

# eNOTICE

## European Network Of CBRN Training Centres

### D5.7 eNOTICE Progress report 4

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2	Campus Vesta APB (VESTA)	X
3	Fire and Rescue Service of Seine et Marne (SDIS77)	
4	Association pour la recherche et le développement des méthodes et processus industriels (ARMINES)	
6	Fire Department Dortmund (FDDO)	X
8	Joint CBRN Defence Centre of Excellence Vyškov (JCBRND COE)	
9	Middle East Technical University (METU)	
10	University of Rome Tor Vergata and The Italian Joint NBC Defense School (UNITOV)	X
11	West Midlands Police, National CBRN centre (WMP)	
12	War Studies University, CBRN Defence Training Centre (WSU)	
13	Scientific and Research Centre for Fire Protection (CNBOP-PIB)	
14	Safety Innovation Center (SIC)	X

## Executive Summary

This document is Deliverable 5.7 of eNOTICE, a European Horizon 2020 EC funded project, under the Grant Agreement n° 740521. eNOTICE aims at building a dynamic, functional and sustainable European network of CBRN Training Centres, testing and demonstration sites (CBRN TC), which is expected to enhance capacity building in training and user-driven innovation and research, based on well-identified needs. Deliverable 5.7 is the fourth of a series of 6-monthly progress reports on the eNOTICE activities and it covers the progress of the project from February 28, 2019 to August 31, 2019.

This report gives an overview and summary description of tasks that are finished and ongoing since the previous report (D 5.5, February 2018 (M18)).

The following Deliverables were submitted during the previous reporting period (M19-24):

- D3.8 - Report on eNOTICE information and communication platform full operational version (V1), WP3, SIC (former UPB), Public report, M24
- D3.9 - Report on eNOTICE information and communication platform full operational version (V1), WP3 SIC (former UPB), Public websites, patents, filing, etc., M24
- D3.15 - Links to other CBRN networks and platforms, integration and interface functions on the eNOTICE information and communication platform, Report 1, WP3, SIC (former UPB), Public Report, M22
- D4.5 - eNOTICE Joint Activities Planning, Report 4, WP4, VESTA, Public Report, M24
- D4.9 - eNOTICE Recommendations for CBRN R&D and CBRN policies, Version 2, WP4, UCL, Public Report, M24

All public Deliverables are available at the eNOTICE web based platform: <https://www.h2020-enotice.eu/static/publications.html>

The following tasks are ongoing:

- Task 3.1 - Dissemination activities to promote and enhance the web based platform and project results, lead UCL
- Task 3.2 - Development of a web based platform to share information and encourage communication, lead SIC
- Task 3.4 – Integration of platforms and interfaces, lead SIC
- Task 4.2 - Organisation of joint activities (exercises combined with tests, validations or demonstrations), lead VESTA
- Task 4.3 - Identification of opportunities to strengthen policies and recommendations for R&D, lead UCL
- Task 4.4 - Plan to pool resources and optimise investments for increased CBRN Training Capacity, lead UNITOV
- Task 5.1 - Consortium Management, lead UCL



- Task 5.2.1 - Quality management: development of a continuous improvement methodology, incl. process and result indicators to follow up the project's performance, lead VESTA
- Task 5.2.2.- Evaluation of the functioning of the web based platform, lead FDDO
- Task 5.2.3. - Evaluation of the methodology and templates for the preparation, organisation, evaluation and follow up of exercises combined with tests, validations and demonstrations, lead UNITOV
- Task 5.2.4 - Evaluation of the quality label, web based search function and recommendations for certification, lead UNITOV
- Task 5.3 Security, legal and ethical aspects, lead VESTA (former UMU)

This report also includes an overview of the achievements in the three mandatory lines of action:

**The roster**, which includes a list of possible EU CBRN Training Centers is continuously updated. The eNOTICE Catalogue, with confirmed members who shared information on their capacity and facilities counts 42 members , 2 more since the last report. The Quality label is finalized and renamed to ‘Capacity label’ after reconsideration, based on feedback from external training centres. In the previous reporting period, the TCs who indicated the wish to be visible have been published on the eNOTICE webbased platform.

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The eNOTICE Joint Activities continue to provide opportunities to share expertise, which is highly appreciated by the attendees.. Other ongoing EU projects are systematically invited to join the Joint Activities, either as observer or as participant for the testing of their developments (e.g. MELODY, PROACTIVE, NO-FEAR, TARGET, FIRE-IN, SAYSO, TERRIFFIC, HOPICAMP). Furthermore, eNOTICE partners were invited to observe other H2020 projects such as TOXI-TRIAGE (DISPERSE Exercise, Finland) and DIRVER + (IRONORE2019 Trial, Austria). eNOTICE partners also participated in national and EU workshops, meetings and conferences (e.g. CBRNe Summit Europe, NCT Europe, CoU on Secure, Safe And Resilient Societies).

In our **plan to pool resources**, the first phase of development of the activity began, aimed at identifying useful references at methodological level and at determining the applicability of these to the specific context, a network of TC CBRN. Information about the costs to organize Joint Activities has been collected, which will be used in a structured way to elaborate recommendations. Within the same objective the benefits for the network partners will be analysed, deriving from the use of the common services provided from the eNOTICE network.

The next progress report (5) is due February 2020 (M30).



