



eNOTICE

European Network Of CBRN Training Centres

D3.3 Final dissemination report

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Dissemination level

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4	Association pour la recherche et le développement des méthodes et processus industriels (ARMINES)	X
5	Fire Department Dortmund (FDDO)	X
6	Safety innovation centre (SIC)	X
7	Joint CBRN Defence Centre of Excellence Vyškov (JCBRND COE)	X
8	Middle East Technical University (METU)	X
9	University of Rome Tor Vergata and The Italian Joint NBC Defence School (UNITOV)	X
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Executive Summary

This document is Deliverable 3.3 (Final dissemination report) of eNOTICE, a European Horizon 2020 EC funded project, under the Grant Agreement n° 740521.

This dissemination report provides the results of the eNOTICE project dissemination performed from the project mid-term to the end and outlines further corresponding activities aimed at supporting the best possible integration methods promoting synergy between the partners' efforts and merging results into existing EU mechanisms of intervention and crisis management procedures inside and outside Europe in the CBRN threats domain.

The dissemination of knowledge in eNOTICE involves different activities aiming to raise as much awareness of the European network of CBRN training centres as possible. The process involves three different types of dissemination:

- promotion of the capacity of CBRN training centres (TC), testing and demonstration sites to all stakeholders
- promotion of the network and its web-based platform (eNOTICE Community Centre) to the possible users, and
- promotion of the project results, such as effective practices (cf. D4.1 and D4.6 - the eNOTICE Methodology of joint activities organization, planning, implementation, reporting and follow up, check lists and templates), lessons learnt from the joint activities that serve as show cases (Task 4.2), opportunities for harmonisation, standardisation, the plan to pool resources (Task 4.4), etc.

The targeted information materials have been developed and spread to relevant stakeholders,

The project dissemination targeted a balanced mix of different initiatives to maximise the outreach to the all stakeholders – training centres and training professionals, local, regional, national and EU authorities and policy makers, practitioners, scientists, industry, civil society, etc.

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1 eNOTICE project achievements at conclusion

1.1 The project reached objectives

The main objective of the eNOTICE project – European Network of CBRN Training Centres – has been achieved, a dynamic, functional and sustainable pan European network of CBRN Training Centres, testing and demonstration sites (CBRN TC) has been established with the aim of building enhanced capacity in training and users-driven innovation and research, based on well-identified needs.

At the conclusion of this project, eNOTICE has matured to the point where it can contribute to capacity and capability building in the field of institutional and collective preparedness and response to CBRN cross-border events. Having mapped and labelled the capabilities of European training centres (TC), they are now categorised based on their expertise, training and testing capabilities, training infrastructure and specificities, and linked together via a continuously updated online information and communication platform, the so called eNOTICE Community Centre (ECC). From now on, this highly visible cooperative network is in a position to develop cross-disciplinary activities that bring together CBRN and safety stakeholders while striving for practitioner interoperability and procedure harmonisation.

The network is open to end users and training professionals, e.g. police, firefighters, civil protection, as well as policy makers at EU and national levels, and technology suppliers (R&D actors, SME and industries). The network welcomes technology suppliers, innovation providers and researchers to participate in eNOTICE Joint Activities, especially when the development of their CBRN R&D projects or technology requires a training centre site for demonstrations and trials. This has resulted in eNOTICE establishing fruitful relationships with national industrial trade associations in several European Member States, including Germany, the Netherlands, and Belgium.

1.2 eNOTICE results and impacts achieved through successful dissemination and communication

eNOTICE has evolved into a "dynamic and synergistic interdisciplinary network" that actively seeks cross-border collaboration and interoperability through the coordination of inter-institutional multidisciplinary and multiagency exercises, with the goal of supporting a wide range of complex and diverse training scenarios, such as hybrid threats, emerging threats, combined chemical, biological, and radiological threats, as well as exchanging knowledge, and testing cutting-edge technology at various levels of maturity.

This type of collaborative activity is made possible by the network's diverse range of interconnected expertise and synergies. eNOTICE thus significantly contributes to improving collective and individual preparedness for a cross-border response to CBRN threats, as well as increasing the safety, security and resilience of responders and the population. By focusing training and teaching activities on a standardised cross-border approach, eNOTICE aims to assist in the legal, administrative, and organisational requirements as well as the protocols and

standards of neighbouring countries. These objectives support European policies in the field of security, particularly those defined by DG HOME, DG ECHO and DG INTPA. In a similar way, eNOTICE is an excellent source of recommendations for the European Union's R&D programmes, based on regular feedback from CBRN training professionals and practitioners, as well as lessons learned from joint activities.

With the extensive effort of the eNOTICE consortium partners on the project results and activities promotion during the whole lifetime of the project, the high strategic value of eNOTICE is now better perceived by national, European, and extra-European authorities, as well as all other networks of first responder practitioners, at the end of this project and in light of growing political and economic instability, which significantly increases the level of risk. This is demonstrated by the steady increase in collaboration within and outside Europe, invitations to interact and collaborate with other networks, and multiple colloquia with experience exchanges and joint action planning.

Taking part in Joint Activities such as field exercises, table tops, simulations, serious games, CBRN risk courses and workshops, and observing the CBRN intervention exercises organised by eNOTICE consortium partners, enabled to identify best practices for preparing and organising stand-alone exercises and exercises combined with tests, validations or demonstrations. eNOTICE has developed a standardised efficient method to facilitate and improve the organisation, evaluation and follow up of these joint activities. One of the achievements was to improve the communication between observers and participants in order to help them in making the different phases of a CBRN exercise more audible and understandable during its execution (e.g. by including narrators familiar with the procedures tested during the exercise). eNOTICE has developed a methodology for the planning, preparation, organisation, and reporting of joint activities, with templates and checklists made available to network members. According to expectations, future CBRN exercise scenarios, whether conducted by eNOTICE or not, are expected to benefit from these methodological improvements.

Thanks to its networking nature, and the right communication strategy, eNOTICE has established numerous collaboration contacts with R&D CBRN-related projects, many of which participated in eNOTICE Joint Activities as active participants in the scenario, or as observers. One of the major outcomes of this project is the pooling-sharing strategy to save resources while maximising results, and the fact that it is bearing fruit. A convincing example was the inclusion for the first time of vulnerable people (people with various physical or mild mental disabilities such as blind, deaf people, people with paralysis of limbs, people with autism, children or elderly thanks to the PROACTIVE project's contribution to the joint component of the activities) in exercises organised by the Fire Department Dortmund Germany, the University of Rome Tor Vergata and the Italian Joint NBC Defence School, and Campus Vesta Belgium in their respective training grounds at the eNOTICE Joint Activities. It provided a better understanding of the needs of first responders in terms of training and procedures for addressing this specific population group.

Another added value of multidisciplinary field exercises and demonstrations was the incorporation of emerging technologies such as advanced robotic technologies, e.g. through participation of TERRIFFIC project in the exercise in Gurcy-le-Chatel, France, in May 2019, or virtual (VR) and augmented reality (AR) in joint CBRN activities. Relayed by the Middle East Technical University of Ankara, Turkey, this is one of the major eNOTICE's areas of

interest as AR and VR are increasingly used to safely train first responders to efficiently respond to very dangerous situations. This led eNOTICE to collaborate with VERTiGO and SHOTPROS projects.

Overall, the participation of innovation providers and researchers together with SME and larger business organisations has enabled participants in eNOTICE collaborative activities to evaluate, test, and integrate emerging technologies as part of the global “innovation push dynamic”. The Joint Activities of eNOTICE provided indeed opportunities for industries and academic innovation to be presented and explained to practitioners. Some eNOTICE-driven innovations have made their way directly into practitioners' workflows. This was highlighted by the most recent joint activity at the Vesta Campus in May 2023, when new toxin and pathogen identification methods were successfully tested for the first time in the B-LiFE mobile field laboratory and are now part of the laboratory's capacity and capability.

Another significant outcome of this project is the role of eNOTICE as a catalyst for multidisciplinary exchange on CBRN risk management. This is evidenced by the increasing participation of other European projects in eNOTICE activities and objectives, such as H2020-ENCIRCLE, ISF-MELODY, and TRANSTUN, European Space Agency IAP/ARTES-20 B-LiFE, networks of practitioners such as FIRE-IN and NO-FEAR, and other networks part of the Union Civil Protection Knowledge Network (UCPKN), or clusters such as RESIST and INCLUDING.

The emergence and global spread of COVID-19 pandemic crisis has caused unprecedented obstacles with far-reaching effects on how people worked and direct implications on the progress of European projects such as eNOTICE. National lockdowns and travel bans have compelled projects participants to use information and communication technologies to ensure business continuity while working remotely. This was a significant obstacle for eNOTICE, as the core of this project is the participation of network participants in joint activities which were primarily ground exercises organised by training centres. However, the eNOTICE consortium took advantage of these general travel bans and kept the dynamics of the network meetings by organising online webinars in different fields of CBRN training and technologies. One of the most significant webinars that gathered many participants, was the webinars on just-in-time training (JiTT) in response to emerging crises. These round tables, prompted by the pandemic, revealed the enormous potential offered by eNOTICE in terms of the rapid exchange of vital information, procedures and guidelines, resulting in practical and concrete response to atypical acute crisis situations. The eNOTICE network of multidisciplinary partners and experts expresses this potential, amplified by each of their individual contacts and personal networks. In this regard, eNOTICE has proven to be an exceptional tool for fostering multinational and multidisciplinary exchanges on the most efficient and fastest ways to prepare for and respond to emerging threats and delivers threats-specific JiTT, making it ideal for rapidly adapting training procedures to a changing world with new threats.

2 Dissemination and communication strategy

The eNOTICE dissemination objectives were guided by the project's overall objectives of elaborating a framework for EU CBRN TC networking, operational transactional framework on pooling the resources and establishing a web-based information and communication

platform as a major mean of dissemination. eNOTICE dissemination objectives have been instrumental to achieving these overall objectives and they were to:

- **Guarantee proper dissemination of the project findings and results** to the broadest European audience possible, including the general public and the media where appropriate. European CBRN stakeholders, all relevant parties within the CBRN market including industry and practitioners are kept up to date on the latest developments within the eNOTICE project. This was achieved through a range of traditional in combination with novel dissemination techniques including digital channels such as videoconferencing and social media communication, and organised discussions on the topic of the role and place of CBRN training centres.
- **Follow the defined methodology for dissemination** to support creation of awareness and spread of information to stakeholders (elaborated in the initial dissemination plan D3.1, in D2.3, and the updated mid-term dissemination plan of D3.2) with an interest in the network of CBRN TC and to facilitate information exchanges with external parties.
- **Enhance the project's impact by supporting eNOTICE training centres visibility.** eNOTICE results have been meant to maximise its input given to European and national policy-makers, especially those that have influence over the future European and national CBRN research and training agendas.

2.1 Target audience

eNOTICE dissemination activities and communication strategy aimed at coverage of the widest audience possible given the available amount of resources. eNOTICE objective was to reach out to CBRN, security and crisis management stakeholders at the local, national, European and where relevant worldwide level to increase their involvement in the network and their willingness to play a key role in innovation through networking and training centers visibility.

D2.3 defined the *key groups of stakeholders* who have a role and interest in the objectives and implementation of the network of CBRN training centres include the following main categories:

1. The first category is **eNOTICE partners/beneficiaries**. This group is distinguished temporarily for the five years of the project duration, for the internal purposes of self-assessment, of initial analysis of the needs and gaps, while later on all eNOTICE partners will be considered as Customers of the created network, as it should be sustainable and enduring over the project's end. Now the eNOTICE beneficiaries are the core of the network, these are those enthusiastic starters who believe in the success and are doing all their best for building the corresponding operational community. The eNOTICE beneficiaries are:

- training centres and training professionals, who have profound knowledge and experience in various aspects of CBRN training. The needs of these partners, their opinions and expectations from the network, their understanding of the goals, of the challenges, of the existing gaps and the possible ways to fill the gaps, largely reflect the needs of the future network.

