



STRATEGY
Interoperability for crisis management

Facilitating EU pre-standardization process through streamlining and validating interoperability in systems and procedures involved in the crisis management cycle

D7.4 List of stakeholders and EU projects and engagement activities report – first version

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The STRATEGY project

STRATEGY will develop a pan-European framework of the pre-standardisation activities for systems, solutions and procedures, addressing crisis management, validated by sustainable tests and evaluation frameworks which will improve the crisis management and disaster resilience capabilities, including European Defence Agency (EDA) initiatives in the CBRN-E area. Based on the needs identified from previous EU initiatives and the desktop research on the EU priorities, the project addresses eight streams within crisis management: Search and Rescue, Critical Infrastructure Protection, Response Planning, Command and Control, Early Warning Systems and Rapid Damage Assessment, CBRN-E, Training and Terminology.

Aiming at selecting and implementing existing, evolving and new standards within solutions, tools and procedural guidelines and recommendations STRATEGY will streamline and validate technical and organisational interoperability in a fully transboundary configuration with means of standards through the implementation of use cases involving EU and National Standardisation bodies.

STRATEGY aims at a consistent presence of actively involved experts from security stakeholders throughout all stages of standardisation, from the preparatory work done in Programming Mandates until the concrete standardisation work in Technical Committees (TCs) and Common Working Groups (CWGs) to assure the success of the standardisation actions of the EC.

The ultimate project goal is to strengthen the resilience of EU against all types of natural and manmade disasters (multi-hazard approach), by ensuring first responder (FR) safety and empowering their operational capacity through validating the standards of next generation solutions and procedures ensuring an effective and efficient collaborative response.





Table of Contents

Abbreviations.....	6
Executive Summary.....	8
1 Introduction	9
2 List of STRATEGY Stakeholders	10
3 List of STRATEGY synergies with other EU-funded projects	19
3.1 The PREPARE projects.....	19
3.1.1 CO-VERSATILE project.....	19
3.1.2 COVID-X project	19
3.1.3 COVINFORM project	20
3.1.4 EUR3KA project.....	20
3.1.5 NO-FEAR project	20
3.1.6 PANDEM 2.....	21
3.1.7 PERISCOPE project	21
3.1.8 PHIRI project	21
3.1.9 STAMINA project.....	22
3.1.10 RiskPACC project.....	22
3.1.11 LINKS project.....	23
3.2 Other EU-Funded projects	24
3.2.1 FIRE-IN project	24
3.2.2 MEDEA project.....	25
3.2.3 STAIR4SECURITY project	26
3.3 Further synergies to be developed	26
3.3.1 ENCIRCLE project.....	26
3.3.2 INCLUDING project.....	27
3.3.3 TeamAware project.....	28
3.3.4 Search & Rescue project	28
3.3.5 FIREURISK project.....	29
3.3.6 EU RESPONSE project.....	29
4 Engagement activities	31
4.1 Workshop organised	31
4.2 Workshops, conferences, and other events attended	32
4.2.1 Workshop attended	32
4.2.2 Conferences attended.....	33
4.2.3 Other events	35
5 Conclusion and future outlook	37



List of Figures

Figure 1: Countries represented in STRATEGY Stakeholder Community.....	17
Figure 2: Categories of actors represented in the Stakeholder Community	18
Figure 3: Post on STRATEGY Twitter account about the baseline workshop	32
Figure 4: Save the date of the Innovation Procurement Workshop for Security Practitioners.....	33
Figure 5: 2020 CAP Workshop advertisement	33
Figure 6: TIEMS 2020 Programme, 1st page.....	34
Figure 7: Advertisement of the International Society of Military Sciences Annual Conference 2021 .	34
Figure 8: STAIR4SECURITY Final Event Programme	35
Figure 9: STRATEGY presentation at STAIR4SECURITY Final Event (Retweet)	35
Figure 10: European Defence Agency logo	36
Figure 11: DEFEA logo	36

List of Tables

Table 1: List of Abbreviations.....	6
Table 2: List of STRATEGY Stakeholders.....	10