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## Nomenclature

CBRN	Chemical, Biological, Radiological, Nuclear
eNOTICE	European Network of CBRN Training Centres
KPI	Key Performance Indicator
TC	Training Centre
WP	Work Package
SWOT-analysis	Strengths, Weaknesses, Opportunities, Threads analysis
ECC	eNOTICE Community Center
DG HOME	Directorate-General for Migration and Home Affairs
DG DEVCO	Directorate-General for International Cooperation and Development
DG ECHO	Directorate-General European Civil Protection and Humanitarian Aid Operations
NATO	North Atlantic Treaty Organization
IED	Improved Explosive Device
EOD	Explosive Ordnance Disposal
VIP	Very Important Person
CoU	Community of Users
JESIP	Joint Emergency Services Interoperability Principles
IFRE	International Trade Show
R&D	Research and development
PoA	Plan of Action
GDPR	General Data Protection Regulation
MELODY	A Harmonised CBRN Training Curriculum for First Responders and Medical Staff
PROACTIVE	Preparedness against CBRNE threats through common approaches between security practitioners and the vulnerable civil society
NO-FEAR	Network of Practitioners For Emergency medical Systems and critical care
TARGET	Training Augmented Reality Generalised Environment Toolkit
FIRE-IN	Fire and Rescue Innovation Network
SAYSO	Standardisation of situational Awareness systems to Strengthen Operations in civil protection
I-RAPTER	International Radiological Assistance Program Training for Emergency Response

TERRIFFIC	Tools for early and Effective Reconnaissance in cbRne Incidents providing First responders Faster Information and enabling better management of the Control zone
TOXI TRIAGE	Tools for detection, traceability, triage and individual monitoring of victims
DRIVER+	Driving innovation in Crisis Management for European Resilience.
BULLSEYE	Harmonised procedures and awareness of all agencies involved in the response of a chemical or a biological terrorist attack: education-training and train the trainer
iLEAnet	Innovation by Law Enforcement Agencies networking
I-LEAD	Innovation- Law Enforcement Agency's Dialogue
ENCIRCLE	EuropeaN Cbrn Innovation for the maRket CLustEr

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# 1. Introduction on scope and objectives

## 1.1 eNOTICE scope and objectives

The objective of the eNOTICE project – European Network of CBRN Training Centres - is to build a dynamic, functional and sustainable European network of CBRN Training Centres, testing and demonstration sites (CBRN TC), aiming at enhanced capacity building in training and users-driven innovation and research, based on well-identified needs.

eNOTICE seeks to improve European preparedness, resilience and incident response to CBRN attacks and emerging threats through close multi- (stakeholders) and single-discipline (practitioners) interactions.

Considering the variety of disciplines involved in managing CBRN risks, collaboration has always been quite challenging. CBRN TC can act as the perfect operational intermediary between all civilian and military CBRN actors, EU relevant bodies and policy-makers, and thus serve as the best cradle for expansion of a CBRN network of professionals.

To set up such a network that is both efficient and meets the needs of different security actors, several lines of action will be followed within the five-year timeframe of eNOTICE in order to develop a network that will be viable, attractive as well as sustainable.

eNOTICE relates to the ‘SEC-21–GM-2016-2017: Pan European Networks of practitioners and other actors in the field of security’. Of the four distinct categories of practitioners SEC-21-GM aims at, this project addresses the need for a network for *‘entities from around Europe that manage demonstration and testing sites, training facilities, including simulators or serious gaming platforms in the area of CBRN and for first responders or civil protection practitioners’*<sup>1</sup>.

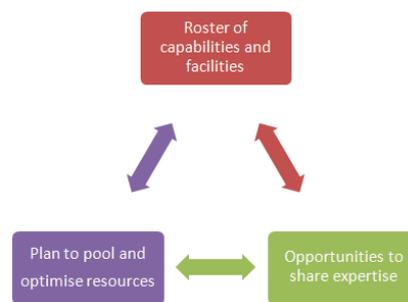
The work program proposes three lines of actions: 1) establish and maintain a roster of capabilities and facilities, 2) organize the best way to share expertise, and 3) plan to pool and share resources with a view to optimize investments.

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<sup>1</sup> European Commission Decision C(2017) 2468 of 24 April 2017, Horizon 2020 Work Programme 2016-2017, 14. Secure Societies - Protecting freedom and security of Europe and its citizens, webpublication at: [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-security\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-security_en.pdf)

These lines will serve as a baseline for the project (see Figure 1) and will be complemented by a range of activities aiming at:

- 1) preparing a **structural, sustainable technical platform** to enable the partners to support the proposed actions, hence to provide a solid basis to expand to any other relevant activity;
- 2) a well-informed, sound, conceptual based **sustainability plan** for the platform, taking into account the profile, needs and expectations of the targeted members, as well as an appropriate strategy to overcome existing barriers and difficulties in creating a CBRN Training Centres' network;
- 3) a **mix of complementary activities** to strengthen the effect of the three proposed lines of action and to maximize opportunities provided and created by the CBRN platform.



**Figure 1 Three lines of actions in eNOTICE  
(eNOTICE DoA 2016)**

The three lines of actions are covered by the eNOTICE Objectives and Sub-objectives. A summary overview is included in the first Progress report (p. 9), as well as an overview of the mix of eNOTICE activities in these three lines of action (p. 8).

## 1.2 eNOTICE Project reports' scope, objectives and methodology

### 1.2.1 Scope

This report relates to Task 5.1 - Technical management and Task 5.2.1 - Quality management.

As mentioned in the Description of Action, these Tasks cover the following actions:

**Task 5.2 - Technical management** ensures the scientific and technical quality of the project and its continuous compliance with the project **Objectives**. The main focus of this task is to keep oversight on all developments within the project, including supervision of the **information flow** and **communication** between related tasks, **avoiding duplication** of efforts in parallel tasks, ensuring **good collaboration** between the partners involved in parallel and consecutive tasks. Technical quality management and follow up during the whole duration of the project will be based on the performance management methodology and indicators developed in subtask 5.2.1.