- non-training centre partner (SIC) who support the consortium by developing the web-based information and communication platform, thus understanding and analysing in deep all the requirements of the community to ensure that the platform will become an efficient tool and real facilitator of the community building and network creation.

Some partners have a combined profile: UCL Centre for Applied Molecular Technologies (UCL-CTMA) is the eNOTICE Coordinator. UCL-CTMA is a mixed academic-clinical biotechnological platform, it tightly integrates the bio technology R&D pillar and CBRN operational pillar; and St Luc academic hospital (Cliniques Universitaires St Luc, Brussels) provider for clinical development and testing in molecular genetics and associated clinical research. UCL-CTMA has developed and owns an operational light deployable analytical capacity for rapid identification of life-threatening pathogens with extensive practical use of the mobile capacity (such as during the deployment in West Africa in 2014-2015 in response to Ebola outbreak, in 2020 deployment in Piedmont Region of Italy in response to COVID-19 pandemic, multiple training missions such as training of Moldovan first responders in response to refugee crisis in the region in 2022), and international training exercises of Rapid Response Mobile Laboratories led by GOARN/WHO. Thus UCL-CTMA combines the vast experience as a practitioner and training activities related to the mobile capacity, the related technology development expertise, has internal expertise and receives extensive support of the university administration in EU collaborative projects management. VESTA, the eNOTICE Technical coordinator, is a large training centre with an established research department. ARMINES and METU are research and development partners bringing their expertise and developments in simulations and serious gaming as well as their CBRN training network.

These combined profiles of some eNOTICE beneficiaries prove that strict categorisation referring an organisation to a particular type of stakeholders is often not possible, while many organisations can be related to different categories at the same time. Specific profiles that fit in multiple categories should also be taken into account.

2. Customers (results beneficiaries, users). This group consists of several sub-groups of the stakeholders who benefit from the results of eNOTICE project and network:

a) **Training centres.** Currently this group are the CBRN training centres located in Europe, who are not partners of eNOTICE consortium. However, after the end of the project, the consortium TCs will move to this group, being the core of the network. Naturally, the TCs are the main targeted focus of attention of eNOTICE network, it is exactly the TCs who are being contacted by eNOTICE partners to describe their training facilities, perspectives and to express their needs and hopes for the network participation. TCs have all the necessary infrastructure and resources to train users of all disciplines.

CBRN Training centres (external to eNOTICE consortium):

Seibersdorf Labor GmbH	Austria, Seibersdorf
Provinciaal instituut vorming en opleiding Vlaams-Brabant	Belgium, Asse
Belgian Civil Protetcion	Belgium, Brasschaat
Centre de Technologies Moléculaires Appliquées	Belgium, Brussels
PLOT - Provincie Limburg Opleiding en Training	Belgium, Genk
International CBRNE Institute	Belgium, Les Bons Villers
ISEC – Industrial Safety & Emergency Consult	Belgium, Melsele-Beveren

Belgian Nuclear Research Centre SCK•CEN	Belgium, Mol
Provinciaal Opleidingscentrum voor Veiligheidsdiensten	Belgium, Zedelgem
Vojenský výzkumný ústav, s. p.	Czech Republic, Brno
Population Protection Institute	Czech Republic, Lazne Bohdanec
Estonian Rescue Board	Estonia, Tallinn
Sisekaitseakadeemia: Estonian Academy of Security Sciences	Estonia, Tallinn
South-Savo Fire Services	Finland, Mikkeli
Emergency services training centre of West Finland	Finland, Pori
Cedre	France, Brest
ESSEC IRENE	France, Cergy Pontoise Cedex
NATO School Oberammergau	Germany, Oberammergau
CBRN Defense, Safety and Environmental Protection School CDSEPS	Germany, Sonthofen
Training Base Weeze GmbH & Co. KG	Germany, Weeze
Centre for Energy Research (MTA EK)	Hungary, Budapest
HDF CBRN Area Control Centre	Hungary, Budapest
Hungarian Defence Forces Medical Centre Mobile Biological Laboratory	Hungary, Budapest
National University of Public Service, Faculty of Military Sciences and Officer Training	Hungary, Budapest
HDF 93rd CBRND BN	Hungary, Székesfehérvár
CISAM	Italy, Pisa
Fondazione SAFE	Italy, Soave
Defence CBRN centre / National Training Centre (NTC)	Netherlands, Vught
Epidemiological Response Centre of The Polish Armed Forces	Poland, Warsaw
CBRN Area Control Centre	Poland, Warsaw
Centro de Ciências e Tecnologias Nucleares (C2TN)	Portugal, Bobadela LRS
CBRN Defence Training Base “MUSCEL”	Romania, Câmpulung
International Security and Emergency Management Institute, n.p.o. (ISEMI)	Slovakia, Zilina
Ministry of Defense, Slovenian Armed Forces	Slovenia, Ljubljana
Spanish National Police	Spain, Linares
INTA	Spain, San Martín de la Vega, Madrid
Centro Adiestramiento Desactivación de Explosivos y Defensa NRBQ CADEX-NRBQ	Spain, Valdemoro
Institut Supérieur d'Etudes de Protection Civile	Burkina Faso, Ougadougou
Vinča Institute of Nuclear Sciences	Serbia, Belgrade
Ecole nationale des douanes	Tunisia, Tunis
National University of Civil Defence of Ukraine	Ukraine, Kharkiv
State Scientific and Research Institution ' Chornobyl Center for Nuclear Safety, Radioactive Waste and Radioecology '	Ukraine, Slavutych

The Training center for experts on chemical, biological, radiation safety of the Republic of Uzbekistan	Uzbekistan, Tashkent
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b) **Practitioners and operators.** Training centres and training professionals are tightly connected to practitioners and technology operators, as they organize trainings for them. TCs work with practitioners every day. Practitioners of all disciplines – fire brigades, rescue teams, police forces, medical services, civil protection, security and defence experts, logistic services deployed for incident management, competent authorities, information and communication experts, specialized services (water management, hazmat, etc.) – they all benefit from trainings organized at TCs, thus they are an integral part of the eNOTICE network. This group includes also European Networks of Practitioners projects.

c) **Technology suppliers, research and innovation providers.** These are representatives of research and development organisations, large industry, small and medium enterprises (SMEs), academia, research institutes, research units linked to ministries or agencies, etc. – all those who design and develop technologies used by practitioners and operators in their everyday work. TCs, testing and demonstration sites are an excellent testing playground for practitioners to test new technologies, products, services and provide immediate feedback to the technology suppliers. This group includes also current CBRN R&D projects.

d) **Policy-makers.** Policy makers and regulators – regional, national, EU authorities, agencies - members of European, intergovernmental and/or governmental regulatory agencies that ensure compliance with laws, regulations, established rules, as well as individuals who set the plan pursued by a European, intergovernmental and/or governmental institution level, having the authority to set the policy framework of an organization. Especially those who influence the decisions to use CBRN TCs services, technology or facilities as field capacities in CBRN preparedness activities to fund research and use of the TCs. Regulatory bodies underpin all the groups and activities.

3. **Society.** This group are EU citizens who benefit from the security technologies, products, services and processes and pay for them indirectly (e.g. through paying taxes, buying products, paying for health care services, drugs and vaccines, etc.) and are ultimate end-user for all security-related activities. These are public at large, NGOs, Civil Society Organisations, education (schools) and training organizations. The reach-out and communication with the society groups were largely reinforced in eNOTICE by involvement of the organisations in Germany, Italy and Belgium who helped to involve citizens volunteers in the corresponding 3 eNOTICE exercises (in collaboration with H2020 PROACTIVE project). The following civil society and citizens organisations were approached by eNOTICE training centres FDDO, UNITOV+ Rieti NBC School and VESTA and involved in the exercises -

in Germany:

- General Fire Service (professional and volunteer)
- HazMat Team
- Decontamination Unit
- Command and Control Structure
- Analytical Task Force (CBRNDet-Team)

- DB AG – German Rail Security
- RUND – realistic accident actors
- Red Cross
- Psychological Care Unit of FDDO
- Federal Association of Lebenshilfe

in Italy:

- CARIS Tor Vergata (<http://caris.uniroma2.it/>),
- Save the Children organization,
- CARITAS Rieti.

The involvement of these societal organisations made it possible to have out of a total of 105 participants in the exercise in Rieti in November 2022 as many as 38 civilian volunteers including 14 vulnerable individuals (elderly people, minors, people with mobility restrictions, hearing and visual impairments).

In Belgium:

- Akabe Edegem: A scouting group for children with or without disabilities
- OKRA Broechem: an association for seniors
- Symfoon: a platform for people that have a visual impairment
- De Merode: an elementary school for specialised education for children with e.g. Autism Spectrum Disorder
- Pegode: a networking organisation for people with a disability, for example providing housing

The described different categories and subcategories of stakeholders are illustrated in Figure 1.

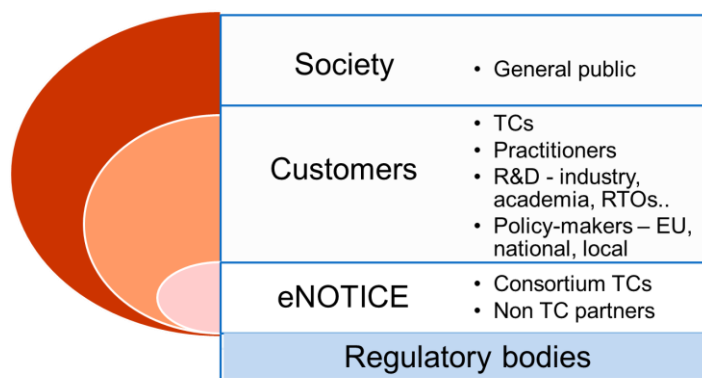


Figure 1. Stakeholders of the network of CBRN training centres.

