Results of Competition:Smart Round 2 2015-16 - Development of PrototypeCompetition Code:1505_SmartRd2_DOP

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
5	Peer Pay - a solution to SME cash- flow optimisation	£365,796	£164,608
Project description - provided by applica	nts		
Research indicates that one of the most pressing when they need finance and despitestrong busine moment'. These businesses are exactly the type To quote 'Too often, theliquidators are called in to lost and the potential that the businesses had to g requirements, andhave suffered losses on their c grow, SMEs need greater choices beyond banks Peer lendingmodel, to allow companies and indivi- the Accountancy practice community. The secure knowledge of its clients businesses to build better length of time andamounts that they wish to use t diversification of the investment to minimise risk f SMEbusinesses with cash-flow finance. The servic allowing them to provide professional advice and	ess cases the response is typically 'w that need help, because theyare on o viable firms due to short-term prob generate isgone.'All banks have had apital through bad debts, which limit standardofferings.The vision is to de iduals to lend to vetted, established platform's matching algorithm will ut r-performing, proactive riskprofiling of to invest in other companies, without for the lender, against invoices that has ce will be managed by Accountancy	ve just don't have the appetite f rapid growth curves which stret lems that can be solved. As are to reserve more capital in line s what they have availableto pre- evelop an alternative cash-flow SME businesseswithin the close ilise an Accountancy firm's spe of borrowers, whilst lenders are becoming a shareholder. The a ave been validated and are wai firms as a value-added service	or this type ofbusiness at the ch their finances to the limit. esult, jobs and livelihoods are with increased regulatory ovide to SMEs. To survive and platform, based on a Peer to ed and safe environment of cialist insightand superior able to choose risk profiles, algorithm will manage ting to be paid, to help these

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Inclusive Technology Ltd	Personalised Preferences Profile (3Ps)	£538,361	£242,262
Project description - provided by application	ants	•	
The key aim of the Personalised Preference Pro Difficulties (SLD) and Profound andMultiple Lear and dynamically tailored to them. It can be a hug- technical approach to detect the child's interaction their interests. This provides a unique market opp create educational self-tailoringcontent for learned created and the tool will be available on any online analyses feedback from theindividual user's inter- is of interest. This will drive the real time content virtual reality technologies (e.g. headsets, senso process. If the application can be successfully de and preferences/personalised profiles for individu passport.2) Information that allows teachers, gua in the learning experience being enhanced	ning Disabilities (PMLD) and provide ely complex task to find out what stin on with content andcouples this with r portunity and innovation based upon: ers with PMLD from fixed and author ne computer/tabletdevice.2) Creating raction with it (via eye tracking ' a teo tailoring forindividual users and the l ry room software) mightin the future eveloped then its impact to learners a ual learners and produce student frier	the ability to create personalise nulates children with SLD/PMLE real time & off-line data analytic 1) Creating an authoring tool th ed content. Specific visual and s an application that presents th chnology already used in ITL'spi- longer term tailoring in the author be able to be integrated with the nd teachers willbe:1) The ability ndly reports that can form the for	ed contentthat is automatically D. Thisproject uses a novel s to tailor the experience to at can be used by teachers to sensorycontent packs will be e content generated and roduct offering) to detect what oring tool.3) Research into how is application and learning / to build up learning interests bundation of acommunication

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
IBEX Innovations Ltd	IBEX Virtual Anti-Scatter Grid Detector	£405,657	£182,545
Project description - provided by applica	ints	•	
IBEX Innovations (IBEX) has successfully demon to improve diagnostic quality and significantly red extensively used in medical X-ray imaging to red diagnostic quality images, especially on thicker bo physical ASGs also absorb a significant proportion and8x to achieve acceptable images.By contrast Multi Absorption Plate (MAP) and advanced IBEX scattered Xraydata to improve image contrast with create an image instead of justblocking unwanted lower patient doses, whilst further improving the value of radiographic examinations.The VASG co developed under a previous InnovateUK DoP pro-	uce patient dose in medical radiolog uce thelevels of unwanted X-ray sca ody parts such as the torso, head an on ofuseful direct X-rays and result in , the proposed IBEX Virtual Anti-Sca K softwarealgorithms and uses it to o thout the need for a physical ASG. By d scatter with a physical ASG, the V sensitivity of theIBEX materials class ncept relies fundamentally upon the	ical examinationsPhysical anti-s tter reaching the detector and a d breast. However, as well as bl patient doses being increased atter Grid (VASG), takes materia deconvolve the scattered X-ray of y usefully employing more of the ASG is expected to generate im sification, leading to further impr IBEX materials classification te	scatter grids (ASGs) are ire essential to achieve ocking unwanted scatter, by between a factor of 2x als datagenerated by the IBEX component, utilising the e available X-ray photons to provedcontrast at significantly ovements in the diagnostic chnologysuccessfully

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
	MCM Solutions (CyberHawk) - a novelsolution for the surveillance of Wi-Finetworks and devices that can identify adevice (by MAC address) and show its exactlocation to dramatically reduce Cybercrime	£208,034	£93,615

