Innovate UK

Results of Competition: Global Cooperation Feasibility Studies
Competition Code: 1608_FS_InFS

Total available funding for this competition is up to £2.2M

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Sense Biodetection Ltd	A UK - India Collaboration to Drive Innovation in Cervial Cancer Screening	£29,841	£20,889
Project description - provided by applicants			
Cervical cancer is the leading cause of cancer death in Indian women between the ages of 30 and 69. Onlyaround 3.1% of women undergo screening tests in India versus 77.5% in the UK, a discrepancy meaning that theage standardised mortality rate from this disease is almost 7 times higher in India. This project aims to conductmarket research and further establish a relationship between the UK lead organisation Sense BiodetectionLimited and Indian diagnostics company Bhat Bio-Tech alongside clinical experts at SDM Medical CollegeHospital. Our long-term aim is to collaboratively develop and market a novel cervical cancer screening productin the form of a low cost, single-use molecular test for detection of infection by High Risk Human PapillomaVirus (hrHPV) which is directly linked with 99.7% of cervical cancer cases. In contrast to existing approaches,our test would eliminate the need for centralised testing facilities and infrastructure and so overcome barriersto adoption in the Indian market. Through initially focussing on the Indian market, we will develop a low-costsolution that also has wider potential to alleviate the costly burden of cervical screening within the NHS.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Zenotech Ltd	Winds of change	£30,000	£21,000
Project description - provided by applicants			
The new Taiwanese government has made renewable wind energy a top priority, with significant centralinvestment planned over the next 15 years. A number of Taiwanese technology and engineeringconsultancy companies are providing support leveraging experience in maritime and metalmanufacturing. There is an opportunity for UK-based companies to become part of this supply chain viajoint ventures and strategic partnering. Following an invited trade mission to Taiwan in June 2016,Zenotech has found a niche opportunity for the provision of turbine aerodynamic modelling, expertise inhigh performance computing and cloud data security via the local suppliers. This exercises recentlydeveloped technology supported by Innovate UK. DIT (Taiwan) are able to provide assistance for amanaged introduction, including time for joint work on a digital service offering for the design of verylarge arrays of offshore turbines.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Commercial Space Technologies Ltd	Importing a Small Chinese Launcher to Operate from the UK	£29,800	£20,860
Project description - provided by applicants			
Innovate UK will support Commercial Space Technologies Ltd. (CST) in opening negotiations with the Chinesecompany LandSpace for the importation and UK operation of their small-satellite launch vehicle LS-1, which isin the final stages of development.CST has brokered launches for over 25 years to help small-satellite companies, both UK based andinternational, gain access to space. This market is now growing and demanding dedicated launch services. Anew global space race has thus begun for the first cost-effective, commercially-operating small launcher.By modifying the LS-1 with help from domestic technology firms, CST is aiming for a tailored, fast-turnaroundsolution to jump the UK ahead of the competition and gain first access to this newly emerging market.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Optellum Ltd	US Market study: Early Lung Cancer Diagnosis using Artificial Intelligence and Big Data	£30,000	£21,000
Project description - provided by applicants			
Optellum's vision is to enable earlier and more confident cancer diagnosis and treatment by using ArtificialIntelligence (AI) and Deep Learning to unlock new insights in huge image databases. Our first product that willtarget early detection of lung cancer, the World's most common and lethal cancer.The US market holds the biggest potential due to established reimbursement for lung-cancer screening.However, it presents special challenges, due to 1) Complex FDA regulatory regime 2) High data variability,combined with legal hurdles for accessing patient data for algorithm training 3) Different customer needs.This project will enable us to establish partnerships with US hospitals that will help us accelerate US marketentry by 1) Developing FDA regulatory strategy 2) Creating a roadmap for the training and validation of ouralgorithms on US patient datasets 3) Developing product specifications that fulfil US customer needs.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Powervault Ltd	Second Life Batteries for Domestic Electricity Storage - International Feasibility Study	£29,850	£20,895
Project description - provided by applicants			
Powervault are a UK leader in cost-effective distributed electricity storage, helping residents maximise theirusage of onsite renewable energy, reducing their electricity bills and alleviating strains on the local distributionnetwork. Since inception in 2012 they have sold >250 of their core product, secured partnerships with nationaldistributors and gained recognition from a range of organisations; Nesta, Innovate UK, Climate KIC.Powervault seeks to undertake a 3 month feasibility study evaluating the potential for its innovative SecondLife Batteries ("SLB") concept in target international markets. PV proposes a complimentary package ofactivities designed to more clearly ascertain the opportunity available. Proposed study activities will provide avaluable information base from which to inform export strategy and guide development of an internationalsupply chain.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Taylor Garfit Ltd	One-Joint: Improving Shelter Construction in Disaster Relief	£29,254	£20,478
Project description - provided by applicants			
In the aftermath of a disaster, major humanitarian aid agencies provide 'Shelter Kits' comprisingtarpaulins and a basic tool kit to enable beneficiaries to construct emergency shelter. Recipients arerequired to create a frame to support the tarpaulins using locally available materials such as bamboo ortimber. However a significant problem arises in forming robust and stable joints for such frames, whichaffects both the speed of construction and the durability of the shelters. Joints are typically formed usinglashings of rope or wire. Taylor Garfit Ltd has designed a small, lightweight and cost-effective joint systemcalled 'One-Joint,' that will be incorporated into shelter kits, to provide a jointing solution that is quickerand easier to use and will also result in more robust and long-lasting shelters. The joint will not only be ofuse in the construction of emergency shelters, but can be up-cycled for use in the construction oftransitional and permanent dwellings in the post-disaster recovery and reconstruction phases.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
bio-bean Ltd	Feasibility study for an Advanced Biorefinery for the recycling of waste coffee grounds	£28,820	£20,174
Project description - provided by applicants			
BB is the first company in the world to have industrialised the process of recycling waste coffee grounds intoadvanced biofuels. BB's pioneering business model and innovative technology have attracted widespreadattention in the energy, recycling and coffee industries as well as the mainstream media both nationally andinternationally.This is BB's first international project and will focus on the potential to build advanced biorefineries for instantcoffee factories around Europe.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Repositive Ltd	Repositive Limited: International Development Programme To Increase The Impact Our Online Platform For Querying And Access To Molecular Data On Patient Derived Xenograft Models	£29,968	£20,978

Project description - provided by applicants

Patient derived xenograft (PDX) models are powerful tools used by scientists studying cancer and indiscovery of new cancer treatments. Each one is grown from a sample of a cancerous tumour donated by acancer sufferer: so they are precious, valuable and useful. But scientists find it hard to find suitable onesfor their work and so many spend a lot of time testing them, just to collect the same basic information overand over again. Repositive is creating an online platform for scientists to find PDX models and data tomake sure that they are the best ones for their work. This project, costing £29,968 and lasting 3 months,funds us build the platform with the help of PDX model providers and pharmaceutical companies who usethem often, and who will give us feedback on our concepts and designs. It will save 3 months ofdevelopment time and will enable us to make sure that they find the platform valuable and use it when itis completed. In future it will help companies to save up to 6 months in drug discovery time, so that newtreatments can be identified and brought to market more quickly and at lower cost than now.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ANB Sensors Ltd	Developing an International Collaboration Network for An autonomous self-calibrating pH sensor (pHIMS), with on-board QA/QC, for ocean and water quality monitoring from ANB Sensors Ltd	£18,973	£13,281
Project description - provided by applicants			
ANB Sensors Ltd. have identified a disruptive technology enabling the accurate and autonomousmeasurement of real-time pH without the need for frequent calibration. The measurement of acidity (pH)is an important indicator particularly in environmental monitoring (e.g. ocean acidification measurement,aquifer water quality, legacy industry sites), and the assessment of drinking and waste water quality. Oursolution reveals new opportunities and offers cost reductions and quality assurance improvements.Existing water sensors have been found not to meet the requirements for remote water monitoring,importantly they are unable to cope with low-salt, and low-buffered water. ANB's solution is the nextgeneration pH sensor capable of accurate and calibration free pH measurement in a wide variety oflocations and with many industrial applications.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Seawater Greenhouse Ltd	Developing Opportunities for Seawater Greenhouse in South Africa	£29,520	£20,720
Project description - provided by applicants			
The study will assess the potential for application of the Seawater Greenhouse process along the aridcoasline of South Africa and Namibia. Using climate data from the region, we will model how the approachwill perform, cooling and humidifying the climate and generating a new source of fresh water forirrigation. Agriculture in the region is currently marginal and risky, as evaporation exceeds precipitationseveral-fold.Successful implementation will result from teamwork, combining academic, commercial and polititicalinterests locally, to establish an entity with the required skills, support, know-how and resources todevelop and implement a successful project that leads to commercial scale-up. Many of these have alreadybeen identified, but so too have gaps, and these we will seek to fill.We will also investigate established frameworks for cross cutting research, development andimplementation, such as the Newton and Agri-tech Catalyst programs.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Matt Burns Ltd	Integrating CameraForensics with Law Enforcement Workflow	£29,838	£20,886
Project description - provided by applicants			
CameraForensics have developed tools to assist law enforcement agencies with victim indentificationinvestigations in online child sexual exploitation cases. This feasibility aims to identify and work withinternational collaborators and stakeholders in the industry to find innovative ways in which the technologycan be used within existing law enforcement software tools and processes.			

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Commercial Space Technologies Ltd	Satellite Prospecting for Water in Africa	£29,440	£20,600
Project description - provided by applicants			
Commercial Space Technologies Prospecting (CSTP) has developed methods of analysing satellite-derivedimagery of the Earth to assist traditional prospecting companies in locating resources such as oil, gas andminerals. CSTP plans to transfer these previously established techniques to search for ground water and assistcommunities in Africa suffering from drought. To test this application and develop a full service that finds (andsubsequently delivers) clean water, CSTP will need to collaborate with local prospecting and irrigationcompanies, and ally with certain state organisations.CSTP has identified South Africa as the best country to test these methods as it has responsive governmentdepartments, appropriately advanced industrial collaborators and the finances to incubate novel technologies.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Tookie Ltd	The Tookie Vest: an oncology medical device providing security and comfort for central venous catheter (CVCs	£21,020	£14,714
Project description - provided by applicants			
Central Vein Catheters (CVCs) are used to treat people with cancer to administer medication, fluids and bloodproducts; nearly 75% of children with cancer receive a tunnelled CVC. Tookie Ltd aim to test and promote the'Tookie Vest' for paediatric oncology in the USA as a wearable support garment for CVCs to improve patientwell-being and minimise CVC complications especially line migration, pull out and infection. Currently CVC linesare either left lose or taped to the skin that cause unnecessary discomfort and raised anxiety of patients andparents. The resulting need to protect the CVC lines often leads to reduced normality of movement andactivity. We wish to establish workshops in the USA involving clinical staff, patients and care-givers to assessthe size of the CVC migration challenge and fit-for-purpose of Tookie Vest in the US hospital and home setting.Tookie Ltd are committed to producing a range of CVC vest technologies to support 'a life more normal' in theUK, USA and, ultimately, globally.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Thermoelectric Conversion Systems Ltd	International partnerships to accelerate the growth of the thermoelectric market	£23,978	£16,784
Project description - provided by applicants			
The unexploited waste heat from industrial and conbustion processes that could be partially recoveredand converted into electricity is measured in hundreds of millions of MWh/year. Thermoelectricgenerators (TEGs) are 'fuel-free' solid-state semiconductor devices with no moving parts and thereforeare extremely reliable. The TEGs can be used to convert thermal energy from ducts, chimneys, exhaustsetc. which otherwise is wasted by generating an electric current when subjected to a temperaturegradient. Thermoelectric Conversion Systems Ltd is the only company in the EU that specialises in thedesign and manufacture of power converters and control algorithms for use with TEGs. It is a completelyUK-based high-tech SME and the project aims to accelerate the widespread adoption of a recent improve-ment (patented by the company) in the way energy is extracted from a TEG that yields up to 9% morepower from the same device. To do this we plan to visit the major TEG manufacturers in Asia, USA and EUto demonstrate the benefits of this innovative idea, so accelerating exploitation and company growth.			

