Draft Project list for StEP

Updated: 9.5.19

<u>OUI Project No.</u> 2476 2718	<u>Project Title</u> Saliva Cannabis Testing Detection and quantification of Arsenic in drinking water	Description Electrochemical means of detecting cannabis in saliva. Suitable for use in handheld roadside testing. An electrochemical means to detect and quantify arsenic in drinking water.	Profile to be added https://innovation.ox.ac.uk/licence-details/real-world-arsenic- detection/
7909 & 10098 2880, 6962, 7908	Detection and quantification of Nanosilver in environmental water. Sticky electrodes. Ion Detector bundle	Electrode and detection capability for silver nanotubes in water. "Sticky" electrodes can be left in water courses and then taken back to labs for analysis. Means of detecting ions with space and time information	https://innovation.ox.ac.uk/licence-details/electrochemical-detection- silver-nanoparticles/ https://innovation.ox.ac.uk/licence-details/charged-particle-imaging/
11295	Essay Analysis	Software that provides students with feedback on the structure of written essays	https://innovation.ox.ac.uk/licence-details/essay-structure- visualisation/
8523 12992	Flower Recognition Face Descriptor CNN	using image segmentation to recognise flower species based on a photograph (trained on 102 species so far) vector coding of a person's identity generated by a Convolutional Neural Network (CNN)	http://www.robots.ox.ac.uk/~vgg/research/flowers_demo/ https://innovation.ox.ac.uk/licence-details/vgg-face-photo-identity- vector/
12803	Faces to paintings	The software performs the task of matching photos of a person to similar looking people in paintings	https://innovation.ox.ac.uk/licence-details/faces-to-paintings- software-suite/
13695	Text spotting software	a method of detecting and recognising text in images	https://innovation.ox.ac.uk/licence-details/text-spotting-software/
2350, 2401	Sensitive gas sensors	Modified carbon-based electrochemical sensors that offer high sensitivity, improved selectivity and longer lifetimes. The sensors are appropriate for a range of gases and are also suited to low cost manufacturing techniques.	https://innovation.ox.ac.uk/licence-details/gas-sensors/
11770	Environmental Smartphone software	The headphone jack can be used to receive the input from sensors. The phone can be used for processing and sending the signal. Intended as a low cost remote sensing application	to be added
3677	Maritime Tracking Technology	Dynamic tracking of moving objects in a complex enviroment	https://innovation.ox.ac.uk/licence-details/real-time-visual-tracking- technology/
7949	Magnetic localisation of Smartphone	A method of localizing mobile devices and smartphones without requiring any additional user hardware. It uses the spatial variation of low frequency magnetic fields to enable a device to identify its location by measuring the magnitude and direction of these fields.	https://innovation.ox.ac.uk/licence-details/magnetic-localisation-2/
13249	Wireless Charging System Animal Protection Device	Nuclear Quadrupole Resonance sensors to detect specific amino acids or other biological material present in target animals when the animal is proximate to the field of a magnetic power transfer device. The Wireless Power Transfer may then be deactivated instantaneously, and in one embodiment it may be re-activated when the biological material is no longer present. The system may be specified to detect humans, while other embodiments may be tuned also to detect a variety of animals or other specific animals.	https://innovation.ox.ac.uk/licence-details/nuclear-quadrupole- resonance-sensor-safer-wireless-power/
9280	High efficiency cooking pan	A cooking pan designed for more efficient heat transfer from the flame to the pan leading to faster heating of the content and less energy need.	https://innovation.ox.ac.uk/licence-details/oxford-eco-pan- revolutionises-cooking-efficiency/
10377	Speech Recognition software	Novel approach to speech recognition software from Professor Lahiri in Faculty of Linguistics.	https://innovation.ox.ac.uk/licence-details/flexible-speech- recognition-system-flexsr/
3902 3567	True Colours HermiT	Bi polar (and other long term health) monitoring using questionnaire and mobile phone text messages HermiT is reasoner for ontologies written using the web ontology language (OWL). Given an OWL file, HermiT can determine whether or not the ontology is consistent, identify subsumption relationships between classes, and much more	https://innovation.ox.ac.uk/licence-details/truecolours/ https://innovation.ox.ac.uk/licence-details/hermit-semantic-web- software/
14478	DIET	Method for detecting energy theft using information from smart meters	to be added
9192	Wildsensing- smart animal tracking tags	A new generation of ultra-low power, wireless tracking tags capable of monitoring animals continuously in the field.	https://innovation.ox.ac.uk/licence-details/adaptive-animal-tracking- tags/
15681	Cation mediated viral detection	Rapid, simple method for labelling enveloped viruses for detection, qunatification and isolation	to be added
13952	Targeted radiopaque contrast agents	Targeted imaging agent as a companion diagnostic for osteoarthritis	https://innovation.ox.ac.uk/licence-details/next-generation-x-ray- contrast-agents/
14289 11735	OpMiMoCo: removing jaggedness artefacts CD57 predictors of SCC (squamous cell carcinoma) in renal transplant recipents	Image processing method to improve bidirectional scanning data acquisition to be added	to be added to be added