

Vinnovate Call 2026 – Brief Overview Project Ideas Expressed (July 2026)

- The present document provides a **brief description** of the project ideas presented during the various webinars or listed on [Gateway](#).
- The aim of the present document is to **maximise 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, please **contact them directly** (send an email to vinnovate@s3vanguardinitiative.eu should you face issues getting in contact with the organisations).

Name Organisation (type)	Region	Project idea description	Complementary expertise (partnership requests)	Contact details
Universidad de Vigo (University) and Ingeniería Insitu (SME)	Galicia	Hyperspectral artificial intelligence system for large-scale detection, geolocation and decision support for asbestos-containing materials in building façades.	<u>1. University or Research Centre</u> Research and optimisation of hyperspectral sensing for façade-based asbestos detection. Spectral research: adaptation and validation of existing asbestos spectral libraries for oblique façade acquisition, sensor calibration, radiometric correction, and analysis of acquisition geometry effects. <u>2. SME – Mechanical & Electronic Engineering</u> Design and integration of hyperspectral sensor into portable terrestrial inspection system. Hardware integration: Mechanical design, electronic architecture, power systems, GNSS/IMU integration, stabilisation, embedded communications and field-ready device development. <u>3. SME – GIS / Smart City / Digital Twin Provider</u> Development of geospatial decision-support platform for asbestos management. Decision Support System: GIS platform, urban mapping, Digital Twin integration, risk visualisation, inspection planning tools, municipal dashboards and reporting systems. <u>4. SME – Asbestos Removal / Remediation Company</u> Field validation and operational testing of asbestos detection system. Real-world validation of AI predictions, comparison with physical inspections, support for labelled datasets, prioritisation of removal activities and exploitation feedback. <u>5. SME – Building Inspection / NDT Company</u> Technical validation of façade materials and inspection methodologies. Non-destructive testing, building diagnostics, ground-truth validation of detection results, and benchmarking against current inspection practices.	María Pedraza, Open Innovation manager and Head of OriginLab by AVS Consulting (Spain). Representing the Galician Consortium. mpedraza@avsconsulting.es

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			<u>6. LC – Construction / Building Rehabilitation Company</u> Access to real building environments for testing and demonstration. Provision of pilot sites, façade expertise, construction material knowledge, and support for demonstration and scalability assessment. <u>7. Facility Management / Asset Management Company</u> End-user validation and exploitation of decision-support platform. Definition of user requirements, validation in operational building portfolios, market uptake strategy, and commercial exploitation pathways. <u>8. SME – Environmental / Circular Economy Software Provider</u> Integration of asbestos management system into environmental and waste management platforms. Integration with environmental monitoring systems, circular economy workflows, regulatory reporting tools and sustainability platforms.	
ProMaterial Ltd SME (deep-tech; AI-powered manufacturing inspection & robotics)	Wales	AI-powered metal inspection system improving defect detection accuracy and reducing waste. This includes inspection of precision metals, and 3D printed (additively manufactured) items/components.	We are looking for two types of partners. (1) End-user / industry pilots — manufacturers of magnets, precision metals, 3D printed (additively manufactured) parts and energy-critical components, who can provide real samples, factory context and validation data, and a deployment pathway. (2) University / RTO partners — for digital-twin modelling, materials validation and carbon/resource-impact assessment. We are also keen to connect with partners experienced in EU innovation grants (ESM, with 3DP and ADMA links).	Yining Shen, Founder yining.shen@promaterial.co.uk
The Open University Wales	Wales	This project aims to test and validate an innovative Verification, Validation and Testing (VVT) prioritisation tool for advanced manufacturing and product development, particularly for SMEs. This project will deploy a VVT prioritisation tool (TRL 7/8) and its scientific method in real SME environments to: •Validate performance and advance the tool to TRL 8–9, •Generate before-and-after evidence of impact,	Small and medium-sized enterprises (SMEs) and large manufacturers, who are developing technologies and new products, working at TRL5-8 and planning/undertaking testing activities for validation and/or compliance, who will test and potentially adopt the VVT prioritisation method and tool within live projects or workflows	Khadija.tahera@open.ac.uk sian.impey@open.ac.uk

