

## **Full list of projects**

ClimaHarvest (Intelligent Climate Control System for Indoor Farming)

Led by: Brits Energy Ltd

IAPMS: Intelligent Agricultural Predictive Maintenance System for high-value assets - Enhancing Productivity through AI and IoT Integration to improve productivity

Led by: Ivy Tech Ltd

SmartLight.ai - TinyML Model Refinement for Computer Vision in Urban Spaces

Led by: Smartlight.AI Ltd

Project Insight – Embedding AI Into Horticulture

Led by: Antobot Ltd

AI-powered narrative extraction and classification to combat misinformation and disinformation

Led by: Valent Projects Ltd

Machine learning acceleration of differentiable fluid simulation software

Led by: Vanellus Technologies Ltd

aidioQC - Live broadcast audio quality control using AI

Led by: Salsa Sound Ltd

DesignAI: Accelerating Design Extension and Adaptation in Graphic Design

Led by: Paper Mill Ltd

Transformational change in railway inspection and defect lifecycle management through the development of novel algorithms to unlock automated temporal defect analysis

Led by: Hack Partners Ltd

Matterhorn Studio: Accelerating the Development of Novel Sustainable Concrete Formulations with Artificial Intelligence

Led by: Zeitler Technologies Ltd

A vision-based system for proactive management of safety on construction sites

Led by: Evercam UK Ltd

AlquaBoost: AI-Driven Aquaculture to Enhance Productivity

Led by: Digital Readiness and Intelligent Systems Ltd

FloraFold: an AI tool for crop disease resistance trait discovery

Led by: Resurrect Bio Ltd

Regenerative AI

Led by: LISTT.IO Ltd

AI-driven fashion sketch to garment pattern tool

Led by: Lucy Haugh

Use of ML to optimise use of 2nd generation automated harvester to improve yield, quality and productivity

Led by: Upcycled Plant Power (UPP) Ltd

Improving Productivity with AI Data Capture and Analysis for Creative Industries

Led by: Cambridge Kinetics Ltd

Levelling Up Crossings

Led by: Purple Transformation Group Ltd

SeeGull - AI tools to improve logistics productivity

Led by: Robok Ltd

Buried Treasure - Extracting structured data from site investigation reports for better contamination risk management in construction

Led by: Land Quality Management Ltd

AI-powered productivity for circular fashion

Led by: Zori Tex Ltd

A.I. Power to Productivity

Led by: Unipart Logistics Ltd

An AI-Copilot to support a youth skills platform

Led by: Mypocketskill Ltd

All Axis 3D radiance fields

Led by: All Axis Studio Ltd

SMARTlines - automating condition inspection in the construction industry

Led by: Covailent Ltd

Novel AI Solution for Improving Passenger Flow Efficiency and Customer Service Productivity in Public Transport with Accessible Communication and Predictive Passenger Flow AI Modeling

Led by: Xiasma Ltd

Generative Modular Design for Construction

Led by: CAE Tech Ltd

Project FORWARD (FOR Working & productive AI Research & Development)

Led by: Tomorium Ltd

AI For Increased Productivity Of Bus Network Infrastructure

Led by: Alchera Data Technologies Ltd

Integration of visual language models within Material Index's digital platform to accelerate the data capture and processing of survey information related to reuse of existing structures and components

Led by: Material Index Ltd

Crowding Alert Technology

Led by: Esoterix Systems Ltd

Understanding Passenger Behaviour: From insight to impact

Led by: Nerds With Words Ltd

AI-driven Advanced Data Management for Smarter Agriculture

Led by: Yagro Ltd

Subscription based Conversations AI based Anti Fraud train Railcard and Ticketing app

Led by: Blockrank Ltd

SpaceForm AI: experimental development of an AI powered 3D visualisation platform

Led by: Spaceform Technologies Ltd

Efficient Production Scheduling for the Creative Industry with Automation via ML

Led by: Tech Research and Innovation Ltd

Revolutionising interior Design Construction Documentation with AI: Bridging the Gap Between Vision and Reality

Led by: Ademchic Ltd

Feasibility study to improve productivity in the Creative Industries by using AI in scheduling, relationship management, contracts and management reporting

Led by: Climbing Turn Ltd

Smart Cities, Safe Crossings: AI-Enhanced Solutions for Data-Driven Pedestrian Optimisation