**Task 5.2.1 - Quality management:** development of a continuous improvement methodology, incl. process and result indicators to follow up the project's performance.

This subtask aims at developing a methodology to continuously monitor ongoing tasks and identify opportunities for improvement of the project as a whole. All relevant aspects will be covered, such as the proactive role of WP and Task leaders, respect of planning and timely Deliverables, the quality of the Deliverables, the links between different WPs and tasks and the necessary communication flows between them, efficient use of the resources (MM and costs), etc. Not only result indicators (timing/Deliverables) will be monitored, but also process or leading indicators because of their capacity to predict forthcoming results. A SWOT-analysis will be part of the methodology, in order to have an instrument that not only looks at internal strengths and weaknesses, but also takes into account external threats and opportunities. Awareness for security related evolutions in today's society for instance and changing regulations to adapt to these evolutions, and their impact for the project might thus be proactively and structurally monitored and taken care of (as opposed to an ad hoc and reactive approach). The interim results will be communicated to the Task 5.1 Consortium management and Task 5.3 Security, legal and ethical aspects, according to their relevance. Task 5.2.1 is responsible for the production of the 6-monthly reports in the three lines of actions as required by the work programme: 1) establish and maintain a roster of capabilities and facilities, and 2) organize to share expertise, and 3) plan to pool and share resources with a view to optimize investments.

### 1.2.2 Links to other tasks

Task 5.2.1 is responsible for the production of the 6-monthly reports in the three lines of actions as required by the work programme. These interim results are communicated to the Task 5.1 - Consortium management. The monitoring results of Task 5.3 Security, legal and ethical aspects, are also included in this report.

### 1.2.3 Structure of Progress report 4

The structure of this Progress report is as follows:

- Progress on Deliverables, and ongoing Tasks (Chapter 2.1 – Chapter 2.3)
- Progress on Milestones (Chapter 2.4)
- Overview of the results in the three lines of action (Chapter 2.5)
- Clarification on the approach for security, legal and ethical aspects (Chapter 2.6)
- Conclusions and follow up actions (Chapter 3)

## 2. Progress results, February – August 2019

### 2.1 Progress on Deliverables

#### Submitted Deliverables

The following Deliverables, on the eNOTICE Quality label and Sustainable framework, have been submitted during this second reporting period:

#### **D3.8 & D3.9 – Report on eNOTICE information and communication platform full operational version (V1)**

WP3, public report, due M24, lead SIC (former UPB)

This deliverable builds on the results of *D3.6 Report on eNOTICE information and communication platform basic version (V0)* and describes the process of developing the full version of the eNOTICE Community Center (ECC). This includes a description of the methodology used, requirements gathered, an analysis of the related work and similar platforms and a description of the actual implementation.

The actual website developed (D3.9) can be found online at <https://www.h2020-enotice.eu/>.

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#### **D3.15 - Links to other CBRN networks and platforms, integration and interface functions on the eNOTICE information and communication platform, Report 1**

WP3, public report, due M22, SIC (former UPB)

This deliverable is the first of the yearly deliverables in Task 3.4 (Integration of platforms and interfaces). It contains an analysis of networks and initiatives similar to eNOTICE, provides a list of potential interfaces and establishes a methodology for the ongoing monitoring of related projects.

D3.15 identifies a total of 24 relevant projects and initiatives, 3 of which are run by DG Home, 1 by DG DEVCO, 1 by DG ECHO, 5 mono-disciplinary SEC21 networks, 3 geographical SEC21 networks, 3 SEC21 networks of training centers and 8 other relevant projects. These figures are expected to increase as new networks and projects start.

Each eNOTICE partner was assigned one or several relevant projects to monitor based on professional interest (i.e. biological experts monitoring projects with a biological focus) and will report interesting developments in the monitored projects at consortium meetings.



## D4.5 - eNOTICE Joint Activities Planning, Report 4

WP4, public report, due M24, lead VESTA, submitted M25.

This deliverable includes the report of 3 eNOTICE Joint Activities: in Rome (IT), organised by UNITOV, in October 2018; in Vyskov (CZ), organised by JCBRN Defence COE, in February 2019; and in Gurcy (FR), organised by SDISS77 and ARMINES, in May 2019. The most recent JA, in Birmingham (UK), organised by WPM, in July 2019; took place during the holiday period; the report on this JA will be included in the next Deliverable (Report 5, due February 2020).

The **Rome-Rieti JA** was an operation-based/full scale/field exercise based on the participation of different specialists of national assets and multinational CBRN Operational Sampling Teams. The scenario for the exercise focussed exclusively on Bio-threats. The Joint Activity consisted of the practical part of a CBRN Operational Sampling Course, which was observed by eNOTICE consortium partners, together with representatives from the Italian Fire and Rescue Service, GORE, CATTOLICA University, EASS EC, SCK-CEN, Italian Institute of International Affairs, Hoseo University, Public Health England, Italian Civil Protection and the War Studies University in Poland. Representatives from the following EU research and networking projects attended the field exercise as observers: TARGET, FIRE-IN, SAYSO, MELODY and NO-FEAR to observe the exercise.

The JA was built based on two training activities of the Joint CBRN defence School of Rieti. The integration among the “NATO Selected Course CBRN Operational Sampling” and on the integration among CBRN and EOD Teams in case of unconventional use of Improvised Explosive Device (IED). The Joint activity made it possible to show the school's facilities and capabilities to project partners and external observers. Other lessons learned from the JA in Rome:

- The exercise showed the differences between military and civil procedures, used in this type of intervention. Feedback stressed the relevance of harmonisation and standardization at EU level between Military and Civilian agencies.
- It was noted that CBRN – EOD procedures are well standardized at National Level but, in case of Multinational Integration, a lot of gaps are still observed. These gaps can be overcome by a close Military-Civilian cooperation.