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		•Refine usability and scalability based on industry feedback. The project aims to demonstrate: •Improved efficiency in VVT resource allocation by identifying critical tests •Reduced cost, time, and waste, including lower use of facilities, materials, energy, and staff time, therefore, more sustainable product development •Stronger collaboration across SMEs, larger companies, and supply chains		
JouleFlux (SME)	Wales	Testing and Validation of an industrial AI Co-pilot for industrial Thermal processes. Our solution connects to the monitoring system of a processing line (SCADA) and map energy flows. Then, it quantifies optimisation potential, diagnoses root causes of waste heat and energy losses, and provides a prioritised list of actions to reduce losses. When there are production variations (e.g. feedstock humidity, increase of throughput) or changes in external factors affecting the process (e.g. outdoor temperature), it recalculates optimal set-points.	Industrial end users (or consortium including industrial partners) with thermal processes such as: •Drying of agricultural produce •Food & Drink Manufacturing •Bio-materials •Polymers manufacturing •Chemical Processing •Injection Moulding Universities with industrial testing facilities might also be considered depending on the size their testing equipment.	Fabio@jouleflux.co.uk

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		Benefits: up to 18% energy cost reduction; up to 12% throughput increase.		
Onicor BV - SME	Noord-Brabant	We developed a medical device (class I) to treat onychomycosis, a fungal nail infection. We are looking for partners to help us carry on a clinical efficacy study to demonstrate the efficacy of our treatment compared to the standard topical treatment.	Research centres, Universities or SMEs in the podiatry field where clinical trials can take place	Andreia Almeida, andreia@onicor.nl
Synaptica Ltd. (SME) www.synaptica.nl	EAST NL	Providing clinical decision making support, with a focus on channelopathies.	Looking for European R&D partners with a focus on healthcare-oriented digital twin development and/or precision medicine.	marijn.martens@synaptica.nl
Micro-Cosmos	EAST NL	We would like to deploy the innovative bed canopy for approximately 6 months on a dementia ward of a German nursing home. A German university of applied sciences or research university would conduct research into its effectiveness (sleep, restlessness, medication use, use of restrictive measures) and into the experiences of residents, family members, and care staff. The project would thus serve both practice (better care and reduced workload), science (publications and research opportunities for students), and Micro-Cosmos itself, which would gather insights for possible	Specifically, we are looking for a German nursing home with a dementia ward that is open to running a pilot, and a German university of applied sciences or research university with expertise in nursing science (Pflegerwissenschaft) or gerontology that is interested in conducting the research.	eef.lamers@micro-cosmos.nl

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		product adaptations for the German market.		
Amaryllis Green Solutions (SME)	Wales	Development of a patented acoustic cleaning and monitoring system for electrolyzers. The solution aims to reduce fouling and degradation, extend electrolyser lifetime, reduce operating costs and mitigate hydrogen embrittlement through an integrated hardware-software condition management approach. The project seeks to demonstrate a first-of-a-kind total condition management and predictive maintenance system for hydrogen electrolyzers combining acoustic cleaning, monitoring and AI-based maintenance support.	Looking for partners active in the hydrogen value chain, including electrolyser manufacturers, electrolyser owners/operators (including universities), hydrogen adopters and end users. Particularly interested in partners from hard-to-abate sectors such as steel, aerospace, shipping, ceramics, cement, concrete, chemicals, glass and aluminium. Also seeking software/AI partners able to develop continuous monitoring, control software and AI-supported predictive maintenance for electrolyzers.	David Haines davidjosephhaines@gmail.com
BarionX	Noord Brabant	FIONA - Fused Imaging Of Neutron and X-ray for Analysis	• Systems Integrators: integrating the system in a field deployable sea-container: ○ Wiring&cabling ○ Electromagnetic Safety and Compatibility ○ Mechanic Safety (Shake and Tremour free operation) • Industrial manufacturing expertise (depending use case): ○ Transporter system, conveyor belts ○ Production line expertise Industrial partner for first use case	peggie.rombout@barionx.com