Project description - provided by applicants

The UK government, businesses and public lose a total of £27 billion per annum tocybercrime with the largest share of this cost borne by businesses. Most of the attacks onbusiness emanate from inside threats, which have become increasingly difficult to trace orprevent, especially due to the proliferation of smart' Wifi enabled devices. To combat this threat, technology has been developed for the surveillance of Wi-Fi enableddevices. However the currently available state-of-the-art is highly limited both in its hardwareand software applications. The majority of available devices are for fixed use and cannot beadapted for mobile use, such as would be necessary for tracking. They thus cannot be used inmobile surveillance operations. Furthermore, the derived data is not stored centrally and socannot be shared and leveraged for ongoing or future analysis. Finally, there are no facilitiesto identify and track specific devices across locations thereby limiting application inintelligence or law enforcement application. There is thus a ready and growing market in the UK and globally for innovative surveillanceand security equipment for use by the defence, law enforcement, civilian and militaryapplications.MCM Solutions is developing an innovative solution for the effective surveillance of Wi-Fienabled devices that will provide users with the ability to harness software, hardware and datato identify, locate and track Wifi enabled devices. Our solution will for the first time, enableboth fixed and mobile surveillance with live data sharing capabilities enabling theidentification of a device and geolocation technology to trace a devices movements. The commercialisation of this system will deliver economic and social benefits as it helps toreduce cybercrime and also equips law enforcement agencies with a highly efficient tool toassist in various investigations.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
FitnessGenes Ltd	FitnessGenes: Development of a new tool for provision of personalised health & nutrition advice	£505,372	£227,417
Project description - provided by applica	ints		
61.9% of the adults in the England are overweigh every year. In addition, twice as manydeaths may significant health benefits for many. It is clear that programs are now seen as the future. By assess makeevidence-based recommendations on what based on genetics has been shown to improve genetic information has become easily accessible of this data so that it isrelevant and empowering environmental data tocreate truly personalised fit programs and diet plans, as well as review anind educational and most critically, actionable.Ultima prototype that evaluates the utility of gene-lifestyl obsessed, but could also contributeto the preven thus improving overall public health outcomes.	y be attributable to lack of physical a at both diet and exercisewill be key to ing anindividual's genetic predisposi types of diet and exercise are likely ompliance with making healthier life of e. However, there are not reliablement to a wider consumer. The FitnessGen ness and dietary programs. Using a ividual's progress and compliance. The tely, the most significant and high im the based fitness and dietary advice. The	ctivity than obesity, with just a r o tackling this growing problem. tions in combination with their li- to be mosteffective for them. In choices. With the rise of the gen echanisms that will to aid the inter- nes:Tool will create the platform complex and proprietaryalgorith the information presented to cu- pact outcome of this project will this personalised method will no	nodestimprovement having Personalised diets and fitness festyle it is possible to addition, personalisation netic testing industry,personal erpretation and dissemination a that can use genetic and hm, it will identify the required stomers will bepositive, Il be the creationof a novel of just appeal to the fitness

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
SoundVault Ltd	SoundVault - Music Licensing Platform	£274,388	£123,474
Project description - provided by applica	ints		
SoundVault is a global online B2B music licensin buyers) around the globe for use inmovies, TV, ra prototype 4 unique enhancements: 1 ' LicensingE Discovery. Collectively these enhancements will Copyright and creative industries.Project Manage milestone into manageable packets, and to view development phases to the project, with each pha PhaseDescription:Phase 1: Licensing Database.I (Data-mining).R&D: R&D will be carried out by the	adio, gaming, advertising, IPTV, onli Database 2 - B2B2C IPTV licensing s provide the first complete'end-toend' ement: Utilises an Agile Software De incremental progress of eachmembe asebeing subdivided into Manageme Phase 2: IPTV licensing solutionPha	ne and apps. The SMART DP P solution 3 - Mobile playlist and li solution for composers and libra velopment approach enabling u er in the team. Project Deliverab ent, Design, Programming, and se 3: Mobile playlist & licensing	roject will enable SV to icensing solution . 4 -Search & aries, enhancing British is to dividetasks for each les: There are 4 distinct Appraisal tasks.

Note: you can see all Innovate UK-funded projects here https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Peak Analysis and Automation Ltd	PROTEUS & SLAB next generation life science robotics for a better quality of life	£319,711	£143,869
Project description - provided by applica	ants		
There were 8.2m cancer related deaths globally in the UK PA, the ~3% mortalitydue to late diagn Research UK) said: "We know the strain the NH is essential".Adding "Research would indicate we lack of workforce, a lack of kit, to do those tests, (diabetes, depression, dementia, &hyper tension KDTs/PA = ~300k patient KDTs/dayThe fundam tasks a further £15K is required for software + sy carrying outthese tasks is inefficient use of resou throughput & quality.Existing systems are typical KDT instruments & equipment & remove costly '6 key innovations for new automation & integration system will revolutionise diagnostic testing labs i 10K UK citizens	osis(3) is a major problem, equating S is already under & thenumber of pe e do fewer key diagnostic tests (KDT this really does need to be address) which 25% (~15m) of the UK suffer ental issue affecting KDTs in the lab ystems integration, making the £30K to urces. As in any production process, Ily over-engineered for their function onsite' software & integration Peak a in system Our P&P set up is designed	to 10K preventable UK deaths/ eople diagnosed with cancer is) in this country thancomparable ed"(7)KDT's also screen for nu- from (=50% all GP consults, 7 is cost: a small robot costs ~£1 total purchase cost a real issue automation offers theability to in Our focus is creatingplug&play(nalysis & Automation Ltd (PAA) specifically to address the issue	PA(4)Sara Hiom (Cancer increasing - further investment e countries, but there are a merous long term conditions 0% hospitaldays) ~800m 5K forrepetitious un-skilled whilst valuable scientific talent hcrease efficiency, reliability, (P&P) hardware to automate has developed a conceptwith es at <1/3 total cost (£9K)This

