

DisrupTech

2024 Ireland's Disruptive
Technology Summit

Disruptive Technologies Innovation Fund Directory

Disruptive
Technologies
Innovation
Fund



Rialtas
na hÉireann
Government
of Ireland

Tionscadal Éireann
Project Ireland
2040

 Enterprise
Ireland

Introduction	2
DTIF Statistics	
Number of Collaborating Partners per Project	3
Partner Types in DTIF Projects	3
Lead Partner Types in DTIF Projects	3
Projects by Sector	4
Spend Commitment across Sectors	4
Projects by County	5
Projects by Research Performing Organisation (RPO)	5
DTIF Funded Projects	
ICT	6
Health & Wellbeing	12
Food	25
Innovation in Business Services	26
Manufacturing & Materials	27
Energy, Climate Action & Sustainability	31

The Government's €500 million Disruptive Technologies Innovation Fund (DTIF) is open for applications.

Administered by Enterprise Ireland on behalf of the Department of Enterprise, Trade and Employment, the Fund aims to encourage collaborations between industry and the research sector for the development and commercialisation of ground-breaking technologies.

DTIF funds collaborations to deliver disruptive technology innovations that:

- Can alter markets.
- Can alter the way business operates.
- Involves a new product or the emergence of a new business model.

DTIF is for SMEs (including High Potential Start Ups), large enterprises, multinational corporations and research performing organisations based in Ireland.

Project partners must be clients of Enterprise Ireland, IDA Ireland or Údarás na Gaeltachta or eligible Research Performing Organisations.

Across the first six DTIF calls to date, 104 collaborative projects with 393 partners were approved for funding of €371 million.

This directory provides statistics on the DTIF programme to date and briefly captures the range of projects across ICT, Health & Wellbeing, Food, Innovation in Business Services, Manufacturing & Materials, and Energy, Climate Action & Sustainability.

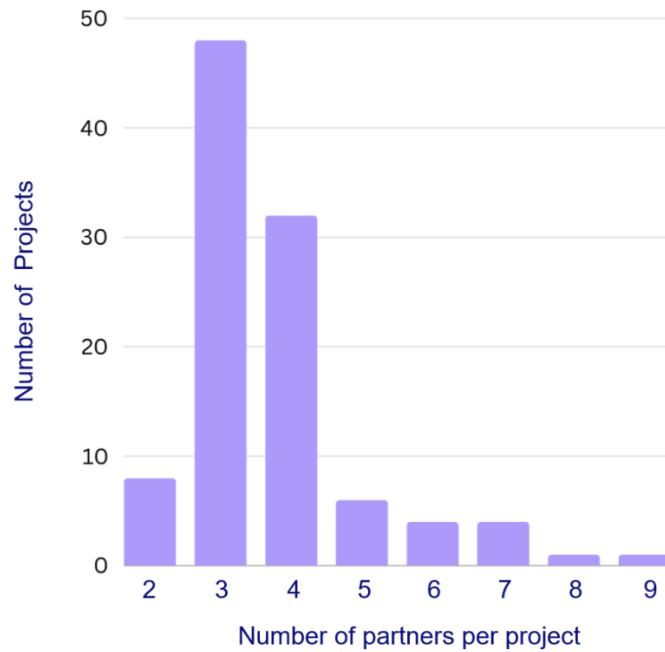
DTIF Call 7 was launched in May 2024 and will fund many more exciting collaborations that will promote the use of new and emerging technologies.

Applications can be made at any stage up to the 30th April 2025. Further information on DTIF and how to apply is available at <https://enterprise.gov.ie/dtif> or by using the QR Code below.

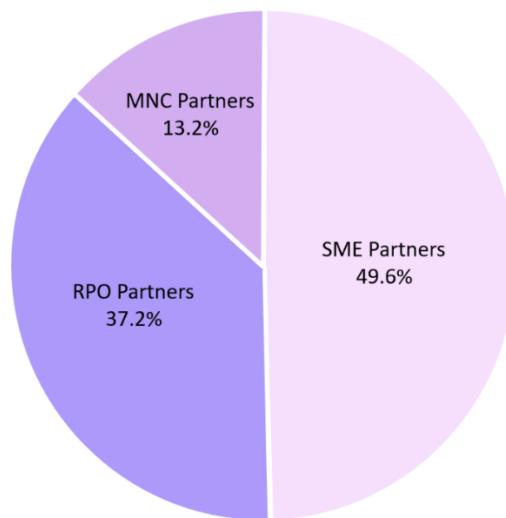
DTIF INFORMATION



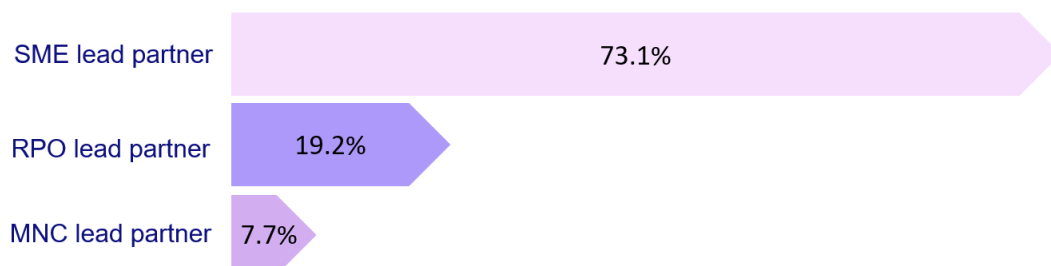
Number of Collaborating Partners per Project (Calls 1-6)