Abbreviations

Table 1: List of Abbreviations

Abbreviation	Explanation
ASI	Austrian Standards International
ASRO	Romanian Standards Association
CBRN-E	Chemical, Biological, Radiological, Nuclear and Explosive
CNVVF	Italian Ministry of Interior
CO-VERSATILE	Adaptive and resilient production and supply chain methods and solutions for urgent need of vital medical supplies and equipment
COVID X	COVID exponential programme
COVINFORM	Coronavirus vulnerabilities and information dynamics research and modelling
CWG	Common Working Group
DBLUE	Deep Blue
D&C	Dissemination and Communication
DoA	Description of the Action
EC	European Commission
EDA	European Defence Agency
ENCIRCLE	European CBRN Innovation for the market Cluster
EOS	European Organisation for Security
EU	European Union
EU RESPONSE	European Research and Preparedness Network for Pandemics and Emerging Infectious Diseases
Eur3ka	European Vital Medical Supplies and Equipment Resilient and Reliable Repurposing Manufacturing as a Service Network for fast Pandemic Reaction
FIRE-IN	Fire and Rescue Innovation Network
FirEURisk	FIREURISK – Developing a holistic risk-wise strategy for European wildfire management
FR	First Responder
FSX	Field Simulation Exercise
GDPR	General Data Protection Regulation
INCLUDING	Innovative Cluster for Radiological and Nuclear Emergencies
LEA	Law enforcement agency
MEDEA	Mediterranean practitioners' network capacity building for effective response to emerging security challenges
NGO	Non-Governmental Organisation
NO FEAR	Network of practitioners for emergency medical systems and critical care
PANDEM 2	Pandemic Preparedness and Response
PC	Project Coordinator
PERISCOPE	Pan-European Response to the Impact of COVID-19 and future Pandemics and Epidemics
PHIRI	Population Health Information Research Infrastructure
PREPARE	Preparedness and response for emergency situations in Europe
RiskPACC	Integrating Risk Perception and Action to enhanced civil protection citizens interaction
RTO	Research and Technology Organisations
SaR	Emerging Technologies for the early location of entrapped victims under collapsed structures and advanced wearable for risk assessment and first responders safety in SAR operations
SINTEF	SINTEF AS
SC	Stakeholder Community
SCoR	Smart Cities of Romania
STAIR4SECURITY	STAIR4SECURITY – Standards, Innovation and Research for Security



STAMINA	Demonstration of intelligent decision support for pandemic crisis prediction and management within and across European borders
TC	Technical Committee
TeamAware	Team Awareness Enhanced with Artificial Intelligence and Augmented Reality
TRI	Trilateral research
TTX	Table-Top Exercise
UMLDBQ	Ministry of Defence (Portugal)
UNE	Spanish Association for Standardization
WCO	Woitsch Consulting OY
WP	Work Package



Executive Summary

Deliverable 7.4 List of stakeholders and EU projects and engagement activities report in its first version provides the initial list of the STRATEGY stakeholders, as identified during the first year of the project. This list of stakeholders has been created by the European Organisation for Security (EOS) with the support of the consortium partners who shared their relevant contacts. The list is used to send the newsletter and is regularly updated.

In respect to the requirements of the GDPR, the document containing the list is protected by a password which is only known to EOS, being in charge of elaborating it and drafting this deliverable, as well as Trilateral Research, the WP7 leader. Table 2 – List of STRATEGY Stakeholders –reflects these requirements as no individual name nor contact details is specified below.

Among the objectives of D7.4 is to also provide the reader with data / details related to the engagement activities with other EU-funded projects which have been developed by the consortium this past year. This is divided into three main points:

- The PREPARE projects cluster whose STRATEGY is part of since March 2021.
- Projects and/or initiatives with which STRATEGY has established connections through, for example, presentations of the project during workshops.
- Projects and/or initiatives with which STRATEGY aims to establish connections in the near future

Deliverable 7.4 refers to the first version of the document whereas the final report will be submitted at the end of the project (M36).



1 Introduction

The main objective of WP7 “Impact creation, Communication & Dissemination” is to ensure a high-impact for STRATEGY as well as to pave the path for future exploitability of results. Stakeholder engagement and liaison activities with other projects (task 7.4) will be the cornerstone for achieving this objective. In this context, identifying and mapping relevant crisis management stakeholders, projects, or organisations is a vital step in this direction. This deliverable (D7.4 First version of the list of stakeholders and EU projects and engagement activities report) aims in exploring and mapping the project’s ecosystem with respect to stakeholders relevant to the project.

More specifically, D7.4 is divided into three main sections. The document starts with the List of the STRATEGY Stakeholders, continuously updated by EOS with relevant names shared by the consortium partners (section 2). Subsequently, the reader will be introduced to the synergies developed by STRATEGY with other EU-funded projects (section 3). Finally, the document lists events in which STRATEGY partners have participated in order to disseminate about the main outputs of the project. This last section includes a list of EU-projects of interest and with which further synergies could be developed.