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Goggleminds	Wales	An AI patient training simulator for safer survivor disclosure conversations. Goggleminds (Wales) is seeking a research partner to validate beyond English language and UK context.	What we are looking for: An academic research partner - Based in a non-English-speaking VInnovate region - Mixed-methods researchers for interviews, pilot validation and peer-reviewed output - Cultural and linguistic adaptation expertise for VAWG disclosure in your context - An appropriate setting for validation, e.g. healthcare institution, university or third sector organisation.	azize@goggleminds.co.uk
High Value Manufacturing (HVM) Group - Cardiff University	Wales	1. Circular Hybrid Manufacturing (CHM) - The research focuses on the development of novel circular manufacturing routes for the production of sustainable powders for metal additive manufacturing. 2. AI and Machine Learning for Advanced Manufacturing – This research area focuses on developing new AI and Machine Learning based techniques. 3. Development of Hybrid Manufacturing Process Chains for Mass Production of AM Parts - The research involves AM process optimisation for new metallic materials, followed by post-processing of the AM parts via laser-based surface engineering techniques. 4. Advanced Machining of Composites for Aerospace/Automobile Applications	Manufacturing technologies, AI, Machine Learning	Dr Debajyoti Bhaduri (BhaduriD@cardiff.ac.uk)

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Deploy Tech Ltd (SME)	Wales	Develop a production line for a new product line called Onmi Tank Series	Manufacturing Design and Development	Contact he
SBMC (SME)	Noord Brabant	SBMC enables entrepreneurs and academics to speed up developments of new biomaterials and biodegradable implants for biomedical applications to improve patients' lives around the world.	SBMC is seeking collaboration with a partner(s) interested in, for example: electrospinning, 3D bioprinting, nerve cell regeneration, wound healing, another biomaterial-based clinical therapy histology, or cytotoxicity testing.	jan.rietsema@smartbiomaterials.nl
Cardiff Metropolitan University	Wales	Myco-materials. Expertise from CMU: Various growth substrates derived from waste biomass. Solid state fermentation expertise.	Businesses with biomass sources / off cut recycling of biomaterials.	Wallis, Christopher <CWallis@cardiffmet.ac.uk>
Cardiff Metropolitan University	Wales	Thermal & acoustic testing of biomaterials. Expertise from CMU: Bespoke materials analysis platform	Businesses / ROs in construction, furniture, interior design, polymers, composites.	Wallis, Christopher <CWallis@cardiffmet.ac.uk>
atlanTTic – University of Vigo	Galicia	IA-based scalable systems for early detection of mild cognitive impairment	Health oriented- SME, health providers, nursing homes.	Prof. Dr. Luis Anido-Rifon lanido@det.uvigo.es
Cardiff Metropolitan University	Wales	Chemical and material analysis of compounds and materials Expertise from CMU: Biomass waste valorisation platform – extraction, separation, isolation and analysis. Materials characterization – gels, polymers, surface functionality, e.g. antibacterial	Businesses with challenges relating to food waste, reusing biomass processing waste, polymer recycling, material functionality.	Wallis, Christopher <CWallis@cardiffmet.ac.uk>

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Cardiff Metropolitan University	Wales	Wastewater purification & recycling. Expertise from CMU: Access to Welsh Food & Drink Manufacturing industry, including wastewater effluent for trials. Water analysis – elemental + compounds	Business / ROs / Universities with technologies for wastewater recovery, purification, separation. Filtration, (Reverse) Osmosis, etc.	Wallis, Christopher <CWallis@cardiffmet.ac.uk>
Machinova (SME)	Noord Brabant	We are experts in engineering, machine building, prototyping and co-creation. We are in search for companies in the UK that wish to develop new and innovative machines and solutions. We love automation and can offer mechanical design, industrial software design, and integration of new technologies for industrial automation.	We are open to any partner that needs 3D engineering of machinery, prototyping, machine building, or metal/plastic parts manufacturing.	Aart Schalk, info@machinova.com
ImmunoServ	Wales	We are looking to develop new T cell immunity tests for vaccine immunogenicity and population health assessments.	We are looking for partners with expertise in infectious diseases to validate our Immuno-T test platform in different disease areas.	James Hindley; info@immunoserv.com ; JamesHindley@ImmunoServ.com