And the key actors of the network of CBRN centres are shown in Figure 2:

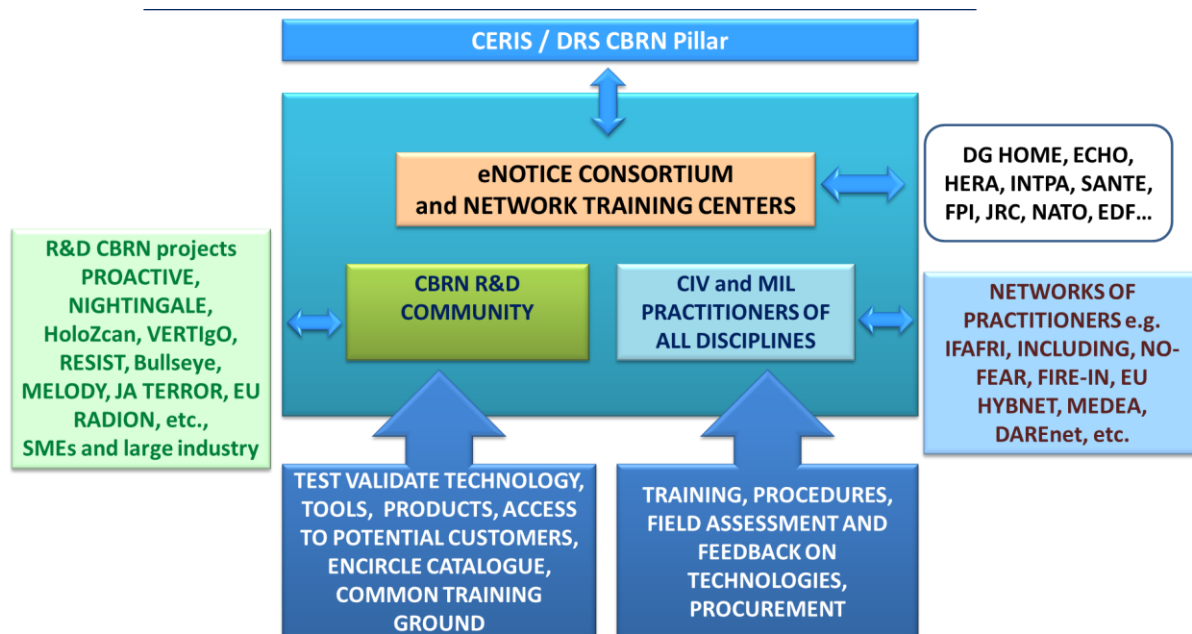


Figure 2. Key actors of the network of CBRN training centres

The list of particular stakeholder organisations from all groups was presented initially in Deliverable 3.1 Dissemination Plan, was updated in Deliverable 3.2 Mid-term dissemination plan and has been regularly updated since then. This list contains stakeholders of all groups including CBRN training centres that filled the eNOTICE questionnaire describing their training capability, facilities, expressed the wish to be visible to the community. The following organisations regularly receive the eNOTICE information:

Practitioner organisations that were contacted by eNOTICE partners, approached eNOTICE themselves during the face-to-face meetings, Joint Activities, or retrieved information about the project from the newsletters or at the website:

- AGBF Baden-Württemberg/Fire Department Heidelberg, Germany
- AGBF Berlin/Fire Department Berlin, Germany
- AGBF Brandenburg/Fire Department Potsdam, Germany
- AGBF Hamburg/Fire Department Hamburg, Germany
- AGBF Hessen/Fire Department Offenbach a.M., Germany
- AGBF Niedersachsen/Fire Department Goettingen, Germany
- AGBF Rheinland-Pfalz/Fire Department Kaiserslautern, Germany
- Association Pegase, SAFE Cluster
- Armed Forces Scientific Institute for Protection Technologies, Germany
- Association of Chief Police Officers, UK
- Association of Chief Police Officers Scotland, UK
- ATF Fire Department Hamburg, Germany
- ATFB Essen, Germany
- BBK ATF, Germany
- Belgian Civil Protection
- Belgian Defense Laboratories (DLD)
- Belgian Federal Police
- Bundeswehr CBRN Defence Command, Germany
- Bundeswehr Institute for Microbiology (IMB), Germany

- Belgian First Aid and Support Team B-FAST
- Carabinieri, Italy
- CBRN Area Control Centre, Poland
- Center for Biosecurity and Biopreparedness, Denmark Statens Serum Institut
- Centre for Defence Chemistry, Cranfield University, UK
- Center for Military Medicine, Finland
- Centre for Simulation & Analytics, Cranfield University, UK
- Chief Fire Officers Association, UK
- Defence Science and Technology Laboratory – DSTL, UK
- Direction générale de la Sécurité Civile SPF Intérieur, Belgium
- European Centre for Diseases Control (ECDC)
- European Centre for Development Policy Management (ECDPM)
- EC DG ECHO
- Emergency Response Coordination Centre (ERCC)
- Estonian Academy of Security Sciences
- European Defence Agency
- European External Action Service
- EU CBRN Centre of Excellence
- Europol
- Federal police, Belgium
- FN La Maranosa, Spain
- Fire Brigade Zaventem, Belgium
- Fire Department Bremen/DFV, Germany
- Fire Department Cologne, Germany
- Fire Department Dortmund , Germany
- Fire Department Frankfurt/VFdB, Germany
- Fire Department Münster, Germany
- Fire Fighting Zone Antwerp, Belgium
- Forum ABC-Abwehr - CBRN Defence, Austria
- GeoRessources, Université de Lorraine, France
- Interpol
- Italian Civil Protection
- Italian National Health Service
- Health Protection Agency, Centre for Emergency Preparedness and Response, UK
- Hellenic National Defence General Staff (HNDGS crisis management centre), Greece
- Home Office - Office for Security and Counter Terrorism, UK
- International Emergency Management Society
- International Atomic Energy Agency (IAEA)
- International CBRNE Institute
- Jyväskylä University School of Business and Economics, Finland
- KEMEA, Greece
- Laboratoire central de la préfecture de police (LCPP), France
- Luxemburg Grand-Ducale Police
- Military Corps of the Italian Red Cross
- Ministry of Interior - Department of Firefighters, Public Rescue and Civil Defence
- Netherlands National Police
- Northern Ireland Fire and Rescue Service
- On-Site Technical Assistance to CBRN CoE, Belgium
- Pasteur Institute, France
- Police Service of Northern Ireland, UK
- Protection and Guard Service, Spain

- Public Health England
- Sapienza University of Rome
- Secrétariat Général de la Défense et de la Sécurité Nationale, France
- Scottish Fire and Rescue Service
- Spiez Laboratory, Federal Office for Civil Protection FOCP, Switzerland
- Technical Response Force, UK
- TEK (Counter Terrorism Centre), Hungary
- THW Iserlohn, Germany
- THW Ortsverband Quedinburg, Germany
- The National Fire Corps, Italy
- The 7th CBRN Defense Regiment “Cremona”, Italian Army
- UNICRI
- Università Cattolica del Sacro Cuore, Italy
- University Hospitals Leuven, Belgium
- University of Belgrade, Vinča Institute of Nuclear Sciences, Serbia
- University of Defence, Faculty of Military Health Sciences, Czech Republic
- VdF NRW, Germany
- Vfdb, Germany

Technology suppliers

This target audience is represented through security and crisis management industry and research institutions developing CBRN and crisis response related products, services, processes and technologies.

eNOTICE partners have provided points of contacts for the following technology supplier organisations. A database including, names, references and history of contacts is maintained by UCL.

- 2N35 (CBRNe, SME), Germany
- Active Technology Transfer Europe, the Netherlands
- Arescosmo, Italy
- Aurea Imaging, Belgium
- Belgian Defence Laboratories (DLD)
- Bertin Technologies, France
- BMD Spa, Italy
- Boehringer Ingelheim
- Bruker Daltonik GmbH, Germany
- BT-InnoVaChem s.r.l., Italy
- CBRNE Ltd, UK
- CEA, France
- Centre for Research on the Epidemiology of Disasters – CRED, Belgium
- CIEMAT, Spain
- CISAM - Joint Center for Military Studies and Applications, Italy
- Crisis Information Centre, Poland
- Cristanini, Italy
- Die Johanniter, Germany
- Drone Ops Ltd, UK
- The Dutch Laboratory Network Terror Attacks - LLN-ta
- The Dutch Network of Excellence Environmental Incidents – BOTmi
- Department management of Scientific and Technological Research for Defense, Belgium
- Dutch Radiologic back office - BORI

- E-Geos, Italy
- ENEA, Italy
- Eonix sa, Belgium
- Epidemiological Response Centre of the Polish Armed Forces
- Environics Oy, Finland
- Escuela Politécnica Superior, Universidad de Alcalá, Spain
- European Space Agency (ESA)
- Fraunhofer INT, Germany
- Game-based learning for instant work practice, UK
- German Aerospace Center, Institute of Technical Physics
- German Association for Defence Technology
- Hochschule Bremerhaven, Germany
- HotZone Solutions the Netherlands
- Indra, CBRN/C-IED department, Spain
- INERIS, France
- Institute for Detection Technologies (IDT), Germany
- Institute of Communication & Computer Systems (ICCS), Greece
- Institute of Optoelectronics, Military University of Technology, Poland
- IOCTR, Germany
- ITHACA, Italy
- Johanniter-Unfall-Hilfe, Germany
- John Edward Jones LO, UK
- Joint CBRN center (Ministry of Defense), the Netherlands
- Laurea University of Applied Sciences, Finland
- LDI Innovation, Estonia
- Loughborough University, UK
- Marble ChemBio Consulting, the Netherlands
- Microfluidic ChipShop GmbH, Germany
- Military Institute of Engineer Technology, Poland
- Ministère de la Défense, Direction de l'expertise Technique, LE BOUCHET, France
- MJ Lawrence Consulting, Germany
- Military Institutue of Hygiene and Epidemiology, Poland
- Lindholmen Science Park AB, Sweden
- Military Medical Academy, Bulgaria
- Ministry of the Interior of the Czech Republik, Security Threats and Crisis Management Unit
- Nanobiz Nano bio Technological Systems, Turkey
- National Center for Epidemiology, Hungarian National Biosafety Laboratory
- National Research Council (CNR) Institute for Research on Innovation and Services for Development (IRISS),Italy
- Netherlands Forensic Institute (NFI)
- Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek - TNO
- Ouvry, France
- Profius@service
- Rinicom secure communications, UK
- RISE, Research Institute of Sweden, Belgium
- Royal Military Academy, Belgium
- RNC Avionics, UK
- Robert Koch Institut, Germany
- Safran Morpho, France
- SCK-CEN, Belgium
- Selex, Italy

- SERSTECH AB, Sweden
- SES Astra Tech Com services, Luxemburg
- SICPA, Switzerland
- S.I.T. - Sordina IORT Technologies S.p.A., Italy
- SUJCHBO, Czech Republic
- Tecnalía, Spain
- Tecnoalimenti, Italy
- TEKNE s.r.l., Italy
- Thales, France, Italy
- The Military Institute of Chemistry and Radiometry, Poland
- The Military Institute of Hygiene and Epidemiology, Poland
- TU Delft, the Netherlands
- T4i engineering Ltd, UK
- UK GDS
- Università di Pisa, Scuola di Ingegneria, and Istituto Nazionale di Fisica Nucleare, Italy
- Universidad Politecnica de Valencia, Spain
- Université de Lorraine, France
- University of Bologna, Italy
- University of Defence, Faculty of Military Health Sciences, Czech Republic
- University of Kent, UK
- University of Siena, Italy
- Univeristy of Zaragoza, Spain
- VITO, Belgium
- VSB - Technical University of Ostrava, Faculty of safety engineering, Czech Republic
- VTT Technical Research Centre of Finland
- Wehrwissenschaftliches Institut für Schutztechnologien -ABC-Schutz (WIS), Germany
- W.L. Gore & Associates, Inc., Europe
- XVR, the Netherlands

Policy makers and regulators:

In order to maximise its input to relevant European and national policy-makers, especially those that have influence over the future European and national research agendas, eNOTICE will reach out to the European Commission services, Member States and other public administrations. Special focus will be given to those leaders who influence the decisions to use CBRN training centres for better preparedness and response to CBRN incidents of national and/or cross-border scale.

So far eNOTICE partners have provided points of contacts for the following organisations. Some points of contact are redundant with the list of end users above and are contacted as both users and decision makers. A database including, names, references and history of contacts is maintained by UCL.

