

# Innovate UK

**Results of Competition: Protecting Data in Industry**  
**Competition Code: 1503\_CRD2\_DIGS\_PRODAT**

**Total available funding for this competition was £4M from Innovate UK**

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Double Negative Ltd The Framestone Ltd Milk Visual Effects Ltd Moving Picture Company Ltd (The) Sohonet Ltd	CISE: Creative Industries Security Environment	£739,230	£400,795
<b>Project description - provided by applicants</b>			
<p>CISE is a one-year project designed to create a cross-industry digital security environment with an extensible,pluggable framework, to protect the UK's companies making movies, TV, commercials, games, on-line andimmersive media.The goal is to create a'digital immune system' for media companies, which will constantly watch for and warnagainst both internal and external security threats, tailor security systems automatically to meet clientrequirements and threat levels, and immediately shut down and repair systems should any breach occur. Theoutputs will be Open Source security toolkits and templates; a managed security service from Sohonet basedon Open Standards; a draft security specification for the digital media industries; and best practice guidance.The consortium brings together the UK's three largest media facilities / VFX houses, together with Sohonet 'the pioneering professional community-of-interest network for the television, film and media productionindustry ' and an SME facility house.</p>			

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Cisco International Ltd Asset Mapping Ltd Johnson Controls Building Efficiency UK Ltd	aSSURE - Secure Sensor Use in Real-world Environments	£749,389	£390,371
<b>Project description - provided by applicants</b>			
The objective of the project is to develop a lifecycle management approach for IoT data security. No single approach will be able to address the breadth of IoT end devices and use cases. To address this gap, a framework will be developed from the ground up, enabling different approaches based on the class of device being connected. The project will deliver a proof-of-concept architecture for the least-cost, lowest-power sensor class, and test this in a lab setting. This architecture will then be extended and generalised for more sophisticated classes of IoT sensors and devices. To date alternative approaches to protecting IoT data in industry have solely focused on single-supplier, single-time security instances. No common approach has been developed that reflects the lifecycle of embedded IoT devices with expected usefulness of up to two decades. This project will bridge this gap, addressing a critical barrier for IoT adoption ultimately strengthening businesses relying on IoT.			

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<b>AIMES Grid Services CIC</b> Metrarc Ltd University of Southampton	ASSURED - Automated Security for Supplier-User Reference-models in E-health Data	£549,600	£393,609
<b>Project description - provided by applicants</b>			
The ASSURED project aims to radically transform the secure access to health data in the UK and as a result accelerate innovation within the healthcare digital supply chain. ASSURED will speed up the process by which new digital services are adopted within healthcare and will simultaneously reduce security risks associated with the management of personal health data. The project will combine N3 aggregation, security risk modelling and device compliance and monitoring techniques to create a new platform which will reduce the time taken to deploy digital services into the NHS by an order of magnitude. The ASSURED project is collaborative, business led bringing together a leading UK digital health innovator AIMES and leading data security technologists from Metrarc and the University of Southampton IT Innovation Centre.			

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<b>Intelligent Voice Ltd</b> University of Reading City University London	Privacy preserving speech processing in the cloud	£729,454	£525,113
<b>Project description - provided by applicants</b>			
<p>The project will enable the processing of fully encrypted telephone data to facilitate secure voice conversations in the cloud, or locally, such that only the end-user has access to the results. A user will be able to store, search and convert to text any audio of telephone file in a way that cannot be intercepted or interfered with by a cloud provider, or any third party in the transmission chain. Currently, a user has the choice of fully encrypting their voice data for transmission and storage, or transmitting it "in clear". However, each choice involves a compromise: The secure communication cannot be searched or processed using the processing power available in the cloud whereas the unencrypted communication can be processed into text, or made searchable for mass off-site storage but this compromises the privacy of the communication. This project will adapt techniques originally applied to genomics, and re-interpret them to solve one of the greatest data privacy challenges to-date: How can you keep control of privacy, while leveraging the power of the cloud for search and storage?</p>			

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<b>Nettitude Ltd</b> University of Lancaster	ICS/SCADA Risk Framework and Passive Network Appliance	£509,352	£365,317
<b>Project description - provided by applicants</b>			
Nettitude and Lancaster University are developing an ICS framework and network based appliance that will provide end users within complex supply chains the relevant knowledge and visibility of their key areas of risk. A common framework and approach will provide consistency across the supply chain and help identify the priorities and actions needed to ensure a robust security posture is maintained.			

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Concentra Consulting Ltd University of Warwick Costain Ltd	Construction Industry Supply Chain Data Protection	£748,940	£504,094
<b>Project description - provided by applicants</b>			
<p>This project will develop and apply innovative data protection and information security techniques essential for a novel supply chain analytics tool. The tool was developed in the Fast Moving Consumer Goods (FMCG) sector, and is to be applied to the construction industry. The aim is to create a digitally-enabled environment within which construction organisations can build trust and create strategic partnerships necessary to achieve significant cost reductions in the construction industry supply chain. Sharing data in a trusted environment is essential to driving change in the industry. The data security issues include potential security breaches due to weaknesses in application security architecture, implementation and configuration. Breaches also occur as a result of poor access controls to sensitive data and the flow of that data between parties: data is either shared more widely than is necessary, or not shared at all. This project will take an approach that will allow access to data to be controlled not only by membership and role, but also according to content, context, time, place and need ' all within a clear governance structure. Finance Summary Table ' How to complete this section</p>			

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Enterprise Privacy Group Ltd Internet of Things Privacy Forum Ltd	DataPrivacyPlus - Managing Personal Data Risks Across Supply Chains	£391,881	£235,128
<b>Project description - provided by applicants</b>			
<p>The Internet of Things (IoT) promises to create new products and revenue streams for existing and emerging companies, and in particular innovative SMEs. However, this results in vastly increased personal data collection, both intentional and unintentional. The personal data supply chain comprises many places for data to leak, be attacked, or be reused without permission. With growing risks arising from privacy-related breaches, and the introduction of greater compliance requirements (and associated penalties) in the EU General Data Protection Regulation, organisations are under pressure to improve their privacy practices. However, SMEs in particular lack affordable privacy tools to assist in management of personal information risks, with the few that are available targeted at enterprises with professional privacy officers. This project brings state-of-the-art privacy thinking and methodology together to create the DataPrivacyPlus privacy risk management tools aimed at SMEs, with templates to customise the service for connected car (telematics) and smart cities (IoT) vertical markets, leading to a range of affordable privacy management services.</p> <p>Finance Summary Table ' How to complete this section</p>			

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British Gas Trading Ltd University of Oxford G4S Utilities and Outsourcing Services (UK) Ltd EDMI Europe Ltd	An Alternative Approach to Smart Meter Data Insight against Energy Theft	£748,700	£439,785
<b>Project description - provided by applicants</b>			
Energy theft is a major problem and contributes an unwelcome addition to everyone's energy bill. Using consumption data alongside logging information on meter behaviour from smart meters in near real-time analysis will enable us to identify possible cases of theft more accurately. It may also identify conditions for meter failure previously not considered. Project DIET, led by British Gas, and supported by University of Oxford, G4S and EDMI, will investigate the topic based on a large portfolio of smart meters data. The project intends to develop new methods to derive useful insights by combining techniques from the Cyber Security Research Centre at University of Oxford and in-field know-how from British Gas with view to gaining intelligence from the meters alone without any customer details for reasons of privacy. The project will run between 1st December 2015 and 31st December 2017.			

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