2 List of STRATEGY Stakeholders

STRATEGY WP7 partners have established connections with 80 persons within 78 organisations throughout Europe. The list below also indicates to what extent STRATEGY partners have contributed to the extension of the stakeholder list¹ (in alphabetical order – pls refer to column “contact owner”).

Table 2: List of STRATEGY Stakeholders

Contact owner	Organisation	Stakeholder type	Research Area	Country
ASI	Institute of Technology Assessment – Austrian Academy of Sciences	Academia	Technological solutions	Austria
ASI	State Crisis and Disaster Control Management (SKKM) - Austrian Ministry of Interior	Public body / LEA	Emergency response	Austria
ASI	Austrian Ministry of Interior – Civil protection training	Public body / LEA	Training	Austria
ASI	Austrian Defence Ministry - Civil-Military Cooperation - Operations Management	Public body	Emergency Response	Austria
ASI	Austrian Defence Ministry - ABC Abwehrzentrum	Public body	Training / Emergency response	Austria
ASI	Austrian Red Cross	NGO / End user	Emergency response / rescue	Austria
ASI	Austrian Fire Brigade Association	Association	Emergency response / Fire management	Austria
ASI	FH Campus Wien – Integrated Safety and Security	Academia	Crisis Management	Austria
ASRO	Police Commissioner – Romanian Ministry of Interior	LEA	Civil protection	Romania
ASRO	General Inspectorate for Emergency	LEA	Emergency response	Romania

¹ In compliance with the General Data Protection Regulation, names and contact details of the members of the list are not disclosed in this public deliverable.



	Situations – Romanian Ministry of Interior			
ASRO	SCoR Cluster	RTO / Association	Smart cities	Romania
ASRO	Romanian Association of fire safety engineers ARISI	Association	Fire protection	Romania
ASRO	CBRN Defence and Ecology Scientific Research Centre	RTO	CBRN-E	Romania
ASRO	University Politehnica Bucurest	Academia	Energy	Romania
ASRO	Romanian National Committee of World Energy Council	NGO	Energy	Romania
CNVVF	Comune di Gualdo Tadino	Public body / end users	Crisis Management / Emergency response	Italy
CNVVF	Comune di Valfabbrica	Public body / end users	Crisis Management / Emergency response	Italy
CNVVF	ANCI Umbria PROCIV	Public body / end users	Civil protection	Italy
CNVVF	Vigili del Fuoco – Central Directory for Emergencies	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Comando Provinciale Vigili del Fuoco Viterbo	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Comando Provinciale Vigili del Fuoco Roma	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Comando Provinciale Vigili del Fuoco Perugia	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Comando Provinciale Vigili del Fuoco Sassari	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Vigili del Fuoco – Central Directory for Prevention	Public Body / First responder / end user	Emergency response / Fire management	Italy



CNVVF	Vigili del Fuoco – Regional Directory for Campania	Public Body / First responder / end user	Emergency response / Fire management	Italy
CNVVF	Vigili del Fuoco – Regional Directory for Sardinia	Public Body / First responder / end user	Emergency response / Fire management	Italy
DBLUE	Zenabyte	Industry	Data analysis	Italy
DBLUE	RailSec	Industry	Transport security	Israel
DBLUE	University of Applied Science – Police Affairs in Bavaria	Academia	Training	Germany
DBLUE	Ertzaintza (Basque Police)	LEA	Emergency response	Spain
DBLUE	European Emergency Number Association	Association	Emergency Response	Belgium
EOS	Joint Emergency Service Interoperability Programme – North West Ambulance Service	End user	Ambulance / Health / Training / Resilience	United Kingdom
EOS	Ecole Nationale Supérieure de la Police – French Ministry of Interior	LEA	Training	France
EOS	Croix rouge belge – Rescue Service	End users / NGO	Rescue	Belgium
EOS	Belgian National Crisis Centre	Public Body	Rescue	Belgium
EOS	Federal Agency for Technical Relief – German Ministry of Interior	Public body	Civil protection / Standardisation (SAYSO project)	Germany
Fraunhofer	French National Fire Officers Academy / Innovation, development and research projects Division	Public body	Technological solutions	France
Fraunhofer	Berlin Police – Research department	LEA	Security research / Crisis Management	Germany



