

TARGET

Training
Augmented
Reality
Generalised
Environment
Toolkit



TARGET REASON FOR BEING

Research & Innovation project
H2020 framework
6mil € funding over 3 years

FCT-07-2014 framework *“Law
enforcement capabilities topic
3: Pan European platform for
serious gaming and training”*

Managed by the Research
Executive Agency of the
European Commission

Enable
effective SCA
(Security
Critical Agents)
training by
developing
pan-European
training
content,
TARGET
marketplace
and TARGET
platform

Help SCA engage effectively with the general public

Minimise risk to SCA and citizens

Optimise use of available resources

Enable SCA to train for low probability / high consequence scenarios

Leverage virtual reality thus optimising the cost effectiveness of current training programmes

Empower SCA to effectively use new technologies

PROJECT OBJECTIVES



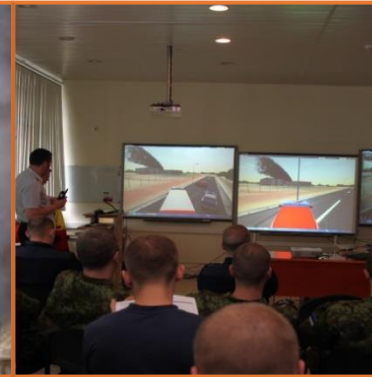
Develop a Pan-European Platform for hybrid serious gaming



Develop a variety of TARGET technology components



Develop 6 dedicated training scenarios



Develop best practices for trial and assessment



Develop a dedicated European Ecosystem

PAN-EUROPEAN PLATFORM FOR HYBRID SERIOUS GAMING

TRAINING CASE
DEVELOPMENT TOOLS

STANDARD INTERFACES

INTEGRATION FOR 3RD PARTY
TECHNOLOGIES AND CONTENT

SUPPORT FOR CONTENT AND
TECHNOLOGY SHARING

LICENSING AND PAYMENT

STANDARDS-
DRIVEN METHODS
TO INTEGRATE

- Simulation techniques and AVR technology
- With existing SCA training equipment

CUSTOMISATION
TOWARDS

- Local languages
- National legal contexts
- Organisational structures
- Standard operational procedures
- Legacy IT systems



TARGET TECHNOLOGY COMPONENTS

VIRTUAL
REALITY

COMPETENCE
ASSESSMENT

DECISION
SUPPORT

NON-LINEAR
SIMULATION



**NEW COMPONENTS
AND IMPROVED AND
ADAPTED EXISTING
COMPONENTS
FIT INTO THE
TARGET PLATFORM**

6 DEDICATED TRAINING SCENARIOS



Mixed-reality experiences immersing trainees at:

- Operational level
- Tactical level
- Strategic command level



Responding to a range of current European training needs:

- Tactical firearms events
- Asset protection
- Mass demonstrations
- Cyber-attacks
- CBRN incidents



Led and defined by end users from 6 EU MS:

- Slovakia
- Estonia
- France
- Germany
- Spain
- UK

TARGET BEST PRACTICES

Trialling and assessing the Training Content
– *and* –
the Training Platform

Dedicated sessions for:

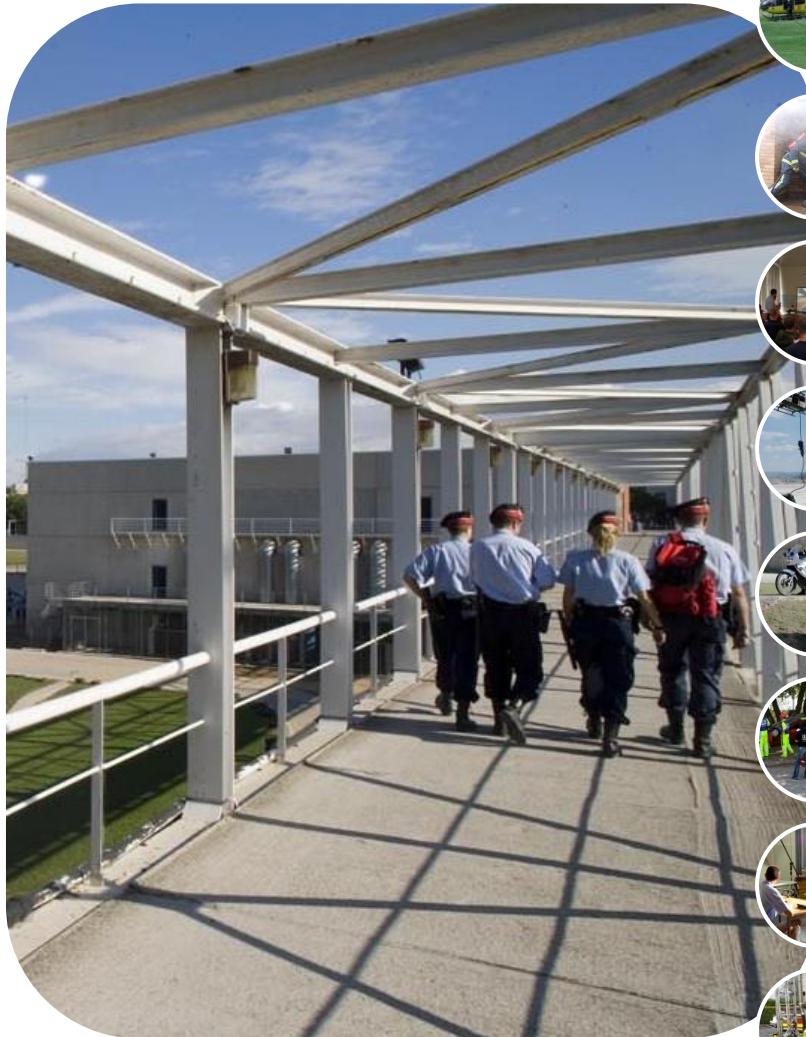
- Single end users
- Teams
- Transnational collaboration



DEDICATED EUROPEAN ECOSYSTEM TO STRENGTHEN EUROPEAN SCA TRAINING

EUROPEAN HUB	EU MEMBER STATE SECURITY	NEW JOINT TRAINING TOOLS
<ul style="list-style-type: none"> ✓ Share TC and serious games ✓ Quickly model to local specifications within the EU 	<ul style="list-style-type: none"> ✓ Support the fight against national and transnational crime ✓ Build capacities of SCA 	<ul style="list-style-type: none"> ✓ Police officers ✓ Fire brigades ✓ Civil protection ✓ Nuclear regulatory bodies ✓ Public health authorities
REALISTIC TRAINING ENVIRONMENT	REAL-TIME PERFORMANCE	MIXED REALITY ENVIRONMENTS
<ul style="list-style-type: none"> ✓ Augmented reality ✓ Existing equipment ✓ Mix of virtual and real objects ✓ Flexibility 	<ul style="list-style-type: none"> ✓ Measure security response teams ✓ Pluggable to any simulation training platform 	<ul style="list-style-type: none"> ✓ Improved field of pervasiveness ✓ Effective use of real world environment ✓ Exploitation of fundamental human behaviour

WHY TARGET? BENEFITS TO SCA AND TRAINERS



enable EU user organisations to deal with security challenges



develop richer SCA training modules



better qualified staff



reduce costs for new training



speed up new training process



share best practices between EU organisations



enable societal dialogue



strengthen capabilities of SCA to deal with complex ethical issues

THE TARGET CONSORTIUM

Technical Partners



End Users



Experts



TARGET AT A GLANCE

Acronym	Project Name
TARGET	Training Augmented Reality Generalised Environment Toolkit
Project Reference	Type
653350	Collaborative Project
Call	Start date
FCT-7-2014	01 May 2015
Duration	End Date
36 months	30 April 2018
Technical Coordinator	Project Coordinator
Rod McCall, LIST	Christian Baumhauer, ARTTIC
Project Budget	Project Funding
5 992 360 €	5 992 359.75 €

THANK YOU!

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