

## **2015/16 Home Office Police Innovation Fund results**

### **1. Key headlines**

During January 2015 the PCC approved the submission of the following 8 bids to the Home Office Police Innovation Fund. The evaluation has been completed and the first four proposals highlighted in bold have been successful and are to be granted funding.

- 1. (VIPER) Introducing High Definition Images into Video Identification Parades & Intelligence Systems**
- 2. (VIPER) Reducing Prisoner transport costs by using VIPER® ID Booths in Prisons Collaborative**
- 3. (SSU) Digital Asset Management / Forensic Evidence Repository**
- 4. (SSU) Live-Time Forensics (Forensic Intelligence Database)**
5. (NHS) ADHD – Diagnosis and treatment in custody
6. (WYP) ANPR – and Big Data
7. (PNLD) Victims and witness case progressions and support
8. (VIPER) Secure CJS portal

From a total of £3,237,588 grant funds requested across all 8 submitted projects, approx 40% of the funding has been secured to a total of **£1,360,457**

### **2. Successful projects**

A summary of the successful projects are included in this report below. Each of the successful projects will be subject to the following conditions:

- The relevant monitoring information being provided at the mid and end year points by the dates specified;
- Any year two funding (2016/17) is approved in principle and is subject to end year monitoring information being received by the specified date and confirmation that satisfactory progress is being achieved;
- Any year two funding (2016/17 funding) is subject to Ministerial agreement in 2015/16.
- All bids relating to digital public contact, multi-agency data sharing and digital asset management will need to work with the Police ICT Company (Police IT Board and APCC in the interim), and other forces, to develop a coordinated approach. The Home Office will share details of successful forces with the APCC who will arrange sessions in April for forces to come together and consider where their projects align and agree staged points for sharing updates.
- All other IT-enabled, or IT bids, are required to work where necessary with the Police ICT Company (including the Police IT Board and APCC in the interim), College of Policing, Home Office and other forces to share learning and best practice; and to ensure that any solutions developed are done so to agreed national common standards and therefore not limited in their applicability to just one force or IT system. Forces are required to keep the Police ICT Company (Police IT Board in the interim) updated on the nature and extent of their collaboration.
- Working with the College of Policing to develop an evaluation plan for each bid.

### **3. Unsuccessful projects**

- **ADHD bid:** WyFi will continue to seek funding for this concept and are looking to put it in for the CoP Knowledge Fund round
- **ANPR bid:** ANPR services will continue and an approach for funding to the OPCC may be submitted and WyFi shall work with WYP to provide feedback and to strengthen any future project submission of business case.
- **PNLD bid:** Support from partner agencies will be sought and this work will be followed up by PNLD with the support of WyFi to seek funding if appropriate

- **VIPER bid:** The third VIPER bid concerned the development of a secure portal which overlaps work being conducted by CPS and this concept shall developed outside VIPER.

#### 4. Summary of successful projects

<b>FUNDER:</b>	Home Office Innovation Fund		<b>Duration:</b>	2 years	
<b>DEPARTMENT</b>	VIPER				
<b>TITLE:</b>	Introducing High Definition Images into Video Identification Parades & Intelligence Systems				
<b>Funding secured (£)</b>	Year one	800,000	Year two	0	Total: 800,000
<b>PROJECT OVERVIEW:</b>	<p>This project provides the means by which to revolutionise video identification parades and provides new tools so these significant developments enable video ID parades to continue to be produced successfully across 20 police forces. The introduction of new High Definition (HD) images and recording methods will enhance the service to ensure it remains up to date with both technological and social developments. The aim of this project is to provide the following:</p> <p><u>1. Primary Aim – HD Images for VIPER® Volunteer Database</u> Replace the VIPER® Volunteer Image Database with a collection comprising of High Definition (HD) images which reflect the UK population. These will be recorded using the newly designed VIPER® ID Booth which in time will be installed into each user force. As a result this will simplify operational processes and enhance the quality &amp; consistency of video identification parades ensuring the availability of high quality images in order to produce video identification parades to 20 forces.</p> <p><u>2. Secondary Aim – One: Enhance Custody Images using HD Images</u> Introduce VIPER® ID Booths into selected locations to record HD images of those in custody for use by the Police in local and national intelligence and crime information systems</p> <p><u>3. Secondary Aim – Two: Training Package ‘Why do FACES matter?’</u> Design and publish training materials to improve the awareness within the UK Police community of the importance of high quality facial images being available to assist in video ID parades and during investigations. Demonstrate how the VIPER® ID Booth assists the Police in meeting relevant standards to support investigations.</p> <p><b>Deliverable 1:</b> A campaign to capture new images using the VIPER® ID Booths and record images of a minimum of 15,000 people by March 2016 which meet the new National VIPER® Bureau Image Standard.</p> <p><b>Deliverable 2:</b> Publish a database of 30,000 images by March 2016 for use by users to conduct video identification parades which meet the requirements of relevant legislation and investigating officers.</p> <p><b>Deliverable 3:</b> Installation of VIPER® ID Booths in all member forces by March 2016.</p> <p><b>Deliverable 4:</b> Installation of VIPER® ID Booths into a minimum of 4 forces by March 2016 to record custody images of enhanced quality for use in local and national Police IT systems which rely upon high quality images of suspects.</p> <p><b>Deliverable 5:</b> A training programme and suitable supporting materials will be produced to support the recording of high quality images by users of the VIPER® ID Booth and this will be supplied to all forces by March 2016</p> <p><b>Deliverable 6:</b> Promote the broader use of the VIPER® service by March 2016 to forces that currently do not use it but have chosen to use the VIPER® ID Booth to capture custody images.</p>				