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Trusted Renewables Ltd	Harvesting sunshine with cryptocurrencies	£29,975	£20,982
Project description - provided by applicants			
SME Trusted Renewables Ltd (TRL) undertakes R&D on Internet of Things (IoT) applied to smart energy andrenewables with specific interest in using cryptocurrencies and blockchains for payments. This 3 month projectincludes presenting our ideas at the World Renewable Energy Congress XVI in Perth, Australia in February 2017and as per the competition scope, we will meet potential collaborators in Singapore, India and Australia to helpaccess worldwide renewable energy markets and help TRL grow non-EU markets and exploit IPRs.Global markets are growing fast. By 2020 there will be > 2bn solar panels worldwide and Gartner says £300 bnextra worldwide revenues will come from IoT products and services; 26bn smart devices will contain $1processorsand built-in M2M connectivity. TRL has patented the idea of putting a smart card chip into a solarpanel as a metering module. This patent is granted or pending in >40 countries including UK, Australia, S Africa,India, USA, Japan and EU and we seek licencing and/or exploitation partners in all of the places.			

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Trade Interchange Ltd	Trade Interchange Ltd USA Market Feasibility Study	£29,374	£20,562
Project description - provided by applicants			
Trade Interchange Ltd (TI) is a UK software organisation which delivers cloud-based Supplier Managementsolutions that help Enterprise clients address the challenges of managing a large and/or complex supplier base.TI's solutions have been implemented successfully across a number of sectors but in recent years a strategicfocus has been placed on the UK Food Service and Hospitality (FS&H) sector. TI have identified an extensivemarket opportunity for the ARCUS® platform within the US Food Service and Hospitality market and thepotential for subsequent expansion into other adjacent vertical market. TI must first identify potentialintemediaries, resellers, solutions partners and prospective customers and subsquently enhance their softwareto deliver a uniquely tuned solution for the US FS&H market. The feasibility study will include an exploration ofsector-specific cataloguing requirements (e.g. recipe, nutrition, ingredients) and API development/3rd partyintegrations with ERP and P2P vendors.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Collar and TIE Ltd	Prospero: Testing and Evaluating Online Faciltation and Tutorial Tools in Higher Education	£18,645	£13,000
Project description - provided by applicants			
This project allowed for the testing of the feasability of using Collar and TIE Ltd's Prospero technology ininternational markets. Prospero is a browser extension, built for Google Chrome. When installed,Prospero preloads remotely created content and functionality that digitally distributes interactivelearning experiences in the classroom. It allows for the creation of lessons, workshops or lectures usingwebsite materials structured as sequences of learning activities overlaid with media rich tutorials givingguidance and support. The feasibility study will allow Collar and TIE to test Prospero in a number ofinternational higher education markets to evaluate its relevance and effectiveness in delivering onlinedistance learning. International markets to be targeted will be the USA, Australia, New Zealand and Irelandas well as here in the UK.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Q-Bot Ltd	UK Robots take on the world	£30,000	£21,000
Project description - provided by applicants			
Exploration of US and French under-floor insulation markets involving the following:1. Developing relationships with contractors & distributors (including exhibiting at relevant trade shows);2. Adapting the technology to and the business proposition to suit the relevant market (as not only theaccepted insulation materials and typology of the housing stock differ but also the predominantcommercial structure and contractual arrangements);3. Providing first-hand experience of the technology - including live demonstrators and/or a trial;Both the US and French markets for under-floor insulation are larger than the UK's and both havepotentially stronger drivers - legislative pull in France and small contractor push in the US. This feasibilitystudy will allow us to explore these markets and to develop international relationships necessary toaddress them.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Advanced EPI Materials and Devices Ltd	Building global cooperation for UK grown silicon carbide epi wafers	£29,990	£20,993
Project description - provided by applicants			
The UK has invested nearly £200M in research related to semiconductors. Some of that funding led to thedevelopment of a new, low temperature process for growing crystalline silicon carbide on silicon at theUniversity of Warwick. Silicon, upon which much of communications and control systems depend, haslimitations; silicon carbide and similar materials provide a chance for new technological breakthroughs.Advanced Epi Materials and Devices Ltd is an exciting, recently launched spin-out, which willcommercialise some crucial innovations. This project will allow the new company to 'fly the flag' for theUK and present the innovative new process and wafer materials to semiconductor businesses in the AsianPacific and European regions. It will also facilitate a better understanding of specific materialspecifications such that the new process can be tailored more precisely. This project is just the beginning.Advanced Epi aims to become one of the UK's leading companies to support rapid growth in compoundsemiconductors, part of a sector recognised across the World for innovation and expertise.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Kiln Flame Systems Ltd	Development of a Novel Integrated Enriched Oxygen Low-NOx Burner for Cement Industry	£29,815	£20,871
Project description - provided by applicants			
Oxygen enrichment is a combustion technology which has been widely adopted in the Chinese cementindustry to increase production and burn low grade coals and biomass. Current injection method oftenleads to great wastage of the oxygen injected and results in high flame temperature which has thedetrimental effect of increase in NOx emissions to the environment.KFS proposes to develop a novel integrated burner which would enables O2 to be injected intelligently towhere it would not only increase the efficiency but also significantly reduce emissions.The proposed project would help KFS and ultimately UK plc to be at the forefront of enriched oxygencombustion technology for rotary kiln applications and potentially open the door for the huge Chinesecement burner market for UK export. .			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Swarm Systems Ltd	Export Opportunities for Nano Unmanned Air Systems	£25,384	£17,768
Project description - provided by applicants			
Nano Unmanned Air Systems (UAS) are becoming useful tools. A small Air Vehicle is launched by a user whosees real-time video from on-board cameras on a Ground Control Station. The system offers 'Flying Binoculars'capability, allowing a user to monitor an area of interest from the air, out of sight and out of danger.Several countries are looking to procure Nano UAS over the next three years. Swarm Systems is well positionedto take advantage of these export opportunities. To maximise chances of a contract win, Swarm Systems plansto enter into partnering arrangements with companies in each territory. During this project, Swarm Systemswill visit potential partners in two territories that are running Nano UAS procurement processes. They willdiscuss teaming arrangements and conduct due diligence activities. They will also visit the Procurement Teamsin each of these territories. Partnering with local companies increases the international engagement of a UKSME with an innovative product offering. It is the first step in winning an export contract that will transform aBritish SME into a global player in the Nano UAS market expected to be worth ~$200m over the next 5 years.			

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Sustainable Pipeline Systems Ltd	Global Co-operation for Advanced Automated Mobile Pipeline Technology	£29,800	£20,860
Project description - provided by applicants			
Sustainable Pipeline Systems Ltd is developing advanced technology which will allow onshore pipelinesto be manufactured and installed with automated mobile machines, replacing the need to pre-fabricateshort pipe sections in a factory, transport them to pipe dumps and then manually weld them together on-site. Accreditation and testing are under way in the UK but in order to access the fast growing market fornew pipelines in the Middle East and North Africa, a local demonstration centre is needed. This projectwill conduct and report on a feasibility study to develop a local demonstration centre with localinvestment and implementation partners. It aims to develop a global group of pipeline operators who willact as critical friends to this new technology which offers major change to the way pipelines areconstructed, with the potential to halve the cost and the environmental impact			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Nottingham Scientific Ltd	Exploring Partnerships with Asian GNSS Receiver Manufacturers	£29,353	£20,547
Project description - provided by applicants			
The project shall explore the potential to develop new partnerships with international players in the areaof Global Navigation Satellite Systems (GNSS). The project will investigate the opportunities that exist andthe methods of achieving technology transfer and IP licensing of key components to Asian GNSS receivermanufacturers as a means to accelerate their product development cycles and respond to the emergingrequirements of drone and autonomous vehicles markets. In doing so, the project will generate newopportunities for NSL to supply further IP into next generation GNSS chipsets and receiver modules.			

