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Proposed approach to call topic: Nightingale HQ is a digital technology partner bringing GoSmarter.ai – our AI platform for material traceability, certification and production planning in metals manufacturing to Horizon Europe's calls. Outcomes include helping partners cut waste, scrap and CO₂ impact. Relevant Research Areas Our capabilities add strong value to clean steel and advanced materials calls, including: • Steel production optimisation – AI-driven techniques to minimise waste, scrap, offcuts and emissions. • Compliance and material traceability – digital traceability, certification and compliance with ISO, BSI and ASTM standards. • AI-driven production and quality control – optimising production, material use and quality control. • Supply chain optimisation – improving visibility, traceability and efficiency from steel mill to fabricator. • Industrial deployment – proven pilot-to-market record in live industrial settings with scrap reduction 50%. • AI and manufacturing digitalisation expertise – deep capability in data science, AI and digitalisation, plus multi-partner R&D experience (EIT Manufacturing, VInnovate). • Industrial demonstration – established supply-chain access for real-world testing and validation. This aligns well with several calls including HORIZON-CL4-2027-01-MAT-PROD-06, which seeks data-driven design, digital twins, FAIR data and circularity solutions from lab to market. Nightingale HQ pairs new digital innovation with proven, field-tested AI technology for demonstration, validation and deployment.	Topic number & name: • Apply AI Challenge-Driven Innovation Booster (HORIZON-CL4-2027-04-DIGITAL-EMERGING-04) • Fast Track to Research and Innovation for industrial technologies (HORIZON-CL4-2027-01-MAT-PROD-61) • HORIZON-CL4-2027-01-MAT-PROD-06: Circular innovative advanced materials: facilitating the transition from design to markets (RIA) (Innovative Advanced Materials for the EU and Made in Europe partnerships) • Factory processes and automation for de- and re-manufacturing (HORIZON-CL4-2027-01-MAT-PROD-03) • New approaches for Human/AI collaboration for the workforce of the future (HORIZON-CL4-2027-02-DIGITAL-EMERGING-52) • HORIZON-CL4-2027-01-MAT-PROD-49: 'Proof of market' to improve valorisation and commercialisation of Horizon generated R&I results Are you planning on being a Coordinator or a Partner? Lead (Coordinator) on the Fast Track topic (MAT-PROD-61) and AI Innovation Booster Partner on the remaining topics (MAT-PROD-06, MAT-PROD-03, DIGITAL-EMERGING-52, MAT-PROD-49) – as the AI/digital traceability and business-adoption partner.
Nightingale HQ develops GoSmarter.ai, an AI platform for compliance, material traceability and production optimisation in metals manufacturing. • Secured a £1.3m EIT Manufacturing grant for the <i>Greener Steel Production</i>, with KUKA Robotics, Midland Steel, OCSC and VTT. • AI compliance & traceability: Automates material certificate extraction, validation and digital audit trails. • Production optimisation: AI-powered cutting plans have cut steel scrap by up to 50%, reducing waste and carbon impact. • Inventory management: Tracks materials from goods-in to despatch with certificate-linked traceability. • Working with UK and Irish steel manufacturers to develop and validate new industrial AI solutions. • Winner of the British Stainless Steel Association Sustainability Award and Best GreenTech Application, Wales Technology Awards 2025.	What We Can Offer a Consortium • Proven, field-tested AI platform (GoSmarter.ai) for demonstration and validation. • Strong funding track record across Innovate UK, Welsh Government and EIT Manufacturing programmes. • Experienced consortium partner, leading Work Packages with manufacturers, universities and RTOs UK/Europe-wide. • Research expertise in steel optimisation, emissions reduction, traceability, quality control and supply chain. • Pilot-to-deployment experience, taking solutions from R&D to live industrial environments. • Strong industry network across steel and metals manufacturers for real-world testing. Our capabilities align strongly with Clean Steel and advanced manufacturing priorities. What we would like to receive from other consortium members: • Metals industry partners – steel mills, fabricators and stockholders with production, quality, traceability or supply chain challenges. • Research and academic partners focused on steel decarbonisation, optimisation, materials science, standards and compliance. • Industrial pilot sites to demonstrate and validate new materials alongside our traceability and efficiency tools. • Experienced Horizon Europe coordinators or RTOs leading relevant RIA proposals, with Nightingale HQ as AI/traceability partner.