- Belgian National Crisis Center (NCCN)
- Belgian Nuclear Research Center, Environment, Health and Safety Institute
- Biological Weapons Convention Implementation Support Unit, UN
- Bundesamt für Bevölkerungsschutz und Katastrophenhilfe (BBK), Germany
- Bundeswehr CBRN Defence Command, Germany
- CBRN Defence Department of General Command of Polish Armed Forces
- Direction Générale de l'Armement – DGA, France
- Directorate General of the Federal Crisis Center, Belgium
- DG ECHO
- DG HOME

- DG INTPA
- DG Research and Innovation
- European Centre for Disease Prevention and Control – ECDC
- Etat-major des Armées – EMA, France
- European External Action Service (EEAS)
- European Defense Agency (EDA)
- FABK - Ministerie van Defensie, the Netherlands
- Federal Crisis Center, Belgium
- Federal Department of Defence, Civil Protection and Sports - DDP, Federal Office for Civil Protection - FOCP, Switzerland
- Federal knowledge center for BE Civil Protection
- Federal Public Service Health, Food Chain Safety and Environment, Belgium
- FFI, Norway
- Home Office, UK
- Istituto Affari Internazionali, Italy
- Joint Research Centre (JRC)
- Joint CBRN Centre, Ministry of Defence, the Netherlands
- Ministry of Defence, Italy
- Ministry of Defence, UK
- Ministry of Health, the Netherlands
- Ministry of Home Affairs, Belgium
- Ministry of Infrastructure and the Environment, the Netherlands
- Ministry of Interior, Belgium
- Ministry of Interior, France
- Ministry of the Interior, Germany
- Ministry of the Interior, Italy
- Ministry of Justice – NCTV, the Netherlands
- Ministry Of Social Affairs and Health Preparedness Unit, Finland
- National Institute of Criminalistics and Criminology, Belgium
- National Institute for Public Health and the Environment, Centre for Environmental Safety and Security, the Netherlands
- National Institute for Public Health and the Environment (RIVM), the Netherlands
- Netherlands Institute for Safety
- Northern Ireland Department of Justice
- Office for Disarmament Affairs, Switzerland
- OPCW, the Netherlands
- PLOT, Belgium
- Province of Antwerp, Belgium
- Province Vlaams Brabant, Belgium
- Radiation and Nuclear Safety Authority STUK, Finland
- School of Law, Utrecht University, the Netherlands
- Stockholm International Peace Research Institute (SIPRI), Sweden
- UK Cabinet Office
- VERTIC, UK
- Wehrwissenschaftliches Institut für Schutztechnologien - ABC-Schutz, DEU
- World Health Organization

2.2 Dissemination activities and tools

eNOTICE dissemination aimed at guaranteeing proper dissemination of its activities and results to the broadest European audience possible, including the general public and the media where appropriate.

European security stakeholders are the prime target audience to ensure that they are aware of the steps taken at the European level. To achieve this dissemination objective, the following tools, directed towards all target groups have been envisaged. Specific dissemination activities were foreseen for European, national and local policy-makers. These activities are directed towards enhancing the project's impact by supporting eNOTICE exploitation activities. They aim to maximise the eNOTICE' input given to relevant European and national policy-makers, especially those that have influence over the future European and national research agendas. The process of spreading excellence, exploiting results and disseminating knowledge generated during in the project involves all consortium partners as well different activities aiming to raise as much awareness of the European CBRN Community as possible. All eNOTICE partners disseminate the project findings and results through their own networks, contacts and dissemination channels.

All dissemination activities were regularly reported, starting from the initial Dissemination Plan (D3.1), Mid-term Dissemination report (D3.2) and then in eNOTICE Progress reports (D5.2, D5.4, D5.5, D5.7, D5.11, D5.12, D5.15, D5.16).

2.2.1 Public project website and the eNOTICE community centre (ECC)

The eNOTICE project website initially developed in the basic version has been developed into the fully functional eNOTICE Community Centre (ECC) and continuously improved, it is accessible at <https://www.h2020-enotice.eu/>. The ECC serves as the main platform of dissemination of the project activities and results to the external audience. The ECC allows relevant stakeholders from the training centres, practitioners, CBRN technology suppliers, policy makers to stay up to date on the latest developments of the eNOTICE network.

The ECC features a general description of the project and its objectives, an overview of the project consortium, the catalogue of training centres – members of the eNOTICE network, with the capacity label assigned to every training centre, the list of Joint Activities implemented during the project, the list of all eNOTICE publications (deliverables, position papers, scientific papers, newsletters, press releases), means to contact the eNOTICE consortium, legal pages (e.g. a GDPR-compliant privacy policy). Additionally, the ECC provides collaboration and communication features (such as a document cloud and a forum) to registered users.

2.2.2 Press releases and media information

This is not a regular dissemination activity of the project, but is related to events and publications at the occasion of the project Joint Activities mainly, where the hosting training centre announces the event to increase visibility for stakeholders, general public and opinion makers. Whenever possible and appropriate, eNOTICE partners search for possibilities to announce the project results, status, activities in relevant media. For example, before and during

the Joint Activity in Peutie-Vilvoorde, Belgium on June 19, 2018 a few press releases were issued in French and Dutch languages:

Défense: <https://www.mil.be/fr/article/bio-garden-permet-aux-departements-de-travailler-ensemble>

HLN: <https://www.hln.be/nieuws/binnenland/grootschalige-oefening-moet-hulpdiensten-voorbereiden-op-biologische-terreuraanslag~aba62950/>

HLN: <https://www.hln.be/regio/vilvoorde/defensie-oefent-biologische-terreuraanslag~aa5d0c40/>

La libre Belgique : <http://www.lalibre.be/actu/politique-belge/la-defense-se-prepare-en-cas-d-attaque-bioterroriste-5b28fafe5532a296888cf8c5>

7 sur 7 : <https://www.7sur7.be/7s7/fr/1502/Belgique/article/detail/3440795/2018/06/19/La-menace-bioterroriste-existe-d-ou-cet-exercice.dhtml>

MEDI-SPHERE : <https://www.medi-sphere.be/fr/actualites/la-defense-organise-un-exercice-de-reponse-a-une-attaque-bioterroriste.html>

https://www.nieuwsblad.be/cnt/blpva_03569682

<https://www.lok-report.de/news/deutschland/industrie/item/33166-uic-eu-projekt-proactive-erste-gemeinsame-uebung-mit-dem-projekt-enotice-und-der-feuerwehr-dortmund.html>

<https://crisis-prevention.de/sicherheit/europaeisches-forschungsprojekt-enotice-vernetzung-von-ziviler-militaerischer-cbrn-gefahrenabwehr.html>

<https://www.facebook.com/fddo2ifr/posts/nach-langen-vorbereitungen-war-es-endlich-soweit-das-projekt-enotice-war-im-rahm/2603172436387493/>

and a few TV programs:

RTBF : https://www.rtb.be/auvio/detail_jt-13h?id=2364421

RTL TVI : <https://www.rtl.be/info/video/674446.aspx>

VTM:

https://nieuws.vtm.be/video/?f%5B0%5D=sm_field_properties%3AVolledige%20uitzendinge&aid=284741

VRT : <https://www.vrt.be/vrtnws/nl/2018/06/19/is-ons-land-voorbereid-op-een-chemische-of-biologische-terreuraa/>

Interview at Haberturk TV – National television programme, Turkey, 16 April 2019, <https://basinda.metu.edu.tr/17-04-2019/1237259#git> with video demonstration of the serious games developed for eNOTICE – METU.

UNITOV: <https://www.opcw.org/media-centre/news/2017/11/winners-2017-opcw-hague-award-announced>

JCBRND COE: <https://cloud.h2020-enotice.eu/index.php/s/EUCBRNRiskMitigation#pdfviewer>

<https://www.jcbrncoe.cz/images/Documents/newsletter-2020.pdf>

METU:

Newspapers, TV/Radio Channels:

Interview at Anadolu Agency, 11 February 2020: <https://www.aa.com.tr/tr/bilim-teknoloji/biyolojik-silah-ve-salginlara-karsi-milyonlari-egitecek-bilgisayar-oyunu-tasarlandi/1730388>

eNOTICE on several national TV channels and newspapers, 11-15 February 2020:

<https://basinda.metu.edu.tr/15-02-2020/1647279#git>

<https://basinda.metu.edu.tr/12-02-2020/1642563#git>

<https://basinda.metu.edu.tr/12-02-2020/1642564#git>

<https://basinda.metu.edu.tr/12-02-2020/1642572#git>

<https://basinda.metu.edu.tr/12-02-2020/1642709#git>

<https://basinda.metu.edu.tr/12-02-2020/1642711#git>

Channel 24: <https://basinda.metu.edu.tr/12-02-2020/1643113#git>

TV 100: <https://basinda.metu.edu.tr/12-02-2020/1643118#git>

Radio Interview at TRT Radio 1, ‘Life is Science’, 10 February 2020:

<https://basinda.metu.edu.tr/icerik/podcast>

METU Video of the Week, to be released on 27 February 2020

METU

Social

Media:

https://twitter.com/METU_ODTU/status/1227201611950370816

Conferences and Seminars:

Second International Congress, “Developing a Scenario-Based Video Game Generation Framework for CBRNe training”, 28.11.2019.

METU Computer Engineering Department, ‘Developing a Scenario-Based Video Game Generation Framework’, 06.11.2019.

METU Computer Engineering Department, ‘A Brief Introduction to the Design Process — Perspectives and Applications in Video Game Design’, 31.10.2019.

The recent press release was issued on June 12, 2023 for the Final conference jointly organized by eNOTICE, PROACTIVE and PANDEM-2 projects <https://cloud.h2020-enotice.eu/index.php/s/YqfXwqZFNBFX95C> .

2.2.3 Newsletters

Initially eNOTICE consortium did not plan to produce its own newsletters and it was not part of the work plan, but during the project implementation it was considered useful to inform the community about the project results achieved so far, report on the past Joint Activities, to announce the upcoming events – exercises, workshops, conferences and plans for the network development. Four newsletters were designed and issued by the eNOTICE consortium – Newsletter 1 in December 2018 (can be downloaded at <https://cloud.h2020-enotice.eu/index.php/s/CSRzqaWop2erpeG#pdfviewer>)

Newsletter 2 in January 2020 (can be downloaded at <https://cloud.h2020-enotice.eu/index.php/s/newsletter2#pdfviewer>).

Newsletter 3 in May 2020 (can be downloaded at <https://cloud.h2020-enotice.eu/index.php/s/sWqSaGqJfHkQaMr>)

Newsletter 4 in November 2022 (can be downloaded at <https://cloud.h2020-enotice.eu/index.php/s/eQctc5EP73m3eZS>)

The first newsletter was aimed at the CBRN stakeholders at large, while the second one was more dedicated to CBRN training centres as the primary audience of eNOTICE, and sent out to all the training centres – members of eNOTICE network at the moment, and other stakeholders received it as well for information.

The third newsletter announced the eNOTICE webinar on Just-in-time training, made in collaboration with four other Networks of Practitioners FIRE-IN, NO-FEAR, MEDEA and DAREnet.

The fourth newsletter was dedicated to the stating the current state of the network, the position paper, results of the recent Joint Activities, announcement of the last exercises of the project, Final exercise and the Final conference – to inform the largest audience, all the dissemination contacts.

2.2.4 Publications

Publications in scientific journals:

Altan, Burak, Servet Gürer, Ali Alsamarei, Damla Kıvılcım Demir, H. Şebnem Düzgün, Mustafa Erkayaoğlu, and Elif Surer. “Developing serious games for CBRN-e training in mixed reality, virtual reality, and computer-based environments.” *International Journal of Disaster Risk Reduction* 77 (2022): 103022.

Surer, Elif, Mustafa Erkayaoğlu, Zeynep Nur Öztürk, Furkan Yücel, Emin Alp Bıyık, Burak Altan, Büşra Şenderin, Zeliha Oğuz, Servet Gürer, and H. Şebnem Düzgün. “Developing a scenario-based video game generation framework for computer and virtual reality environments: a comparative usability study.” *Journal on multimodal user interfaces* 15 (2021): 393-411.

