business Developer joao.sousa@ vgcolab.com
Communicar e (SME)	Wallonia	Remote monitoring for Chronic diseases (cancer, COPD, Diabetes, Heart Failure, etc.) or Home Hospitalization (post-surgery, etc.). - Multidisciplinary approach: possibility to involve physiotherapists, dieticians, home nurses, etc. - Self-monitoring (e.g. cardiac frequency, oxygen saturation & Anthonisen criteria). - Therapeutic education including treatment intake training videos. - Al model for the risk prediction and efficient patient triage.	Partners needed: Hospitals, patients organisation, research centres, device manufacturers, etc.	a.attipoe@co municare.be



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UNIBO (university)	Emilia Romagna	Construction/3DP - Strengthening solutions for steel structures using dot-by-dot WAAM, through Optimized energy dissipation lattice devices based on curved configurations.	TECHNOLOGY PROVIDERS: - MANUFACTURING of prototypes - STRUCTURAL TESTING of material and elements - CERTIFICATIONS of material and elements - SUSTAINABILITY AND LCA ANALYSIS END USERS (CONSTRUCTION FIRMS / ENGINEERING FIRMS) - Use cases or practical applications	michele.pale rmo7@unibo .it
INEGI (research/faci lity centre)	NORTE	We aim to develop advanced thermoplastic materials with continuous fibre for the production of components through additive manufacturing for high-performance applications. The development can focus on tapes or filaments, depending on the end user, with continuous or short fibre. The material optimization for the 3D printing process will mainly focus on polymer matrix modification through compounding (improving fibre/matrix interface, matrix thermal properties, etc). Material multifunctionality can also be addressed (lightning strike applications, fire resistance, antibalistic)	We would require an organization with additive manufacturing capabilities for CFRP, able to define material requirements and test the developed thermoplastic tapes or filaments.	dgomes@ineg i.up.pt



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JS LEAGUE TECHNOLOGI ES SRL (SME)	NORD EAST ROMANI A	Our digital product, Bit&R, is an adaptive education platform that allows K-12 children to learn programming by designing and sharing their own games. Children have access to a wide range of arcade games that they may design, modify, and share with their peers, fostering creativity and knowledge sharing. Bit&R's platform-agnostic code (which can be used outside of our platform), custom game creation, time savings in learning (3h vs. 2mo on the same curriculum), and open data dashboard for academics make it a European first. For parents, the game is a cheaper alternative to other educational products. We use proprietary generative Al models into 2 main areas: adaptive levels and smart Robert assistant. Shifting instructional practice to a more real-time, non-biased feedback system will let teachers use Bit&R and its Al capabilities to coincide with educational goals and adaptive learning.	We are looking to partner to Research institutions or Universities in order to: -Onboard 4700 new users -Improve our genAl model for adaptive levels -Develop the smart Robert assistant -Develop and test open data dashboard for researchers -Dissemination and new features testing -Academic research collaboration on innovation in STEM education for various age groups on game-based learning	diana@jsleag ue.ro / ifrim.claudia @gmail.com
TEC Eurolab (SME)	Emilia- Romagna	Any idea/field where there is a need for characterization of materials/processes/components	Organisations putting forward an idea where there is a need for characterization of materials/processes/components	Fabio Esposito- TEC Eurolab srl <esposito@t ec-="" eurolab.com="">; Mariano Longo</esposito@t>



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				longo@tec- eurolab.com
SM CRIS CONSTRUCTI ON (SME)	NORTH- EST ROMANI A	SM CRIS CONSTRUCTION aims to collaborate with a medical research center to develop and implement an innovative solution based on IoT (Internet of Things) technology and virtual simulation environments in the metaverse for monitoring and preventing health problems faced by construction workers. Objectives: -Developing of an IoT sensor system for monitoring construction workers -Creating a virtual simulation environment for training and education -Evaluating effectiveness in reducing occupational diseases -Improving quality of life and productivity workers	Medical research center.	Cristian M Sandu: cristian.m.sa ndu@hotmai l.com
LSRE-LCM / FEUP	NORTE	 Pickering emulsions / Microencapsulation methodologies Valorization of natural foods and food residues using green extraction methodologies Development of innovative/functional products for food, biomedical or cosmetic applications Partners with expertise in LCA Partners for industrial applications Open 	Partners with expertise in LCA - Partners for industrial applications - Open	asribeiro@fe. up.pt