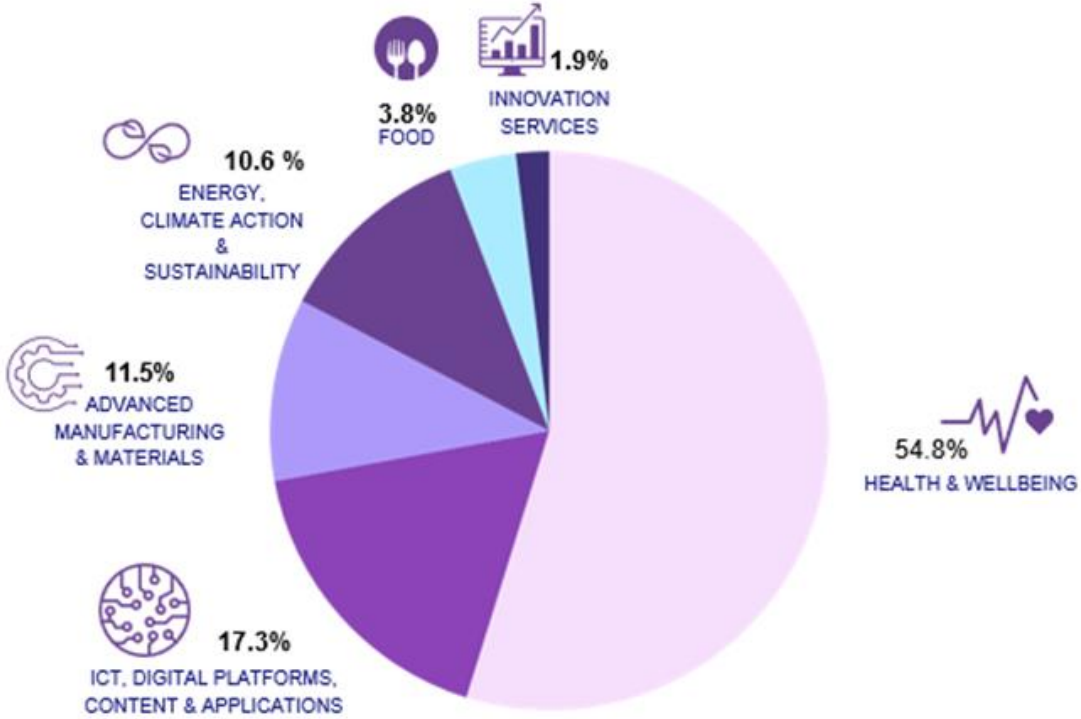
Partner Types in DTIF Projects (Calls 1-6)



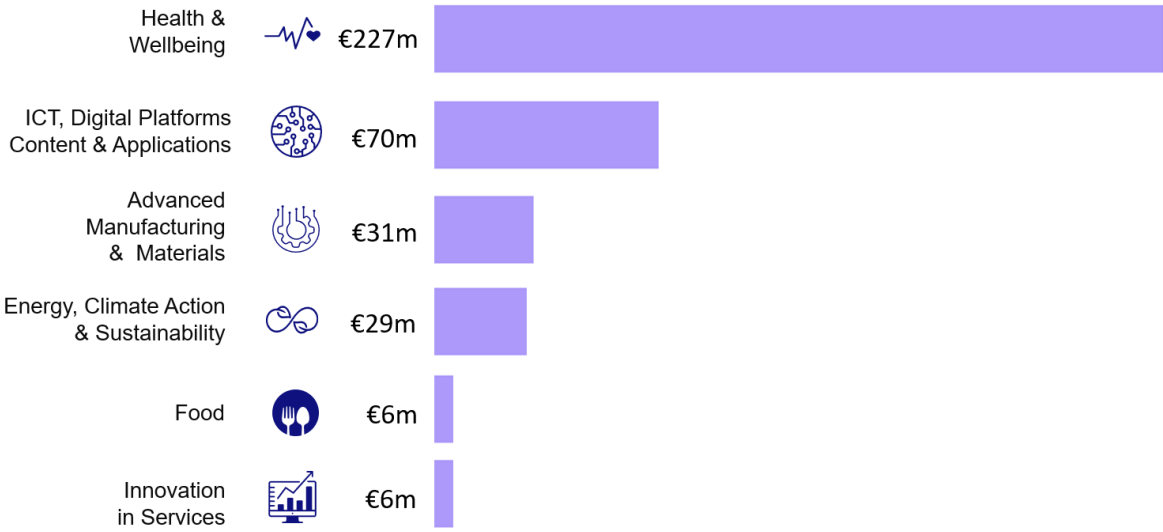
Lead Partner Types in DTIF Projects (Calls 1-6)