Vybornov, A., Nyabi, O., Vybornova, O., Gala, J-L. (2021): Telecommunication Facilities, Key Support for Data Management and Data Sharing by a Biological Mobile Laboratory Deployed to Counter Emerging Biological Threats and Improve Public Health Crisis Preparedness. // *International journal of Environmental Research and Public Health* 2021, 18, 9014, 23p. <https://doi.org/10.3390/ijerph18179014>

Nyabi, O., Vybornova, O., Gala, J-L. (2021): Deployment of a Mobile Laboratory for the Control and Monitoring of High-Consequence Infectious Diseases: An Illustration With the Ebola Virus, the Biowarfare Agents, and the COVID-19 // In: *Journal of Strategic Innovation and Sustainability*, 16(3). <https://doi.org/10.33423/jsis.v16i3.4444>.

Vybornova, O. & Gala, JL. (2019) Structured decision-making for the management of a biological fieldable laboratory during outbreaks: a case for European Union Civil Protection Mechanism (EUCPM). *Environment Systems and Decisions*, 2019, 39, 65-76. <https://doi.org/10.1007/s10669-018-9700-y>

Vybornova O and Gala JL. Operations management and decision making in deployment of an on-site biological analytical capacity. (2018). In Gary P. Moynihan (Ed.) /*Contemporary issues and Research in Operations Management*, IntechOpen. Chapter, 2018, 4, 53-80, 2018. ISBN 978-953-51-6018-2. <http://dx.doi.org/10.57725/intechopen.74357>.

eINTERFACE Proceedings Book: Surer, Elif & Erkayaoğlu, Mustafa & Öztürk, Zeynep & Yücel, Furkan & Bıyık, Emin & Altan, Burak & Şenderin, Büşra & Oğuz, Zeliha & Gürer,

Servet & Duzgun, Sebnem. (2019). Developing a Scenario-Based Video Game Generation Framework: Preliminary Results.

arXiv: Surer, Elif & Erkayaoğlu, Mustafa & Öztürk, Zeynep & Yücel, Furkan & Bıyık, Emin & Altan, Burak & Şenderin, Büşra & Oğuz, Zeliha & Gürer, Servet & Düzgün, H. (2019). Developing a Scenario-Based Video Game Generation Framework: Preliminary Results.

Carestia, M. et al. (2020). CBRNe as Conceptual Frame of an All Hazards Approach of Safety and Security: The Creation of Organic Networks of Military, Civil, Academic/Research and Private Entities at National and International Level to Generate Solutions for Risk Reduction – A European and Italian Perspective. In: Bonča, J., Kruchinin, S. (eds) Advanced Nanomaterials for Detection of CBRN. NATO Science for Peace and Security Series A: Chemistry and Biology. Springer, Dordrecht. https://doi.org/10.1007/978-94-024-2030-2_23.

Conference: 3rd International Conference CBRNE - Research & InnovationAt: Nantes, France: Surer, Elif & Atalay, Timuçin & Demirkan, Doga & Duzgun, Sebnem. (2019). Serious Gaming in CBRNe Domain: A Survey on User Expectations, Concerns and Suggestions.

Workshops: SICC Series CBRNe Workshop - The Evolution of CBe Detection: a focus point on industrial developments, research activities and operative case studies, May 9, 2022, Rome, Italy. Di Giovanni, Daniele: “CBRN Project-Funding: “8 years of successfully granted projects”.

JCBRN Defence COE. (2021). *JCBRN Defence COE Comprehensive Publication on Civil - Military & NATO - EU cooperation*. Vyškov: JCBRN Defence COE Available from: [JCBRN Defence COE Comprehensive Publication on Civil-Military & NATO-EU Cooperation.pdf \(jcbrncoe.org\)](https://www.jcbrncoe.org/Content/Files/JCBRN%20Defence%20COE%20Comprehensive%20Publication%20on%20Civil-Military%20&%20NATO-EU%20Cooperation.pdf)

Publications in professional magazines:

Philippe Quevauviller, DG Migration and Home Affairs, European Commission, Brussels, with contribution of Olga Vybornova, UCL Belgium (2022): Horizon Europe – research to secure against CBRN risks // The European - Security and Defense Union, Edition 3, 2022

Reich, W.K-H., Vybornova, O., Gala, J-L. (2020): NATO JCBRN Defence COE - EU HORIZON 2020 eNOTICE project. Test bed for NATO-EU and civil-military cooperation // in The European Security and Defense Union journal, Volume 35, July 2020.

Notice period. Olga Vybornova on the progress of eNOTICE // ENCIRCLE magazine, Issue 3, 2019, available at <http://encircle-cbrn.eu/wp-content/uploads/2019/09/Encircle-Magazine-Issue-3-vWeb.pdf>

Pratzler-Wanczura, S. (2019): Eine „etwas andere“ Großübung im Rahmen des europäischen eNotice-Projektes, Dortmunder Brennpunkt, Dortmund;

Pratzler-Wanczura, S.; Speth, H. (2020): Das Projekt eNotice: European Networks of CBRN Training Centers, Zeitschrift für Forschung und Technik im Brandschutz vfdb, Bremen

JCBRN Defence COE. (2022). *NATO-UN Strategic Level Cooperation on Consequence Management Focusing on CBRN Defence*. Vyškov: JCBRN Defence COE Available from: [NATO-UN Strategic Level Cooperation on Consequence Management Focusing on CBRN Defence \(jcbrncoe.org\)](https://www.jcbrncoe.org/Content/Files/NATO-UN%20Strategic%20Level%20Cooperation%20on%20Consequence%20Management%20Focusing%20on%20CBRN%20Defence.pdf)

JCBRN Defence COE. (2023) *CBRN Defence in 2030 and Beyond Research Paper*.
Vyškov: JCBRN Defence COE

JCBRN Defence COE. (2021). *JCBRN Defence COE Newsletter 2021*, 17(1) Available from: [JCBRN Defence COE Newsletter 2021 \(jcbrncoe.org\)](https://www.jcbrncoe.org)

JCBRN Defence COE. (2022). *JCBRN Defence COE Newsletter 2022*, 18(1) Available from: [JCBRN Defence COE Newsletter 2022 \(jcbrncoe.org\)](https://www.jcbrncoe.org)

JCBRN Defence COE. (2023). *JCBRN Defence COE Response 2023*. Available from: [JCBRN Defence COE Response \(jcbrncoe.org\)](https://www.jcbrncoe.org)

2.2.5 eNOTICE events

The Consortium organised dedicated eNOTICE events to strengthen the community, to practically show, use and promote the training facilities included in the network and to build and raise awareness of the project especially in view of increasing the involvement of the training professionals, practitioners and technology suppliers in the project activities. For the whole project, the following eNOTICE events have been completed:

Face-to-face Joint Activities – exercises, workshops, policy meetings, conferences:

Date	Hosting partner	Location	Type of activity	
Dec 2017	SDIS77	Gurcy, FR	Multidisciplinary Field Exercise (focus on fire brigades) with participation of projects TRADR and Toxi-Triage	
Jan 2018	ARMINES + METU	Nîmes, FR	Table-top / serious gaming (with participation of projects IGNIS, MODEX, Econfidence, SAYSO, TARGET, EU MFH)	
June 2018	UCL	Brussels, BE	CBRN mobile capacities Field Exercise (with participation of ESA project B-LiFE)	Policy Meeting 1
Oct 2018	UNITOV + Rieti School	Rieti, IT	Multidisciplinary Field Exercise (with participation of CBRN Cluster part a) project ENCIRCLE)	Annual Workshop
Feb – Mar 2019	JCBRND COE	Vyškov, CZ	International Radiological Assistance Programme Training for Emergency Response (I-RAPTER) Basic Course	
May 2019	SDIS77	Gurcy, FR	Multidisciplinary Field Exercise (with participation of H2020 CBRN Cluster part b) project TERRIFFIC and CBRN Cluster part a) project ENCIRCLE)	
Jul 2019	WMP	Birmingham, UK	Table Top Exercise	

Sep 2019	FDDO + CNBOP-PIB	Dortmund, DE	Multidisciplinary Field Exercise (with participation of CBRN Cluster part a) project ENCIRCLE)	Annual Workshop Policy Meeting 2
Feb 2020	METU	Ankara, TR	Serious Gaming	
Nov 2021	WSU + CNBOP-PIB	Warsaw, PL	Combined Civil-Military Exercise	
Nov 2021	JCBRND COE	Vyškov, CZ	Consequences Management after a CBRN Incident Course (with participation of EU projects INCLUDING, NO-FEAR, FIRE-IN, Bullseye, PROACTIVE)	
May 2022	FDDO	Dortmund, DE	Multidisciplinary Field Exercise (with participation of H2020 PROACTIVE project)	
May, 2022	VESTA	Ranst, BE	Multidisciplinary Field Exercise (with participation of ISF MELODY project)	Policy Meeting 5
Nov 2022	UNITOV + Rieti School	Rieti, IT	Multidisciplinary Field Exercise (with participation of H2020 PROACTIVE project)	Annual workshop
Mar 2023	WSU	Warsaw, PL	Military table top exercise	
May 2023	VESTA + UCL	Ranst, BE	Multidisciplinary Field Exercise (with participation of H2020 PROACTIVE project)	
Jun 2023	UCL + All	Brussels, BE	Final conference (jointly with PROACTIVE and PANDEM-2, with many EU projects invited - PEERS, INCLUDING, RESIST, VERTIGo, MELODY, COVINFORM, NO-FEAR, FIRE-IN, BULLSEYE, JA TERROR, NIGHTINGALE, HoloZcan)	

Webinars and online meetings during the COVID-19 pandemic time:

Jun 2020	UCL, SDIS77, WMP	Online webinar	eNOTICE Annual workshop webinar on Just-in-time training, in collaboration with FIRE-IN, NO FEAR, MEDEA and DAREnet networks of practitioners
Oct 2020	UCL + All	Online webinar	Policy Meeting 3 possibilities of other stakeholders to support the network from the policy and funding point of view. Invited participants - DG HOME, DG ECHO, NATO
Dec 2020	VESTA	Online webinar	The impact of COVID-19 on training centres, Workshop for the network of training centres
Feb 2021	WMP	Online webinar	How emergency services and CBRN responders work to reduce the impact from a CBRN terrorist event, Workshop for the network of training centres,

Jun 2021	VESTA	Online webinar	Virtual reality in CBRN training, Open workshop
Dec 2021	UCL + All	Online webinar	Policy Meeting 4 participation of industrial and R&D companies in the network of CBRN TC, practical and operational aspects

eFAIR and Final exercise

The last exercise of the eNOTICE project took place at Campus Vesta training center in Ranst, Belgium, with more than 37 hectares (92 acres) that is used for training. The Joint Activity was hosted by VESTA, with UCL co-organising.

This JA consisted of an eFAIR on May 12 and the multidisciplinary exercise on May 13, 2023. The eFAIR was a workshop for practitioners and technology developers. 15 companies displayed and demonstrated the newest innovation of industry in the area of CBRN. The general sessions presented the project results overview, the civil-military collaboration in eNOTICE, the lessons learned during the entire project. The panel discussions, talks, brainstorms addressed the subjects of:

- presentations and discussions on the eNOTICE network current status and sustainability,
- panel discussion on dealing with vulnerable people during CBRN crisis response,
- brainstorm on innovation and research implementation in training centres,
- new technologies in CBRN training,
- virtual reality technologies.
- the Elevator pitch of the industry allowed companies to present the demonstrated research and innovation.