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Rare Recruitment Ltd	Potential, Not Polish - Contextual Performance for Graduate Recruitment	£535,381	£240,921
Project description - provided by applica	ints		
UK businesses are missing out on highly qualified private or grammar school education (11pc ofUK jobs(Guardian, 2012). 80pc elite firms recruit grad inefficiencies by artificially restricting the pool of of Recruitment has identified an opportunity to help from contextualisation systemsused by UK univer candidates that have outperformed their environm positions, andhelp employers understand and ad- technology with a basic prototype that requires m Lovells.We now seek funding from Innovate UK t access for SMEs.Since inception in 2005, Rare h Service Fast Stream, Goldman Sachs, L'Oreal ar technologywill help Rare disrupt innovation in the social mobility, workplace diversity, recruitment ef	population). Children born to high p duates from just 19 universities (New candidates, leaving vacancies unfilled companies source young talentidem rsities since 2004. Rare's Contextua nent and haveoutstanding potential f dress the implicit bias that guides the nanualcandidate selection, and we have to automate remaining processes, er has grown to become a multi-award we had 6 of the top 7 UK law firms. Succe e recruitment industry by enabling be	rofessional parents are 20x more w Economics Foundation,2014). d and preventing diversity and s tifying potential rather than polis I Recruitment System enablesc for growth, widening the pool of eir recruitmentdecisions.We have ave secured pilots with Baker&M nabling thetechnology to becom- winning diversity firm withcorpor ssful development and commen	re likely to get high status This bias creates economic ocial mobility.Rare sh, drawing on experience ompanies to identify talent available to fill ve proven the concept of this McKenzie and Hogan e fully scalable and widening rate clients including the Civil rcialisation of this

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Amity Ltd	Pre-Flushing Unit and Semi - Automated High Level Disinfection Endoscope Re-Processing System	£398,761	£179,442
Project description - provided by application	ants	ļ	
Flexible Gastrointestinal (GI) endoscopy is a pre- performed in 2009 and 2012 respectively.Despite blood, secretions and microorganisms increasing whereby (1) Pre-flushing to remove gross contar by (2) manual cleaning in a decontamination roo syringing with water and orthopthalaldehyde, per and sensitisers and root causeof conjunctivitis, a processes are prone to toxic chemical exposure (CTS). AutomatedEndoscope Re-processors (AE expensive and are not affordable by some first, a develop systems to bridge thegap between high formulate their proprietary biodegradable non-tox be realised upon development and exploitation in standards of living and rich diets.	e its efficacy the internal channels of g the risk of exogenous (patient to par inination occurs immediately after use m withdetergents/water/air followed b racetic acid or more commonly glutar isthma and dermatitis. Staff that cont and in addition at high risk ofacquirin ERs) are limiting healthcare worker e all second and all third world countrie risk manual and expensive automate kic HLD concentrate and render it ap	the array of endoscopes routine tient) infection. Decontamination e at bedside using specialised by High Level Disinfect (HLD) by aldehyde. The problem is that t inuously work on manual endosing Repetitive Strain Injury (RSI) xposure to toxic chemicals.How s.Amity state there is an unmetted endoscope re-processing met plicable for the proposed device	ely get contaminated with on is a two stage process rushes & syringes; preceded y cycles of soaking and hese chemicals are irritants scopedecontamination and Carpal Tunnel Syndrome vever, AERs are very global business opportunity to ethods.Amity will also re- es. Significant revenues could

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
SofMat Ltd	Development of Prototype to respond to industry feedback requesting sequential covert marking techniques & methods of on-site verification and to raise the TRL of the SofMat product for investment & commercialisation	£470,014	£211,506

Project description - provided by applicants

The problem of counterfeit products has been well documented in the press for a number of years. The most recent case of counterfeit cosmetics containing arsenic amongst othercontaminants was reported in May 2015. The SofMat product allows for sequential covertmarking of products to produce a unique code and the verification of authenticity throughoutthe supply chain. The product also links in with, and augments, the Track and Trace technology that is currently being implemented by the pharmaceutical industry by adding anextra layer of security to the system. This technology adds an item specific code to each component marked that links with a master database for added security & ease verification by the client. The SofMat product can also be linked with any individual company markingsystem, again to increase security but also to make the product unique to that company. Theuse of the SofMat product is not limited to the cosmetic and pharmaceutical sectors although these are the initial target markets. The marking technology has had interest from the highvalue and medium value watch markets, producers of containers and closures, automotive, aerospace and drinks markets. The time for copying most existing anti-counterfeittechnologies is less than 18 months. However the SofMat technology provides a greaterdegree of security by producing a larger number of variables, for example a 7.5mm and0.5mm array can be used to mark and uniquely identify above 10 billion parts or components. The marking system is backed up with a bespoke hand held reader that can be tailored to beunique to each end user and allows confirmation of authenticity throughout the supply chain