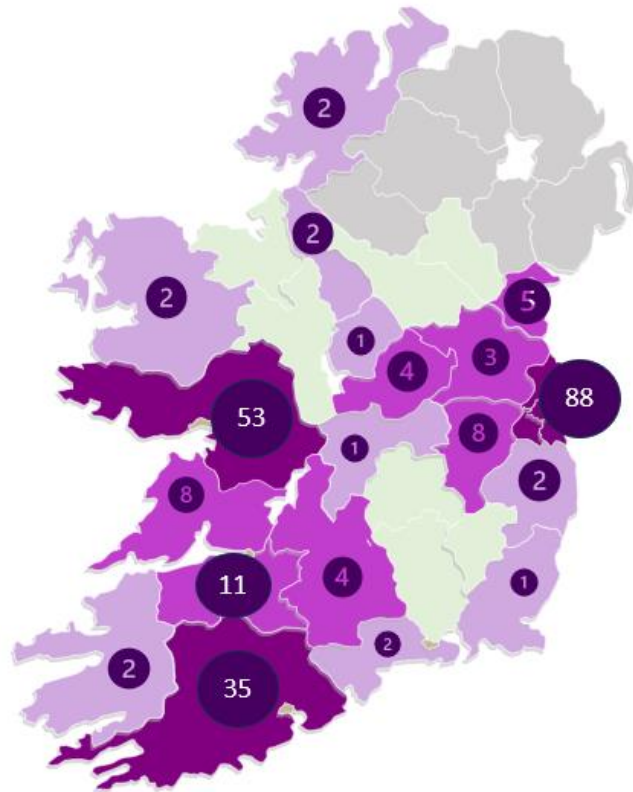
Projects by Sector (Calls 1-6)



Spend Commitment across sectors (calls 1-6)



Participant companies by county



Projects by Research Performing Organisation (RPO)





ICT		
Project	Partners	Value of Funding
A blockchain-based solution and shared governance model that can change the supply chain paradigm.	Exertis Supply Chain Services Sonalake University College Dublin (CeADAR)	€1.1M

ICT		
Project	Partners	Value of Funding
A sustainable open-access photonics manufacturing pilot line, addressing technological and manufacturing challenges to the second digital revolution.	Tyndall National Institute Ficontec Mbryonics Ltd Eblana Photonics Sanmina Ireland Faztech	€3.8M

ICT		
Project	Partners	Value of Funding
Future Software Systems Architectures (FSSA): A highly disruptive solution to address the emerging need in the Irish software business to migrate to serverless microservices based architectures.	Dublin City University Fourtheorem Fineos	€1.6M



ICT

Project	Partners	Value of Funding
<p>iLife: A mass market, production ready Optical Frequency Comb source suitable for use in optical transport and data centre interconnect network equipment.</p>	<p>Pilot Photonics Dublin City University Trinity College Dublin</p>	<p>€1.5M</p>

ICT

Project	Partners	Value of Funding
<p>ArtEngine 2.0: Bringing automated, AI-driven 3D world creation to market</p>	<p>Artomatix Black Shamrock Keywords War Ducks</p>	<p>€2.0M</p>

ICT

Project	Partners	Value of Funding
<p>FreeSpace: Revolutionize wireless connectivity with ultra-high-capacity wireless laser communication technology</p>	<p>Mbryonics Ltd Pilot Photonics Ltd Oewaves Global Ltd Dublin City University Trinity College Dublin</p>	<p>€3.1M</p>



ICT

Project	Partners	Value of Funding
<p>DAVID: An AI platform, capable of multi-modal, ultra-low power consumption data centre level processing of audio and vision data on a device, without the need to transmit any personal data to a cloud.</p>	<p>Fotonation Limited Soapbox Labs Limited University of Galway</p>	<p>€6.8M</p>

ICT

Project	Partners	Value of Funding
<p>VISP (Video Intelligent Search Platform): An intelligent, cloud-based video platform using Artificial Intelligence to enable exploration of video in the criminal justice/security and media and entertainment markets.</p>	<p>Kinesense Ltd Overcast Hq Ltd Trinity College Dublin</p>	<p>€1.5M</p>

ICT

Project	Partners	Value of Funding
<p>TRANSPIRE: A B2B digital regulation platform that makes it easier for regulated businesses from SMEs to enterprises to deal with the cost and complexity of regulation as they trade domestically and internationally.</p>	<p>Corlytics Ltd University College Dublin (CeADAR) Singlepoint Solutions Ltd</p>	<p>€2.0M</p>



ICT

Project	Partners	Value of Funding
<p>HOPE (Haemodialysis Outcomes & Patient Empowerment): A medical and wearable device that will empower kidney dialysis patients to self-manage & clinicians with insights to improve care.</p>	<p>Royal College of Surgeons Ireland PatientMpower Limited Sixty (Registered as Design to Value Ltd)</p>	<p>€2.1M</p>