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Innovate UK

Results of Competition: Global Cooperation Feasibility Studies
Competition Code: 1608_FS_InFS

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Filisia Interfaces Ltd	Cosmo - Cooperation Feasibility Study	£29,590	£20,713
Project description - provided by applicants			
Filisia addresses the training, rehabilitation and access requirements of people with additional needsthrough creative and connected technology. Our potential users are people with medium to severe casesof musculoskeletal, neurological and cognitive disabilitiesOur first product, Cosmo, enables users' creativity and engagement through rehabilitation games andmusic making. It consists of modular, sensor based controllers and of a software platform with severaltherapy modules. Each module can be seen as a training programme which helps to improve a specificcognitive or motor deficit.The proposed project seeks to evaluate potential partners who could accelerate Cosmo's entry into keytarget markets.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
New Food Innovation Ltd	Latin American Technology transaltion Food waste valorisation technologies and product application	£22,160	£15,512
Project description - provided by applicants			
New Food Innovation Ltd , an SME with food ingredient and waste valorisation technology and know howis working with Granotec (Chile), a leading South American provider of food ingredients , nutritionalpremixes and process technology to assess the feasibility of establishing a strategic alliance and route totransfer technology in waste valoriation and production of high value ingredients from co streams intothe South American food and beverage sector and build a food and beverage technology innovationnetwork between UK and South America industry and academia.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Andy Waddington Hydrographic Consultants Ltd	Using LiDAR for monitoring in aquaculture and marine ecosystems	£22,800	£15,960
Project description - provided by applicants			
LiDAR has become a powerful and effective tool for mapping and measuring our human and naturalecosystems on land. This study will look at the feasibility of applying LiDAR technology in water to enable theefficient monitoring and mapping of marine ecosystems and aquaculture so that their impact and the impact ofother maritime applications upon them can be assessed, measured and monitored.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Medibord Ltd	Global opportunities in image guided robotic surgery	£29,400	£20,580
Project description - provided by applicants			
Cancer Research UK has revealed that in the UK alone in 2013 there were in excess of 330,000 cancerdiagnoses. X-ray CT, MRI and Linac systems are widely used in cancer radiotherapy planning andtreatment. Medibord Ltd produces patented radiotherapy positioning products which are used byhealthcare professionals worldwide to accurately and reproducibly locate and treat a patient's cancerouscells which is critical for effective treatment. Based on technical and market research Medibord hasidentified a potentially significant product enhancement which could further enhance the long termoutcomes for patients through the use of robotic surgery.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Global Plant Genetics Ltd	Feasibility study to maximise the value of our berry and asparagus Intellectual Property (IP) portfolio internationally.	£27,460	£19,222
Project description - provided by applicants			
Global Plant Genetics has been succesful in gaining a grant from Innovate UK. It will enable them to carryout commercial research feasibility studies and meet potential partners for their Intellectual Propertyportfolio of berries and asparagus internationally. The grant funding will enable them to research themarket requirements in more detail in each country as well as gain a better undertsanding of localgrowing conditions and cultures. This would not be achievable without international travel, spending timewith growers and shippers, as well as personally understanding the localised requirements. The cost ofthis travel and time would have been prohibitive to our company, but this grant will allow us to fast trackthe developments within our business and also identify other commercial opportunities for futurecollaboration.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Keracol Ltd	Enzymatic acylation of anthocyanins extracted from food waste for advantageous, high-value industrial application in cosmetics and food (AnthoLip)	£15,809	£11,066
Project description - provided by applicants			
Keracol is a highly innovative small company developing natural chemical technologies. This project is acollaborative feasibility study with The University of Porto (UoP) to develop international cooperationand initiate novel approaches to produce more stable and oil-soluble natural colorants for food andcosmetic applications. Keracol extracts natural pigments from food waste (berry skins), we aim to use theexpertise of UoP to develop new methods for step-change applications. This is a challenging project due tothe complex chemistry of natural colorants. More stable anthocyanins able to be incorporated into oil-based media are needed and novel methods developed by UoP could prove the most effective strategy toachieve this. Food and cosmetic colorants are multi-billion dollar industries, and applications representsignificant value. Few researchers are working on this type of chemistry globally, and an opportunity todevelop this area with UoP would be step-changing for Keracol.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
GeneFirst Ltd	Application of improved Next Generation Sequencing technology to identfy somatic mutations in circulating cell-free tumour DNA in blood.	£30,000	£21,000
Project description - provided by applicants			
Gene mutations have been validated as powerful predictive biomarkers in the management of variouscancers; testing for these mutations is currently standard to personalise treatment decisions. It has beenwell documented that a broad spectrum of cancers release circulating cell-free tumour DNA (ctDNA) intoperipheral blood. There has been growing interest in use of ctDNA as a non-invasive biomarker to detectthe presence of malignancy, gauge prognosis, follow treatment response or monitor for recurrence. NextGeneration Sequencing (NGS) has revolutionised genomic exploration and is driving the implementationof precision diagnostics. However, the sensitivity and accuracy of current NGS methods are limited whichis a fundamental limitation particularly when aiming to identify rare mutants in heterogeneous mixtures,such as plasma ctDNA. To overcome these limitations, GeneFirst has developed an improved NGStechnology with increased sensitivity and accuracy for the detection of multiple mutations; this makes itsuitable for detecting ultra-rare cancer gene mutations in circulating cell-free tumour DNA in blood.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Camtronics Ltd	Exploring market potentials and global collaboration opportunities for a disruptive silicon carbide converter technology, SiCtronic, for offshore wind	£29,484	£20,639
Project description - provided by applicants			
This project will be a stepping-stone in the exploitation of a potentially disruptive Silicon Carbide (SiC) power-electronics converter technology for offshore wind applications through conducting a thorough market analysisand identifying potential partners and customers. Camtronics have developed a compact ultra-efficient low-costSiC converter technology, SiCtronic that can reduce the levelised cost of energy (LCOE) for offshore wind by 4.6to 9.8%. SiCtronic can operate at substantially higher voltages and switching frequencies, making wind turbineconverters exceptionally lighter and more compact and efficient. The technology can also find applications inphotovoltaics and electric vehicles (EVs).			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
2DHeat Ltd	Manufacturing co-operation feasibility of novel 'Far IR' heater panels in Slovenia	£30,000	£21,000
Project description - provided by applicants			
2DHeat Limited seeks to evaluate the feasibility of establishing a collaborative consortium for theproduction & sale of a new generation of energy efficient far infra-red panel heaters in Slovenia. The rangeof products offered will use 2DHeat's patented thick-film heater technology and will target the domestic,commercial & industrial sectors. The panels will be designed to operate at higher temperatures thancurrently available panels. Potential collaborative partners include Gorenje DD (Velejne), Ekosen DOO(Maribor) and EMO Frite DOO (Celje). The feasibility study is expected to complete in early 2017 andcollaboration work would be expected to commence shortly afterwards.		

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Goodmark Medical (International) Ltd T/A Relaymed	Integrated Digital Healthcare Diagnostic Network	£29,800	£20,860
Project description - provided by applicants			
Relaymed is looking to explore the technical and commerical potential of collaborations in the UShealthcare network to significantly expand its product and operations.This feasibility study proposal centres around the establishment of a key collaboration with a majorpartner in order to leverage each others core competencies for mutual long term benefit.To undertake this study, we will be travelling extensively to the US in order to build the technical andcommerical relationships necessary. As the single biggest healthcare market in the world, the US offers thebest route to building a highly successful UK SME operating in digital healthcare.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Sampson Solutions Ltd	Biobitumen Feasibility Study	£18,000	£12,600
Project description - provided by applicants			
Sampson is developing and commercialising IP for a range of biobitumen products and designing amanufacturing process with carbon capture and utilisation (CCU) functionality to optimise energy efficiency aswell as the use-value of by-product waste. In short, we are producing a 'closed loop' economy that facilitatesindustry-wide usage of sustainable organic and waste biomass feedstocks to produce recyclable, low carbonfootprint construction materials. We are collaborating with strategic and industrial partners to conduct afeasibility study to assess the optimal route to market for our products and to progress our business strategy aswe scale up to industrial levels of production.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Environmental Monitoring Solutions Ltd Visualwind Ltd	Monitoring and Analytics to Improve Services (MANTIS)	£28,920	£20,245
Project description - provided by applicants			
Hand operated community water pumps in rural areas of the Global South fail and can remain out ofservice for significant periods of time causing hardship for local communities. This represents a wastedinvestment in improved water supply by the organisations funding the systems. Pump operability ismonitored sporadically, if at all, dependent on the type of business model employed by owners.Centralised, low cost, reliable visibility of pump operability for pump owners will enable prioritised andefficient maintenance schedules and will result in more reliable water supply. MANTIS (Monitoring &ANalytics To Improve Service) is a low-cost, low-power, easy-to-install remote monitoring unit thatrecords the use of hand pumps. It processes and relays operational information to an on-line platform. Thesystem uses state of the art visualisation and gives early indication of failure and the nature of failure. Thesimplicity of MANTIS keeps operating costs and energy use to a minimum. Engagement with the potentialusers will enhance product development and define the route to market for this UK invention.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
PBS International Ltd	Understanding global market needs & overcoming technical challenges in pollen proof tents for seed production & plant breeding	£30,000	£21,000
Project description - provided by applicants			
The purpose of this project is to research the market needs for pollen proof tents to be used in commercial crop breeding and seed production programmes. Such tents are used by major crop breeding and seed production organisations around the world, and the needs may vary by crop, country and growing conditions. The result of this study will provide sufficient information to enable the design and development of innovative product to meet customer needs, along with establishing potential collaboration partners and early adopters with whom to evaluate novel solutions. Basic proof of concept and design work will be conducted during the project with further R&D proposed at the end of the project.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Archangel Imaging Ltd	LELA 2 for Maritime Security and Safety	£27,900	£19,530
Project description - provided by applicants			
The Long Endurance Low Altitude (LELA) is for long range maritime monitoring to combat smuggling,piracy, pollution, illegal fishing, human trafficking, and other maritime crimes.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
The Technology Research Centre Ltd	A new approach to creating light-weight plastic parts with good surface finish using tap water to create structural foam mouldings	£28,666	£20,066
Project description - provided by applicants			
Structural foam moulded parts have a cellular foamed core with a relatively solid skin outer, produced by a form of injection moulding using a chemical blowing agent or gas such as nitrogen, butane or carbon dioxide. However chemical blowing agents cause ozone depletion & will be phased out under the Montreal Protocol. Gases such as butane & pentane are an inherent fire risk, while N2 & CO2 are relatively expensive to use. In addition structural foam parts suffer from relatively poor surface finish especially when low injection pressure is used. Ours is an innovative new process to make structural foam moulded light-weight parts. It offers up to 40% weight saving, 40%+ cycle time reduction & 30%+ energy savings simultaneously. This project will build on existing international cooperation with key partners and potential users and ensure strong commercial relationships which will aid a successful development of the technology.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Dexter Intelligence Ltd	International Collaboration - Rapid Adoption of Advanced E-Discovery and Survey Software	£29,470	£20,629
Project description - provided by applicants			
Dexter Intelligence was founded to develop software which challenges existing 'search' paradigms. DXIhave developed a 'Discovery' Software Engine focused on helping users really understand content.Whereas search-based methods require prior knowledge of the subject, DXI's Discovery softwaredetermines themes & relationships, identifying entities and potentially unknown connections.Customer & Employee Surveys are important engagement tools, but analysis typically focuses on tick-boxanswers, ignoring valuable comments. DXI classifes this vital intelligence , enriching understanding anddirecting responses. E-Discovery supports the legal litigation process of digital content.Typical solutions focus on work-flow, filtering and searching to find important documents. DXI helps findcritical content, identifies relationships and offers a more effective & efficient solution. Having developedan operational platform which support these areas, DXI now seeks significant growth through wideradoption, and working closely with international partners, target clients and channel suppliers.		