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Surecore Ltd	State-of-the-Art Low Power Memory for Battery Powered Applications	£591,533	£250,000
Project description - provided by applica	ants		
The crux of this application is to develop extreme latest 40nm Low Power process(40ULP) availabl reducing concepts save up to 60% active power has beenspecifically developed for portable, mot SureCore is to become a leading vendor of Static bysemiconductor product suppliers. In order to a is the purpose of this application.SRAM memory electronic products and will occupy up to 70% of into theirmobile devices. However battery techno which can consume up to 70% of batterypower w has reached the end of the road; a rethink of the of the internal memoryarchitecture without chang technology has attracted the attention of many g beproven on the new 40ULP process. This project	le from the leading global silicon fou compared with 6 rivalsolutions in ar bile, wearable, and energy scavengi cRandom Access Memory (SRAM) chieve this, the power saving techni is a key IP block essential to the de SoC silicon area by2017. This grow blogy continues to lag consumer exp when active. The industry's approach memory architecture is required. The ging the external interfaces and with lobalsemiconductor companies who	indry, TSMC. SureCore have alre independent test. The new 40U ng products wherebattery life is I IP for integration into System on iques mustbe proven on real silic evelopment of SoC devices found with is driven by consumer deman bectations; integrating more function in to date has been to reduce bat he secret of SureCore's power sa minimal change inperformance.	eadyproven their power ILP process released by TSMC key. The objective for Chip (SoC) devices con on the target process. This d in themajority of modern d for more features integrated ionality means more memory tery voltage but thisapproach aving technology is a re-design SureCore's low power memory erest if the benefits can

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Transfiniti Ltd	Development of a new Infinitely	£329,480	£148,266
	Variable Transmission (IVT)		
Project description - provided by applica	ints		
The Project is to research, develop, manufacture Automotive and Industrial applications. The crucia Multiple variable speed inputs and outputs are ea the rear differential / Transaxle. Themajor advant driven in all dynamic conditions, it also has the ca inner wheel can be speedreduced and the outer situations such as snow / ice and other hazardou incertain applications the transmission is easily c that a vehicle could turn within itsown footprint, a commonality and a fewer number of components	al operating characteristics are as fol asily achievable, so the System can be tages being that each wheel can be apability to dramatically improve the w wheel speed increased to account for s driving conditions both wheels are apable of providing forward motion of s is often advantageous with Track a	lows:-Infinitely variable speed in easily beadapted to act as both, electronically speed controlled a rehicle handling especially for e or the varying distance in the tra positively driven improving vehicle on oneoutput whilst providing re- and Military vehicles The trans	h both forward and reverse the Vehicle transmission and and positively /negatively .g. during cornering, as the ckexperienced. In low traction cle traction. Furthermore verse motion on the other, so mission has a high
naturally adjusts for any wear in the contact elem least20% fuel or electric savings, along with incre dispense with the ABSbraking system. Furthermore gearbox can provide. Kinetic energy recovery car	eased vehicle performanceControlle ore in Electrically driven vehicles reg	ed braking is possible on each v enerative braking can beoptimis	vheel, and can be possibly

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Power Drive Efficiency Ltd	Preparing an AC electric motor controller for market: An energy saving motor controller requires industrialisation and product range extension prior to market entry.	£248,643	£100,000

Project description - provided by applicants

Power Drive Efficiency have developed an energy saving drive for three phase AC inductionmotors. The drive addresses fixed speed variable load motor applications such as conveyors. Such applications are currently limited in energy efficient solutions. PDE's drive in apreliminary concrete mixing application demonstrated an average energy saving of 43%. Toconduct a secondary pilot over a longer time frame, the drive requires redesign to meet CEand EU certification. In addition the redesign will consider efficiency of manufacture at largervolumes, in preparation for commercial production. The drive currently exists in one size (75kW). For PDE's technological benefits to reach agreater market the redesign will cover an additional 9 drives sizes (11kW ' 315 kW). Itshould be understood the principles of the drives design will be constant across scale howeverappropriate certification must be acquired for all drive sizes before being viable forcommercial pilots.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Boldmind Ltd	Flow.City - Novel Digital Signage Big Data Solution for High Street Retail	£557,449	£250,000
Project description - provided by applica	ants		
The UK high street is decline, 1 in 5 shops could (increase of 20% since 2006, comparedto 12%) have doubled since 2008 (from 5% to 10%); clos street jobs lost in 2014.For high street retailers to from £7.8bn in 2005to £52bn in 2015) the gap be byExperian & McKinsey suggest that exploiting to (Displays2Go, NV3 Tech). Limitations: no remote advance & thus may beirrelevant/outdated upon scheduling of content.2. Retail analytics (Retail N upselling rather than obtaining new custom.Bolde digital signage with supporting big data platform content& design can be altered in real-time enab has been shown in PoC trials which resulted in a itsu.This project will advance Flow.City from current	& increasingly customers turn online sures of high street stores havetripled oremain competitive & prevent domin etweenoperating cost & consumer sp ech innovation is key to securing con e operation; inflexible - noreal-time ad release; no hyperlocal marketing; & Next, Experian & Nomi). Limitations: n mind Ltd seek to address the need for & AI software.Advantages over exist ling responsive marketing & dynamic 400%increase in table bookings for	e for shopping. Impact on UK ed d (from 371 closures in 2013 to nance of online retail (growthof bending must be closed by impro nmercialgains.Existing solutions djustment of ads; campaigns m no dynamic pricing or artificialin no marketing suggestions, noda or improved digital ad tech via d ing tech: big data exploitation g c prising basedon big data.The Club Lounge Restaurant & a re	conomy: storevacancy rates 987 in 2014); & 5000 high ~650% over the past 10 years oving profit margins. Studies s:1. Digital signage ust be planned ~3 months in telligence (AI) based ata sharing & focus is on evelopment ofFlow.City - nove enerates hyperlocal insight; ac potential impact of Flow.City venue increase of 22% for