- The effectiveness of standardized protocols for operational activities indicates that a standardized approach would also be useful for training and exercise. This action would permit to all personnel to adopt the same procedures for a common standard training in this specific sector.

The **Joint Activity in Vyškov** showed a fullmilitary training course at the NATO JCBRN Defence COE opened up for participation of eNOTICE partners and their invited experts. This Joint Activity was particularly welcomed by all participants and observers as an interesting demonstration of civil-military collaboration. The planning-, preparation- and execution phases ran smoothly without any significant problems. There are a few lessons learned:

- The eNOTICE observers' roles were not sufficiently lucid. As a consequence, during the practical day open for participation of eNOTICE observers, they had received limited directions about the observation aims and means.
- The large number of observers on site – with no clear role- made the joint part of the exercise itself hard to control.

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The **Joint Activity in Gurcy** showed the capability of the CBRN TC to host a large-scale field training exercise, in parallel with a serious game training session (HOPICAMP). This activity was a double Joint Activity: the CNCMFE regional CBRN multidisciplinary field exercise, hosted by SDIS77, joined by the H2020 project TERRIFFIC; and the virtual deployment of a field hospital, organised as Serious Game Validation phase of the French National Project HOPICAMP, hosted by ARMINES.

In the follow up of Vyskov, rules and guidelines to better prepare the role of observers had been elaborated, this Protocol was tested in Gurcy and very much appreciated by both the observers as the hosting organisations. Other lessons learned from Gurcy were:

- The protocol for observers was used for the first time in this Joint Activity. It was highly appreciated by the observers. Both the draft provided by VESTA and the additions by SDIS77 were welcomed as useful to ensure a more focused and efficient participation of the observers.
- Due to the design of the exercise, observers were able to first attend a few of the different steps of the exercise in different workshops. The day of the full-scale exercise, there were less uncertainties thanks to these workshops. Because of the

workshops, participants had a better understanding of the context and procedures observed during the full scale exercise.

- The lessons learned from past JAs, and especially the last JA in Gurcy (December 2017), were taken into account on the preparation, organisation and evaluation of this JA.
- This JA was a good example of civil-military cooperation, to the satisfaction of the mixed group of civil and military partners in eNOTICE. Giving the attention at national, as well as EU level for civil-military cooperation to deal with CBRN threats, these JA's can be considered as interesting demonstrations to observe and learn from current practices in other countries. E.g. the transfer of the command of the assets on the ground from civil to military authorities raised interest among the observers.

Some points of improvements for the Joint aspect in Gurcy:

- There is a minimum level of maturity required for 'Joint'. When inviting another EU project to a regular exercise, the project and the project developments need a certain level of maturity in order to be useful and create benefit. When faced with non-working technology, first responders might lose their trust into this new kind of technology, and by extension in research.
- The more complex the exercise, the more challenging to implement testing, validation or demonstration by an external research partner into the field exercise. Moreover, if the Training Centre is a hosting organisation but not the responsible owner of the exercise, this creates additional complexity and challenges to open up the exercise to external partners for testing and validation.
- There were different VIPs invited to this exercise. The special arrangement for these VIPs delayed the exercise and imposed restrictions on the eNOTICE and other observers. The discussions on this, led to the suggestion to have a dedicated VIP day, so the real exercise and testing, can run more smoothly.

**Lessons learnt from all three JA can be summarised as follows:**

It is important to have a close Military-Civilian cooperation. The standardized protocols for operational activities are found useful, it indicates that a standardized approach for training and exercise could be useful as well.



It is important to give observers a specific role and to restrict the amount of observers to a minimum. Furthermore, it is much appreciated if the learned lessons from the last exercise are taken into account for future exercises.

When inviting other EU projects to a regular exercise, the project and the project developments need a certain level of maturity in order to be useful and create benefit. And if there are VIPs invited to the exercise it is better to have a dedicated VIP day, so the real exercise and testing can run more smoothly.

The full reports other lessons learned and recommendations for future Joint Activities can be found in D4.4 (eNOTICE Joint Activities planning Report 3).

#### **D4.9 - eNOTICE Recommendations for CBRN R&D and CBRN policies, Version 2**

WP4, public report, due M24, lead UCL, submitted M26.

Deliverable 4.9 (eNOTICE Recommendations for CBRN R&D and CBRN policies. Version 2) continues the exploration of the European and national policy context and relevance of eNOTICE to the objectives of the European policy regarding CBRN training centres, testing and demonstration sites' role in CBRN preparedness, response and recovery, expansion of the project scope with the collaboration with DG DEVCO, discussions at the CoU sessions dedicated to CBRN policy, civil-military and international cooperation.

The deliverable presents the detailed report on the policy meeting with representatives of German national/regional/local authorities, both civilian and military, that took place during the eNOTICE Joint Activity in Dortmund, Germany, on September 20, 2019. Along with the main advantages of the eNOTICE network recognized by all stakeholders including policy makers – gaining knowledge, exchanging of practices, procedures, lecturers, trainees, trainers, identifying common standards (formal and informal), increasing interoperability of national and EU actors, there is a number of challenges that have to be taken into account. The challenges include personnel resources and time required to maintain the network activities; lack of financial resources, including budget for travels to trainings abroad; language barrier; legal and cultural differences between countries. Civil-military and international cooperation are recognized as an absolute must, however civil-military cooperation still lacks an overall overarching concept guiding both military and civilian actors and defining their collaboration at all levels, facilitating communication, interoperability, joint training.

eNOTICE is in very good position to foster and promote this mechanism by networking the actors. eNOTICE network needs solid sustainability roadmap well ahead the end of the project to ensure the network functioning afterward. It is important to put in place the formal central administration, one central contact point of the network and the whole structure and functioning independent of particular personal contacts in member organizations, because staff changes very often, especially in military organizations.