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Dearman Engine Company Ltd	BEfJE - Bulit Environment for Japanese Entry	£29,822	£17,893
Project description - provided by applicants			
This study will evaluate the deployment of Dearman's novel, zero-emission, liquid nitrogen fuelled enginetechnology for built environment applications in Japan. The country is undergoing the most significantelectricity market reform in its history with full liberalisation due to be completed in 2020. Innovation driven bycompetition offers a host of opportunities for novel technologies in this £100bn market. Moreover, Japan'spenetration of renewables in the electricity mix is forecast to reach 28% by 2030; highlighting a role fortechnologies, such as the Dearman engine, that aid in storing 'wrong-time' electricity generated by renewables.The main purpose of this study is field-based engagement by Dearman with Japanese stakeholders to createpartnerships to foster knowledge sharing and enhance business relationships. These engagements, along withresearch and analysis, will develop a business case for the application. The project has the potential to not onlyaccelerate entry into the Japan built environment market, but also develop links with Japanese multi-nationalmanufacturers that will facilitate mass deployment of Dearman stationary engines globally.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Lightworks Poly Ltd	Developing Highly Lucrative Smart Crop Cover Markets In The Kingdom Of Saudi Arabia	£24,840	£16,800
Project description - provided by applicants			
Set against a backdrop of climate uncertainty the global middle class is projected to grow by 3bn to 4.9bn by 2030 and with it demand for horticultural crops (fresh fruit & veg). The industry therefore requires constant technological innovation to address current & future challenges. One of the most under expoited components of protected cropping is the polyethylene covers used to cover crops worldwide which have changed little in 30 years. Based on two decades of photobiology research (science of how different types of light affect biological systems) pioneered in the UK and commercially developed by LIGHTWORKS POLY with Lancaster University we are now able to use our unique models to design the optical properties of next generation crop cover products to extend growing seasons, improve yields and quality and reduce chemcial inputs based on crop and location. Following success in Turkey the Kingdom of Saudi Arabian government has invited discussion with their industry aimed at achieving similar benefits there and this project will faciliate that and in so doing help develop highly lucrative contracts in this high margin region.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Green Fuels Research Ltd	Sustainable Renewable Fuels in Brazil	£28,722	£20,105
Project description - provided by applicants			
Green Fuels Research is an innovation company in renewable fuels and bioenergy. In this project, we willbe building research and commercial links with organisations in Brazil.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
RedWave Labs Ltd	International partnership for the development of highly versatile laser power supplies	£23,900	£16,730
Project description - provided by applicants			
Redwave Labs proposes to build an international business network to exploit an emerging need forcustomised power supplies for diode lasers. By building on excellent first contacts with three keycompanies in the United States, Redwave Labs plans to establish partnerships leading to the developmentof tailored power supplies capable of offering (i) high grade power control for high plug efficiency(especially relevant for material processing), (ii) low current noise for good light control (especiallyrelevant for sensors and laser based instruments), (iii) easy control and (iv) local and remote monitoring.The networks developed under this grant would give a full understanding of customer requirementsneeded to develop individually tailored power supplies.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
FOCAL International Ltd	Archive Watch	£29,770	£20,839
Project description - provided by applicants			
The Archive Watch project creates a globally authoritative fact-base of moving image assets available forlicensing and repurposing, building on FOCAL International's success as a long-standing trade associationwith over 300 commercial footage library members (www.focalint.org), and creating a new commercialinitiative benefiting UK and global content owners.The project establishes feasibility for the creation of a 'living' data source for the 200 million hours ofunique professional moving image assets globally, significantly reducing market friction for discoveringand licensing these assets. This serves two purposes post-project: it drives commercial value to contentowners, and it creates a cross-industry data source on footage demographics and value, which FOCALInternational will offer in both open access and subscription-based tiers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Bath Institute of Medical Engineering Ltd	Wizzybug Early Years Powered Wheelchair - North America	£29,948	£20,964
Project description - provided by applicants			
Wizzybug is a fun and innovative powered wheelchair designed specifically for children under five. It wasdesigned by Designability to meet the needs of pre-school children with disabilities, allowing them to ziparound with their peers, and develop independence and spatial and social skills. It can be used indoors andoutdoors providing children with the opportunity to enjoy the exciting experience of mobility with their firstwheels. The product is currently available to children across the UK, Australia, Israel and British Columbia onlyin Canada. Designability would like to establish a route to market for Wizzybug within the whole of NorthAmerica. The study will explore the needs of children and families in this region, establish partnerships andcollaborations with clinicians and other organisations across North America and will result in a sustainablebusiness plan for Wizzybug globally.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Pre Chasm Research Ltd	MyTyreManager Internationalisation	£29,992	£20,994
Project description - provided by applicants			
The purpose of this project is to spend time in overseas markets to validate the needs of global customersfor our novel MyTyreManager (MTM) product; to build international networks; and to determine thenature of future collaborations and follow-on work. We'll visit sector players in UK, Europe, US, Canadaand USA. MTM is a multi-patented sensing and imaging technology enabling machines instead of people tomake complex decisions about tyre and wheel condition(s) using a SmartPhone. MTM was built thanks toa combination of previously successful IUK innovation grants and company investment in 2013, 2014 and2015. Since then we've broadened our technology to include a range of other Software, Hardware andConnected Vehicle options. Today MTM produces big data based on tyres, their users, and associatedvehicle characteristics. It enables 2-way exchange between user and stakeholders, generating data, storedin a cloud-based MTM 'attribute engine', from which inferences can be taken on a host of engineering,quality, asset management and risk / safety related matters - targeting a US$138bn segment.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Labman Automation Ltd	Development of business partnerships and new products in the emerging Chinese market	£23,602	£21,000
Project description - provided by applicants			
A feasibility study undertaken by a UK engineering company who are looking to expand their businessinto the Chinese market. The study facilitates the gathering of the information required to adapt anexisting product and bring two new products to market as well as form commercial partnershipes withtwo Chinese companies. The estimated impact of this study is in the region of £3 - £5 million over the next10 years.			

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Innovate UK

Results of Competition: Global Cooperation Feasibility Studies
Competition Code: 1608_FS_InFS

Total available funding for this competition is up to £2.2M

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Alterix Ltd	Digital ink for large diagonal size monitors	£30,000	£21,000
Project description - provided by applicants			
Alterix Ltd has developed low-cost electronics capable of achieving a hundred-fold increase in measurementspeed compared to the common touch interfaces used in tablet PCs. Our solution scales easily to large sensorswith diagonals up to 85and is compatible with the flat-panel TVs with which the future of interactive displayslies. We have developed multi-touch technology capable of consistently and completely rejecting the palm ofthe user in order to achieve a comfortable user experience for the creators of content who often need to usevirtual keyboard or stylus input for digital inking. This project will provide an opportunity to test the feasibilityof a novel approach for utilising the Bluetooth active stylus developed for Apple devices on Windows 10computers with large scale interactive multi-touch monitors. The proposed upgrade of our touch electronicswill allow us to extend the capabilities of an ordinary multi-touch panel towards those of a fully functionaldigitiser with support for digital ink capabilities introduced in the most recent Anniversary Update to Windows10.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Trantor International Ltd	Collaborative opportunities in Turkey (agricultural vehicles)	£29,997	£20,998
Project description - provided by applicants			
Project will identify the potential for collaboration with Turkish academia, tractor and agriculturalmachinery manufacturers - with a specific focus on the equipment needs of conservation agricultural.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Geetec Ltd	Study and assessment of technical and market potentials of a new Silicon Carbide (SiC) Inverter technology for High Voltage DC electricity transmission for offshore renewables	£29,120	£20,384
Project description - provided by applicants			
The project aims to study and assess the technical and market potentials of a new Silicon Carbide (SiC) techn-ology for large-scale power electronics inverters used in High Voltage DC electricity transmission for offshorerenewables. The new technology, developed by Geetec, a Cambridge University spinout, offers substantialimprovement in reliability and efficiency and reduction in manufacturing cost of SiC power semiconductor devices,enabling more widespread application of HVDC grids; its exploitation can potentially reduce the Levelised Cost ofEnergy from offshore wind by 7.5% when compared to existing Silicon based HVDC inverters.A small-scale 5 kW prototype inverter incorporating the SiC Inverter technology will be built and tested, and itsperformance will be assessed against commercial Si-based inverters. In addition, the economics and feasibility ofGeetec technology will be assessed and quantified for use in large-scale HVDC inverters and the marketcharacteristics and dynamics will be studied. This is enabled by engaging with major power electronic convertermanufacturers and OEMs during the project life.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Pacla Medical Ltd	Searching for RoboPhsyio	£30,000	£21,000
Project description - provided by applicants			
Established and incorporated in August 2015, Pacla Medical Limited based in Edinburgh is developing anautomated physiotherapy device, Robophysio, which mobilises a patient's spine to reduce spine joints stiffnessand to relieve back pain.In the United Kingdom, back pain was identified as the most common cause of disability in young adults, withmore than 100 million workdays lost per year. The costs of back pain in the UK have been estimated to exceed£1 billion each year, and globally to be more than £100 billion. Some 80% of these health care costs aregenerated by the 10% of patients with chronic back pain and disability.The Innovate UK's global cooperation feasibility study will enable the company to enhance the current proof ofconcept prototype for Robohysio, and build working partnerships with other organisations both in the UK andacross the globe to move the product into the pre-production phase.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Saccade Diagnostics Ltd	International cooperation study for deploying a novel Point-of-Care (PoC) diagnostic tool to aid clinical management of major psychiatric disorders worldwide	£30,000	£21,000
Project description - provided by applicants			
1 in 5 of us experience mental health problems during our lifetime but more than 50% of patients don't receiveadequate care when assessed using current methods - leading to risk of further deterioration in well-being,reduction in quality of life, loss of income, family breakdown, and self-harming. SaccScan is a novel point-of-care (PoC) software diagnostic system which has been demonstrated to detect schizophrenia with better than95% accuracy and has been extended with the same precision to bipolar disorder and major depressionillnesses. The software diagnostic tool successfully utilises eye-movement abnormalities as clinical diagnosticbiomarkers for serious mental illnesses. The test can be performed within 30 minutes and results producedover the internet at near real-time speed. The purpose of this study is to explore international partnerships forbringing a minimum viable version of the test to market and address the global challenge of improvingtreatment outcomes through personalising medicine in mental health care.		