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
TQC Ltd	Micro Application Leak Tester (MALT)	£133,435	£60,046
Project description - provided by applica	ints		
Recent times have seen progressive miniaturisat quality assurance for leak characteristics.Exampl cartridges, lab on a chip devices, and medical via sealed parts. Existingsolutions are bulky, impreci Application LeakTesting module (MALT). The MA MALT module uses differential pressure decay an instruments. TQC's engineersachieved this at a la in two distinct industrial assembly and leak testing prototype into a general purpose microapplication developments are: create pneumatic micro circuit integrate a shock filling function for testing semi-f redesign the electronics to SMT to further reduce MALT becomes an Internetof Things device acce approval standards, IP rating enclosurerating enclosure	es are in small medical devices e.g. als. Non-medical applicationsinclude se, or very expensive.TQC develope ALT is designed to minimise internal nd can detect leaks by an order ofme ower unit cost than existing solutions g applications, validating the proof of ns leak test unit, and to enhance its of try and control for leak testing herme flexible parts include functions to aut the size and production costs enha essible remotely and by Cloud servic	small drug dosing pumps, swal in-tyre pressure sensors, electre ed a pre-prototype high-precisio volumes below onetenth of com agnitude more sensitively than a Bespoke versions of the proto concept. The challenge remains capabilities for a broader range etically sealed parts build a vacu comatically calculate the test vol- nce the user-interface and com es ensure regulatory compliance	llowable cameras, diagnostic rical sensors and hermetically n compact low cost Micro nparable instruments. The other pressure decay leak test otypeare successfully deployed s to convert the initial of applications. Further uum micro-leak tester variant lume and set the test pressure munications software so that

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
	Radar Sensor Capable of Detecting Small Low and Slow UAV (Drones)	£555,955	£194,584
Project description - provided by applica	nts		
UAVs are becoming an increasing feature within or Unfortunately bad press also surrounds UAVs with the private lives of members of the public. Looking an efficient air 'borne postal service. Therefore for future. The problem for security organisations and system which can allow desistaction to be instigate identified this problem as a business opportunity a Radar that willmeet the needs of security and reg themovement of UAVs using Aveillant's unique He security organisations to react with whateverdesise the Holographic Radar UAV sensor means that the any deviations. In instances where the operator of detainment while the UAV is still in flight. The bus	their use by terrorist organisations, g to the future certain large corporate many reasons it is highly unlikely the d regulators of controlled airspace to ted where necessary or alternatively and this project willprove that Aveilla ulation. This project will develop a pro- olographic Radar technology. Detects at action is required before the UAV the regulators will be able to ensure the the UAV is acting illegally the sense	, as a nuisance for airport safety tions, notably Google, are triallin nat the growth in UAV usage wil o date has been the lack of an er to allow regulation of the opera ant can develop a surveillance s rototype UAV sensor that is cap stion willtake place in a timely er is able to reach its intended des nat the UAVs are flying in pre- a or will provide the track back to	y and their ability to intrudeon g the use of UAVs to provide I decline inthe foreseeable effective UAV monitoring ation ofUAVs. Aveillant have ystem using Holographic able of detection and tracking hough fashion to enable stination. The trackingability of greed flight paths and track theoperator to aid their

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Advanced Blast & Ballistic Systems Ltd	VAFS Vehicle Active Floor and	£667,247	£250,000
	Seat System		
Project description - provided by applic	cants		
Whilst there is currently no effective response t mine protected military vehicles arenow heavily armouring presents logistical problems particula capacities, excessive fuel consumption, and rec weight penalty particularly for reconnaissance a afast reaction ballistic motor to stabilise the floo Global Acceleration (VGA) of thevehicle in the Floor and Seat (VAFS) system together with lig system for agilearmoured vehicles and SUV's f	y 'up armoured' with 'V' shaped hulls to arly for military vehiclessuch as the in duction in speed and manoeuvrability a andspecial forces vehicles are now be or during the first phase of the mine bl second high impulse phase of the bla htweight composite woundLRM's to c	o divert the blast from the vehicl ability to cross weak or light brid and alternativeactive mine prote bing sought. ABBS has patented last andnovel Linear Rocket Mod st. We propose to develop and	e belly.Unfortunately up lges, exceeding helicopter lift ction solutions with a low an active system based on for (LRM) to counteract Vertica demonstratethe Vehicle Active