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ADSERVIO SOCIAL INNOVATION (SME)	NORTH- EST ROMANI A	Adservio is Romania's No.1 school management platform. Project scope: Tracking: Collect and analyze data on students and teachers' mental health and wellbeing. Existing data from Adservio, such as grades and attendance, will be enriched with standardized surveys assessing stress levels, safety, social interactions, and physical health. Al algorithms will generate an overall wellbeing score and notify relevant parties to enable timely interventions. Resources: Provide a library of documents, articles, books, and videos tailored to improve users' wellbeing based on detected scores. We also plan to integrate existing wellbeing products for comprehensive support. Support: Facilitate the creation of support groups on the platform for parents, teachers, principals, and school psychologists, fostering a supportive community that addresses wellbeing concerns proactively.	To realize this project, we are seeking partners with expertise in the following areas: • Artificial Intelligence and Machine Learning: Specialists who can develop and refine Al algorithms for data analysis and wellbeing scoring. • Mental health and Psychology experts: Experts to help design standardized surveys and interpret wellbeing indicators and suggest new ways of developing the Wellbeing module. • Educational Technology experts: Experts that can suggest further developments of the module to address also the Wellbeing of the teachers and school's staff.	mihai.mocan u@adservio.r <u>o</u>
RAISIS SOFTWARE (SME)	NORTH- EST ROMANI A	Raisis Med Application The product is a specialized CRM for the medical field, designed to facilitate the management of patient relationships and the optimization of administrative operations of clinics, hospitals and medical offices. It integrates advanced functionality for patient	We are looking for ophthalmology clinics to enter into a partnership for the development of medical software.	RAZVAN UNGURASU- razvan@raisi ssoftware.co m



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		management, scheduling, communication, and medical record management. •Appointment system that allows patients to book their appointments online with automatic notifications •Appointment management system for doctors •Secure and accessible storage of patient medical information. •Generating detailed reports to analyse patient data •Inventory Module that helps manage drug and consumable stocks by automating restocking orders based on pre-defined critical levels. •Integration with Medical Equipment meaning the Software will be able to integrate directly with medical devices in the clinic, automatically collecting data from them to insert into electronic patient records.		
UTILDECO GROUP SRL (SME)	NORTH- EST ROMANI A	UtilDeco is part of the ADV Romania group, which operates in the social economy sector. UtilDeco is a work integration social enterprise with significant experience in various fields, including the production of textile work equipment, specialty coffee roasting, and document archiving and storage services. Within Vinnovate Call, UtilDeco aims to expand its business operations in the production of textile wark equipment by adding a new service line. This new service will encompass the washing, maintenance,	To develop this new business direction at UtilDeco, we need: • to integrate digital solutions for coding, scanning, sorting, storing, processing, and transporting work equipment to clients. • digital solutions for automatic washing based on the type of material and the degree of soiling. Additionally, these solutions should provide information on the product's lifespan, the repair services it has received, and whether components have been	ANGELA ACHITEI- angela.achite i@utildeco.ro



