

Teams funded in the final round of calls for the National Challenge Fund (listed alphabetically by lead researcher's surname)

Challenge – Sustainable Communities Challenge

Team lead	Research body	Team co-lead	Co-lead research body	Project
Dr Inam Ul Ahad	Dublin City University	Dr Reihaneh Aghamolaei	Dublin City University	Blockchain-Enabled Digital Building Logbooks for Sustainable Communities
Dr Lorraine D’Arcy	TU Dublin	Dr Eoin McGillicuddy	TU Dublin	CRAWL – Campus’ Role as Actors in Walkability and Liveable communities
Dr Shane Donohue	University College Dublin	Dr Soumyabrata Dev	University College Dublin	GEOMETRIC: GEOphysics and Machine learning for Evaluating Transportation Infrastructure Condition
Dr John Gallagher	Trinity College Dublin	Dr Harun Šiljak	Trinity College Dublin	TRACE: Transforming Rural water communities As positive Climate and Energy districts
Dr Susan Kelleher	Dublin City University	Dr Jennifer Gaughran	Dublin City University	PUreTex: Creating Polyurethane Insulation from Recycled Textiles
Dr Oliver Kinnane	University College Dublin	Dr Samar Raffoul	University College Dublin	Decision support platform for optimum and sustainable Modern Methods of Construction rollout to alleviate the housing crisis
Dr Valesca Lima	Dublin City University	Prof. Stephen Daniels	Dublin City University	Enhancing Sustainable Social Housing and Climate Resilience in Ireland through Non-Intrusive Environmental Sensors
Dr Myra Lydon	University of Galway	Dr Amaya Vega	Atlantic Technological University	EMBRACE-Mobility: Equitable Management of Bridges for Resilient Accessible Communities to Ensure Mobility
Dr Anna Molter	University College Dublin	Prof. Brian Caulfield	University College Dublin	SHIFT: Sustainable and Healthy InFrastructure by reducing stress during active Travel
Prof. Niamh Moore-Cherry	University College Dublin	Prof. Brian Caulfield	Trinity College Dublin	CONUNDRUM: Co-Creating sustainable and shared community mobility, with a test community in Enniscorthy, Co. Wexford
Dr Ruth Quinn	Atlantic Technological University	Dr Natalie Delimata	Atlantic Technological University	Sustainable Shared Spaces: Creating environments where the social and natural worlds interact
Dr Annalisa Setti	University College Cork	Dr Roseane Minghim	University College Cork	Step Up: technology-enabled self-persuasion empowerment tools to increase walking in middle-aged and older citizens
Dr Pavlos Tafidis	University College Dublin	Dr Gavin McArdle	University College Dublin	Bikehood – Creating Ireland’s First Cycling Neighbourhood for Sustainable Transport and Mobility

Challenge – Future Food Systems

Team lead	Research body	Team co-lead	Co-lead research body	Project
Dr Jennifer Attard	Munster Technological University	Dr Tamara Hochstrasser	University College Dublin	FRED - Food Resource Efficiency Decision Support
Dr Ruairí Brannigan	Dublin City University	Dr Shane O'Reilly	Atlantic Technological University	Sticky Solutions: The Development and Implementation Sustainable Biostimulant Adhesives for Enhanced Fungicide Delivery to Safeguard Crops
Prof. Fiona Doohan	University College Dublin	Prof. Lorraine Brennan	University College Dublin	FungiTech: crop residues as a substrate for producing filamentous mycoprotein
Dr Swarna Jaiswal	TU Dublin	Prof. Joe Kerry	University College Cork	BioFreshPack: Sustainable Biodegradable Food Packaging System for Ready-to-Eat Products using Unutilised Agri-Food Waste
Dr Niall Maloney	Atlantic Technological University	Prof. Enda McGlynn	Dublin City University	NanoSA: Using Nanostructures for Sustainable Aquaculture
Dr Conor Meade	Maynooth University	Prof. Gerard Lacey	Maynooth University	DNet4SSoils: A Distributed National Network for evaluation of low-input sustainable crop+soil solutions, using an on-farm automated crop cultivation platform
Dr Richard Nair	Trinity College Dublin	Dr Saoirse Tracy	University College Dublin	RootCheck: Image-Based Root Health Assessment Tools for Sustainable Agriculture
Dr Kirill Niktin	University College Dublin	Dr Simon Hodge	University College Dublin	Non-aqueous Generation of Soluble Phosphate Fertiliser from Solid Agricultural Biowaste for Sustainable Agrifood Systems
Dr David O'Connell	Trinity College Dublin	Dr Marta Martins	Trinity College Dublin	NUTRECS: NUtrient Recovery from subsurface agriCultural drainS
Dr David O'Connor	Dublin City University	Prof. Anne Parle-McDermott	Dublin City University	AGSENSE: Agricultural Fungal Sensing
Dr Gaurav Rajauria	University College Cork	Dr Brijesh Tiwari	Teagasc	SC-Protein: A sustainable climate-proof waste-to-protein system for developing feed-grade protein solutions
Prof. Charles Spillane	University of Galway	Dr Galina Brychkova	University of Galway	Agri-Immanence: A generative AI/IoT enabled digital agronomy advisor for sustainability transitions of covered horti-food production systems