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
STBY Ltd	Globally Networked Innovation Management Coaching for INGOs: A Feasibility Study	£29,695	£20,786
Project description - provided by applicants			
A 2016 BOND report surveyed 62 international non-governmental organisations (INGOs) to gaugeinnovation capacity among them. Findings concluded that the group is in the early stages of theirinnovation journey and that there is still significant room for consolidation and improvement in howinnovation is supported. The research also found that just 14% of survey respondents reported havingreceived formal innovation training, suggesting that INGOs are not proactively seeking to manage anddrive innovation. STBY ltd. seeks to address this market need by developing a globally networked, blendedtraining and coaching programme for user-centred innovation management, tailored specifically forINGOs. This offering builds upon previous work by STBY in the international development field, namelythe DIY Toolkit. In order to take this idea forward, we need to further develop our business case andsecure new strategic partnerships overseas. We are therefore seeking funding for concept work, andtravel and subsistence costs to build new partnerships overseas and explore the feasibility of this offering.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Aqdot Ltd	AqBusDUE	£29,845	£20,891
Project description - provided by applicants			
The AqBusDUE project will see Aqdot Limited conduct business development activities to engage major market actors in Europe and the United States. It will focus on accelerating the commercialisation of Aqdot Limited technology in microencapsulation in the consumer air care and household care industry. We will conduct intercontinental multi-stage visits to the headquarters and research development facilities of some of the world's leading chemical and consumer products manufacturing companies with an aim to establishing formal collaboration towards including our technology in new and existing products available to consumers throughout the UK, EU and US.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
BuffaloGrid Ltd	REACH (Renewable Energy And Connectivity Hub)	£30,000	£21,000
Project description - provided by applicants			
1.2bn people lack access to electricity, essential for development, education and healthcare. Despiteplentiful sunlight, solar generates 0.2% of electricity in off-grid regions. Smartphones are an essential toolfor development, however 650m off-grid mobile users have restricted access to charging. BuffaloGrid (BG)has developed a solar powered Hub providing PAYG off-grid phone charging and internet access,facilitating communication, education, healthcare and banking services. This project will allow BG todevelop local partnerships for operations/logistics and connect with influential trust networks. It will alsoallow BG to collaborate to build an ecosystem of services and refine its hardware to radically increasecompetitiveness.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
VOID Technologies Ltd	VO+ PE Film International Commercialisation Study	£30,000	£21,000
Project description - provided by applicants			
VOID is pioneering a new discipline in polymer engineering, our mission is to commercialise a revolutionary IPplatform - Engineered Nano-cellular Composite (branded "VO+"), initially discovered, patented and developedby Kimberly-Clark Corporation.VO+ is a breakthrough in polymer science that engineers nano-voided structures into polymers to tailor andenhance product performance. A key advantage is the ability to lightweight polymers by up to 50% whilesignificantly enhancing toughness and strength properties.VOID is now seeking to establish international development partnerships to develop and commercialise itstechnology in polyethylene film applications. Innovate UK funding support will enable VOID to accelerate itsmarket research and customer engagement activities, which we anticipate will lead to faster product launches.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Integrated Environmental Solutions Ltd	Boosting Intelligent Community Lifecycle technologies in Hong Kong- BICYCLE	£29,900	£17,940
Project description - provided by applicants			
The BICYCLE project aims at promoting the new technologies developed by IES to support all the stagesthat lead to the creation of an Intelligent Community in South East Asia, with particular focus on HongKong. This will be done through a set of activities aimed at understanding the needs and requirements ofpotential user groups, as well as local barriers that need to be overcome to achieve a successful marketuptake. These activities include the creation of partnerships with local regulatory agencies, universitiesand businesses as well as the organisation of bespoke events and training for target group. This will allowus to create a base of users for our software and technologies as well as a network of potential customersfor our community level technologies.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
OncoTherics Ltd Alan Boyd Consultants Ltd	Exploiting Tumour Hypoxia in Precision Medicine: Advancing Novel Prodrug Therapies for Pancreatic Cancer with a World-leading Canadian Cancer Centre	£30,000	£21,000
Project description - provided by applicants			
The effectiveness of cancer therapy can be limited by barriers to drug penetration at the tumour and theharbouring of drug-resistant cells in poorly oxygenated or "hypoxic" tumour regions - these becomingsources of spread. The UK company Oncotherics has developed non-toxic drugs that are designed topenetrate into these difficult to treat regions, sense the low levels of oxygen and activateto kill theproblematic cancer cells. The challenge is highlighted by the treament resistance of pancreatic cancer withonly 1 in every 100 patients in England & Wales surviving their disease for more than 10 years with littleimprovment since the 1970s. Our key innovation is to link with a world-leading Cancer Centre in Canadato approach a clincal trial that exploits a ground-breaking imaging technology that will allow us to identifypancreatic cancer patients with hypoxic tumours for this targeted drug therapy. Funding will acceleratethis link with PMCC , increase the prospects for investor interest with entry into a $1.7bn global market,provide a route to regulatory approval and clinical adoption in cancer centres both in the UK & globally.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ITS Laboratories Ltd	Systems Architectures in US Smart Transportation Systems	£15,000	£10,000
Project description - provided by applicants			
ITS LABORATORIES LTD is building a comprehensive software tool to help people involved in building systemsarchitectures for smart transport systems, complete projects faster, cost-effectively and with better results. Itensures that systems meet the needs and objectives of all stakeholders involved public authorities, transportoperators, ITS producers, final users and others.Our goal is to provide our Clients with a complex end-to-end tool for inter-operable systems architecturesdesign in Smart Transportation industry.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Slipstream Engieering Design Ltd	Absolute Positioning By Radar	£29,922	£20,946
Project description - provided by applicants			
Accuracy of navigation at sea is essential for safety. Increasingly, the main method of navigation is throughthe use of satellite navigation. This technology is however prone to disruption, either intentionally orotherwise, due to low signal strengths and interference. Systems used with safety of life implicationsclearly need to be reliable and resilient. With this in mind, key organisations such as the InternationalAssociation of Marine Aids to Navigation (IALA) and the International Maritime Organisation (IMO) haveidentified a need for a backup service for Positioning, Navigation, and Timing (PNT). Radar and enhancedradar becons (E-RACONs) have been cited as a viable back up system.Current RACON technology cannot provide absolute positioning information due to constraints in theiraccuracy as well as there poor performance in responding to new technology solid state radar. This studywill seek to establish innovation partnerships to help facilite the development of a digital signal processorsub-system for an E-RACON demonstrator.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Iotics Ltd	Developing Ultra-Low-Power IoT Devices for Emerging Asia-Pacific Markets	£29,687	£20,780
Project description - provided by applicants			
Developing Ultra-Low-Power IoT Devices for Emerging Asia-Pacific Marketsis a feasibility study byIotics Ltd to investigate the applications of the ultra-low power devices in the emerging Internet-of-Thingsmarket in the APAC area. This short-term project is aimed to merge UK and Singapore technologies in RFenergy-harvesting and miniature ultra-low power/battery-less IoT enablers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Transaxiom Ltd	Electronic Voting	£29,950	£20,965
Project description - provided by applicants			
This project investigates the possibility of a viable solution for anonymous Electronic Voting for citizensusing cryptography and smart card technology to protect every stage of the voting process such that itmay be audited by external adjudicators.At a wider level, the system is useful for any voting application such as voting for management of apolitical party, trade union or an organization/institution. Ultimately, it may be possible to apply theentire process as a secure app on a mobile phone thus making the voting process more convenient andaccessible to all.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Wevolver Ltd	Wevolver - Feasibility Study	£28,955	£20,269
Project description - provided by applicants			
As the hardware development process continues to grow faster, more decentralised, collaborative & open,Wevolver is positioned to become its central platform, much as Github.com is the central hub in software.This project will enable Wevolver to explore new international partnerships in order to bring innovative,new functionalities to its award-winning platform, positioning it at the forefront of online collaborativesoftware tools for product lifecycle management.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Nature's Laboratory Ltd	Exploring concept of next generation Apiceuticals for Japanese market	£23,200	£16,240

Project description - provided by applicants

Nature's Laboratory, based in North Yorkshire, was established in 2002 with the goal of discoveringsustainable natural solutions to some of the most pressing health issues of our age. The research basedmanufacturing company is focussed on producing high quality natural medicines and cosmetics from bothplant materials and bee products. Founder James Fearnley has dedicated his life to researching themedicinal properties of propolis, a remarkable natural medicine produced by bees from plant and treeresins. Mr Fearnley has published extensively on the topic and is considered a world expert in the field.This niche but growing area of natural healthcare has always been held back by issues of poor quality rawmaterial and limited understanding of specific bioactive compounds. Nature's Laboratory has contacted aeuropean propolis company that has developed a unique processing technology which produces astandardised refined product. We wish to develop the relationship with this company and collaborate on anew product range of propolis products for launch into the Japanese market.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
M-Squared Lasers Ltd	CARIBOU: exploring collaborations with Cold Atom Research labs In BOUlder	£30,000	£21,000
Project description - provided by applicants			
M Squared Lasers Ltd is a UK-based SME looking to establish links with research institutes and privateenterprises in the Boulder, Colorado area. The town is home to a number of key players in the global coldatom research community and as an effective hub of activity in this field, represents a key strategicdestination for M Squared whose core business is in the field of atomic and molecular optics. Theopportunities to collaborate and establish commercial relationships based on our previous interactionsare numerous and timely, given the company's ambitions in future quantum technologies. The feasibilitystudy will provide a platform for building strategic partnerships and gaining access to cutting-edgetechnologies, enabling senior technical and commercial management to engage with their UScounterparts.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Catalyst Activewear Ltd	Global Feasibiliy Study For The Development Of The First Cyber-Physical E-Commerce Platform In The Clothing Industry	£22,400	£15,680
Project description - provided by applicants			
Global feasibility study for the first implementation of cyber-physical systems in the clothing industry with theview to improve customers garments discovery before production and streamline manufacturing. If feasible,the main impacts of the project would be 1) improved demand/supply matching and reduced wasted 2)crowdsourcing and automation of designs function 3) streamlined and fast reacting production chains.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Exagenica Research Ltd	HYDRA– global cooperative feasibility study	£29,977	£20,984
Project description - provided by applicants			
Currently oil tankers are strictly limited to carrying crude oil cargoes on a singular outbound journey,returning with empty holds. The proposed Exagenica Research HYDRA project seeks to establish proof ofmarket for a novel maritime engineering solution with the potential to enable crude oil, product andchemical tankers to be multi-purposed in terms of the type of cargoes they can carry.This would facilitate transportation on inbound journeys, potentially transforming shipping economicsand its socio-environmental impact.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Trameto Ltd	Feasibility of using global cooperation to build a market position for novel platforms within the ecosystem for micro energy harvesting and autonomous wireless devices.	£30,000	£21,000
Project description - provided by applicants			
In this global cooperation feasibility study Trameto, an innovative developer of micro energy harvestingplatforms, will attend the Consumer Electronics Show 2017 and the IoT Evolution Expo; to build enduringalliances with vendors of transducer technology and to create commercial partnerships with systemintegrators and end users of autonomous wireless devices within the internet-of-things.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AceOn Battery Solar Technology Ltd	International development for licensing & manufacturing ClickFit Socket	£30,000	£21,000
Project description - provided by applicants			
AceOn Group has invented a revolutionary, market changing, electrical socket called the ClickFit Socket. Thisfeasability study will hopefully allow us to expand into the Far East market as well as potentially the Middle Eastmarket. We are hoping to set up licencing agreements with a large Chinese socket manufacturer anddistributor. This will then mean we will have a manufacturer large enough to cope with worldwide demand forour product. It will also mean we can genereate revenue from a market that we have no real knowledge of.This will then mean we will have funding to expand our business, employ more people and re-invest profits intothe development of new innovative products that we have lined up. The feasability study will also mean thatwe can establish links with a large connector company who have worldwide connections. Again this will meanthey can offer high quality products that can meet the worldwide demand but also introduce us to differentorganisations around the world that may be interested in licensing our product.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Nottingham Scientific Ltd	Developing Partnerships with Vietnamese Stakeholders to Address GNSS Interference Concerns	£28,100	£19,670
Project description - provided by applicants			
The project shall develop new partnerships and linkages with key stakeholders in Vietnam who areconcerned with the levels of interferences that are affecting GNSS services. The aims of the project are to(i) Assess the size and scale of the problem through a proof of concept demonstration of the ability todetect and characterise the different types of interference, (ii) Identify potential solutions to controland/or reduce the levels of interference, (iii) Define a small scale demonstration to show the ability toreduce the size of the problem. This demonstration will cover a local area. The levels of interferencebefore the intervention will be monitored as well as the levels during and after the intervention. Theactual intervention and demonstration will not form part of this project but shall be part of theexploitation strategy for the project.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Euriscus Ltd	Study of Anglo- Turkish Cooperation Opportunities for the Development of Additive Manufacturing Products and Services	£24,778	£16,622
Project description - provided by applicants			
This four month project will be delivered by Euriscus Ltd, a UK Company specialising in AdditiveManufacture (AM). It will investigate the current capability of Turkish Univerisities and Industry in thefield of AM, also known as 3D Printing. It will identify those Turkish organisations which are technologyleaders in this area. Work will be carried out to start partnerships between Euriscus Ltd, and suitableTurkish technology leaders to collaborate on areas of joint interest which will aid the Turkish economy,provide support for UK projects and exploit the AM market in the UK, Europe and the Middle East. Ofparticular interest will be collaborations in software, services and AM machinery.			

