

Innovate UK

Results of Competition: UK-Singapore: technologies for smart urbanisation
Competition Code: 1510_FS_INT_SING

Total available funding for this competition was £300K from BIS

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
Super Local Ltd (T/A Signalbox)	Signalbox Urban API: ubiquitous positioning for smart cities	£35,556	£24,889
Project description - provided by applicants			
<p>Location underpins the operation of a vast range of smart city applications. Examples include real-time transport apps and mapping applications, guidance systems for people with sight loss, satnav systems for vehicles, high-value asset tracking systems, emergency response systems, and parking apps. Currently these applications rely on satellite systems such as GPS to determine their position. Yet in many urban areas satellite signals are disrupted, leading to a poor location accuracy, or no position at all. Therefore, there is a need for alternative technologies that can supplement GPS to allow location everywhere all the time' so called 'ubiquitous positioning'. Signalbox Urban API is a product that provides ubiquitous positioning across entire urban areas - delivering pinpoint city-wide positioning and location-based triggering for IoT objects and nomadic devices. For this study, we will analyse the systems performance in Singapore, and foster partnerships with third-party product manufacturers to help us address the Asian market.</p>			

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Flock Ltd	Flock: BigData algorithm to minimise and regulate Drone population disturbance in Cities	£22,630	£15,841
Project description - provided by applicants			
Drones will soon make our cities more efficient, but in order make them fly in urbanised areas we need to address the issues around this technology, such as privacy, noise pollution or accident and collision risks. The algorithm the Flock has already prototyped uses big data and the IoT sensing network to quantify and minimise the risks of drones flying over citizens real time. The technology can be useful for operators, citizens, regulatory bodies, insurance companies, etc and offer many tangential benefits to the overall urban infrastructure. This technology will make drones empathetic. Flock will make drones understand humans, making machines more respectful towards the ones that matter the most, us.			

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CarTap Ltd	CarTap - Technical Feasibility	£35,600	£24,920
Project description - provided by applicants			
<p>CarTap is the first peer-to-peer carsharing system for hybrid and electric vehicles. With CarTap, car owners will be able to purchase hybrid and electric vehicles and rent them to colleagues and friends during unused periods to pay off financing and operating costs, like battery leasing costs. Through a smart scheduling system and real-time telematics from connected cars, CarTap aims to provide a distributed supply of low-cost, clean, vehicles across the urban space. This project is to develop the CarTap software prototype for connection with in-car hardware systems which can communicate with the cloud. CarTap collaborates with Singaporean companies involved in the in-car hardware space to produce a fully functional prototype for testing on a hybrid vehicle.</p>			

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Iotics Ltd	Long Range Health Monitoring Wearables using Dash7 Standard (LoRaH-D7)	£33,180	£23,226
Project description - provided by applicants			
LoRaH-D7 is a feasibility study by Iotics Ltd to investigate the use of DASH7 open standard in remote health care monitoring. The project aims to develop an early-stage wearable prototype that periodically monitors the patient's heart rate and transmits the data to long-range base stations. High radio penetration power in urban environments, multi-year battery performance and multi kilometre range without the need of mobile phones, Bluetooth or wifi gateways are some advantages of using DASH7 in remote health and activity monitoring. The project is funded by InnovateUK for 2 months through "UK-Singapore: technologies for smart urbanisation" competition. Field trials and proof-of-principle demonstrations will be conducted in Singapore's OneNorth test bed.			

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Inavya Ventures Ltd	CityZen	£35,750	£25,000
Project description - provided by applicants			
CityZen aims to research and develop a machine learning technology platform that to deliver highly personalised and contextual mobile-based services for people living in city environments, with an initial focus on developing transformational approaches to advanced mobile healthcare delivery (e.g. heart monitoring) and activities of daily living, such as shopping, eating and exercise.			

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Trusted Renewables Ltd	Innovative 5G services for Smart Vertical Cities	£35,714	£25,000
Project description - provided by applicants			
In January 2015 the Straits Times reported that new 5G mobile developments are being shaped in Singapore, where lack of space means building a 'Vertical City' upwards. This supports their drive to become a smart nation. 'Mainstream' 5G will have very large capacity, high throughput and ultra-low latency. However, new IoT services will involve masses of secure low-power Machine-to-Machine (M2M) devices which need very little of this capacity to send data to a hub. We will hold workshops with our Singapore partners to explore how these requirements interplay with business cases of key stakeholders to justify investment in smart 5G infrastructure. We think new 5G standards may emerge to support different business models and value-chain players. Our team has considerable international R&D expertise covering all cutting edge technologies including Mobile, Wireless, M2M, IoT, Cyber Security, and Smart Energy.			

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C-Tech Innovation Ltd	SingAir	£26,105	£15,663
Project description - provided by applicants			
Awaiting Public Project Summary			

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The Bio Nano Centre Ltd	Smart Water: Feasibility study to demonstrate the Water Reuse Network (WReN) Decision Support System in Singapore	£36,390	£25,000
Project description - provided by applicants			
<p>The smart reuse of "greywater" from showers, wash basins and laundry for non-drinking uses such as toilet-flushing and irrigation in the garden has been shown to reduce water bills by up to 40%. Consequently, there is much interest in this technology, especially in highly-populated urban areas. Singapore is one such area. Bio Nano Consulting has recently developed a software program called WReN which helps urban designers calculate the cost/benefit ratio of proposed greywater recycling systems 'this is the first such software program that provides this level of detailed analysis. In this project we will meet with experts in Singapore to understand the specific issues with water reuse there and will find a suitable industrial park or housing complex which will act as a testbed for a follow-up study to demonstrate the WReN system in a real-world setting with actual data. This will help speed the development of new water reuse systems in Singapore and help that country save one of its precious and limited resources.</p>			

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ScienceScope Ltd	Buggy Air in Singapore	£35,714	£25,000
Project description - provided by applicants			
ScienceScope is currently working with partners IOTA and Virtual technologies to develop the Buggy Airdevice, a personal air quality monitoring system which is aimed at being attached to children's buggies as they are pushed around city streets. This project's aims are, to establish whether there is a market for a similar device in Singapore, the size of the market and an appropriate device specification.			

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Enviromatique Ltd	Can/bottle crusher minimising the volume of household waste	£31,562	£22,093
Project description - provided by applicants			
The company is developing a domestic can/bottle crusing device significantly minimising the volume ofhousehold waste. The device is aimed at Singapore market considering country's land constrains that gives arise to the need of more efficient waste management systems and recycling promotion			

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