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Fantoo Ltd	Artificial Intelligence for email Messaging (AIM)	£555,016	£249,757
Project description - provided by applica	nts		
UK work output is 25% below G7 average, and w subsequent poor productivity (Forbes, 2014).Day £70 billion each year (Huffington Post, 2014).Pro 113 billion business emails are sent globally ever lack of productivity andinefficiencies associated w average of 121 emails daily and spend 28% of th 36times/hr) and 45% feel pressured to respond ir damaging UK productivity and reducingquality of email' campaign in which the company banned in increased operatingmargins by 15% (Forbes, 201 globallyrecognisedthought leaders in the B2B em Language Processing (NLP) to resolveemail over	s off due to stress related conditions fessor Gloria Mark (University of Ca y day, and workers struggle with the vith email cost the global economy £ eir timewith email. 40% of UK office mmediately, resulting in stress and fi life. Industry accepts email as a pro ternal emails, therebyreducing the k 15).Funded by an Innovate UK Sman ail sector to prove the concept of its	s have risen over the past 3 yea lifornia) contends email overloa edemand. Annual global losses 1.2 tn (Radicati, 2014).In the U workers feel under constant pro- rustration.As Professor Cary Co blem (Gartner, 2015), as seen i bad by 60%. According to Forber rt Proof of Concept project, Fan innovativesolution using Machi	rs, now costing UKbusiness d is a top ten stressor.Over incurred by businesses due to K, office workers receive on essure to check email (up to poper clearly states, email is n Atos' awardwinning'Zero es magazine, this measure too worked with ne Learning (ML) and Natural

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Medstrom Ltd	AeroPlus Pressure Ulcer Care Recliner device for Plus sized users	£249,121	£87,192
Project description - provided by applica	ints		
Pressure ulcers (PUs) develop when pressure, sh down the skin & underlying tissue. In theUK >700 developing PUs, specifically elderly or'plus sized' metabolicneeds and different adipose tissue com sized people (2,5).Plus size people often use a re breathing (Muir and Rush,19).Currently, there are intrinsic microclimate control properties. In this 18 overlayproject (ML720552) to develop a prototype maintaining optimal skin condition.The AeroSpace from an innovative, 3D-knit spacer fabric, this ena with a moisturevapourpermeable fabric that enab features are unique in this type of device.Conserv AeroSpacer Plus (AS+) within 5 years of project of saving of £5.2M per year would bederived for the	0,000 people per year are affected by people (alsodefined as obese, more position. The impact of excessive m ecliner as their main domestic furnitu e no commercially available pressure 3 month, £249kDevelopment of Prote that deals with the very different ne er mattress provides microclimate co ables transfer of air viapatient mover les moisture to move away from the vative sales projections indicate that close; if the AS+ prevented PU formation	y PUs costing the NHS £2.8Bn bidly obese or bariatric) with red oisture and heat atthe skin is of re for rest & sleep, as lyingflat e redistributing devices (PRDs) otype project, Medstrom will lea eeds of plussize people, providi ontrol due to its pressure-relieving nent or when air is driven air th skin. The entire unitbenefits fro 9% of all Bariatric Recliners co	pa.(1)Many people at risk of luced mobility, increased f particular concern for plus may compromise their resting for useon Recliners that have arn from the TSB AeroSpacer ng pressure reduction and ng corebeing manufactured rough it. The core is covered on being fully washable. These uld be fitted withan

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Bull Products Ltd	Advanced low power wireless fire detection system	£584,255	£250,000
Project description - provided by applica	ints		
Fire safety is a top priority for all business/proper Regulatory Reform & ConstructionProduct Regul has risen, resulting in a global FPS market project requiring extensive cablingbetween the control pattech advancements, innovations within the comm beginningto compete; however major tech limitation intensive with high power consumption thus they solutions. They are restricted in connection range monitoring capability meaning frequent checks & sector & in response to demand from existing cus meet EN54) of a truly wireless, ultra-lowpower fir systems. Innovative communications tech will allo boosters) & will include a novel & patented intrude housing associations & retail through astrong existing	lations 2011, demand for advanced f cted to reach \$79.18bnby 2020.The anel & fire detection devices. Installa nunicationsindustry & the gov. drive t ions are preventing widespread adop usepower boosters in order to meet creating transmission issues betwee maintenance.As an existing manufa- stomers, Bull Products Ltd (BPL) see e alarm system, with additional secu ow significantlyimproved range, relia er alarm to provide a security aspect	ire protection systems (FPS) the majority of fire alarm systems for tion is complex & expensive & so owards smart buildings; wireles obtion & consumerconfidence e.g. required standards, resulting in en detection devices& Control F cturer & supplier of fire safety e k to develop avalidated works-li rity capability, that overcomes t bility, flexibility & overcome pow . BPL willinitially target large bu	at complywith EN54 standards or large buildings are wired, systems are inflexible. Due to as fire alarm systems are g. systems are energy inflexible'hybrid' Panel & have lack of remote quipment to the construction ike''looks-like' prototype (to he majorlimitations of existing ver restrictions (no need for