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Innovate UK

Results of Competition: Global Cooperation Feasibility Studies
Competition Code: 1608_FS_InFS

Total available funding for this competition is up to £2.2M

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Silicon Microgravity Ltd	MEMS gravity sensors	£20,000	£14,000
Project description - provided by applicants			
Silicon Microgravity Ltd. is a spin-out from Cambridge University. The company has developed a high-performance microelectromechanical systems (MEMS) accelerometer with a projected resolution of 1billionth the Earth's gravitational field. The company is currently developing a borehole gravity tool for oiland gas applications.This project seeks to establish relationships with overseas partners providing services and expertise intest facilities and modelling; as well as explore applications for the technology in other areas.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
NetComposites Ltd	Establishing Global Supply Chain Relationships to Accelerate the Commercialisation of New Automotive Materials Technologies - AutoMat	£28,795	£20,157
Project description - provided by applicants			
This study is to understand the real business opportunity in 3 new automotive material technologies, and toestablish the relationships and steps needed to commercialise them. Each technology has been developed toaddress the broad requirements of the automotive sector, but we now need to identify specific businessopportunities and customer needs, so that we can clearly formulate our commercialisation strategy.We will reach out to a number of global automotive companies, gauging their specific interest in eachtechnology, to decide on the strategy to reach the market. This study will provide the knowledge needed tomake informed decisions on each technology, allowing us to focus our efforts to give the best possiblecommercial returns. The results will allow us to establish close customer relationships, tailor our products,implement the production systems and raise the funding needed to commercialise these technologies.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Snap Out Ltd	Global cooperation study for the development of commercial partnerships for automatic eye diseases detection in India and China.	£29,990	£20,993
Project description - provided by applicants			
There are 285 million people afflicted with visual impairments worldwide of which 80% are forms ofpreventable blindness. 90% of this population are from developing countries. There is a need for accessible,affordable and innovative technologies that enable forms of preventable blindness to be detected andmonitored.We are currently developing an automated solution for detecting signs of eye diseases from retinalphotographs that includes diabetic retinopathy, glaucoma, macular degeneration and other abnormalities.This project will explore commercial cooperation with organisations in two developing countries of interest,including due-diligence research and business discussions with potential partners identified as a key part of ourcommercialisation strategy.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Block Dox Ltd	BlockDox - International Collaboration on Unique Occupancy Assessment for Outdoor Environments	£30,000	£21,000
Project description - provided by applicants			
BlockDox addresses the significant business opportunity & demand that exists by providing a platform forenhancing building management with real time and predictive intelligence. Their solution, where stronginterest has already been shown from the property market, combines an interoperable platformcustomised specifically to an individual building with a patent-pending method using geofencing, sensors& beacons to deliver an accurate assessment of building occupancy & use of communal spaces.This project aims to explore the significant opportunity for adapting BlockDox technology for use outside,thereby opening a new international market for their solution. By collaborating with Berlin based GreenCity Solutions, the feasibility and commercialisation of BlockDox's solution in outdoor environments canbe accelerated with particular focus on tackling the major problem of air pollution in cities worldwide. Ifsuccessful, there is further potential for deployment in the global market for public and private outdoorspace management, including large events and festivals.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
The Medical Device Co Ltd	Design study - New medical tissue transport container	£29,818	£20,872
Project description - provided by applicants			
The Medical Device Company Ltd is a Scottish based micro SME operating as a design consultancy withinthe Healthcare industry. MDC have applied for an Innovate UK grant to enable them to work with twoother SME's in Zurich , Switzerland in the development of a special container to protect Skin Grafts duringtransportation to the patient's operating room.MDC already have experience in this field, having been consortium members of the EU FP7 project"EuroSkingraft" which has successfully pioneered the use of manmade skin in the treatment of burnsvictims. The manmade skin is made patient specific, by the incorporation of the patients own skin cellsduring the production process. A laboratory in Zurich has developed the process, and now requires acustom- made transport container to protect the skin graft on its journey from the lab to the plasticsurgeon treating the patient			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Ostara Biomedical Ltd	REDLAB Going Global - REDucing LABoratory Rodent Numbers by driving adoption of UK Technology	£29,329	£20,530
Project description - provided by applicants			
The creation of genetically modified animals, primarily mice and rats, has revolutionised understanding ofdisease processes in animal models. Transgenic biotechnologies utilise large numbers of animals: femalesand males to generate embryos for genetic manipulation, females to provide a host uterus to support thedevelopment of embryos, and infertile males to induce 'pseudopregnancy' in recipient females. In the UKalone, 1.2 million mice were used in breeding programmes for production of transgenic mice in 2014.Scientists are required to comply with the principle of the Three Rs(Replacement Reduction andRefinement) to minimize the number of animals used in experimentation and to reduce pain and suffering.Ostara has developed a patented pessary system that supersedes the use of vasectomised males in theinduction of pseudopregnancy and enhances transgenic embryo implantation rates in the host mothers.The project will see this breakthrough technology demonstrated and promoted globally: the objective ofgaining widespread dissemination, adoption and tests can produce an 80% reduction mice numbers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Solar Polar Ltd	Development of Solar Polar Business Networks in the United States and Mexico	£29,844	£20,890
Project description - provided by applicants			
Solar Polar is developing a highly innovative, patented solar absorption cooling system which providescooling with no use of electricity, zero carbon emissions and has no moving parts. The system is based ona novel, yet simple, modular engineering design which enables significant economies when manufacturedat scale. This will result in the world's lowest cost (per watt) solar cooling system. The technology has thepotential to transform the world's air-conditioning market which is currently dominated by electricitydriven systems. The project's objectives are to develop networks of business relationships in the UnitedStates and Mexico. The business networks established within the project will provide a platform for thesuccessful technology optimisation, pilot trials, manufacturing and commercialisation of Solar Polar'sinnovative solar cooling system. The project's outcomes should therefore lead to an acceleration of SolarPolar's technology development and commercialisation plans and to an increase in the scale of marketpenetration.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AutoTrip Ltd	AutoTrip Non-EU Market Penetration Assessment	£29,400	£20,580
Project description - provided by applicants			
NASA identified automobiles to be the largest net contributors to global warming (Carbon Action, 2014).Currently there are an estimated 1bn vehicles on the road worldwide, expected to rise to 1.7bn by 2035(Ward Journal, 2014). Around 1/3 of these vehicles are used for commercial purposes (Satista, 2015).Ensuring commercial vehicles are able to comply with environmental reporting regulations is increasinglyvaluable as environmental regulations proliferate globally.UK SME, AutoTrip, leaders in automated business mileage, have developed a technology and brandagnostic solution ensuring accurate mileage & carbon reporting can be obtained for any car in any fleet.AutoTrip seek to undertake a feasibility study to understand the international market potential for theirinnovative solution, and engage the partners necessary to exploit such an opportunity.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Nava Technology Ltd	Market engagement for exploitation of a disruptive tandem photovoltaic technology	£29,128	£20,390
Project description - provided by applicants			
This project aims to move the commercialisation operation of a potentially disruptive PV technology to the nextstage through conducting a thorough market analysis, identifying potential partners and customers, andquantified assessment of the technology economics. Navatec has developed a nanostructured tandem technologythat is printed on top of a silicon solar cell and increases the module efficiency by 3-5% (absolute value),producing more electricity from the same unit area.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cadscan Ltd	Building International partnerships for Diabetic Foot Ulcer solutions	£29,760	£20,832
Project description - provided by applicants			
Diabetes affects 422m people worldwide (WHO) and accounts for 12% of global health expenditure whenrelated complications are included. Diabetic foot ulcers are a major source of morbidity and resource usefor patients with diabetes. 28% may result in amputation although 80% of these are preventable. 56% ofpeople with diabetes who have had ulcers survive for five years. Cadscan is developing new solutions forboth the prevention and treatment of foot ulcers that use 3D scanning to capture the foot's properties andgenerate a bespoke orthotic design that can be 3D printed at the point of care, when needed. The UKrepresents less than 1% of the global market. This project will develop export market plans andpartnerships to help access three new markets which represent nearly 50% of the global diabeticpopulation, China (110m), India (69m) and the USA (29m). The main output from this study will be threestrategic marketing plans for each country.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Spacechips Ltd	Cooperating with Asian Space Companies to Develop and Access a Growing Market	£28,150	£19,705
Project description - provided by applicants			
The company wishes to explore the Asian space and satellite market by collaborating with potentialstakeholders and clients in South Korea, Japan, Singapore and India. We wish to start cooperative ventureswith partners, develop joint strategy and capability so we can access the local market together.Today, the Asian space industry faces a number of unique challenges which is preventing its growth.Spacechips Ltd, a UK SME, provides commercial R&D services and would like to partner with companies inSouth Korea, Japan, Singapore and India to jointly address their problems with satellite elctronics.The project will develop cooperative research and business networks within Asia growing the capabilityand offering of a UK SME, opening this lucrative export market to the wider UK supply chain.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cyoda Ltd	Feasibility Study - Global Commercialisation (Cyoda)	£30,000	£21,000
Project description - provided by applicants			
Cyoda has built a scalable data processing and reporting platform specifically for capital markets - upon whichvirtually any core banking or reporting requirement may be developed. It is a robust, fault-tolerant platform,offering full transaction consistency and able to handle complex, interrelated data structures as is essential forfinancial data. The platform's consistency, accuracy and performance makes it an ideal solution for cross-regulatory compliance and internal risk management. The scalability means there are no limits to the amountof data or scope of functionality the platform can handle, thus it provides a path to large-scale systemconsolidation and dramatic reductions in cost, complexity and risk. Cyoda seeks to develop technical andcommercial collaborations to enable the effective delivery of this capability to major financial institutions andovercome the significant barriers to entry faced by a startup trying to enter a conservative and risk-aversemarket. We believe that identifying and building relationships with appropriate partners to be essential tounlock our initial sales and accelerate growth thereafter.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Trameto Ltd	The feasibility of using global cooperation to build an exaggerated market position for power management devices within the worldwide micro energy harvesting ecosystem	£30,000	£21,000
Project description - provided by applicants			
In this global cooperation feasibility study Trameto, an innovative developer of micro energy harvestingpower management solutions, will attend the Energy Harvesting USA 2016 exhibition and the ConsumerElectronics Show 2017; to build enduring alliances with vendors of complementary technology and tocreate commercial partnerships with OEMs and end users of autonomous wireless devices within theinternet-of-things.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
IN-PART Publishing Ltd	Adaptation of a UK SME's Innovative and Successful University-Industry International Technology Transfer Platform to Facilitate its Adoption in Japan	£28,805	£20,164

