

# Innovate UK

**Results of Competition: Shanghai-UK Industrial Challenge Programme - Future Cities**

**Competition Code: 1704\_IS\_SHANGUK\_FC**

**Total available funding is £10M**

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

<b>Participant organisation names</b>	<b>Project title</b>	<b>Proposed project costs</b>	<b>Proposed project grant</b>
<b>MatSurf Ltd</b>	Developing Bulk Low-Cost Smart Carbons for a Safer and Healthier Environment	£322,659	£225,861
City University of London		£96,088	£96,088
<b>Project description - provided by applicants</b>			
We at MatSurf Ltd (UK) along with our partner in China, XinKe Environmental Engineering (Shanghai) Co., Ltd., are developing new systems and strategies which address the growing global problems of pollution which are associated with highly developed consumer societies and which are at their worst in cities such as Shanghai and Beijing where atmospheric pollution (smog) and to a lesser extent, water pollution are critical obstacles to health and quality of life (the average air pollution level in Beijing corresponds to the worst situations ever encountered in London when all traffic is grid-locked on a warm, still afternoon). We are using new biomass derived green technologies in the form of high flow rate filter elements, coupled in some instances with surface treatments and active noble metal nano structures which break-down pollutants to deliver a new range of smart filter systems to address problems such as car exhaust and factory effluent. Our project promises a cleaner and healthier environment to live in plus new jobs in the UK and high-tech exports.			

**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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<b>VRM Technology Limited</b>	Green Infrastructure Assets in Urban Heat Island (GIAUrban)	£442,903	£310,032
Leeds Beckett University		£94,474	£94,474
University of Hull		£94,287	£94,287
<b>Project description - provided by applicants</b>			
<p>The health of millions of people in cities globally is being significantly affected by increasing air temperature. This process, termed the Urban heat island (UHI) effect, could affect billions of people in the future if forecasted increases in population, urban migration and global warming are all realised. UHI effects are highly site specific therefore an assessment of potential mitigation strategies must be carried out using local research. There is therefore an urgent need for a low cost methodology for mitigating the effects of UHI effects. The use of vegetation in cities offers a potential solution as the vegetation provides shade and also as water evaporation not only cools the plants but the air around them. Use of vegetation, termed Green infrastructure assets (GIAs), therefore offer a potential low cost strategy for mitigation of UHI impacts and would significantly help improve the quality of life for urban citizens. There is however limited data available relating to the localised performance of GIAs in UHIs and even less of this type of data is available to the citizens adversely affected. This project seeks to apply a low-cost, flexible methodology that integrates a variety of novel imaging sensors with real-time environmental data to enable quantification of the effects of different GIA layouts. )</p>			

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