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Dyteqta Ltd	SonarTeq - Dyteqta Limited	£532,302	£239,535
Project description - provided by application	ints		
The NHS creates 34.4m cubic metres of sewage by 2.5% per employee eachyear till 2016 (Dept of However, these new systems are insufficient to of designed forgreater flow rates, leading to cloggin now use paper bedpan macerators which use 90 macerators place an extraburden on ageing was use (Water UK, 2014).Failed drainage causes of between poor drainage and number of superbug over£10m/yr in compensation to people who con Teq, which detects failed trap seals and blockage isdetected, the system sends multiple, powerful of pipes to clear the blockages.Dyteqta has develop commercially. Dyteqta must make a more compa- to the NHSthat Sonar-Teq will prevent blockages	of Health, 2014). To meet these of traw waste awayfrom the building of or plugging of the drainlines an % less energy per cyclethan was tewater systems, increasing the ri- verflow, backups, bacterial growth infections.Infections acquired in h tract superbug infections in hospit es inwastewater pipes by sending waves of water dosed with additive bed a lab prototype of Sonar-Teq, act system that issimpler, more aff	bligations, hospitals are installing us s through existing drainlines whose d expensive clean-outcosts (Verite hing systems (Haigh Medical, 2018 sk of pipe blockages. Water UK has and dangerous risks of infectiona hospitals kill 6.5K in the UK annual cals (Telegraph, 2012).Dyteqta has a sonar wave down the drainage es (enzymes, foams, ionised water which is currently too large, exper ordable and less complex to insta	Itralow-flush (ULF) toilets. e size, length, and slope were ec, 2005).85% of UK hospitals 5). However, bedpan asrecommend banning their nd there is a correlation ly, and the NHS pays out proven the concept of Sonar system. Once a blockage , degreasers) through the nsiveand complex to install II. Dyteqta also needs to prov

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Unison Ltd	Unison Integrated Fibre Laser and PKM Machine	£600,032	£250,000
Project description - provided by applica	ints	•	
Established in 1973, Unison Limited has built a s end of the tube market wheresignificant savings Automotive Industries.Due to the ongoing need f manufacturing, it is essential for machine supplie develop a new machiningprocess for the handling integrate new and known technologies to develop accuracy.The project intends to utilise the new ge with the accuracy and rigidity of a CNCgantry ma technology. This will negate the need for costly re synchronise two separate axissystems. Also, the perform many different operations in the same w development of such a machine should enable U of the machine will reduce thenumber of stations space footprint and number of operators required	can be made when using exotic mate or all component manufacturers to re- ers to constantly updateand develop to g, fibre laser cutting, machining and o a single machinewith multipurpose eneration of 5 axis Parallel Kinematic achine in combination with an advance otating and advancing chuck unitsan PKM machine has the capability to book ork station withoutthe need to move inison's customers to achieve a redu required to achieve numerous operation	erials as used in the Aerospace educe and if possible, eliminate their products to meet the mark processing of large diameter tu functionality avoiding unnecess c Machining(PKM) machines that ced development of Unison's tul d increase accuracy as there w be able to use interchangeable or reposition the work piece, pr ctionin costs per operation while ations. This in turn will reduce p	Marine, Oil & Gas and costs, aiming for lean et needs. Unison aim to bes.The project intention is to sary handling and improving at have the flexibility of a robot be bendingmachine ill be no need to integrate and endeffectors allowing it to oviding additional options.The st increasing the functionality

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Navtech Radar Ltd	Low-cost multipurpose radar sensor for Industrial Automation market	£150,578	£67,760
Project description - provided by applic	ants		
Navtech Radar is a world-leading innovator and solutions. Their ground-breakingtechnology is u to Traffic Incident Detection. Navtech has harne the mostexacting quality and standards.Renowr for products that are high performance and extr are vital.This project aims to develop yet an and specifically on the mining industry.	tilised by clients across many industr essed the power of thelatest technologied for investing heavily in innovation emely reliable. The systems are often	y sectors, from Security Surveill gy for commercial applications a and R&D, Navtech Radar has e used in mission-critical applicat	ance andIndustrial Automatior at a fraction of the cost, and to earned anunrivalled reputation ions where safety and security

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Aston-Corp Vision Ltd	CreditVista: the corporate credit data platform	£549,401	£247,230
Project description - provided by application	ants		
Business lenders ' both institutional and peer to have largely proven inadequate forassessing con allocated and as a result certain corporates are n grantedundeserved, excessive credit. Even more monitoring systems and practices havefailed to a prototype platform as a service that captures, stru- credit analysis expertise with the aim to material therefore optimize theprovision of corporate cred	rporate credit risk. Because critical find not able to accessfunding despite be e importantly, following the initial cre accurately monitor counterparties' cr uctures and contextualizes decision- ly improve the quality of theinformati	inancial data are overlooked, bu eing potentially solid borrowers w dit sanctioningand provision of f edit risk.This project is about the critical information and data leve	sinesslending is not efficiently while other companies are unding, lenders' existing credit development of a novel eraging newtechnologies and