The major recommendations are related to linking with all existing professional networks, such as national associations of firefighters, etc.; better targeted dissemination of the eNOTICE network to the national actors; look into legal constraints in each country; encompass and take advantage of differences between network members and not try to unify all, since the strength is in the diversity.

## 2.2 Clarification on postponed Deliverables

Two Deliverables, D4.4 on the eNOTICE Joint Activities and D4.9 on policy recommendations have been postponed with resp. 1 and 2 months. Both have been delayed to be able to integrate the most recent information. For D4.4 the deadline of August 31 was too sharp to provide a full report on the past JAs, esp. the JA in Gurcy in May 2019. For D4.9, the report was delayed in order to include the input and conclusions from the policy meeting held in Dortmund on September 20.

## 2.3 Progress in ongoing Tasks

**Task 3.1 Dissemination activities to promote and enhance the web based platform and project results**, expected deliverable: D3.2 – Mid-term dissemination report, due M30 , lead UCL.

SIC has maintained the **Twitter and Facebook** pages for dissemination purposes.

For the period from March 1 2019 to August 31 2019 the project partners presented, discussed and promoted the project and the network at the following **events**:

- 13th Meeting of the Community Of Users on Secure, Safe And Resilient Societies, Thematic Group 2 – CBRN-E, Sub-Theme – Civil-Military and International Cooperation, March 27, 2019, Brussels, Belgium. (Co-chaired by UCL and JCBRND COE), Networks of Practitioners meeting, 29 March 2019, Brussels, Belgium: discussion on eNOTICE role and place in the networks of practitioners, presentation of



network plans and dissemination; the EU CBRN Risk Mitigation Centres of Excellence Initiative 7th International Meeting of the National Focal Points, 12–14 June 2019 – La Dolce, La Hulpe, Belgium: Oral presentation of eNOTICE project and network plans for the Regional Roundtable meetings (UCL, supported by JCBRND COE); CT Expo, March 5-6, 2019, Olympia, London: eNOTICE introduced to a ‘joint organisational learning working group’, showing to JESIP team and discussion at UK National CBRN Centre stand, Operational command course. March 25-28, 2019, UK National CBRN Centre: verbal introduction to eNOTICE and newsletter available at the multi-agency command course for CBRN (WMP), Operational commanders, opportunity to make them aware of the project, and the TC catalogue; CBRN summit, April 9-10, 2019, Birmingham, UK, (discussion with CBRN training centres – WMP, presentation - JCBRND COE); TOXI-Triage Field Exercise in Mikkele, Finland, May 2019 and DRIVER+ IONORE2019 Trial, Austria, September 2019: VESTA participated as observer to share lessons learnt and discuss good practices for the organisation of exercises combined with testing; for both activities, an evaluation report was elaborated which was highly appreciated by the hosting consortia ; April 3 meeting in Smiths Detection, June 6 Visit Specialist Response Solution - introducing eNOTICE within the JCBRND Defence COE Command Brief, April 17 - JCBRND Defence COE Steering Committee Meeting, extra Presentation on eNOTICE to all 14 SC-Nations representatives; June 25-27, NCT Europe, Vienna, Austria - presentation of eNOTICE within the JCBRND Defence COE brief, promoting eNOTICE in side-talks (JCBRND COE) and presentation of UNITOV; July 19, 2019 Seminar – Yale Environmental Health & Safety: experience exchange with US Stakeholders and health & environment experts, presentation. Speaker – UNITOV; April 2019, presentation at BULLSEYE project kick off, Warsaw, Poland, speakers – WSU and CNBOP-PIB; poster presentation at IFRE (International Trade Show) Kielce, Poland, May 2019 (CNBOP-PIB): Interview at Haberturk TV – National television programme, Turkey, 16 April 2019, <https://basinda.metu.edu.tr/17-04-2019/1237259#git> with video demonstration by METU of the serious games developed for eNOTICE; Seminar – Department of Computer Engineering, Hacettepe University (Turkey), 17 April 2019, oral talk with demonstration of the serious games developed for eNOTICE; Conference CBRNE Research & Innovation, Nantes (France), 20 – 23 May 2019, oral talk with presentation of eNOTICE serious games-related research; Seminar – Digital Utopias and Game Technologies, Istanbul, Turkey, 24 June 2019, presentation and demonstration of the

serious games developed for eNOTICE (METU); an article in the internal FDDO Journal on the past and forthcoming Joint Activities (FDDO).

- Large dissemination of the project to multiple external stakeholders – practitioners, policy-makers, industry representatives was made during the eNOTICE Joint Activities: the field exercise organized by SDIS77, May 22-23, Gurcy-le-Châtel, France and the tabletop exercise organized by WMP, July 11, 2019, in Birmingham, UK.
- All the events related to eNOTICE (meetings, Joint Activities...) are relaunched on the UNITOV CBRNe Masters' website, Facebook and LinkedIn accounts.
- As a continuous activity – eNOTICE is being promoted in the professional networks and informal contacts and formal meetings at each partner organisations.

**Task 3.2 Further development and maintenance of the web based platform**, expected deliverable: D3.10 – Semestrial report 1, on the use of the eNOTICE information and communication platform, due M30, lead SIC (former UPB).

This task will maintain and improve the ECC based on ongoing feedback and input e.g. from task 3.4. The upcoming 6-monthly deliverables on the use of the ECC (D3.10-D3.14) will continue the work started in D5.3 and D5.6 and present updated figures on the usage and visitors of the ECC.