Hellenic Police	Hellenic Police - Technical Support Division - Department of Building Infrastructure	Public body / LEA / end user	Critical Infrastructure Protection	Greece
Hellenic Police	Hellenic Police/ Joint Coordination Center for Operations and Crisis Management/ Department of Operational Planning, Cooperation and Exercises	Public body / LEA / Training	Crisis Management	Greece
Hellenic Police	Hellenic Police/ Division of Technical Implementations/ Department of Technical Means and Technological Systems	Public body / LEA / end user	Technological solutions	Greece
Hellenic Police	Hellenic Police/ Traffic Division of Attica Region/ Department of Internal Operations	Public body / LEA	Emergency response	Greece
Hellenic Police	Hellenic Police/ Air Force Service/ UAV Department	Public body / LEA	Technological solutions	Greece
Hellenic Police	Hellenic Police/ Informatics Directorate/ Software Development Department	Public body / LEA	Technological solutions (public procurement)	Greece
Hellenic Police	Hellenic Police/ Joint Coordination Center for Operations and Crisis Management/ Coordination and Technical Support Department	Public body / LEA	Emergency response	Greece



KEMEA	Hellenic Rescue Team	Volunteer Organization/ End User	Search & Rescue	Greece
KEMEA	ERTZAINZA	End User	Emergency response	Spain
KEMEA	Budapesti Tuzolto Szovetseg	Public Body / End User	Search & Rescue	Hungary
KEMEA	Technisches Hilfswerk	Public Body / End User	Response planning	Germany
KEMEA	SDIS 34	Public Body / End User	Search & Rescue	France
KEMEA	Irish Police	End User	Response planning	Ireland
KEMEA	Fraport security department	End User	Critical Infrastructure Protection	Greece
KEMEA	Egnatia Highway	End User	Critical Infrastructure Protection	Greece
KEMEA	Attiki Natural Gas Distribution Company	Industry	Critical Infrastructure Protection	Greece
KEMEA	Italian National Agency for New Technologies, Energy and Sustainable Economic Development	Industry	Critical Infrastructure Protection	Greece
KEMEA	National Observatory of Athens	RTO	Early Warning	Greece
KEMEA	Faculdade de Engenharia da Universidade do Porto	Academia	Damage Assessment	Portugal
KEMEA	National Inter-University Consortium for Telecommunications /University of Palermo	Academia	Command & Control	Italy
KEMEA	Valabre	First Responder	Early Warning / Search & Rescue	France
KEMEA	The International Emergency	Association First Responder	Training	Norway



	Management Society AISBL			
KEMEA	Taltech	Academia	CBRN-E	Esthonia
KEMEA	Technical University of Cyprus	Academia	Damage Assessment	Cyprus
KEMEA	Universidad de Malaga	Academia	Response Planning	Spain
KEMEA	National Kapodistrian University of Athens	Academia	Early Warning	Greece
KEMEA	Airbus	Industry	Technological Solutions	France
KEMEA	Unisystems	Industry	Technological Solutions	Greece
KEMEA	Vworld (Viewterra)	SME	Technological Solutions	France
KEMEA	Thales	Industry	Technological Solutions	France
KEMEA	Wings ICT	SME	Technological Solutions	Greece
KEMEA	Projecton	Industry	Technological Solutions	Greece
KEMEA	Policy Officer, DG ECHO	Policy Maker	Disaster Management	Belgium
KEMEA	General Secretariat of Civil Protection	Public body/ End User	Disaster Management	Greece
KEMEA	Ministry of Infrastructure	Public body	Critical Infrastructure Protection	Greece
KEMEA	Cyprus civil defense	Public body/ End User	Disaster Management	Cyprus
KEMEA	Earthquake Planning and Protection Organization	Public body/ End User	Damage Assessment	Greece
SINTEF	Norwegian Ministry of Justice and Public Security	Public body / policymakers	Standardisation	Norway
SINTEF	Norwegian Directorate for Civil Protection (DSB)	Public body	Emergency response	Norway