Participants of eFAIR represented the following organisations:

Campus Vesta, Belgium
 Université catholique de Louvain, Belgium
 University of Rome Tor Vergata, Italy
 Middle East Technical University, Turkey
 Thomas More Verpleegkunde Mechelen, Belgium
 The European CBRNE Center, Umea University, Sweden
 War Studies University, pOland
 North Atlantic Treaty Organisation HQ Brussels, Belgium
 National Institute for NBC Protection SUJCHBO, Czech Republic
 British Embassy in Belgium
 UK Homeland Security
 NCCN (Belgian National Crisis Center) | CBRNe Expertise Center
 Belgian Civil Protection
 National CBRN Centre, UK

Norwegian Defence Research Establishment FFI, Norway
CBRNE Ltd, UK
German Council on Foreign Relations
Save the Children Sweden (Rädda Barnen Sverige)
Deutsche Bahn AG, Germany
Joint CBRN Defence Center of Excellence, Czech Republic
International Union of Railways, France
Europe Islamic Association
Doof Vlaanderen vzw (Deaf Flanders), Belgium
Population Protection Institute, Czech Republic
Norwegian University of Life Sciences
Brandweerzone Centrum, Belgium
HVZ Taxandria, Belgium
Brandweerzone Vlaamse Ardennen - Post Sint-Lievens-Houtem, Belgium
Hulpverleningszone Noord-Limburg, Belgium
Hulpverleningszone Waasland, Belgium
Brandweerzone Oost-Limburg, Belgium
Alpes-Maritimes Fire and Rescue Services, France
Estonian Rescue Board
AZ Turnhout, Belgium
UZ Leuven, Belgium
UZ Antwerpen, Belgium
Mohamed V Military Hospital, Rabat, Morocco
Safety and Security Center of Western Finland
Research Center, Riyadh Second Health Cluster, Saudi Arabia
UK Health Security Agency
Istituto di Sociologia Internazionale di Gorizia, Italy
Red Cross Umeåkretsen, Sweden
Politiezone Rivierenland & Politiepost Mechelen, Belgium
HEKLA, Belgium
West Midlands Police, UK
United Nations Inter-regional Crime and Justice Research Institute
Belgian Federal Police
German Police University
Norwegian Armed Forces
National Police HQ Poland
European Commission, REA
European Commission, DG HERA
European Commission, DG HOME
European Commission, DG INTPA
Propus, Netherlands
German Aerospace Center
Sigoria Security Solutions Ltd., Poland
Technisch-mathematische Studiengesellschaft mbH, Germany
AIRSENSE Analytics GmbH, Germany
OUVRY, Belgium
LDI Innovation OÜ, Estonia
OneBonsai, Belgium
AIT Austrian Institute of Technology
Vandeputte Safety Experts, Belgium
CBRNe world magazine, UK
Bagira Netherlands

SciMed Services & Solutions, Belgium
VRTS Sprl, Belgium
Fondazione SAFE, Italy
Eticas Research and Consulting SL, Spain
Rinisoft, UK
SAFE Cluster, France

The multidisciplinary field exercise was held the next day after eFAIR, where the participants were invited to observe. The exercise had both a B and a C component and pursued 2 major tasks:

1. Training the first responders of the province of Antwerp (and outside)
2. Examination of the postgraduate students disaster management. These students are professionals within the different first responder organisations in their own right, but are now also working towards a degree in disaster management.

On top of that, the H2020 project PROACTIVE was also involved in the exercise, involving real civil society volunteers, including people from vulnerable groups of population, such as people with a handicap, elderly people and minors.

According to the scenario, Campus Vesta became a university focused on bio-medical science. The university was organising a fund raiser event and invited the UCL mobile biological analytical capacity to give a demonstration during the event. The fundraiser comprised 2 parts: a formal reception and a party for students. The university had recently expelled 3 students for misbehaviour. They sent a message to the university promising to make them pay, by making them victims of their own faculty.

Scenario 1: The formal reception is underway. (Retired) staff and their families are enjoying some snacks and having a good time. After a few moments, people start getting ill and getting symptoms like vomiting, diarrhea etc. On top of that, one of the disgruntled students manages to gain access to the building and throws a white powder over some of the attendees.

Scenario 2: The party with a DJ and students + their family is well under way. The disgruntled students manage to get access to the party and they disperse a liquid over the attendees. People that have been hit by the fluid are getting symptoms. The students try to run away but they end up in a fight. During the fight, they draw their knives which results into multiple injuries. The students then run away and hide somewhere in town.

The UCL biological mobile laboratory called B-LiFE was deployed and ensured rapid analysis of bio samples during the exercise, according to the scenario. Overall, the Joint Activities of eNOTICE provided opportunities for academic innovations to be presented and explained to practitioners. Some eNOTICE-driven innovations have made their way directly into practitioners' workflows. This was highlighted by this latest Joint Activity in Campus Vesta, when new toxin and pathogen identification methods were successfully tested for the first time in the B-LiFE mobile field laboratory and are now part of the laboratory's capacity and capability.

eNOTICE project video was made based on the materials of the final exercise in Campus Vesta, Ranst, May 13, 2023, it was distributed to the network, to the community and is available at this link <https://www.youtube.com/watch?v=2Si7QqYuc5U>

Policy meetings

Policy Meeting 1 was organized on June 20, 2018 - the next day after the eNOTICE large scale field exercise Bio Garden hosted by UCL at the military base in Peutie-Vilvoorde, Belgium. The detailed report about the Bio Garden exercise can be found in D4.3 eNOTICE Joint activities planning (submitted in August 2018). The detailed report about the Policy Meeting 1 can be found in D4.8 eNOTICE Recommendations for CBRN R&D and CBRN policies. Version 1 (submitted in September 2018).

Many EC policy makers were invited to the Bio Garden exercise where they could witness the logic and spirit of the eNOTICE Joint Activities, meet the eNOTICE consortium representatives define priorities for the policy related to CBRN TCs, expectations from the eNOTICE network of CBRN TCs, and desired ways of interaction with the network. Representatives from DG HOME, DG ECHO and DG DEVCO were participating in the panel discussion.

Policy Meeting 2 took place during the eNOTICE Joint Activity in Dortmund, Germany, on September 20, 2019. Deliverable 4.9 (eNOTICE Recommendations for CBRN R&D and CBRN policies. Version 2) provides the detailed report on this Policy Meeting with representatives of German national/regional/local authorities, both civilian and military. 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.

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.

Policy Meeting 3 took place virtually on October 22, 2020 opened the discussion and paved the way to the network sustainability - maintenance and successful functioning for many years after the end of the H2020 eNOTICE project funding in August 2023. The concept and activities of the network of CBRN training centres, testing and demonstration sites are in line with the EU CBRN Action Plan objectives, are strategic for Member States CBRN preparedness and development, and are interfacing CBRN themes of EC DGs – HOME, ECHO, INTPA (DEVCO at that time), JRC, FPI. The discussion at Policy Meeting 3 covered sustainability from all angles – from the point of view of training professionals from eNOTICE network training centres, EC DG HOME, ECHO, DEVCO representatives, industry, academia and current R&D projects and advisers – who provided their expectations, vision on possibilities and future network maintenance.

Policy Meeting 4 took place also virtually in the form of a webinar on December 9, 2021, the speakers were representatives of industrial companies who shared their experience and concerns when displaying and testing their technologies with practitioners in the field.

Since the previous policy meetings confirmed that participation of industry in the network and its possible financial contribution to the network maintenance is necessary, the requirements and expectations of industry were carefully analysed, and the problems and concerns are being taken into account when forming the mechanism of the network functioning.

Policy Meeting 5 was held side-by-side with the multi-disciplinary field exercise in Campus Vesta training centre in Belgium, on May 20, 2022. As it was the final policy meeting in the series, the invited training centres representatives were asked to express their willingness to further contribute to the network, their opinions on the future network activities and the ways the network should function after the end of the project. The functionality of the network directly depends on the current CBRN policy, needs and requirements of the practitioners and training professionals that are part of the network.

Annual project workshops

Annual Workshop 1 was held in concatenation with the JA in Rome-Rieti on October 11, 2018. The workshop was dedicated to dissemination of the project to external stakeholders – practitioners, R&D and networking projects representatives at the Annual Workshop after the exercise in Rieti.

Annual Workshop 2 The eNOTICE consortium organized the first event in the a series to involve the network members in the activities. This first official event took place in Dortmund, on September 20, 2019. This Workshop gave the opportunity to present eNOTICE network to the training centers – new members - more concretely, to see presentations of the members, to explore and discuss with them opportunities for participation in EU projects, expectations they might have as a training centre in the network and how the eNOTICE can support their activities. 8 training centers (external to eNOTICE consortium) were present at the meeting.

Annual Workshop 3 took place during the Covid-19 pandemics, and was moved online. It was held on June 18, 2020 in the form of a webinar, focused on Just-in-time training (JiTT) in CBRN, medical and flood response fields, , in collaboration with four other Networks of Practitioners – NO FEAR, FIRE-IN, MEDEA and DAREnet. The webinar provided the participants with the opportunity to gain insights into the current and potential future applications of the concept of JITT within response organisations as well as best practices and methodologies. Based on first-hand experiences that the speakers have gathered through their involvement in past and current disasters, in particular the COVID-19 pandemic, did the webinar the offer a forum to share knowledge and experiences about how JITT enable practitioners to rapidly acquire specific skills or knowledge when the need arises.

Annual Workshop 4 took place online again, on June 1, 2021, and it was dedicated to Virtual Reality in CBRN training. The workshop was held together with SHOTPROS project, it gathered practitioners and technology developers currently active in the field of VR training, or interested in uptaking this rapidly advancing mode of CBRN training.

Annual Workshop 5 was organized on November 17, the day after the civil-military exercise hosted by Rieti Joint NBC Defence School. The workshop was held together with the PROACTIVE project consortium, the participants were the Rieti Joint NBC Defence School first responders who participated in the exercise, the eNOTICE and PROACTIVE consortia partners, the observers of the exercise, and representatives of the joint partners, such as CARIS

Tor Vergata (<http://caris.uniroma2.it/>), Save the Children organization, CARITAS Rieti and some Associations active in the field of social inclusion of vulnerable groups supported by using their channels and networks, who participated in the exercise. The exercise lessons learnt and challenges were discussed in detail, both the technical part from the eNOTICE first responders point of view, and from the point of view of the involved vulnerable people from the PROACTIVE side, the strong and weak points of the procedures of first responders dealing with the vulnerable civilian volunteers during the exercise.

2.2.6 eNOTICE Final conference

The major dissemination event of the project was the Final conference co-organized by eNOTICE and two other EU projects PROACTIVE and PANDEM-2. The event was made on June 13-15, 2023 in Brussels, at the conference center Bouche-à-Oreille.

The event was held in a hybrid format with around 120 participants attending in person with a live feed via YouTube streaming followed by 36 participants.