**Task 3.4 Integration of platforms and interfaces**, expected deliverable D3.16 - Links to other CBRN networks and platforms, integration and interface functions on the eNOTICE information and communication platform. Report 2, due M34, lead SIC.

Based on the results of the first deliverable in this task (D3.15) actual interfaces will be implemented and the necessary documentation for using these interfaces will be prepared and provided. Furthermore, the work on monitoring related projects and identifying information relevant for eNOTICE will continue.

**Task 4.2 Organisation of joint activities (exercises combined with tests, validations or demonstrations)**, expected deliverable: D4.5 - eNOTICE Joint Activity Planning, Report 4, due M 36, lead VESTA

This deliverable will include the reporting and lessons learned on the following Joint Activities: (1) Birmingham, UK, July 2019, a joint table top exercise organised by West Midland Police; (2) Dortmund, Germany, September 2019, a joint field exercise

organised by the Fire Department of Dortmund; (3) Ankara, Turkey, February 2020, a Joint serious gaming activity to be organised by METU; (4) Ranst, Belgium, May 2020, a Joint Field exercise to be organised by VESTA.

The next report will describe these Joint Activities in detail, as well as the lessons learned and recommendations for future activities.

The provisional calendar of Joint Activities is regularly updated with concrete dates for the following JA's. In these updates, opportunities to collaborate with other projects are taken into account.

#### Updated JA calendar

The updated calendar of the Annual workshops and policy meetings – partially combined with JA's can be found here, present date until the end of the project.

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	<b>Date</b>	<b>Hosting partner</b>	<b>Location</b>	<b>Type of activity</b>	
1	15.09 2017	UCL	Brussels, BE	Project Kick Off Meeting	
2	12-14.12 2017	SDIS77	Gurcy, FR	Multidisciplinary Training Exercise	
3	30.01-01.02 2017	ARMINES + METU	Nimes, FR	Multidisciplinary Exercise preparing Serious Gaming	
4	18-20.06 2018	UCL	Brussels, BE	Bio Mobile Lab Field Exercise	Policy Meeting 1, 20/6 Brussels
5	9-10.10 2018	UNITOV	Rome/Rieti, IT	Multidisciplinary Field Exercise	Annual Workshop 1
6	Jan 2019	JCBRND COE	Vyskov, CZ	Live Agent Testing - Radiological Basic Training Course	
7	May 2019	SDIS77 + ARMINES	Gurcy, FR	Multidisciplinary Field Exercise + Serious Gaming	
8	10-12.07 2019	WMP	Birmingham, UK	Table Top Exercise	
9	20-24.09 2019	FDDO + CNBOP	Dortmund, DE	Multidisciplinary Field Exercise + Table Top Exercise	Policy Meeting 2 Annual Workshop 2

**Table 1 eNOTICE Calendar of past activities September 2017 – September 2019**

10	25-28.02 2020	METU	Ankara, TR	Serious Gaming	
11	May 2020	VESTA	Ranst, BE	Multidisciplinary field Exercise	Policy Meeting 3
12	June 2020		Hannover, DE	Annual Workshop 3 in collaboration with FIRE-IN network project at Interschutz 2020.	eNOTICE Dissemination & annual workshop
13	October 2020	UNITOV	Rieti, IT	Multidisciplinary Field Exercise	
14	Jan 2021	WSU	Warsaw, PL	Table Top Exercise	Policy Meeting 4
15	Apr 2021	FDDO	Dortmund, DE	Multidisciplinary Field Exercise	Annual Workshop 4

16	Oct 2021	JCBRND COE	Vyškov, CZ	Live Agent Testing - Radiological Advanced Training Course	
17	Feb 2022	WSU + CBNOP	PL	Combined Civil-Military Exercise	Policy Meeting 5
18	May 2022	VESTA + UCL	Ranst + Brussels, BE	Multidisciplinary field X + Final conference	

Table 2 eNOTICE Provisional Calendar of future activities from October 2019 – June 2022

**Task 4.3 Identification of opportunities to strengthen policies and recommendations for R&D**, expected deliverable: D4.9 - eNOTICE recommendations for CBRN R&D and CBRN policies, public report, due M24, lead UCL

From March 1, 2019 to August 31, 2019, eNOTICE continued to explore relevant policies and to establish links and synergies with all categories of stakeholders – practitioners, training professionals, policy makers, military experts, technology developers.

A session on Civil-Military and International Cooperation on March 27, 2019, Brussels, Belgium, was led by UCL and JCBRND COE at the 13th Meeting of the Community Of Users on Secure, Safe And Resilient Societies. The discussion was related to the ambition of eNOTICE network of CBRN training centres is to build on civil-military cooperation to overcome the issue of a small market for CBRN-related projects; preceding projects and/or currently procured systems are usually built around the notion of vertical (rather than horizontal) integration which significantly decreases the perspective of procuring new systems, and contributes to a general lack of uptake of R&D results. The ambition is therefore to include cross-sectoral functions and envisage the standardisation of developments and ‘interoperability by design’ to propose common interoperable solutions.

Civil-military cooperation was further explored as a necessary mechanism in a network of CBRN TC, its benefits and challenges were studied from the points of view of communication, interoperability between actors, legal constraints and political will. Mechanisms of strengthening of national actors cooperation at all levels, the role of Member States CBRN focal points as the potential communication hubs for inside country and EU initiatives were discussed both with the national representatives and with DG HOME.

The principles of CBRN TC network building on the basis of strong contacts with national professional associations, comprehensive knowledge and understanding of the needs and perspectives of CBRN TC, wish of all stakeholders to gain knowledge, exchange training programs, trainees and trainers, advantages of the differences and complementarity in training programs and approaches – were all expressed as necessary components for successful networking and cross-border international collaboration.