SINTEF	Joint Rescue Coordination Centre	LEA / end user	Rescue	Norway
SINTEF	Standard Norway	Association / Industry	Standardisation	Norway
TRI	Institute of Rescue Engineering and Civil Protection - TH Köln – University of Applied Sciences	Academia	Search & Rescue	Germany
TRI	Ambipar response	Industry	Emergency response / crisis management	Brazil
TRI	Islington council – Emergency planning and business continuity	Policymakers / LEA	Emergency response / crisis management	United Kingdom
TRI	International Institute for Environment and Development – Climate Change research group	RTO	Climate change / Natural Hazards	United Kingdom
TRI	Crisis Response Journal	Press	Crisis Management	United Kingdom
TRI	JURRISK bv	Consultancy	Crisis Management	Belgium
UNE	Aproser	Association / Industry	Standardisation	Spain
UNE	Association of Spanish speaking professionals for risk and uncertainty management (APEGRI)	Association / Industry	Standardisation	Spain
UMLDBQ	Instituto Nacional de Saúde Doutor Ricardo Jorge	RTO	Health / Biothreats	Portugal
UMLDBQ	Regimento de Sapadores Bombeiros (Lisboa)	End user	Fire prevention	Portugal
UMLDBQ	Ministry of Defence - Standardisation and Codification Section	Standardisation body	Standardisation	Slovenia
UMLDBQ	European CBRN-centre	RTO/Academia	CBRN-E	Sweden



UMLDBQ	Optimal Defence	Industry	Health	Portugal
UMLDBQ	European Defence Agency - CBRN CapTech Moderator	Policymakers	CBRN-E	EU (Belgium)
Veiligheidsregio IJsselland	Counterterrorism and Safety Department - Dutch Ministry of Justice and Safety	Public Body / Policymakers	Counterterrorism / Emergency response	The Netherlands
Veiligheidsregio IJsselland	University Saxion Deventer Holland	Academia	Technological solutions	The Netherlands
Veiligheidsregio IJsselland	Merlin – Software for crisis	Industry	Technological solutions	The Netherlands
WCO/PW	Environics Oy	Industry	CBRN-E Training /	Finland
WCO/PW	VTT	RTO	Technological solutions	Finland
WCO/PW	Fire Rescue Brigade of Moravian-Silesian Region	Public Body / end user	Fire management / emergency response	Czech Republic

Below, Figure 1 presents the distribution of STRATEGY Stakeholders across the EU and outside of its territory. Afterwards, Figure 2 shows the distribution between different groups of listed actors.