Project description - provided by applicants

IN-PART Publishing Ltd is a small UK SME thatin 2014 launched a website which enabled universities to sendnews of their latest research developments, opportunities for collaboration, etc., directly and privately tosenior managers in research-active companies. This innovative curated "technology-transfer" mechanism hasproved remarkably successful with nearly all research universities in the UK, including Cambridge and Oxford,being subscribers, as also are leading universities in the USA (MIT, UPenn, Cornell, etc.) and other majorEnglish-speaking countries. This project aims to help the company expand the use of the system by universitiesin Asia where English is not the first language but where there is significant high-level research activity.Financial support will be used to help fund missions to Japan, whose university system is comparable in manyways to the UK's, to meet with key organisations, universities and companies to discuss how to adapt thecompany's business model, for example, by introducing dual language capability and establishing local native-speaking representatives. IN-PART aims to become the global technology-transfer enabler of first choice.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
EXIS Innovation Ltd	A 3D System for Energy Installations Navigation and Inspection	£30,000	£21,000
Project description - provided by applicants			
One of the major problems during the operation of an Oil & Gas and Nuclear energy station is to design amaintenance and inspection plan. Especially in cases where the environment in harsh and the station isnot easily accessible (like an offshore platform), the time spent during inspection is crucial and limited.EXIS, a UK based SME with expertise in providing services for data analytics, wants to build internationalbusiness network in order to enable partnerships for developping and market introduction of a decisionmaking tool for inspection planning and 3D visualization of Oil & Gas and Nuclear energy installations. Theoutput of the suggested platform will be a detailed inspection plan along with the critical points of theinstallation, real time navigation for the operator, a proposal on the optimum inspection techniques thatcan be used for the specific site and the capability of training of the operator through the 3D environment.The tool aims to improve inspection efficiency, reduce the cost, train the operators and contribute in initialdesign of energy installations prior to construction.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Inventya Ltd	Personalised Coaching for Well-Being and Care of People as They Age - European Collaboration	£29,610	£20,727
Project description - provided by applicants			
The study will enable Inventya to identify and work with European partners that are active within thepersonalised coaching E-health sector.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
European Technology for Business Ltd	Investigation in to the US market for ETB's service to improve mobility	£30,000	£21,000
Project description - provided by applicants			
ETB has developed an innovative service solution to help people with mobility issues; a gait monitoringsensor based tool, GaitSmart. We have shown that outcomes regarding mobility for joint replacementpatients and the elderly at risk of falling are poor and this can be improved using our GaitSmart service.Ours is the only system in the world that enables gait problems to be accurately identified and quantifiedin the clinic so that targeted physio can be given and monitored. We are starting to provide this service forjoint replacement patients and the elderly at risk of falling in the UK and are just commencing the NICEprocedure for the NHS.The US market has the same demographics as the UK, 7 times the population and a reimbursementscheme for payment, making it a very attractive market for ETB to improve our competitiveness. In thisproject we will explore the possibility of extending our offering in to the US market. This will improve thetreatment for US patients and it will also have a significant impact on the competitiveness of ETB.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Direct Trade Bags Co Ltd	Treatment of Cotton to eradicate amonia odour and mouldgrowth in transit	£30,000	£18,000
Project description - provided by applicants			
Direct Trade Bags Co Limited www.directtradebags.co.uk - wish to carry out a feasibility study with majorcotton goods manufacturers in India to gain first hand knowledge of the issues around their manufacturingmethods especially during the monsoon season so as to prepare a detailed scope of research to eliminateamonia odours and mould growth that occur during transit by container at sea. If this problem can beovercome with technology developed jointly by DTB in the UK with the assistance of microbal treatmentpartners, the impact on sales for Direct Trade Bags into Europe of odour and mould resistant treated cottonbags would see £2m sales growth by 2019, and significantly reduce the current wastage on shipped bags from12% to <2%.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Metaphysis LLP	Feasibility study on the commercial viability of introducing a pre-operative m-health solution to hospitals and clinics in the USA and to identify where commercial partners are required.	£22,153	£11,000
Project description - provided by applicants			
To study the feasibility of introducing a new innovative mHealth solution for patients with complex anklefractures to the USA. In the USA there are round 110,000 complex ankle fractures each year that requiresurgery. The Metaphysis solution provides an alternative for patients to stay at home while they wait for theswelling to subside rather than staying in hospital for around 4 days before surgery. This solution providesbenefits to the patient and their family as they can be at home rather than in hospital; the surgeon will be keptadvised via remote monitoring how the patient is prgressing and when the ankle is ready for surgery; thehospital and healthcare providers will save all the costs associated with having a patient in hospital simply whilewaiting for surgery.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Ocean Array Systems Ltd	Data Management and Analysis Service (DAMS)	£29,936	£20,955
Project description - provided by applicants			
Ocean Array Systems Ltd, has been funded by Innovate UK to conduct a feasibility study into thedevelopment of a Data Analysis and Management Service (DAMS). This grant is provided to help smallcompanies to develop ideas for new or enhanced products.Ocean Array Systems is a Cambridge-based software development company working in the wind and tidalrenewable energy sectors. It has previously developed resource characterisation and turbine simulationsoftware, which model turbulent and unsteady flow, including wake effects.This latest development will enable users of large LiDAR and ADCP datasets to manage and analyse thedata, unlocking their potential to inform decisions.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AGRIinsight Ltd Geo-Space Analytical Services (GEOSAS) Ltd	AGRIinsight Ethiopian Partnership	£26,170	£18,319
Project description - provided by applicants			
One of the biggest challenges that agribusiness in emerging markets faces is getting access to commerciallyrelevant information in an easily understandable format in a centralised location, and to be able to use theinformation to maintain and expand their share of the market set to increase over the next 15 years to 1 trilliondollars. AGRIinsight is an online tool that helps agribusiness improve their operational efficiency, increase theirrevenue whilst minimising costs. AGRIinsight brings together multiple sources of information, translates theminto rich, relevant, geo-visual representations bringing fresh insights that can be used by all the different typesof agribusinesses in many different ways. AGRIinsight is proposing a feasibility study to build new andinternational business networks in Ethiopia. In collaboration with Geospatial Analytical Services (GeoSAS), thecore objective is the creation of an Ethiopian Agri-business platform (EABP), where participant groups Government, Private Sector and National and International Development Partners - are at the same timeproviders as well as users of information to collectively advance their respective objectives.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
DuckDuck Ltd	Study to understand market potential of urban Demand response in India, targeting domestic air conditioning	£28,800	£20,160
Project description - provided by applicants			
Blackouts are a regular occurrence in India, especially in rural areas. The average village has electricity forless than 16 hours per day. Demand Response (shifting non-essential use to off-peak times) is one of theways to reduce the incidence and length of blackouts. Demand Response is gaining ground in India,especially in urban area, where the distribution grid is available.One of the primary causes of the mid-day demand peaks are domestic air conditioning units. At themoment only 2-3% of Indian households have air conditioning (US 87%, urban China 100%), but already50% of the summer mid-day peak in Delhi is cause by these air con units. The market for domestic air conis growing by 20-30% per year, exacerbating the incidence of blackouts.We want to see how air con units can be managed under DR schemes to reduce the peaks, and eithereliminate or shorten the resulting blackouts. DuckDuck is working with I-ON, a South Korean DR softwarecompany, and Kochartech, an Indian tech company, to conduct interviews and a small domestic trial.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Zigoorat Ltd	Study and Assessment of Technical and Commercial Feasibility of a Disruptive Fault Diagnosis Technology, ReliaTurbine, for Offshore Wind Turbine Applications	£28,900	£20,230
Project description - provided by applicants			
The project aims to study and assess the technical and commercial feasibility of a new Condition MonitoringSystem (CMS) technology, ReliaTurbine, used in offshore wind turbines. ReliaTurbine can offer a substantial 25%reduction in failure rate and 40% increase in turbine's availability, hence reducing the Cost of Energy from offshorewind by 4.3% (figures are based on our preliminary studies and the model recommended by the Department ofEnergy and Climate Change). This is particularly important for the UK since the offshore wind is set to play animportant role in achieving the renewable energy and CO2 emission reduction targets for 2020.During the project, a prototype ReliaTurbine will be tested in a 20 kW wind turbine for the first time. Thetechnical feasibility and economics of ReliaTurbine for use in large-scale (e.g. 5 MW+) offshore wind turbines willalso be assessed and quantified by engaging with two major offshore wind operators.			