This continuous task will further work on bringing together the national and EU policies actors, to contribute to the ultimate goal of effective network creation and its sustainability.

#### **Task 4.4 - Plan to pool resources and optimise investments for increased CBRN Training Capacity, lead UMU (until June 2019), new lead UNITOV (from July 2019)**

This task will contribute to the increase of CBRN TC' capacity by elaborating a comprehensive plan to pool resources and optimise investments of CBRN TC.

Two different sources will be collected as input for the process:

- 1) The lessons learnt from the joint activities; evaluation on cost-efficiency and other benefits will be a mandatory section in the T4.1 evaluation form;
- 2) A desk study of good practices to pool resources and optimise investments, incl. description of a sustainability mechanism.

Last July 25th, the final Plan of Action for T4.4 was sent to the partners, defined thanks to the feedback and indications of the project partners. The PoA, in addition to containing the methodological approach for the development of this activity, contained the time schedule necessary for their implementation.

The first phase of development of the activity began, aimed at identifying useful references at methodological level and at determining the applicability of these to the specific context, a network of TC CBRN.

In order to develop this first phase, a literature research on pooling resources techniques has been carried out, together with an overview of the activities and services currently provided (or under development) by the eNOTICE network (resources), reconstructed on the basis of internal reports and presentations on its development.

The results of this first phase of the study were presented during the JA in Dortmund on 20-23 September.

**Task 5.1 Consortium Management**, expected deliverable: D5.8 Mid-term management report, due M30, lead UCL

The activities on consortium management in Task 5.1 comprise the implementation of the Project Management Plan (D5.1) and monitoring of the administrative and financial aspects of the project, ensuring timely and complete fulfilment of the Grant Agreement conditions on the project implementation, liaising tightly with the tasks on the technical knowledge management (Task 4.2) and ethical, security and legal boundaries identified in Task 4.3.

Progress March 2019 to August 2019:

- The First Periodic Report comprising the first 18 months of the project was prepared by the project partners, and completed.
- The project Grant Agreement Amendment was prepared and signed to incorporate replacement of UPB partner with SIC partner, and termination of UMU partner.
- Face-to-face whole consortium meetings were held during the eNOTICE Joint Activities - field exercise organized by SDIS77, May 22-23, Gurcy-le-Châtel, France and the tabletop exercise organized by WMP, July 10-12, 2019, in Birmingham, UK, and whole consortium teleconference call was held on August 29, 2019 to prepare for the Policy Meeting and Annual Workshop in Dortmund in September 2019.
- Links have been further deepened with SEC 21 networks of practitioners - FIRE-IN (a joint dissemination event for both projects is now planned at Interschutz fair in June 2020), iLEAnet, I-LEAD, NO FEAR; CBRN Cluster part a) project ENCIRCLE and part b) project TERRIFFIC that participated in eNOTICE Joint Activity in Gurcy on May 22-23
- eNOTICE supported the H2020 CBRN research project PROACTIVE in completing and signature of its Grant Agreement by fixing its participation as active scenario player in three eNOTICE Joint Activities in 2020, 2021 and 2022. First face-to-face coordination meeting was held between eNOTICE and PROACTIVE partners in Birmingham, UK on July 10, 2019.

**Task 5.2.1 - Quality management: development of a continuous improvement methodology, incl. process and result indicators to follow up the project's performance**, expected deliverable: D5.11, due M 36, lead Vesta



The third quality monitoring process is planned for December 2019-January 2020. The results will be described in the next progress report, due M 36.

**Task 5.2.2. Evaluation of the functioning of the web based platform:** D5.6 - eNOTICE evaluation report on the functioning of the information and communication platform Y2, due M22, lead FDDO.

This task preliminary monitoring results and an analysis of visitor data of the eNOTICE information and communication platform. Information such as the number and location of visitors, search terms used to find the eNOTICE website, visitor flows and device data is continuously monitored, registered and analysed to gain a deep understanding of who the visitors are and what they are trying to achieve.

A basic methodology of the evaluation was already established in the predecessor deliverable (D5.3), the actual evaluation of the ECC will start in August 2019 with results being presented in the successor to this deliverable (D5.9, June 2020).

**Task 5.2.3. Evaluation of the methodology and templates for the preparation, organisation, evaluation and follow up of exercises combined with tests, validations and demonstrations,** expected deliverable: D5.10 eNOTICE evaluation report on the preparation, organisation, evaluation and follow up of exercises combined with tests, validations or demonstrations - Report 1, due M36, lead UNITOV

Task 5.2.3 is dedicated to the continuous evaluation of the methodology and templates, elaborated in Task 4.1 to be used for the preparation, organization, evaluation, and follow up of exercises, combined with tests, validations or demonstration.

Progress May to September 2019: Until the release of this report, the first eight JAs have been performed. As mentioned in the previous progress report, the fact that most often the training centres already have procedures for organizing the exercises, causes that the templates have been partially used for the preparation (information sheet, debriefing forms etc.) and fully used as format for the reporting (See D4.3).

A further evaluation of the use of the templates during this exercise will be possible thanks to the Third report on the JAs (D4.4, postponed to October 2019 ). Thus, it will be possible to compare this evaluation with the complete feedback on the eNOTICE templates, provided by UCL, organizer of the JA in Brussels (D4.3).

During the JA in Gurcy, 20 - 24 May, the under-use of the templates has been debated among partners. In general, the common difficulty of moving from the formats already developed by the individual centres to those developed within the eNOTICE project was underlined. Instead, the functionality of the formats dedicated to the organization of joint activities was found. For this type of activity, unusual for TCs, templates or dedicated guidelines have not already been developed within TCs.