Led by: Starling Technologies Ltd

Dust suppression route optimisation using IoT and deep reinforcement learning

Led by: Atmo Technology Ltd

WIRE

Led by: Future Motion Solutions Ltd

Uncertainty aware deep learning applied to 3D data capture

Led by: Aralia Systems Ltd

SeaFrame

Led by: Safetynet Technologies Ltd

AI Enabled Live Music Event Safety and Efficiency

Led by: Twinlabs AI Ltd

Unearthing the impact of soil biology with AI

Led by: Elaniti Ltd

Engineering design AI information extractor

Led by: Buro Happold Ltd

Nilor

Led by: Jingo Juice Ltd

Creative Edge: Using AI to Identify and Align Graduate Skills Development with Creative Industry Job Requirements

Led by: Group GTI Ltd

Using AI to increase productivity in video content selection for film festivals, TV channels and video-on-demand platforms

Led by: Happy AI Ltd

Automating for Agility: AI Solutions to Optimise Light Electric Vehicle Routing in the Last Mile

Led by: Kale Collective Ltd

Improving construction bid response productivity and effectiveness

Led by: BidX Limited

DEEPSEEK 2.0: Harnessing AI For Data-Driven Agricultural Decision Making

Led by: Wondersphere Ltd

Augmenting Ideation with Artificial Intelligence Personas

Led by: Persona Design Ltd

Multi-View Videos (Auto-editing)

Led by: Happaning Ltd

AI-powered Nail Art Studio

Led by: Remshall Ltd

VideoSense-AI: a novel AI-driven platform for deep and granular video content search using advanced natural language for visual and audio content

Led by: Neuromind Labs Ltd

Explainable AI for inspection of welds

Led by: Sound Mathematics Ltd

HornetAI™: Automated Asian Hornet Nest Detection System

Led by: The Far Out Thinking Company LTD

Development and adoption of an AI solution to improve the utilisation of logistics capacity in transport sector

Led by: Anteam Ltd

Dynamic Optimisation of Manufacturing Parameters for the Processing of Low-Grade, Mixed Plastic Waste as a Feedstock

Led by: Circular11 Ltd

Leveraging Language Models for Bottom up Construction Excellence

Led by: Keamore Ltd

Manual-handling injury prevention technology with AI enabled automatic risk detection, classification and intervention identification functionalities

Led by: Spatialcortex Technology Ltd

An innovative platform using Generative AI to provide farmers with tailored advice to inform farm decision and deliver insights that help improve farm performance

Led by: Black Sheep Technology Ltd

Automated sperm morphology analysis for vets enabled through machine learning

Led by: Dyneval Ltd

Good For The Money: a live AI platform for Credit Checking within the Construction Industry

Led by: GFTM Ltd

Application of AI to Improve Workforce Allocation and Efficiency in British Ports

Led by: Energy Analytics Services Ltd

Experimentation of artificial intelligence and deep learning techniques on hyperspectral remote sensing for remotely obtaining wheat nitrogen status

Led by: Messium Ltd

SeamStream AI: Accelerated Construction Sequencing for Fashion Brands and Manufacturers

Led by: Pattern Project Ltd

AutoScoutAI: Revolutionising Automotive Tech Scouting



Led by: Advanced Innovation Insights Ltd

AI-Driven ROI-Optimized Energy Retrofits for Building Portfolios

Led by: Upgreen Ltd

AI-powered collaborative planning

Led by: The Future Fox Ltd

Safe and accessible AI for infrastructure asset inspections and maintenance

Led by: Mind Foundry Ltd

Intelligent Golden Thread for Building Safety Management (i-GBSM)

Led by: GMI Construction Group PLC, Leeds Beckett University, Simply Video Ltd and Anglestack Ltd

Augment Aero - Applying AI and AR Technology to the Aerospace Market

Led by: Augmentaero Ltd, Willis Aviation Services Ltd, Caerdydd Ltd, PDQ Airspaces Ltd, AAG Defence Services Ltd, University of Southampton

Use of scenario analysis simulations and what-if analysis to reduce transport and logistics emissions

Led by: Seven Bridges Ltd, University of Bath, Maersk Company Ltd

AI for Multi-Modal Model Generation in Transport

Led by: City Science Corporation Ltd, England's Economic Heartland (Bucks Council), University of Exeter

An imitation learning robotics platform to create low-cost adaptable automation solutions for agricultural processing

Led by: Leap Automation Ltd, University of Aberdeen, M and W Mack Ltd

Charismatic: An AI-based system to accelerate productivity in the Creative Industries