The detailed agenda of the Final conference for the part related to eNOTICE – June 13-14:

13 June	
Time	Agenda item
13.00 – 14.00	Registration & coffee
14.00 – 14.20	Overview of the eNOTICE project (<i>Olga Vybornova, UCLouvain</i>)
14.20 – 14.40	Overview of the PROACTIVE project (<i>Grigore Havarneanu, UIC</i>)
14.40 – 15.00	Overview of the PANDEM-2 project (<i>Maire Connolly, University of Galway</i>)
15.00 – 15.15	Successful outcome and perspective from a LEA working on eNOTICE and PROACTIVE projects <i>(Liz Benson and Lee Kendrick, UK National CBRN Centre, WMP)</i>
15.15 – 16.30	Training exercises: Key results and recommendations from eNOTICE & PROACTIVE eNOTICE panel session (<i>Moderated by Olga Vybornova, UCLouvain</i>) Beneficial outcomes, lessons learned of TC hosting exercises – UCLouvain, VESTA, SDIS77, UNITOV, JCBRND COE, WSU, CNBOP, WMP, METU General discussion, Q&A session
16.30 – 16.50	Coffee break
16.50 – 18.00	PROACTIVE presentation session (<i>Moderated by Grigore Havarneanu, UIC</i>) Lessons learned from three field training exercises (<i>Tony Godwin, CBRNE Ltd</i>) Lessons learned from engaging with the civil society (<i>Åsa Burlin, UMU</i>) Testimonies from external stakeholders General discussion, Q&A session
18.00 – 19.00	Networking reception

14 June

Time	Agenda item
8.30 – 9.00	Registration & coffee
9.00 – 9.05	Welcome
9.05 – 9.10	CMINE platform (<i>Jon Hall, Resilience Advisors</i>)
9.10 – 10.45	Synergies in CBRNe (<i>Moderated by Olga Vybornova, UCLouvain</i>) PEERS (<i>Tom Flynn</i>) FIRE-IN (<i>Michel Bour</i>) INCLUDING (<i>Luigi De Dominicis</i>) BULLSEYE (<i>Ives Van Haute</i>) RESIST and VERTiGO (<i>Federico Benolli</i>) JA TERROR (<i>Hans De Neef</i>) MELODY (<i>Carlos Rojas Palma</i>) NIGHTINGALE (<i>Eleftherios</i> COVINFORM and NO-FEAR (<i>Chaim Ouzounoglou</i>) <i>Rafalowski</i>) HoloZcan (<i>Györgyi Bela</i>) General discussion, relevance with eNOTICE, PROACTIVE and PANDEM-2 results.
10.45 – 11.10	Coffee break
11.10 – 12.15	PROACTIVE Toolkit training workshop Interactive demonstration of the PROACTIVE Crisis Communication System (<i>Garik Marcarian & George Kolev, RINI</i>)
12.15 – 12.30	General discussion, Q&A session
12.30 – 14.00	Lunch break
14.00 – 15.20	CBRNe and Pandemics preparedness (<i>Moderated by Máire Connolly, University of Galway</i>) Fast eNOTICE response to emergency crises: just-in-time training (<i>Jean-Luc Gala, UCLouvain and Liz Benson, UK National CBRN Centre, WMP</i>) PROACTIVE: Transferrable lessons from CBRNe to Pandemics (<i>Dale Weston, UKHSA and Andreas Arnold, DHPol</i>) PANDEM-2 pandemic preparedness platform (<i>Carlos Tighe, University of Galway</i>) General discussion, Q&A session
15.20 – 15.40	Coffee break
15.40 – 16.10	Key exploitable results (KERs) and recommendations (<i>Moderated by Grigore Havarneanu, UIC</i>) eNOTICE key results and recommendations (<i>Maaïke Van de Vorst, Campus Vesta</i>) PROACTIVE key results and recommendations (<i>Laura Petersen, UIC</i>) PANDEM-2 key results and recommendations (<i>Máire Connolly, University of Galway</i>)
16.10 – 17.30	Panel discussion: strategy, synergies, and long-term exploitation of results (<i>Moderated by Philippe Quevauviller, DG HOME</i>) eNOTICE (<i>Jean-Luc Gala, UCLouvain and Maaïke Van de Vorst, Campus Vesta</i>) PROACTIVE (<i>Richard Amlôt, UKHSA and Marie-Hélène Bonneau, UIC</i>) PANDEM-2 (<i>Máire Connolly, University of Galway</i>) DG HERA (<i>Luciana Da Silva Santos</i>) DG SANTE (<i>Cinthia Menel Lemos, SANTE B2</i>)

17.30 – 17.45 Conclusions and closing remarks

17.45 – 19.00 Networking reception

The participants of the Final conference represented the following organisations:

Université catholique de Louvain, Belgium
 University of Galway, Ireland
 German Police University
 International Union of Railways, France
 War Studies University, Poland
 ECDC, Sweden
 Instituto Nacional de Saúde Doutor Ricardo Jorge, Portugal
 The National Institute for Public Health and the Environment (RIVM), Netherlands
 IDEAS Science Ltd., Hungary
 Fondazione SAFE, Italy
 UK National CBRN Centre
 West Midlands Police, UK
 Eticas Tech, Spain
 S.C. Clarisoft Technologies, Romania
 Norwegian Defence Research Establishment (FFI), Norway
 INERIS Developement, France
 Campus Vesta, Belgium
 CBRNE Ltd., UK
 908 Devices, USA
 EPIC11
 SCK-CEN, Belgium
 VU Amsterdam, Netherlands
 Irish Defence Forces, Ireland
 European Commission REA
 European Commission DG HOME
 European Commission DG SANTE
 European Commission DG HERA
 Institutul National de Sanatate Publica, Romania
 Carr Communications, Ireland
 Radboud University Medical Centre, Netherlands
 ENEA, Italy
 National Crisis Centre, Belgium
 University of Rome Tor Vergata, Italy
 Fire and Rescue Service of Seine et Marne (SDIS 77), France
 TFC Research and Innovation Limited, Ireland
 Population Protection Institute, Czech Republic
 Norwegian University of Life Sciences, Norway
 Italian Red Cross
 CMINE/Resilience Advisors Network
 CTEN
 Robert Koch Institute, Germany
 National Institute of Public Health, Romania
 European CBRNE center, Umea University, Sweden
 Alpes-maritimes Fire and Rescue Services, France
 Prometech B.V., Netherlands

Fraunhofer INT, Germany
Finnish Institute for Health and Welfare (THL)
Bursa Metropolitan Municipality, Turkey
National University of Civil Protection of Ukraine
HELLENIC FIRE BRIGADE, Greece
Public Health Agency of Sweden
Sciensano, Belgium
Rinisoft, UK
CDTI-SOST, Belgium
The Estonian Academy of Security Sciences
The State Emergency Service of Ukraine
JCBRN Defence COE, Czech Republic
KPMG Ireland
Austrian Red Cross
Trilateral Research, Ireland
An Garda Síochána, Ireland
Epiconcept, France
Institute of Communication and Computer Systems, Greece
ISI Foundation, Italy
European Organisation for Security, Belgium
International Hellenic University, Greece
Magen David Adom, Israel
KIT - Royal Tropical Institute (Ams), Netherlands
EMERGENZA SORDI APS, Italy
Radboudumc medical center, Netherlands
Mission of Israel to the EU and NATO
Italian Red Cross
BBBeratung, Netherlands
Middle East Technical University, Turkey
Deutsche Bahn AG, Germany
FIPRA, Belgium
Finnish Institute for Health and Welfare
UK Health Security Agency (UKHSA)
Scientific and Research Centre for Fire Protection, Poland
Federal Agency for Technical Relief (THW), Germany
Homeland Security Group, USA
DMI Associates, France
State Police of Latvia
GATE Specialties, Netherlands

2.2.7 Participation in external events

Since the mid-term dissemination report (D3.2), the eNOTICE Consortium presented the project status and results at a number of conferences, workshops, collaborative project meetings and internal practitioner organisations events.

One of the major dissemination events was a CBRN session of the Community for European Research and Innovation for Security (CERIS) organized by eNOTICE on May 4, 2022 at the large CBRNe Research & Innovation conference in Lille, France. The session opened with state-of-the-art presentations by representatives of DG HOME, DG ECHO and FPI, and continued with two panel discussions of thirteen current EU-funded CBRN projects -

eNOTICE, INCLUDING, NO-FEAR, FIRE-IN, PROACTIVE, HoloZcan, ECCOFEX, RESIST, VERTIGo, JA TERROR, Bullseye, EU-RADION and PANDEM-2.

The range of questions addressed at the panel discussions:

- stakeholders engagement in CBRN preparedness (including general public)
- gaps in preparedness
- multidisciplinary, multi-agency and civil-military cooperation, joint CBRN exercises
- innovative CBRN technological solutions for CBRN agents detection, PPE, decontamination, testing and validation
- acceptable risk or zero risk - what is the goal of standardisation?
- better use of European research outcomes,
- dissemination of results of EU projects.

UCL was the organizer of the session, JCBRND COE and METU actively contributed.

The next day May 5, 2022 at the same conference eNOTICE co-organised a workshop CBRNE Training - Hands-on, Virtual and Hybrid Formats: Recent Experiences, Trends and Developments.

The workshop aimed at exchanging experience in how training formats have changed and modernized in recent years, including evolutions driven by the pandemic. The advantages and drawbacks of various formats were discussed, metrics for evaluating training impact and the effectiveness of hands-on versus online formats will be examined. The workshop included scene-setting presentations (4 presentations, 15 minutes each) and offered ample time for an open panel discussion (30 minutes). UCL co-organized and moderated the workshop, together with German Bundeswehr and JRC partners, and METU and ARMINES were speakers.

All eNOTICE partners presented the project results and discussed the network development at the following events:

- 15 March 2022 - DEU Bundeswehr CBRN Defence Command Commanders Conference conducted in Bruchsal, Germany – eNOTICE update presentation on recent activities including detailed information on conducted Joint Activities and outlook for upcoming activities. Presenter – JCBRND COE
- 24 March 2022 – CERIS CBRN Crisis Management session co-chaired by eNOTICE, Brussels, Belgium. Speakers – UCL, JCBRND COE
- 6-7 April 2022, Milan, Italy – Network of Practitioners iLEAnet final conference. eNOTICE was invited to the roundtable discussion for networks of practitioners. Speaker – UCL.
- 13 – 14 April 2022 - JCBRND Defence COE Steering Committee Meeting (14 Sponsoring Nations and Contributing Partner) conducted in Vyskov, Czech Republic – information on recent eNOTICE activities including detailed information on conducted Joint Activities, content on current deliverables, and outlook for upcoming activities. Presenter – JCBRND COE
- 4 May 2022 and 3 May 2023 – CBRN specialist - Tactical Advisor Conference, UK, presentation of eNOTICE to 150 participants from operational, first responder and industry stakeholders. Presenter - WMP.