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		recycling, and storage of work equipment for employees of various companies.	repurposed for new equipment at the end of their lifecycle. •Integrate recycling solutions for used textile equipment, transforming them into raw materials for other industries (e.g., construction) or even finished products.	
IAM3D (SME)	South NL	"Data Economy Solutions Adapted to Production process for Intelligent making-decision and Enabling faster and accurate manufacturing Systems by easy transition to digitalisation".	AI, machine learning, etc.	Arno Gramsma <a.gramsma @mikrocentr um.nl></a.gramsma
TIPORED PLUS SRL (SME)	NORTH- EST ROMANI A	Tipored Plus has extensive experience in the printing and packaging industry, with a strong focus on creating innovative, eco-friendly packaging solutions. Our expertise spans across various domains including custom packaging design, production of high-quality paper bags, and sustainable packaging practices. We have a proven track record of working with diverse clients to develop packaging that exceeds their expectations in terms of design, functionality, and environmental impact. Our team of skilled designers and engineers utilizes advanced technologies to deliver prototypes and large-scale production runs efficiently.	Our primary need is for individual robotic arms to assist in the assembly of gift bags made from cardboard. This automation will significantly improve efficiency and precision in our production process, enabling us to scale our operations and maintain high quality standards. Additionally, we seek collaboration opportunities that provide access to advanced materials and technologies to further enhance our eco-friendly packaging solutions.	ALEXANDRA PETRARIU- andra@tipor edplus.com
NUBILA sas	NORTH- EST	Technology area covered by Nubila is physical meteorology, radar meteorology and nowcasting.	Partner/s interested in marketing this unique instrument and cooperating in the	Franco Prodi accomandata



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	ROMANI A	Focus of the project is the instrument is Pludix, a Disdrometer (special measurements of precipitation), invented and manufactured.	development of a new more economic version of it, now almost ready. -on the side of universities and research institutions I am looking for research units interested in exploring with me the great potential of the instrument in: precipitation studies, meteorological risks (especially floods) management, ground truth for active sensors onboard satellites, agricultural applications, as PWS (Present Weather Sensor) etc.	rio@nubila.n et
LEPABE/FEUP	NORTE	Microalgal cultures; Process Modelling and Optimization; CO2 capture; Wastewater treatment.	Chemical Engineering; Environmental Engineering; Bioengineering; Artifitial Intelligence; Statistical modelling.	jcpires@fe.u p.pt
Mitis SA	Wallonia	Development of integrated large power fuel cell systems for decentralized and backup power generation with hydrogen	hydrogen management and storagepower electronicssystem controls	Michel Delanaye, CEO
Belgian Welding Institute	Flanders	 4 project ideas put forward (see here for more info): a) Hybrid printing (for bicycle manufacturer) b) Machine Learning-powered defect detection with AE c) Correlation of measured data (Acoustic emission - thermography - spectroscopy) with laser scan data d) Optimizing AM (DED-Arc, DED-LB,) process parameters based on combined data 	BWI is looking for partners with, among others, AI and/or measurement technology expertise and/or industrial applications	Koen Faes <koen.faes@ bil-ibs.be></koen.faes@



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Conacul Goruni (SME)	NORTH- EST ROMANI A	The scopes of the project are: - the development of new by-products using fruits and/or vegetables mince resulting from the juice production process - production waste recycling for developing new products for human/livestock feeding and nutrition - limitation of production waste and addressing sustainable vegan diets for humans	Partnerships for the study of fruits and/or vegetables mince to determine possible market-oriented by-products and highly-nutritive foods	conaculgoru ni@gmail.co <u>m</u>
Createq (SME)	North- East Romania	Early Warning Health System Is a platform (including web and mobile apps) which monitors current outdoor conditions and serves them to users who suffer from cardiovascular, respiratory, neurological, or other health issues, by providing them with recommendations, tips, alerts, all the info that can get them out of harm's way. Down the road, it will extend to support wearable devices inputs for individual health parameters, emergency contacts, VoIP counselling, expert checkup scheduling, etc.	External expertise (Medical / integrated sciences research centers) is required to support the analysis and interpretation of unfavourable outdoor scenarios for multiple illness types covered in the app and to facilitate training the machine learning models. SMEs having expertise in individual health monitoring / IoT health sensor systems / wearables can partner for further enhancements based on real-time individual health parameters.	radu.pavel@cr eateq.space
UCLouvain- Biosensing	Wallonia	They are a research facility expert in developing microand nanotechnology for bioanalysis.	Looking to join a consortium for projects who need technologies to detect specific biological targets . Interested in entering one	gregoire.lebru n@uclouvain. <u>be</u>