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
The SpineCorporation Ltd	TechnoSpine Adult Scoliosis Bracing Technology	£379,362	£170,711
Project description - provided by application	ants		
There are two main types of adult scoliosis. The lumbar & thoracolumbar spine. Denovo scoliosis causing predominantly back pain symptoms, ofte childhoodidiopathic scoliosis that continues into a imbalance & postural collapse. Adult scoliosisma surgery called latrogenic scoliosis or adult acquir treating Adult Scoliosis haschanged little over the support but also cause loss of movement or imm under developmentby SPINECOR is a system th intervertebral discs, ligaments & muscles in orde enabling the patientto carry out a normal active li	occurs due to asymmetrical degen en accompanied bysigns of central of adult life becoming problematic as in by also occur due to trauma (obtained red neuromuscular conditionssuch a be yrs & has generally focused on rig obilisation which overtime causes of at counteracts the assymetrical for r to prevent furtherdamage & to red	eration of the intervertebral discs or lateral spinal stenosis. The sec t progressesthrough degeneratio ed through either a high impact e as Parkinsons Disease & Multiple gid bracing technology or semi rig de-conditioning & atrophy of the s ces bearing downwards ontothe r	&/orzygapopophyseal joints, cond type of scoliosis is from n or long standing spinal vent or throughosteoporosis) e Sclerosis. Current art in gidsystems that provide spinal muscles. The concept mal-aligned vertebrae,

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
	ECO-I LTD – DOP (Development of Prototype) of a Universal embedded intelligent BMS Controller on a Single PCB	£540,303	£243,136

Project description - provided by applicants

A BMS (Building Management System) plays an important safety function, controlling,monitoring, optimising, and reporting on facilities (ventilation, lighting, power, fire, security),as well as giving owners ability to optimise comfort/efficiency. Systems linked to BMSrepresent on average 55% of a building's energy usage. BMS comprises software+ hardware;leading to global opportunities for products and services. This \$30bn industry employs over 0.5m staff and serves 150 countries. Over 10000 UKcompanies operate in this market. Almost every industrial and domestic building has at leastone BMS Controller - a purpose-built unit that manages data (temperature, humidity, pressure,current, etc) which it uses to communicate instructions to BMS devices.Products that reduce energy and carbon emissions in buildings will be in increasing demand.Europe's Energy 2020 document and Lisbon Treaty states 'Energy efficiency is a keypriority' and 'the price of failure is too high'. Europe's Energy Performance of BuildingsDirective (EPBD) targets enhancement opportunities at building controllers. Further, theDisplay Energy Certificates (DEC), Carbon Reduction Credits (CRC), BREEAM andIS016001, all require the use of a BMS ' supporting estimates that the UK Energy market willreach £200bn by 2020 from £43bn now. BSEN 15232 was created to measure impact of intelligent building controls on energy in buildings - expected mandatory in future.This project addresses these problems. Following two successfully funded TSB grants (POMand POC - File Refs 700289 and 710518 respectively), we address the problems bydeveloping a DOP Stage'Universal Controller that maximises interchangeability amongstBMS equipment, requires no wiring, no dedicated'expert', uses common software, andmaximises interoperability via the cloud. A low-cost'Plug and Play' approach has beenidentified, based on SmartPhone tech that could satisfy current /future needs, and opensignificant \$bn markets.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Massive Analytic Ltd	Video Precognition	£369,744	£166,384
Project description - provided by application	ants	•	
Founded in 2010, Massive Analytic is a London-I big data and predictive analytics.Holding core pat the novel software platform Oscar AP.This project Surveillance videos can be monitored automatica required. This allows crowdmanagers and emerge capability to capture relevant informationfrom vide monitor a limited number of screens and their relevant automatic video analytic solutions isalso limited, techniques in data science and, by approaching videoprecognition. This demonstration system is people.To develop the system to a prototype that thousands of hours of videos and trained to reco datasolutions to deliver an innovative, robust and systems.	tents for artificial precognition, N ct aims to transform video analy ally in real time, triggering alerts gency services to target resource leo streams in real time, given th liability decreases dramatically a with high rates of false alarms a videoanalytics in an entirely new able to predict when a fight is a t can be used to engage with cli- gnise alarge array of different b	A seek to disrupt the way we intera- tics by making it possible to predict tobe sent to response teams such a se effectively.Current video analytic he increasing size of data streams. He fter20 minutes continuous monitorin nd missed events.Massive Analytic way, have succeeded in demonstra- bout to break outin a crowd, or identi- ents, the system willneed to be scal- chaviours. Massive Analytic will use	act withdata, realised through likely eventoutcomes. as emergency services as solutions are limited by their duman operatorscan only ag. The performance of have applied the latest ating the concept of tify a car driving amongst the ed to be able to process their expertise in big

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