- 10 – 11 May 2022: NATO HQ COE Market Place conducted at NATO HQ, Brussels/Belgium – introducing COE activities including outreach and eNOTICE. Presenter – JCBRND COE
- 16 May 2022: EU CBRN Risk Mitigation COE Initiative National Focal Point Meeting conducted in Brussels, Belgium – presentation on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities. Presenter – JCBRND COE
- 23 – 25 May 2022: NCT Europe conducted at the Bundeswehr University in Munich/Germany – informing on NATO – EU cooperation and particular on eNOTICE as an example. Presenter – JCBRND COE
- 24 - 25 May 2022, Novara, Italy: Network of Practitioners NO FEAR Workshop and full scale exercise: Training and Education in emergency and disaster medicine. eNOTICE was invited as observer, and speaker at the workshop - UCL.
- 29 – 30 June 2022: WMP (the UK National CBRN center) hosted SARUM SOLSTICE, the Chemical, Biological and Radiological Capabilities Exercise (CAPEX) 22 in Salisbury, UK. UCL and JCBRND COE were invited as observers, and received gifts for excellent collaboration with eNOTICE partners.
- 1 July 2022 – WMP presented Capability Exercise briefing to seniors about joint exercise at CBRN training centres, to 30 participants representing international training centers, policy makers and S&T
- 21 July 2022: JCBRN Defence Capability Development Group (NATO level 2 body) conducted virtual – update on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities.
- 30 August 2022 – Scottish Continuous Professional Development event, UK, presentation to 200 participants representing police, firefighters, ambulance, health care providers, national government. Presenter – WMP
- 30 – 31 August 2022, Brussels, Belgium: Symposium on European Civil Security Research, organised by German Federal Ministry for Education and Research and Bavarian representation in Brussels - eNOTICE was invited to the forum Practitioners interested in security research: Hard to find but key partners - Showcasing networks of security practitioners for Cluster 3. Speaker - UCL, participants - FDDO, SIC.
- 19 – 22 September 2022: JCBRN Defence Capability Development Group (NATO level 2 body) Autumn Meeting conducted in Istanbul, Turkey - introducing COE activities including outreach and eNOTICE.
- 20 - 21 September 2022 - Technical Response Force (British military homeland CBRN capability) Induction, UK, presentation of eNOTICE to 300 participants from military, R&D, command stakeholders. Presenter - WMP.
- 4 – 5 October 2022: JCBRND COE Annual Conference conducted in Prague, Czech Republic: introducing COE activities including outreach and eNOTICE

- 25 – 26 October 2022: JCBRN Defence COE Steering Committee Meeting (14 Sponsoring Nations and Contributing Partner) conducted in Vyskov, Czech Republic – information on recent eNOTICE activities including detailed information on conducted Joint Activities, content on current deliverables, and outlook for upcoming activities.
- 9 – 10 November 2022: CERIS DRS event conducted in Brussels, Belgium - presentation on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities. Speaker – JCBRND COE, co-organised by UCL.
- 17 – 19 January 2023: Bundeswehr CBRN Defence Command training workshop and commanders conference in Sonthofen, Germany – promoting eNOTICE activities including catalogue of training centres and joint activities.
- 30 January 2023, Visit of Canada Ambassador at the JCBRND COE, promoting eNOTICE within the JCBRND COE Command Brief. Speaker – JCBRND COE
- 31 January 2023 – National Counter Terrorism Protect and Prepare conference, UK. Presentation of eNOTICE to 200 participants - counter terror specialists, command, national security, communications managers. Presenter - WMP.
- 1 February 2023, Brussels, Belgium: DG HOME CBRN Security Advisory Group meeting, eNOTICE was invited for the presentation at the meeting. Speaker – UCL.
- 5 February 2023, JCBRND COE Annual Evaluation, Vyskov CZE, update on eNOTICE activities and promoting future JAs
- 20 – 23 February 2023: JCBRN Defence Capability Development Group (NATO level 2 body) conducted in Brussels, Belgium at NATO HQ – update on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities.
- 28 February – 1 March 2023, Winnigen, Germany: JCBRND COE and UCL had a meeting with the German association of CBRN defence related industry – introducing eNOTICE and proposed way ahead establishing sustainability by engaging industry, bilateral discussions with several companies, as a result some companies took part at the eFAIR in Campus Vesta, Ranst, Belgium in combination with the final joint activity.
- 8 March 2023 – Senior stakeholder Event, UK. Presentation of eNOTICE to 100 participants - stakeholders of policy, national capability, investment R&D, S&T, military. Presenter - WMP.
- 20 – 23 March 2023: CBRNe Summit Europe in Lisbon, Portugal – update on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities. Presenter – JCBRND COE
- 27 – 30 March 2023: JCBRN Defence Capability Development Group executive board meeting in Tel Aviv, Israel - update on recent eNOTICE activities including detailed information on conducted Joint Activities and outlook for upcoming activities.
- 19 – 20 April 2023: JCBRND COE Steering Committee Meeting (14 Sponsoring Nations and Contributing Partner) conducted in Vyskov, Czech Republic – information

on recent eNOTICE activities including detailed information on conducted Joint Activities, content on current deliverables, and outlook for upcoming activities.

- 25 April 2023 - METU online presentation “A Brief Introduction to Game Research: Serious Games, Extended Reality Applications, and Reinforcement Learning” at Johannes Kepler University Linz’s Institute of Computer Graphics’ ICG Lab Talk Series, Linz, Austria.
- 25 April 2023 - METU online presentation “A Brief Introduction to Game Research: Persona Building, Serious Games, and Extended Reality Applications”, Boğaziçi University, Istanbul Turkey.
- 4 May 2023, Brussels, Belgium: final conference of network of practitioners NO FEAR, eNOTICE was invited, represented by UCL.
- 9 – 10 May 2023: Safety and Security Management Studies (SSMS) Professional Network Meeting organised by The Hague University of Applied Sciences at the NATO School in Oberammergau/Germany - information on eNOTICE activities. Presenter – JCBRND COE
- 17 May 2023, Warsaw, Poland: joint field CBRN exercise of projects SAFE STADIUM, NEST and HoloZcan, eNOTICE was invited as observer, represented by UCL.
- 23 – 25 May 2023, Rome, Italy: CBRN field exercise of INCLUDING project, eNOTICE was invited as observer and was presented by UCL.
- 10 July 2023, eNOTICE online presentation by UCL at the Workshop on Test CBRN Hazard Management technologies, organized by ENEA and UNITOV.
- 25-27 July 2023, Hamburg, Germany: summer school about biohazards for young professionals in the field about biohazards, organised by the Helmut-Schmidt University, presented by Campus Vesta.

The multiple events (co-)organized by eNOTICE or where eNOTICE was invited, were numerous, and participation in all these events reflect the true networking nature of the project. The main goal has been achieved – during all the years of the eNOTICE lifetime, the project has been always open to the community, all results, all deliverables, all events are public. eNOTICE has not only been building the focused network of CBRN Training Centers, but it seeks creating the “ecosystem” of CBRN stakeholders around, bringing together the actors involved in CBRN training. Also, eNOTICE has always shared the results, invited, involved in its activities other EU CBRN projects, showing and creating synergies with them, finding common interest, and such joint events proved to amplify the outcomes – eNOTICE partners strongly believe in the cooperation between the complementary initiatives, and uniting efforts.

All the presentations, discussions about the project and the network within the practitioners organisations of the partner stimulated the vast dissemination of the ideas to the greater networks of contacts of eNOTICE partners. The benefit for the project, for the network is huge, many actors became interested in the network, in organization of joint activities, adopted the way of their organization and implemented it in their processes.

All the events related to eNOTICE (meetings, Joint Activities...) are announced and reported on the project Twitter, Facebook, LinkedIn accounts and partners’ websites, e.g. UNITOV CBRNe Masters’ website.

The public dissemination accounts on Twitter and Facebook and maintained and edited by SIC.

Ethical, security and data privacy compliance in dissemination

The project activities required voluntary participation in:

- Joint Activities - field exercises, table tops, serious gaming and simulations organized by the project.
- Policy Meetings gathering policy makers representatives, where all participants are always explained the purpose of the meeting, receive the questions to be discussed in advance, and are encouraged to express their own point of view and not necessarily on behalf of their organization.
- Annual Workshops with training centres representatives, practitioners, industry and research actors who are members of the network or of the larger community.
- Questionnaires and interviews – semi-structured or open conversations around questions about crisis management, collaborations with others, practices of information sharing, ethical, legal and social challenges, opportunities for 'better' emergency service provision.
- Participant observation to understand the practicalities of work, involving shadowing an individual or group, or observing interaction (e.g. during training or an exercise). We may transcribe communications to share with colleagues and analyse in more depth.
- Information Resource research - collection and analysis of the information materials participants use in their work, including analysis of data sets and internal post-disaster reports with permission by the author/owner

All participants are healthy adults of sound mind. All project findings have been anonymised for the public (unless otherwise agreed with participants through the Informed Consent Form signature) (D1.1 POPD Requirement No.7).

Since eNOTICE project takes advantage of the existing training activities, that the project partners open up to the project other partners and external experts, in eNOTICE project there is a clear distinction between the following three types of participants in Joint Activities:

- Practitioners and training professionals participating in the exercises regularly organized by an eNOTICE project partner Training Centre as part of its usual training curriculum. These participants are managed by the standard rules and regulations normally applied by this Training Centre for this type of training activities. No special informed consent is required from eNOTICE project for this type of participants, as there is no contractual or any other legal link between eNOTICE project and these participants.
- eNOTICE project partners – representatives of Training Centres and R&D partners. All project partners are supposed to take part in every Joint Activity, and their participation is regulated by all the conditions of the project Grant Agreement, Consortium Agreement and the rules of corresponding exercise hosted by one of the partners.

- Experts external to the project, invited to a Joint Activity as observers, advisors, technology developers, policy-makers, scientists, etc. It is exactly this type of participants who will receive and sign the Informed Consent Forms (including Data Processing Consent Forms) and Information Sheets with the detailed explanation of the exercise objectives, expected outcome, any special requirements for participation and practicalities.

Informed consent was sought for research activities, normally by asking participants of the third type to sign a written Informed Consent Form, based on a participant Information Sheet (see D1.1) that outlines the information about the exercise, objectives, procedure, expected outcomes and data to be processed. In the circumstances where informed consent cannot be documented by signing the Informed Consent Form – for example, for an ad-hoc interview during an exercise, informed consent may be documented by audio or video recording. eNOTICE partners ensure that risks are discussed with participants in order to secure proper informed consent.

Overall, eNOTICE has not been considered as a security sensitive project. eNOTICE did not use or share any classified information, exchange of information through the eNOTICE instrument did not deal with national security-sensitive nor defence-sensitive information. All dissemination events were subjected proactively to a security analysis aiming at preventing the release of potentially classified information in open sessions. Reports from dissemination events are also subjected to security scrutiny before release. To prevent any accidental disclosure, security aspects are continuously monitored during the project, and compliance is ensured by top security officers with highest security clearance staff. The internal Security Advisory Board (SAB) consists of three eNOTICE consortium members tasked to check each deliverable to assess sensitivity of the information to be published, and to decide upon the deliverable status in case any security-sensitive information is contained.

The eNOTICE consortium places high value on the need to protect the dissemination target audience data security and privacy. The approach to protection of personal data in eNOTICE, that the project must comply with, was described in detail in Deliverable 1.1 – POPD Requirement No.7.

The ethical standards of Horizon 2020 have been rigorously applied, regardless of the country in which the eNOTICE Joint Activities were carried out. The eNOTICE consortium is aware of potential ethical, fundamental rights, privacy and data protection implications that may be identified in the course of the Project and was fully committed to adhere to and promote the highest ethical, fundamental rights and legal standards, as recognized at the European Union and at the international level, in the eNOTICE activities and project results.

Basically, the project adhered to the following principles in data collection and project findings dissemination:

- eNOTICE protects the target audience contacts data gathered during the project and restricts access to it to those who have a need to know, unless prior consent is provided to pass them on to third parties.
- The database of eNOTICE dissemination contacts with all the contact details like names, email addresses and telephone numbers, is available only to eNOTICE consortium members, and is never made publicly available on the eNOTICE website or any public report. The General data Protection Regulation (GDPR) from 25.5.2018 is applied to

sending out the project information to those dissemination contacts that expressed the wish to receive information from the project. The database of dissemination contacts is kept by the dissemination manager in UCL, is available to the project consortium, and is never made public. The project information is sent out to dissemination contacts with the professional or private email addresses hidden.

- The reports from eNOTICE Joint Activities, workshops, and the Final conference do not contain any names, and statements are not credited unless the concerned individual gives his/her explicit consent to be quoted. The participants of the events are not cited individually in the reports, no names and personal data is contained in public reports. Only participating organisations are listed.
- The reports from eNOTICE Joint Activities, workshops, and the Final conference do not contain any shots of individuals unless the concerned individual gives his/her explicit consent to have a photo contained in the report.
- The privacy opt-ins and opt-outs are set by the Informed Consent Forms to be distributed and signed before eNOTICE Joint Activities, workshops, and the Final conference when registering for the events.