It makes sense, in the activity of this task, to further develop this type of template, intended for one of the activities that characterize the eNOTICE network.

However, the effectiveness of the proposed templates will be monitored in task 5.2.3, as the project's JA are performed (and corrective measures will be proposed), to ensure that the CBRN TC already in the network (and that usually are confident with their own, well established, templates) understand the benefit of using the eNOTICE templates for a Joint activity and any other exercise or demo, combined with testing.

**Task 5.2.4 - Evaluation of the quality label, web based search function and recommendations for certification**, expected deliverable: D5.19 eNOTICE evaluation report on the CBRN TC capacity label and web-based search function and recommendations for certification – due M58, lead UNITOV

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Task 5.2.4 is dedicated to the evaluation of the capacity label, developed in Task 2.2 and the corresponding search function at the web platform. The capacity label is intended to facilitate the search of users in finding a suitable CBRN training centre, in terms of location, capabilities/expertise and facilities/infrastructure.

Capacity label development work continues. Since the initial formulation of the capacity label, proposed in D2.2, the debate on this instrument has been continuous and constant. Thanks to the indications of the project partners, especially thanks to the feedback of the TCs core members of the network, icons have been added to identify the TCs able to play serious games and to distinguish between Civil and Industrial training centers.

The definition of the label has undergone a further impulse thanks to the involvement of the new TCs members of the network, to whom the capacity label was presented during the JA in Dortmund. Also on this occasion, the tool has received a lot of attention, many of the suggestions and indications emerged have been analyzed during the project meeting of the same JA and will be taken into account for the development of the Label.

**Task 5.3 Security, legal and ethical aspects**, lead UMU until June 2019, lead VESTA from July 2019

There is no distinct deliverable on security, legal and ethical aspects, which are continuously monitored. The current status is included in the semestrial Progress reports (see below, Chapter 2.6)

## 2.4 Milestones

There was one important milestones to be achieved during this reporting period (M19-M24), which is the full operational web-based platform M24. The platform is now fully operational, available online at <https://www.h2020-enotice.eu/> and described in detail in D3.6-D3.9.

## 2.5 Overview of the results in the three lines of actions

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The following results were obtained in the mandatory Lines of actions:

### **Roster of capabilities and facilities**

- Continuous update of the Roster which is the list of possible EU CBRN Training Centres.
- Further establishment of the Catalogue in a database with 42 registered members (+ 2 since the last report)
- Finalization of the Quality label, renamed Capacity label, on the basis of the suggestions and indication provided by external TCs invited during the JA in Dortmund.
- Visibility of the confirmed members on the eNOTICE webbased platform

### **Opportunities to share expertise**

- Organisation of Joint Activities, between eNOTICE partners and other ongoing EU projects: Gurcy (FR), May 2019; Birmingham (UK), July 2019; Dortmund (DE), September 2019.
- Invitation of national and EU experts to eNOTICE Joint Activities: representatives from MELODY,

PROACTIVE, NO-FEAR, TARGET, FIRE-IN, SAYSO, I-RAPTER, TERRIFFIC, HOPICAMP.

- Participation of eNOTICE partners in national and EU activities, meetings, conferences such as CBRNe Summit Europe (Birmingham, UK), NCT Europe (Vienna, Austria), meetings of the Community Of Users on Secure, Safe And Resilient Societies (Brussels, Belgium)
- Participation of eNOTICE partners as invited observers to other H2020 projects such as TOXI-TRIAGE (DISPERSE Exercise, Finland) and DRIVER + (IRONORE2019 Trial, Austria).
- Information on the cost of organising Joint Activities (exercises combined with test) has been collected for the past JA and will be used in a structured way to elaborate recommendations to pool resources in Task 4.4. which starts in M17. With the same objective will be analyzed the benefit for the network partners, deriving from the use of the common services provided from the eNOTICE network.

**Plan to pool  
ressources**

## 2.6 Monitoring results on security, legal and ethical aspects

During the Joint Activities (JA) security, legal and ethical aspects have been handled according to the project plan. Each participant, whether from the project participants or from external organisations, have to certify that they are aware of security issues in connection with the JA. Each participant are also informed of the ethical issues connected to the JA and have to sign a declaration of agreement if they want to participate. Each partner that is organising the JA make sure that this work is carried out. In task 5.3 the fact that the work is carried out in agreement with the plan is monitored.

The GDPR entered into effect from 25 May 2018. The project has considered the effects that it will have on the data that is used and how it is managed. In the subtask a policy on how to handle personal data and how to store or ask for data has been developed. In principle

the idea is that everyone involved have to agree on sharing their data if and when the project needs to store or manage data that can be considered as affected by the GDPR.

GDPR compliance has been ensured for the dissemination of the eNOTICE Newsletter.

A more comprehensive approach of legal, ethical and security issues is being prepared.

### 3. Conclusions

The report shows that the foundations to build a European network of CBRN Training Centres are gradually established:

- relevant TCs, as possible members of the network have been identified and contacted, 42 TCs have confirmed their interest; (+2 since the last report) ;
- the web-based platform is online, fully operational and will be further developed step by step with more information and more functions ;
- the eNOTICE project is becoming well known in the community of CBRN research projects, national experts and competent authorities, thanks to active participation of the partners in other projects, activities and conferences;
- links to other relevant initiatives have been established, such as with DG DEVCO, TOXI-TRIAGE, ENCIRCLE, the CoU Networks of Practitioners workshops , DRIVER+;
- a structural and strategic collaboration was established with the H2020 project PROACTIVE, which planned in their DoA to join the eNOTICE Joint Activities for their testing and validation ;
- the foundations for a sustainable approach and plan have been elaborated and will be continuously updated to ensure a mature network by the end of the project.