



Press Release

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TARGET Training Augmented Reality Generalised Environment Toolkit

The recent terrorist attacks in London, Nice, Brussels and Paris have re-enforced just how important it is for our police and security officers to be not only prepared, but also comprehensively trained in how to deal with both lone and multiple attackers. The terrorist attack on Westminster Bridge and outside the Houses of Parliament in London on Wednesday this week has brought this into very clear focus for many in the United Kingdom.

Within Europe, there are only a few Member States whose police are not routinely armed, including Ireland and the United Kingdom (excluding Northern Ireland) – although specialist firearms units are of course always on standby. A recent survey carried out by the Metropolitan Police Federation (MPF) in January 2017 on its 31,000 officers indicated a significant change in attitudes towards firearms. Of the 11,000 respondents, a total of 26% thought officers should be routinely armed (compared with the 20% who said so in an England and Wales-wide survey only last year). 43.6% wanted more firearms specialists within the Metropolitan Police and 75% believe they should all be issued Tasers as standard. However 12% of respondents said they never want to carry a firearm on duty under any circumstances. Ken Marsh, MPF chairman, said the portion of specially trained firearms officers should be doubled to 16% after the survey of 11,000 officers was completed *. Wednesday's events outside of the Houses of Parliament may well add more voices to support his point of view – the following weeks and months will tell.

So although attitudes may be changing within some UK police forces, the Authorised Firearms Officers (AFOs) are highly trained individuals and actually fire their weapons very infrequently. Of the 14,753 times that armed police were deployed in England and Wales in the 12-month period to March 2016, they discharged their firearms on just seven occasions **. This low figure is in part because decisions on whether to open fire are primarily made through the chain of command. It is also because the police are highly trained to diffuse a potentially violent situation in other ways.

But just as we can't afford to stand still as the threats to our civil society are constantly evolving, so also is an innovation taking shape in how the police and other Security Critical Agents (SCAs) are trained. SCAs include counterterrorism



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units, border guards and first responders (police, firefighters, ambulance services, civil security agencies or critical infrastructure operators).

Innovative serious gaming techniques and a range of training scenarios are being developed as part of TARGET (Training Augmented Reality Generalised Environment Toolkit), a project that has received funding from the European Union's Horizon 2020 research and innovation programme. Using a combination of Mixed Reality, Virtual Reality and Augmented & Virtual Reality, TARGET is delivering a pan-European serious gaming platform that features new tools, techniques and content for training, but also incorporates methodology to assess the skills and competencies of SCAs.

Serious gaming is being used to create more realistic environments and conditions for training SCAs; these scenarios can then be repeated to allow objective assessment of students and will be able to be shared between SCAs across the whole of Europe – something that does not exist currently.

TARGET will deliver an extremely realistic and flexible Augmented and Virtual Reality (AVR) simulation solution incorporating a range of dynamic and variable scenarios. Trainees will use a combination of both real and training weaponry, radio equipment, command & control software, decision support tools, real command centres and vehicles. Social and ethical content will also play an important role throughout all aspects of the project. The project will support inter-agency SCA exercising across the EU and act as a serious gaming repository and brokerage facility for authorised agencies to share training material and maximise re-use and efficiency in delivering complex exercises.

Mixed Reality experiences will immerse trainees at operational, tactical and strategic command levels with scenarios that will include tactical firearms events, asset protection, mass demonstrations, cyber-attacks and CBRN (Chemical, Biological, Radiological, Nuclear) incidents. TARGET will deliver an extremely realistic and flexible AVR simulation solution incorporating a range of dynamic and variable scenarios. The final outcome will be a highly immersive training solution, resulting in superior and more effective training experiences for SCAs. The vision of the project is to make the TARGET Open Platform the reference for SCA training using serious gaming across Europe.

A multi-language, online exercise creation and management tool will be available, allowing agencies throughout Europe to use the training content. Special support



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will also be provided to translators to assist the creation of local language versions of the training content modules.

Further details of the TARGET project are available from the dedicated website <http://www.target-h2020.eu>

ENDS – 779 words

Sources:

* [Metropolitan Police Federation](#) February 2017

** [Home Office](#) July 2016

More about the TARGET project <http://www.target-h2020.eu>

TARGET (Training Augmented Reality Generalised Environment Toolkit) is a European Union research and innovation project, delivering a pan-European serious gaming platform that features new tools, techniques and content for training and assessing the skills and competencies of Security Critical Agents (SCAs). These include counterterrorism units, border guards and first responders (police, firefighters, ambulance services, civil security agencies or critical infrastructure operators).

Bringing together the expertise of 16 organisations from the security and defence industry, from research and academia, SMEs, end-users and several European institutions and representatives from 10 EU member states, TARGET has received almost €6 million in funding from the European Commission under the Horizon 2020 Framework Programme throughout its three year duration, from May 2015 to October 2018.

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source information is not available, it will be substituted by AVR (Augmented and Virtual Reality - multimedia, synthetic role players).

TARGET will deliver an extremely realistic and flexible AVR simulation solution incorporating a range of dynamic and variable scenarios. The final outcome will be a highly immersive training solution, resulting in superior and more effective training experiences for SCAs. The distributed Open TARGET Platform will provide extensible standards-driven methods to integrate simulation techniques and AVR technology with existing SCA training equipment. It will be customisable to local languages, national legal contexts, organisational structures, established standard operational procedures and legacy IT systems. At key training points, real-time benchmarking of individuals and teams will be instrumented. TARGET will support inter-agency SCA exercising across the EU and act as a serious gaming repository and brokerage facility for authorised agencies to share training material and maximise reuse and efficiency in delivering complex exercises.

TARGET, combining training, content and technology expertise, will be co-led by users and technologists, mainly SMEs. Two successively developed and trialled versions of the TARGET system will support user-technologist dialogue. The TARGET Ecosystem will enable sustainable impact, commercial uptake and synergies at EU level. SCA agencies and organisations will be able to benefit from a low initial capital expenditure with a subscription model, only needing to purchase certain equipment (hardware or software licenses) locally.

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