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group (university)		Eg.: Electrochemical sensors, Paper-based colorimetric sensors, Carbon electrodes for biomedical sensors.	of the three demo-cases of the pilot 8. Nano-/Microsystems and High-Tech Materials for Industrial Transformation • NeMs4BIO (Nano-enabled Microsystems for Bioanalysis) • SHM (Structural Health Monitoring). • MEMS for nano-analytiX	
AI VISION SOLUTIONS (SME)	North- East Romania	From 2021 we started the development of the platform www.aivisionplatform.com. We have developed a proprietary Al framework for object detection that is highly optimized for inference for thousands of cameras simultaneously also a proprietary communication protocol. As customers we have telecom providers like Orange, security companies like Civitas Group SA, Secpral, Tora, EMPI that do electronic security guard and monitor thousands of cameras. AlVision platform is a comprehensive, Al-driven video analytics system that processes and analyzes video streams for a variety of purposes, including security monitoring, operational efficiency, and data analysis, which make it a powerful tool for organizations across industries. Labels management module this is a key feature of the platform. This module connects to all video streams processed by the client's devices, enabling the	Interested in partners who need computer vision, identify object classes, anomalies for different industries: Error/Defects in Industry production lines, Analytics for Retail/OOH/SmartCity/Security/Safety Regulations/ Petroleum industry	BOGDAN GRUMAZESCU : hello@airisvisi on.com



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		customization of object detection classes and the improvement of detection accuracy over time by training an retraining the objects classes. Also the platform has module for autolabeling using text prompt, and generative Al. Generate Al Images with Auto Labeling for multiple foundation models to achieve Zero Shot Labeling. The platform is designed to be highly adaptable, supporting integration with a wide range of devices from IoT to virtual processing servers The platform has more that 40 neural networks and can identify more that 300 objects classes, and can be used for training to identify new object classes.		
Palibo SRL (SME)	North- East Romania	Palibo SRL is a Romanian small batch pastry and sweet manufacturer and seller, focusing on high-quality, artisanal products. The company operates in a highly competitive market where innovation, sustainability and efficiency are key to maintaining and expanding market share. Technological and Innovation Needs: To stay competitive and align with EU priorities, Palibo SRL could benefit from technological advancements and innovative practices in the following areas: Sustainable Sourcing and Production Circular Economy and Waste Management Advanced Manufacturing Techniques	4 distinct types of expertise looked for: 1. Bioeconomy Pilot: Sustainable Packaging and Ingredient Innovation Project Idea: Develop an in-house biorefinery system to convert non-food biomass (e.g., agricultural waste, food production byproducts) into sustainable packaging materials and potentially bio-based ingredients for Palibo's pastry products. 2. VI 3DP Pilot- 3D Food Printing for Custom Pastry Production	manuela.ciora @adrnordest. ro



Name Organisation (type)	Region	Project idea description	Complementary expertise (partnering requests)	Contact details
		Digital Transformation	Project Idea: Implement and optimize a 3D food printing system that uses sustainable, bio-based materials to create custom pastry designs, enhancing product differentiation and reducing waste. 3. VI Artificial Intelligence Pilot - Al-Driven Process Optimization for Sustainable Manufacturing Project Idea: Deploy Al-based solutions to optimize production processes at Palibo SRL, focusing on reducing energy consumption, minimizing waste, and improving overall efficiency. 4. Efficient and Sustainable Manufacturing Pilot- Emission-Neutral Factory Operations Project Idea: Introduce energy-efficient and resource-saving technologies to move towards an emission-neutral production process at Palibo SRL, focusing on optimizing energy use and reducing waste.	
Sustainable Food Science & Technologies Research Group	Wales	The group has a platform of technologies harnessing the power of plants, fungi and green chemistry to seek sustainable & innovative transformations of biorenewable feedstocks. Applied R&D into various market sectors: • Natural Products & Supplements	 Looking for collaborations in: Applied R&D & Scaling Innovation New Product Development Decarbonising / defossilising processes 	cwallis@cardi ffmet.ac.uk