<b>FUNDER:</b>	Home Office Innovation Fund		<b>Duration:</b>	1 year	
<b>DEPARTMENT</b>	VIPER				
<b>TITLE:</b>	Reducing Prisoner transport costs by using VIPER® ID Booths in Prisons				
<b>Funding secured (£)</b>	Year one	39,500	Year two	n/a	Total: 39,500
<b>PROJECT OVERVIEW:</b>	<p>This bid seeks to provide a fundamental change to the current established process for the transportation of prisoners to a designated VIPER Identification Suite for the sole purpose of having their image recorded for use in Identification Parades.</p> <p>To do this we first need to conduct a 12 month feasibility study into the benefits of installing permanent VIPER® imaging capability into Her Majesty’s Prison Service as part of a long term strategy to improve cost effectiveness and deliver time efficiencies between Police forces and the Prison System.</p> <p>Currently, those remanded within the prison system are required to be transported to a local police force Identification Unit, if and when identification becomes an issue. Like all decisions to transport a prisoner there are many factors to consider, all of which have a cost implication. One of the main constraints to the current system is the limited number of prisoners approved by the Governors to be transported on a daily basis, this has led to a back log of</p>				

	<p>identification procedures in some forces, which needs to be addressed for those remanded in prisons.</p> <p>In support of this research program it is intended to install 2 booths at differing prison locations within the UK and as part of the evaluation process, VIPER® will work closely with a 3rd party academic institution who will be asked to interpret and report on the data provided over the life time of the feasibility study.</p>
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<b>FUNDER:</b>	Home Office Innovation Fund	<b>Duration:</b>	1 year		
<b>DEPARTMENT</b>	Yorkshire and the Humber Scientific Support Services				
<b>TITLE:</b>	Collaborative Digital Asset Management / Forensic Evidence Repository				
<b>Funding secured (£)</b>	Year one	283,657	Year two	n/a	Total: 283,657
<b>PROJECT OVERVIEW:</b>	<p>In order to develop, expand and take full advantage of this regional asset there is a requirement to provide a Digital Asset Management and Forensic Evidence Repository on behalf of the four forces in the Yorkshire / Humberside ACPO region. This could subsequently become the standard model, open to other regional or local Forensic units across UK Police Forces that share the same FCMS system, SOCRATES (36 of 43). Digital assets recovered or created during the course of an investigation come in many forms and from numerous sources. To ensure their legitimacy and availability at any stage of the investigative or prosecution process, it is imperative that such assets are stored and managed securely and in accordance with evidential and legal requirements.</p> <p>This Innovation Funding will enhance the collective Forensic units and IT capabilities within the YatH region, to provide through the digital asset management system, a single shared collaborative database. This will support: ingestion, collation, management and searching of all types of Forensic digital assets enabling them to be linked directly to the Forensic Case Management system (SOCRATES), regional management systems (such as Athena or Niche) as well as CCTV, body-worn camera's, audio and other bespoke applications throughout the region.</p> <p>The digital asset management repository will be immediately available to all four forces and partners. The solution will be scalable to other forces, enabling them to maximise the benefits of collaboration and have a long term benefit by ensuring ever increasing digital assets are stored and managed effectively and efficiently.</p> <p>It is intended that the solution creates an open architecture enabling and embracing the inclusion of multiple third party specialist vendors for the management and enhancement of digital assets. By building such an infrastructure and service for the region, open to other forces and regions, the proposal will support the 'Live Time Forensics' initiative and have the potential to enable officers and staff from any participating force to be able to view and utilise digital forensic evidence and other assets as they are acquired. Enhancing decision making in respect of relevance and viability of the information available in real time.</p> <p>In consultation with other forces and regions across England &amp; Wales, the model linking the Case Management and Digital Asset Management / Forensic Evidence Repository would be available for others to join and is extendable to those other forces and regions. In particular larger regional collaborating forces such as EMSOU and the South West. These forces are aware of the project and have indicated a willingness to adopt the solution once developed and subject to evaluation.</p>				

<b>FUNDER:</b>	Home Office Innovation Fund	<b>Duration:</b>	2 years		
<b>DEPARTMENT</b>	Yorkshire and the Humber Scientific Support Services				
<b>TITLE:</b>	Live-Time Forensics (Forensic Intelligence Database)				
<b>Funding secured (£)</b>	Year one	237,300	Year two	0	Total: 237,300
<b>PROJECT OVERVIEW:</b>	<p>As it is already known, the repeat nature of crime by a small number of offenders, could provide useful intelligence to investigators and crime analysts and increase the capability of law enforcement to conduct targeted investigations. Live-time forensics is a commissioned Home Office umbrella vision to harness innovation and research to reduce the delay between the information and evidence gathering process. Key to this is the identification and subsequent arrest of an individual through the use of forensics.</p> <p>Working with the Centre of Applied Science &amp; Technology (CAST) in the Home Office has highlighted that a gap exists in that access to crime scene information, as well as any subsequent identifications, are only available on an individual force level.</p>				

	<p>The proposal is to re-utilise capability to create a Forensics Intelligence Database as part of the Police National Legal Database and the National Footwear Database on the existing Corvus platform which West Yorkshire Police currently hosts.</p> <p>The project will extend and integrate some of the functions of the National Footwear Database into the main sources of forensic identification, such as fingerprints and DNA and highlight intelligence collected on examining crime scenes by drawing information, where available, from existing database structures.</p> <p>A key feature of the forensic intelligence database would be to display information to investigators across the region, enabling information to be searched and viewed through the mapping tool found in the National Footwear Database, via the Criminal Justice Extranet (CJX) network. This would create a searchable directory of crime scene's across the region and provide a 'bird's eye view' of crime patterns and forensic identifications gained.</p> <p>Once developed, the intelligence database would be available to all other force and agencies across the country.</p>
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