ICT

Project	Partners	Value of Funding
<p>QCoIr: A software platform for multiple qubit technologies (quantum computing) in Ireland.</p>	<p>IBM Ireland Ltd. Tyndall National Institute University College Dublin Maynooth University Rockley Photonics Ireland Ltd Equal 1 Laboratories Ireland Ltd Mastercard Ireland Ltd</p>	<p>€7.3M</p>

ICT

Project	Partners	Value of Funding
<p>CAMEO: A new architecture for developing a sustainable internationally trading Earth Observation services sector in Ireland.</p>	<p>University College Dublin Vertice Integration Services Ltd T/A Vertice Cloud Bcc Risk Advisory Ltd T/A Edgescan The Icon Group Ltd Treemetrics Ltd Techworks Marine Ltd EMC Information Systems International</p>	<p>€6.4M</p>

ICT

Project	Partners	Value of Funding
<p>GUARD: Developing a world-leading capability in the area of next generation autonomous drones and associated innovations in VR, user interfaces, digital twins and next generation 3D printing.</p>	<p>Tyndall National Institute University of Limerick University College Dublin A-Techsyn Ltd True Communication Technologies Ltd T/A Vrai Ocean Print Ltd T/A Wazp</p>	<p>€5.1M</p>

ICT

Project	Partners	Value of Funding
<p>NSSPI: A national space subsystems and payload initiative that will give Irish SMEs the opportunity to develop disruptive technologies and compete in the Global Space Market.</p>	<p>University College Dublin Realtime Technologies Ltd T/A Réaltra; Ubotica Technologies Ltd; Mbryonics Ltd Intel Éirecomposites Teoranta Equal1 Laboratories Ireland Ltd.</p>	<p>€7.9M</p>

ICT

Project	Partners	Value of Funding
<p>Cilter: An AI-driven parental control concept that will modify a phone at the kernel level to access all incoming and outgoing data and encrypt messaging apps.</p>	<p>Cilter Technologies Ltd O'Neill Amarach Consultants Ltd Dublin City University</p>	<p>€2.8M</p>



ICT		
Project	Partners	Value of Funding
<p>ENERGISE: A new technology capable of making mobile networks greener by reducing energy consumption in mobile networks.</p>	<p>Trinity College Dublin Software Radio Systems Ltd Vmware International Unlimited Company Intel Research and Development Ireland Ltd EMC Information Systems International Unlimited Company Tyndall National Institute</p>	<p>€2.3M</p>
ICT		
Project	Partners	Value of Funding
<p>NBS: A novel platform to detect abnormal brain activity in infants at birth through an automated AI assessment.</p>	<p>Cergenx Ltd Evervault Ltd University College Cork</p>	<p>€6.7M</p>
ICT		
Project	Partners	Value of Funding
<p>EPICS: A nature inspired and privacy aware, low cost, low power, intelligent in cabin neuromorphic sensing platform capable of performing all analytics required for many after-market automotive specific applications, such as driver safety enhancement, intelligent insurance, intelligent fleet monitoring and automotive surveillance.</p>	<p>Fotation Ireland Ltd Ta Xperi Mysafedrive Ltd University of Galway Munster Technological University</p>	<p>€6.4M</p>



Health & Wellbeing

Project	Partners	Value of Funding
A microfluidic technology that will allow for up to four times faster drug combinations but will also be capable of utilising 3D cell cultures, giving more physiologically relevant results than traditional techniques.	Hookebio Ltd Munster Technological University (Cappa) University Of Galway	€1.9M

Health & Wellbeing

Project	Partners	Value of Funding
An implantable cardiac device solution for persistent atrial fibrillation, incorporating a unique bio-photonic sensor and non-thermal ablation electrode.	Aurigen Medical Ltd University of Galway - Smart Sensors Lab University of Galway - TMB-Lab	€5.9M

Health & Wellbeing

Project	Partners	Value of Funding
A Microfluidic Gene Transfection Cell Analysis and Sorting Platform (GTCASP) which will address the challenge in cell manufacturing for gene therapy by offering a fully automated, closed system.	Cellix Ltd Trinity College Dublin - Physics Trinity College Dublin - Med University Of Galway	€3.0M



Health & Wellbeing

Project	Partners	Value of Funding
BioHealx A solution to anal fistula disease.	Signum Surgical Ltd Mezz Medical Limited	€1.9M

Health & Wellbeing

Project	Partners	Value of Funding
Ardent 2: A new technology to address the inflammatory nasal condition Rhinitis.	Neurent Medical University Of Galway	€2.7M

Health & Wellbeing

Project	Partners	Value of Funding
Smart-Cardio: A complete paradigm shift in treatment of atrial fibrillation by addressing its root cause via a minimally invasive injection to the chest.	Atrian Medical University Of Galway	€1.1M

Health & Wellbeing

Project	Partners	Value of Funding
Bionic Man: A “neural training suit” to assist individuals with sensorimotor impairments.	Trinity College Dublin Bio-Medical Research	€1.3M