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		 Nutraceuticals Biomaterials Enhanced Biology Phyto- / Myco-chemicals 	 Identification & selection of new input streams By-product evaluation & valorisation 	
Apollo AI (SME)	North- East Romania	Aims to develop an innovative natural language chatbot solution that will serve as a trusted partner for healthcare professionals. This chatbot will be capable of accessing and integrating essential data in a fraction of a second, ensuring that doctors always have the most relevant and up-to-date information at their fingertips. Another groundbreaking aspect of our project is the chatbot's ability to map and correlate complex medical data. In Romania, we have already mapped over one million drug interactions, categorized into four different levels of severity. This allows our chatbot to provide doctors with precise recommendations regarding drug compatibility, reducing the risk of medical errors and enhancing patient safety. Through this project, we are not just developing advanced technology; we are redefining the practice of medicine by providing doctors with the tools they need to offer high-quality care in a much shorter time. Our chatbot is not just a simple support tool but a strategic partner that helps doctors be more efficient, better informed, and more dedicated to their patients.	Need partners who can contribute with specific expertise in the medical field, provide access to relevant databases, and collaborate in the development and testing of our solutions. It is crucial that our partners are willing to integrate and test the chatbot within their IT infrastructures, offer continuous feedback for optimization, and closely collaborate with our technical team.	MIHAELA ONOFREI: mihaela.onofr ei@apolloaite ch.com



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Exquisite (SME)	North- East Romania	Exquisite is a design, consulting, production and service company specialized in the construction of automatic bottling lines. Starting from the solution provided or generated by the configurator, the application will create a template for the PLC project produced by LS Korea (LS Industrial Systems). This template will include automatic allocation of I/Os, memory addresses and software components used in previous similar projects. Based on the configuration defined in the configurator, the application will automatically allocate the required I/Os, ensuring the correct correspondence between the defined sensors and actuators and the I/Os available on the PLC. The required memory addresses for variables and registers will also be automatically generated, avoiding conflicts and optimizing the use of PLC resources.	Looking for a company that can help develop this PLC software.	Liviu Vornicu: liviu.vornicu@ exquisite.ro
Helicomed SRL (SME)	North- East Romania	The medical clinic Helicomed has been acting as healthcare provider in the city of lasi, in the N-E Region of Romania, since 1998. In its 26 years of existence, the Helicomed Clinic has become known through the clinical and para clinical services offered with the highest degree of professionalism, as well as through the Helicomed Association, a non-profit psycho-medical organization, established from the desire of the management team to provide free consultations, within	Specific needs: 1. Immunoglobulin IGG (allergy tests for different nutrients); neurofeedback; drug addiction testing- Laboratory Equipment and Training the personnel, AI for psychiatric/ Psychologic evaluation and diagnosis, telemedicine, rare-diseases (genetic tests), logopedic device for speech and reading-upgrade and go to market.	manuela.ciora @adrnordest. ro



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		a legal framework, to all persons with precarious material status. Relevant Expertise 1. Healthcare in pediatrics and adults, Logopedic, Medical Laboratory. 2. LUDOLEXICO Ludolexico is a device or the learning to read and write stage, for use both by pre-school children and by people with speech impairments. Ludolexico is a programmable learning device for speech-impaired persons, the device comprising sound sources, radiators, acoustic and switching sources, a programming unit and a delay unit, a mixing amplifier connected to external sound sources, the inputs of the programming unit being connected to the outputs of a switching unit to which sound sources are connected. This complex device is intended to correct, by repeated practice, speech defects such as stuttering.	2. Production companies interested to produce the Ludolexico device	
CoLab ForestWise	Norte	Digitalization of the Wood and Furniture value chain, in response to the legal imperatives of the new European legislation (EUDR). The targeted application areas: Forest and forestry value chain	The scope of the project focuses on developing and supporting SME in adopting digital technologies to facilitate compliance with the EUDR's legal obligations.	jorge.cunha@ forestwise.pt