Led by: Charismatic Entertainment Ltd, Channel Four Television Corporation, University of the Arts London, Falmouth University

DATA2: Drone Design using AI for Transport Applications 2

Led by: Greenjets Ltd, University of Cambridge, Cosworth Electronics Ltd, Monumo Ltd

Augmented Reality Visual Assistance (ARVAST) – Augmented Reality and Machine Learning for Error Free Quicker Assembly of Modern Methods of Construction Components

Led by: White Frog Publishing Ltd, Global Methods of Construction UK Ltd, Leeds Beckett University, University of Hertfordshire, Galliford Try Construction Ltd, J-Wadel Solutions Ltd

Portable AiFibres - Using advanced deep learning, computer vision models, multispectral sensors & automated robotics to develop portable, easy to use scanning and sorting system for waste garments and fabrics

Led by: IN-THEBOX.CO.UK Ltd, Royal Opera House Enterprises Ltd, Kingston University, CHOOSE2REUSE CIC

RADAR - Rail Anomaly Detection And Reaction

Led by: JR Dynamics Ltd, Network Rail Ltd, First Trenitalia West Coast Rail Ltd, Angel Trains Ltd, Komodo Digital Ltd

NetFLOX360 – Bridging Poultry Farm Data with Factory Insights using Artificial Intelligence for Sustainable Growth

Led by: Flox Ltd, University of Chester, Amber REI Holdings Ltd

BIM-enabled Generative AI Platform for Productivity and Accuracy Enhancement of Construction Cost Planning (BIM-GAICost)

Led by: The Property Box Group Ltd, London South Bank University, Birmingham City University, Leeds Beckett University, Milan Consulting Ltd, Ardeo Ltd, Kier Group PLC

AGRISMART: AI-Guided Resource Integration for Sustainable Management in Agriculture and Resources Transformation

Led by: X10NI Ltd, Netzero AMS Ltd, Queen's University of Belfast, Linden Foods

AI-Powered VR Construction Training Environment and Platform – SafeXtend

Led by: V-Lab Ltd, TWI Ltd, Brunel University of London, The Power Hub Ltd, Correll Electrical Engineering Ltd, Core Systems Software Ltd

Co-creator for songwriters & producers: generative AI Creator tools to boost efficiency of the creative process

Led by: Session.ID Ltd, Queen Mary University of London, Google UK Ltd

Generative AI ChatBots for Data Driven Productivity and Efficiency in Agri-Food

Led by: Foods Connected Ltd, Queen's University of Belfast, BIA Analytical Ltd, Lynn's Country Foods Ltd

BuildAudit

Led by: Unit 9 Ltd, Building Research Establishment Ltd, Mobibiz Ltd, Reusefully Ltd, Imperial College London

ALL-VP: AI-Powered Lighting in Live Virtual Production

Led by: Dock 10 Ltd, University of York, 2LE Media Ltd

StudioSync: AI productivity tools for record labels in the management of musical recordings and creator metadata

Led by: Stage Enterprises Ltd, Queen Mary University of London, Google UK Ltd, Session.ID Ltd

Monumo's 3D Generative-AI Tool (3D-GAIT) for Rapid and Manufacturable Engine Motor Designs

Led by: Monumo Ltd, University of Nottingham, Hofer Powertrain UK Ltd

Creating a compliance mechanism for AI-generated music works in a Web3.0 world

Led by: DAACI Ltd, Bimm University Ltd, Lewis Silkin LLP

AI-Enabled Personalised Nutrition Product Production

Led by: Biovit Ltd, Alexir Packaging Ltd, Pharmatics Ltd, Swansea University

AI-Accelerated Carbon Assessments for the Construction Industry (AIACACI)

Led by: Morgan Sindall Construction and Infrastructure Ltd, Constructsys Ltd, Nottingham Trent University

Multimodal Catalogue Search For Second Hand Apparel Valuations

Led by: Kelp Technologies Ltd, University of Warwick, Depop Ltd, Selfridges Retail Ltd

Artificial Intelligence for structural health monitoring using graphene sensor systems (InteGraph)

Led by: DZP Technologies Ltd, K.S. Composites Ltd, Network Rail Ltd, Nprime Ltd, University of Sheffield

FleetMind

Led by: Omnia Smart Technologies Ltd, Hodos Media Ltd, Cumberland Council, Flintshire County Council, TRL Ltd