Health & Wellbeing

Project	Partners	Value of Funding
<p>Select IS: A hosted software platform to automate the secure collection, sharing, updating, aggregation, anonymization and develop a broader community of sharing secure medical device data.</p>	<p>Nova Leah Dundalk Institute of Technology</p>	<p>€1.4M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>MED-I: A platform offering and enabling technologies which can host, manage, process and analyse medical imaging data.</p>	<p>IBM Ireland Nova Leah University College Dublin Davra Networks Ltd Dundalk Institute of Technology</p>	<p>€2.2M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>A highly potent, safe, standardised, off the shelf Chimeric Antigen Receptor-Natural Killer cells that addresses the limitations of current CARs cell technologies, lowering the cost of cellular therapy for cancer.</p>	<p>Onkimmune Janssen University Of Galway</p>	<p>€4.4M</p>



Health & Wellbeing

Project	Partners	Value of Funding
<p>The Future of Colorectal Cancer Diagnosis and Treatment: Combining tissue responsive fluorescent probes, AI, and machine learning to transform colorectal cancer diagnosis and treatment.</p>	<p>Royal College of Surgeons Ireland</p> <p>IBM Research</p> <p>Deciphex</p> <p>University College Dublin</p>	<p>€6.3M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>Gene therapy and cell biology, combined with ever-evolving high-tech biomaterials to help researchers create synthetic non-viral vectors that are able to replace viruses in the treatment of genetic conditions and deliver healthy genes in a more stable manner</p>	<p>Amryt Pharma</p> <p>Curran Scientific Ltd</p> <p>University College Dublin</p>	<p>€7.9M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>A new, first of its kind, reliable, verifiable, and totally secure end-to-end home patient monitoring system.</p>	<p>Davra Networks Ltd</p> <p>Danalto</p> <p>Intel</p> <p>Dublin City University</p>	<p>€2.7M</p>



Health & Wellbeing

Project	Partners	Value of Funding
<p>HOLISTICS: A smart wearable device that will deliver end-to-end Healthtech solutions based on emerging human-centric intelligent sensors and the wireless communication of medically validated data sets to support new products and services in the areas of Health and Wellness.</p>	<p>Tyndall National Institute DABL PMD Solutions De Royal Global Healthcare Setanta College University College Cork - Lero Sanmina Ireland VRAI (True Communications) Henkel Ireland Analog Devices International Unlimited Company University College Cork HRB CRF University College Cork - Insight</p>	<p>€7.1M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>EyeVU: A disruptive, miniaturised "eyeball" endoscope camera, which will allow clinicians to see around corners with unparalleled precision.</p>	<p>Tympany Medical Ltd University College Dublin Gentian Consultancy Services Ltd National College of Art and Design</p>	<p>€3.2M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>Stroke-CIS: A clot ingestion system that will restore blood flow in patients experiencing an ischemic stroke by completely ingesting the clot at the point of occlusion.</p>	<p>Perfuze Limited Teleflex Limited Vistamed Limited</p>	<p>€4.4M</p>



Health & Wellbeing

Project	Partners	Value of Funding
Mobility+: A connected enteral feeding healthcare system for integrated & co-ordinated care.	Rockfield Medical Devices Ltd Atlantic Technological University Steripack Group	€2.0M

Health & Wellbeing

Project	Partners	Value of Funding
ENACT: A rapid outpatient solution without side effects which will disrupt the standard of care for the entire GI Cancer treatment pathway.	Mirai Medical Ltd Excelsys Technologies Ltd University Of Galway Trinity College Dublin	€4.8M

Health & Wellbeing

Project	Partners	Value of Funding
Lily: A medical device limiting drug delivery to the hair follicles during chemotherapy treatment.	Luminate Medical Ltd Gentian Consultancy Services Ltd University Of Galway	€2.2M

Health & Wellbeing

Project	Partners	Value of Funding
EmboSure - A solution to the persistent problem of knee osteoarthritis blocking specific micro blood vessels in the knee which shuts down the osteoarthritic.	Cranmed Ltd Innovative Catheter Solutions Ltd Creganna Unlimited Company Technology University Dublin	€2.4M



Health & Wellbeing

Project	Partners	Value of Funding
PERSONA: A new paradigm for existing and future blood-based diagnostic testing based on patient-centric sampling.	Atturos Ltd Agilent Technologies Ireland Ltd University College Dublin	€1.5M

Health & Wellbeing

Project	Partners	Value of Funding
OsStic: A tissue adhesive based on the body's in-built healing system for applications in bone fracture fixation and healing.	PBC Biomed Ltd Dolmen Design & Innovation Ltd Dublin City University	€3.4M

Health & Wellbeing

Project	Partners	Value of Funding
PERCEIVE: A new paradigm in the treatment for atrial fibrillation by providing a truly data-driven catheter-based imaging platform tailored to the unmet needs in cardiac procedures.	Oneprojects Design Innovation Ltd Vistamed Limited Tyndall National Institute	€5.1M

Health & Wellbeing

Project	Partners	Value of Funding
INSPIRE: Improve outcomes for lung cancer patients by providing a minimally invasive treatment that is effective and has low risk of complications.	Endowave Ltd Quadrant Scientific Ltd University of Galway	€2.7M