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Innovate UK

Results of Competition: Global Cooperation Feasibility Studies
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Participant organisation names	Project title	Proposed project costs	Proposed project grant
M-Squared Lasers Ltd	EXCITE: EXploring the Commercial vIability of a Tunable mid-infrared sourcE	£30,000	£21,000
Project description - provided by applicants			
M Squared Lasers Limited is a UK-based SME, specialising in the manufacture of lasers and relatedsystems. The company has identified an opportunity to work with a European research institute who arein a position to help commercialise a novel tunable mid-infrared laser source. The source will have directapplicability to M Squared's core customer base in both the atomic and molecular optics and high-resolution spectroscopy markets. The proposed project is designed to explore the commercialopportunities for collaboration in this area and to establish links between the institutions. A long-termstrategic partnership is envisaged and the project will enable senior management and technical staff tovisit the institute and explore the opportunities, undertake due diligence and will greatly accelerate thetime to market of a compelling technology development..			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Teknisolar Ltd	Identification of collaborative opportunities within the North American photovoltaic sector	£29,930	£20,951
Project description - provided by applicants			
Teknisolar will explore collaborative opportunities within the North American photovoltaic sector.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Diagnostics for the Real World (Europe) Ltd	Study how SAMBA can help Ministries of Health expand HIV testing and treatment in Africa	£27,880	£19,516
Project description - provided by applicants			
Diagnostics for the Real World has developed a simple, robust, point-of-care nucleic acid test platform calledSAMBA, which allows complex, high-performance tests to be carried out in remote, resource-limited settings inAfrica or primary care settings in the UK and EU. The first SAMBA tests are for HIV: 1) viral load measure fortreatment monitoring and 2) HIV detection in infants to initiate early treatment. With WHO recommendationand funding from aid organisations, the market for HIV testing to monitor and initiate treatment in Sub-Saharan Africa is estimated at $470 million for 2017-2019. Initial customers will be African Ministries of Healthand organisations such as M©decins Sans FrontiÃ¨res (MSF). To promote SAMBA, DRW proposes to initiallytarget Kenya, Uganda, Malawi and Zimbabwe and meet with their Ministries of Health to identify how SAMBAcan benefit their HIV treatment programs for mothers and newborns, people in remote villages and improvedHIV results monitoring. Study results will help further develop a customer-driven implementation plan.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Methera Global Communications Ltd	Feasibility study to gain Methera market access to India and selected other nations	£30,000	£21,000
Project description - provided by applicants			
The pressing need for affordable, high speed broadband services to rural areas of un(der)served nations isunderlined by the United Nations, ITU and Commonwealth Telecommunications Organisation. Satellite serviceofferings are not yet viable: monthly costs of satellite bandwidth and initial installed cost of user equipmentare too high; outdoor units are much larger than with terrestrial wireless; and total available capacity andcapacity density are too low and inflexible. Terrestrial technologies are also costly and impractical over verylarge sparsely populated areas. Methera's innovative MEO satellite network proposal is specifically designed tomeet this need by offering wholesale communications capacity of up to 1Tbps to nationally authorisedresellers, with an order of magnitude reduction in the 15 year cost of ownership compared with alternatives.This study will test the feasibility of the market proposition on potential overseas partners including India,Malaysia and possibly one other Commonwealth nation. This feedback will be key in supporting decisionmaking and external finance for the overall design and implementation phases of the project			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ITM Power Trading Ltd	Nordic Market Investigations	£28,790	£17,274
Project description - provided by applicants			
The Nordic Power market has a variety of electricity generation assets/mixes in the different countriesand already overall high renewable content and a high level of electricity consumption. However,networks and grids will need considerable upgrade and expansion for new generation capacity to beinstalled in many locations. This entails a variety of market opportunities for electrolysers including large-scale conversion of surplus renewable power to hydrogen for industrial use and for transportation. ITMPower will undertake an investigation into the export potential for the Nordic Region.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Things3D LTD	THINGS3D LTD - Digital Rights Management & Brokerage Platform International Collaboration	£29,981	£20,978
Project description - provided by applicants			
Things3D (T3D) have developed Ownerchip® - the World's first Digital Rights Management & Brokerage(DRMB) platform that links Megabrand IP owners, Licensees, Venue Operators, and Mass ConsumerSmartPhone users to a network of 3d scanners, 3d printers, and content/game developers via a securecloud architecture and unique visceral Augmented Reality (AR) fan engagement user experiences.The purpose of this particular project is to spend time overseas with leading Mega Brands to validate theirneeds for future developmental, collaborative and commercial endeavors.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
CarTap Ltd	C3 - Connected Community Car	£29,750	£20,825
Project description - provided by applicants			
C3 is a project to integrate connected mobility into urban residental infrastructure, to enable a new form ofclean, affordable and flexible shared mobility. C3 will be designed and developed working with key partners inthe fastest growing markets of the world, using advanced keyless carsharing technology.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
CoControl Ltd	CoControl: scoping intelligent heating controls for low income American housing	£25,811	£18,067
Project description - provided by applicants			
CoControl is the UK's first socially focused connected homes technology, providing intelligent heatingcontrol for low income tenants, and property insight for their landlords. CoControl has worked with 7 UKsocial landlords to tailor our product to the low income housing space, with trials having demonstrateddemand and technical viability. The financial burden on low income tenants has steadily increased due toeconomic crises and austerity measures across the Western world. In the UK, 43% live in poverty andstruggle to balance food and rent with increasingly expensive gas and electricity (JRF, Guardian, DBEIS).Further, their landlords also face severely decreasing funding: the UK is 1y into a 5y plan to cut SocialLandlord rent income 12% net of previous forecasts (2015 Summer Budget). In response, CoControl hasdeveloped an intelligent, cloud based heating controls, built to minimise tenant energy usage and cost, andempower landlords our customers to invest the billions spent on annual maintenance more effectively.As heating controls are global, this project explores if sales and partnerships in the US can be economic.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AutoNaut Ltd	AutoNaut Global FeasibilityStudy	£30,000	£21,000
Project description - provided by applicants			
The AutoNaut wave-propelled unmanned surface vessel (USV) has a global market to address with a widerange of sensors making possible applications in oceanographic science research, Oil and Gas and OffshoreRenewables, military and surveillance activities. This project will allow AutoNaut Ltd to scope, focus anddevelop its potential in fast growing global markets for autonomous operations. The aim is to form keypartnerships in three specific countries which have already shown strong interest in AutoNaut, based onthe application as a metocean buoy to provide forecasting data to a wide range of global customers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Curileum Discovery Ltd	Developing collaborative partnerships with Chinese pharmaceutical companies to discover and develop new drugs from traditional Chinese medicines to treat serious gastrointestinal diseases	£17,100	£12,000
Project description - provided by applicants			
Curileum Discovery Ltd is an emerging regenerative medicine company in London discovering and developing drugs to cure serious gastrointestinal (GI) diseases. Imbalances in the number and/or functions of cells underpin GI diseases. Current therapies treat the consequences of these imbalances and have a worldwide market exceeding £25 bn. Curileum's drug discovery platform targets stem cells, rare cells responsible for lifelong tissue renewal, to more effectively regulate cell production and function. Curileum provides the front-end drug discovery module to plug into its pharmaceutical partners' development pathway. Traditional Chinese medicines (TCMs) that treat serious GI diseases provide a rich source for new patentable drugs. Curileum will "modernise TCMs" by applying our state-of-the-art GI stem cell assays in London to isolate and develop the active components in TCMs in partnerships with Chinese pharmaceutical companies. Innovate UK's Global Cooperation Feasiblity Study provides the opportunity for Curileum to meet with Chinese pharmaceutical companies to develop collaborative partnerships.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Foamhand Ltd	8. Information and Communication Technology	£29,980	£20,986
Project description - provided by applicants			
This project is a feasibility study, including proof of concept(POC), on the commercial viability of theFOAMHAND Bliptrack pedestrian monitoring system to support crowd management in the major eventsmarket.FOAMHAND Bliptrack is an innovative system to support crowd management operations at major events,such as the Tokyo 2020 Olympic Games. The technology behind the system will allow us to capture highervolume and more reliable data than any system in the market. This will revolutionise infrastructure andresource planning, logistics and operations for major events, allowing hosts and organisers to deliversafer, more secure events whilst achieving improved budget utilisation. The system also providesignificant commercial opportunities to clients by providing them with a rich understand of pedestrianmovement, such as dwell time, areas of high density footfall, key routes and repeat visits.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Zap Corporation Ltd	USA collaboration and market entry feasibility	£23,773	£16,641
Project description - provided by applicants			
A feasibility study to show the devlopment potential of the Company`s existing US Patent for use within theAmercan targeted advertising market.Exploitation would be through a collaborative arrangement with an existing US company who have beenidentified and targeted following a business trip to the States last year which was part sponsored by a smallUKTI travel grant .			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Etelatar Ltd	Scaling-up Apertum: Setting up local partnerships in 6 target EU & US cities	£29,780	£20,846
Project description - provided by applicants			
Today, vulnerable public transport users do not know which metro stations are accessible and theycertainly cannot plan their trips in advance. Solving this challenge would positively disrupt the livingconditions of this population segment, which comprehends those with a permanent or temporary need ofstep-free mobility: Disabled, Elderly, Baby strollers and Travellers with heavy luggage.Apertum: A Real-Time Guide to Step-Free Mobility (www.apertum.world) is a free transport app ownedby Etelatar Ltd.- that offers real-time accessible public transport routing to vulnerable and non-conventional transport users. Apertum is an award-winning solution supported by the EU's FI-C3Accelerator (Oct 2015 June 2016) that has further received the EU's Seal of Excellence recognising high-quality innovations and recommending them to potential investors.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Synergation Ltd	Data driven business intelligence and professional services for innovative organisations in Bahrain	£20,000	£14,000
Project description - provided by applicants			
The aim of our global cooperation feasibility study is to research Bahrain's professional services market andfinalise our plans in order to form the basis of commercialising and adapting our proprietary data analyticssolutions for the local market. Our award winning business intelligence and pricing tools visually show financialand performance metrics and provide strategic insights to enable our clients to analyse performance and makedata-driven decisions. The specific objectives of this study include review of the business challenges,competitive analysis, needs assessment with our identified end-users, revenue models, and consideration oflegal, financial and cultural issues in Bahrain. The ultimate aim is to sell our solutions in Bahrain and to useBahrain as a gateway to the Gulf.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Alcove Ltd	Healthcare at home	£25,300	£17,710
Project description - provided by applicants			
Alcove is an Internet-of-Things-powered care ecosystem designed to keep older adults in their ownhomes, avoiding the need for costly residential care. Alcove repurposes modern consumer technology,from werables to wireless sensors, and wrappers it in a bespoke software layer, to create a customerexperience which looks and feels like any other consumer app. Alcove helps better inform and connectolder adults, their families and the formal care system, to better safeguard people and improve theirquality of life. The HEALTHCARE AT HOME feasibility study is looking at the commercial viablity of acommercial roll out of this enabling technology in New Zealand including to those with dementia. It is acollaboration with Nurse Maude, a large homecare provider, and St.. John, New Zealand's largest telecareprovider. It will provide all necessary prepartion for a large pilot with 90 older adults with dementia. Thiswill provide the evidence on which to base a large commercial rollout, both to care providers and directlyto consumers to help them better care for loved ones and reduce stress that they experience as caregivers.			

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