Health & Wellbeing

Project	Partners	Value of Funding
PROVIEW: A system for the delivery of an existing minimally invasive surgical therapies for the treatment of benign prostatic hyperplasia.	Proverum Ltd Innovative Catheter Solutions Ltd Trinity College Dublin	€2.9M

Health & Wellbeing

Project	Partners	Value of Funding
FLOWASSIST: A novel hydrocolloid (skin adhesive) over moulding technique.	Ostoform Ltd Synecco Ltd Avery Dennison Medical Ltd Ross Polymer Services Ltd Athlone Institute of Technology	€2.7M

Health & Wellbeing

Project	Partners	Value of Funding
RELEASE: A smart, patient-centric catheter-based solution for treating malignant pleural effusion "fluid on the lung" in the home resulting in improved autonomy of care.	Symphysis Medical Ltd Gentian Consultancy Services Ltd University Of Galway Galway University Hospital	€2.1M

Health & Wellbeing

Project	Partners	Value of Funding
POLYVALVE: A suture-less polymeric transcatheter heart valve technology.	Aran Biomedical Teoranta Lifelet Medical Ltd University Of Galway	€2.9M



Health & Wellbeing

Project	Partners	Value of Funding
SOLUPORE: A digitalised cellular engineering system to produce cell therapy cancer treatments with a focus on allogenic therapies and those for solid tumours.	Avectas Ltd Bluebridge Technologies Ltd National Institute for Bioprocessing Research and Training	€4.4M

Health & Wellbeing

Project	Partners	Value of Funding
HEALED: A prototype centre of excellence on the St James' Hospital/ TCD campus to discover and deliver next generation precision cell therapeutics for solid tumours through 'modular GMP in a box'	Remedy Biologics Ltd ACGT Vector Designated Activity Company Trinity College Dublin University Of Galway	€6.8M

Health & Wellbeing

Project	Partners	Value of Funding
DUO XL: A preclinically validated solution to enable treatment of >90% of patients with tricuspid regurgitation.	Croivalve Ltd Blueacre Technology Ltd University College Dublin	€5.9M

Health & Wellbeing

Project	Partners	Value of Funding
RISOLVE: A digital therapeutic platform for the diagnosis and treatment of overactive bladder.	Amara Therapeutics Ltd Tekenable Ltd University Of Galway	€1.5M



Health & Wellbeing

Project	Partners	Value of Funding
EncOVac: An orally self-administered vaccine technology delivered to intestinal mucosa to better protect against pathogens.	Poolbeg Pharma (Ireland) Ltd Anabio Technologies UnLtd Company Trinity College Dublin University College Dublin	€2.3M

Health & Wellbeing

Project	Partners	Value of Funding
HealAsyst: A system that will capture multifaceted data to enable data-driven improvements to products and protocols associated with measuring and monitoring compression therapy and wound care.	Feeltect Ltd Armour Interactive Ltd Odyssey Validation Consultants Ltd University Of Galway	€4.6M

Health & Wellbeing

Project	Partners	Value of Funding
DB Stent: A stent that eliminates the need for pre-stent procedures and mitigates risks associated with conventional stent procedures.	Ceroflo Ltd Advant Medical Ltd Atlantic Technological University	€3.5M



Health & Wellbeing

Project	Partners	Value of Funding
VascuSense: A non-invasive device that will treat patients with chronic total occlusion, or complete blockages of coronary arteries, leading to critical limb ischemia.	Versono Medical Ltd Integer Ireland Medical Ltd University Of Galway Technology University Dublin	€7.0M

Health & Wellbeing

Project	Partners	Value of Funding
BioVas: A mechanical biomimicry ablation catheter device that will safely and effectively perform microsurgical interventions within the vein wall at a micron-level precision.	Venari Medical - Invera Medical Ltd Innovative Catheter Solutions Ltd Atlantic Technological University University Of Galway	€4.6M

Health & Wellbeing

Project	Partners	Value of Funding
LILAC-IntelliSense: A software system that aims at improving treatment outcomes while reducing long-term side effects of chemotherapy induced peripheral neuropathy (CIPN).	Luminate Medical Ltd Gentian Consultancy Services Ltd University Of Galway Trinity College Dublin	€4.4M



Health & Wellbeing

Project	Partners	Value of Funding
Thorax: An AI-driven patient monitoring platform, combined with a diagnostic test capable of identifying patients at high risk of progression of acute diseases (sepsis/pneumonia).	Novus Diagnostics Ltd Dolmen Design and Innovation Ltd University College Dublin Royal College of Surgeons Ireland	€3.3M

Health & Wellbeing

Project	Partners	Value of Funding
Project Athena: A treatment for chronic migraines.	Capri Medical Ltd O'Neill Amarach Consultants Ltd Dublin City University	€7.5M

Health & Wellbeing

Project	Partners	Value of Funding
A novel treatment of benign prostate hyperplasia using a novel reversible liquid embolic.	Cranmed Ltd Synecco Contact Manufacturing Ltd University of Galway	€3.5M

Health & Wellbeing

Project	Partners	Value of Funding
A wireless digital stent to monitor structural and functional properties of endovascular abdominal aortic repair.	Éirecomposites Teoranta Micro Focus Galway Ltd University of Galway	€4.0M



Health & Wellbeing

Project	Partners	Value of Funding
<p>PRETA: A novel robotic-enabled microwave ablation catheter with integrated position sensing and ablation imaging technology to provide a new minimally invasive and targeted treatment for metastatic lung cancer.</p>	<p>Endowave Ltd Quadrant Scientific Ltd Gentian Health Ltd Atlantic Technological University</p>	<p>€5.4M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>A novel needle tract sealant system for prevention of haemorrhage related to kidney and liver biopsy.</p>	<p>Déantúsaíocht Sláinte Hitech Teoranta Odyssey Validation Consultants Ltd University of Galway</p>	<p>€6.6M</p>

Health & Wellbeing

Project	Partners	Value of Funding
<p>A mobile cardiac telemetry system aimed at increasing detection rates of the most common stroke-causing heart problem, silent atrial fibrillation.</p>	<p>Galenband Ltd PA Consulting (Design Partners) Ltd University Of Galway</p>	<p>€6.9M</p>



Food		
Project	Partners	Value of Funding
<p>Optimised commercial-scale cultivation of protein-rich biomass from palmaria palmata for the generation of health enhancing plant based proteinaceous ingredients.</p>	<p>Allihies Seafood Carbery University of Limerick</p>	<p>€1.8M</p>
Food		
Project	Partners	Value of Funding
<p>Beyond Food Labelling: A technology that will allow for all animals within discrete supply chains or national herds to be uniquely profiled.</p>	<p>IdentiGEN University College Dublin</p>	<p>€1.3M</p>
Food		
Project	Partners	Value of Funding
<p>HYDRO-fish: Combining targeted nutraceuticals and traceability technology for a smarter and sustainable Irish fish aquaculture industry.</p>	<p>University of Galway Bio-Marine Ingredients Ireland Teagasc Marine Institute</p>	<p>€1.5M</p>
Food		
Project	Partners	Value of Funding
<p>PERCEPTION: A software platform to predict human sensory quality attributes of food products for great taste, health benefits and minimal waste.</p>	<p>Dawn Farm Foods Ltd Creme Software Ltd University College Dublin</p>	<p>€1.9M</p>



Innovation in Business Services

Project	Partners	Value of Funding
<p>BESTS (Blockchain and AI-Enabled Stratified Trial System): A highly secure blockchain-enabled, trustworthy and GDPR compliant medical platform.</p>	<p>Royal College of Surgeons Ireland Ergoservices Ltd. Microsoft Ireland Operations Ltd Singularity Alpha Ltd.</p>	<p>€4.0M</p>

Innovation in Business Services

Project	Partners	Value of Funding
<p>A-EYE: A construction visualisation platform for passive data capture and real-time delivery of mission-critical information allowing for full visibility of large construction sites.</p>	<p>Evercam Ltd GagaMuller Technology Ltd Technology University Dublin</p>	<p>€2.1M</p>



Manufacturing & Materials

Project	Partners	Value of Funding
<p>DEFINE-AM: An intelligent controlled jet electrochemical machine tool with integrated sensors for geometry and surface finish quantification and multi-axis motion.</p>	<p>Blueacre Technology Ltd Trinity College Dublin</p>	<p>€953.9K</p>

Manufacturing & Materials

Project	Partners	Value of Funding
<p>E-BAMBI: Enhanced biocompatibility of additively manufactured biomedical implants for improved clinical outcomes.</p>	<p>Southeast Technological University Schivo Medical Graph Treatments Ltd T/A Graph Engineering Stryker Technology University Dublin</p>	<p>€2.0M</p>

Manufacturing & Materials

Project	Partners	Value of Funding
<p>Tapestry: A disruptive manufacturing technology for the micro-assembly of advanced electronic and photonic components leading to sophisticated and compact subsystems for use in sensing and communication applications.</p>	<p>Tyndall National Institute X Celeprint Ltd Rockley Photonics Ireland Ltd Analog Devices International Unlimited Company</p>	<p>€3.6M</p>



Manufacturing & Materials

Project	Partners	Value of Funding
CELLIMAGE: A key bioanalytical technology to drive automated, small-scale cell therapy manufacturing within clinics.	Valitacell Ltd Intel Research and Development Ireland Ltd University of Galway	€1.7M

Manufacturing & Materials

Project	Partners	Value of Funding
NanoTherm: A disruptive technology that increases the effectiveness of heating and cooling systems by up to 40% in commerce and industry.	Ht Materials Science Ltd Nexalus Ltd Trinity College Dublin	€2.9M

Manufacturing & Materials

Project	Partners	Value of Funding
MIDRONE: A low-cost, high-performance drone delivery service enabled by advanced materials and manufacturing processes.	Éirecomposites Teoranta Manna Drones Ltd University of Galway	€2.4M



Manufacturing & Materials

Project	Partners	Value of Funding
<p>SAFETYBOT: Artificial Intelligence-enabled safety solutions to service the Factory of the Future, enabling immersive collaboration between human workers, robots and automation equipment.</p>	<p>Analog Devices International Unlimited Company Emdalo Technologies Ltd Modular Automation Ireland Ltd Tyndall National Institute</p>	<p>€2.9M</p>

Manufacturing & Materials

Project	Partners	Value of Funding
<p>SPRINT: A novel solution for intelligent cutting tools based on wireless passive strain measurement using surface acoustic sensors together with domain diagnostics and adaptivity.</p>	<p>iSentiolabs Croom Precision Medical Depuy Synthes Schuf Valve Technology Trinity College Dublin Irish Manufacturing Research</p>	<p>€1.6M</p>

Manufacturing & Materials

Project	Partners	Value of Funding
<p>FreeForm-OPTIX: A novel process chain within two pilot lines for high specification mirrors intended to disrupt the mirror manufacturing sector.</p>	<p>mBryonics Ltd Éirecomposites Teoranta University of Galway Irish Manufacturing Research</p>	<p>€4.1M</p>



Manufacturing & Materials

Project	Partners	Value of Funding
Ad-Astra: A novel surface treatment called controlled polymer ablation allowing prepared surfaces to withstand significantly higher forces.	Éirecomposites Teoranta Plasmabound Technology University Dublin	€2.5M

Manufacturing & Materials

Project	Partners	Value of Funding
NATIVE: The world's first commercially available, validated additive manufacturing process for nitinol alloys, which is suitable for the medical industry, communications, aerospace, automotive and other high value industry sectors.	Addaptiv Design & Manufacturing Ltd Boston Scientific Ltd Taoglas Ltd Irish Manufacturing Research University College Dublin	€1.7M

Manufacturing & Materials

Project	Partners	Value of Funding
BioBridge: Make biopharmaceutical manufacturing vastly more efficient by building new laboratory methods and computer models to design better manufacturing processes, removing a slow and expensive design step, thereby making drug manufacturing faster and cheaper.	Valitacell Ltd Data Chemist Ltd T/A Terminus Db University of Limerick Digital Manufacturing Ireland (DMI) CLG	€3.2M



Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
<p>CENTS (Co-operative Energy Trading Systems): A cooperative peer to peer (P2P) energy trading technology that can co-exist with and complement the current electricity market structure.</p>	<p>Tyndall National Institute Smart M Power Company Ltd Msemicon Teoranta Templederry Renewable Energy Supply University College Cork University of Galway Technology University Dublin</p>	<p>€2.9M</p>

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
<p>Advanced Environmental Decision Support System: To establish a large market segment of the coastal sector within and outside Ireland for robust reliable marine data.</p>	<p>Techworks Marine Dublin City University</p>	<p>€1.1M</p>

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
<p>Nextgen Heat: A next generation heat pump for affordable decarbonisation of heating</p>	<p>Exergyn Ltd Dublin City University Fort Wayne Metals Ireland Ltd</p>	<p>€2.4M</p>



Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
S-BREW (Sustainable Bio-Renewable Energy from Wastewater): A truly disruptive and compelling offering for the food & drink wastewater sector that will reduce land-spread waste and produce high-quality renewable energy.	NVP Energy Ltd Ashleigh Farms (Environmental) Ltd University Of Galway	€1.8M

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
E-Crop: Tools to monitor soil and crop health, thereby improving crop productivity with reduced chemical inputs.	University College Dublin E-Seed Crop Technology Solutions Ltd Seqbiome Ltd Lan Ctr (Lárionad Acmhainní Nádúrtha Ctr)	€1.5M

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
TRIDENT: A low-cost, high-performance Na-ion smart battery system using entirely sustainable materials and processes.	University Of Limerick Analog Devices International Unlimited Company Msemicon Teoranta Icergi Ltd Glantreo Ltd Tisalabs Ltd Smart M Power Company Ltd Tyndall National Institute	€3.6M



Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
PerPETual: A high through-put PET depolymerisation and regeneration process that deals with PET, spanning pristine bottle grade to food and industrial tubs and trays.	Technological University of the Shannon: Midlands Avoncourt Packaging Ltd Novel Plast Teoranta University College Cork	€1.9M

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
MICROPILE: A prototype robotic drilling system and anchor template for the installation of micro piled anchor foundations that will be load tested to prove suitability for a wide range of applications including offshore wind	Mincon Group Plc Subsea Micropiles Ltd University College Dublin University of Limerick	€2.9M

Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
Xbat+: Identifying the potential hazard and risks associated with the Waste Electrical and Electronic Equipment (WEEE) recycling sector.	University Of Limerick Peregrine Technologies (Holdings) Ltd Somex Automation Teoranta Helgen Technologies Ltd.	€3.6M



Energy, Climate Action & Sustainability

Project	Partners	Value of Funding
<p>Solascope: The world's first sterile, sustainable, panoramic endoscope – designed for and enabling the circular economy for medical devices.</p>	<p>Tympany Medical Ltd Invermed Teoranta Royal College of Surgeons Ireland National College of Art and Design</p>	<p>€6.9M</p>