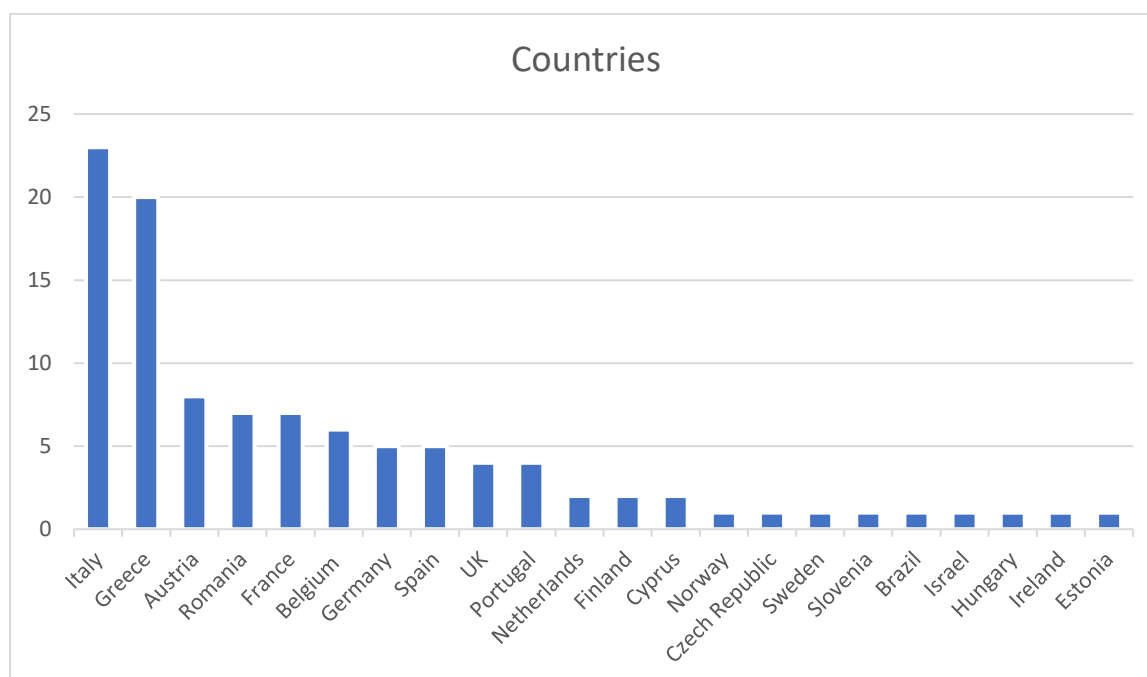


Figure 1: Countries represented in STRATEGY Stakeholder Community

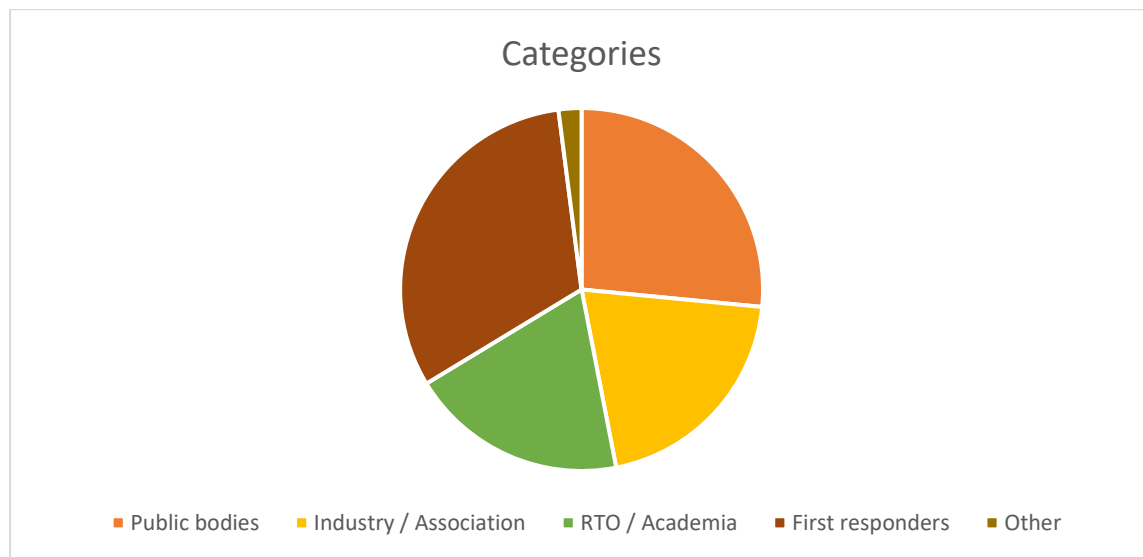


Figure 2: Categories of actors represented in the Stakeholder Community

Section 2.3.1 of STRATEGY Dissemination and Communication Plan (D7.1) describes the project's strategy regarding Stakeholder engagement. The project will engage with its Stakeholder Community in order to:

- Gather ideas and information
- Foster synergies and enhance cooperation
- Enhance the impact of the TTX and FSX
- Support the standard validation process
- Increase the project impact

STRATEGY Stakeholder Community (SC) has already been used by project's partners in order to foster the project's results in accordance with the General Data Protection Regulation (GDPR). For instance, a short list of relevant actors taken from the SC has been used by T4.5 partners in their effort to consult with non standardization bodies. A first list of relevant contacts has already been established and STRATEGY brochures have been disseminated.



3 List of STRATEGY synergies with other EU-funded projects

STRATEGY partners have already established sustainable relationships with other EU-funded projects. Such synergies are essential for the project's outcome and the general harmonisation of the EU R&I landscape. They have been established throughout cluster membership and/or the co-organisation of events.

3.1 The PREPARE projects

STRATEGY is part of a cluster of 12 EU-funded H2020 projects, whose combined funding reaches €72 million. The PREparedness and resPonse for emergency situations in Europe (PREPARE) cluster specifically aims at looking at the preparedness and response phases of crisis management.

Synergies

The PREPARE cluster reflects the need of synergies at EU-level to tackle cross-border crises such as climate change, terrorism, international trade disputes or global health threats. STRATEGY partner TRILATERAL participated to the Crisis management cluster that was co-organised by PREPARE projects CO-VERSATILE; STAMINA; COVINFORM; NO FEAR; PANDEM2; PERISCOPE in March 2021.

So far (November 2021), the cluster's projects have been meeting and built up a shared working space in order to promote each other. Starting from December 2021, STRATEGY D&C Team will meet on a bi-monthly basis with other members of the PREPARE Cluster in order to discuss different kind of synergies such as collaboration during webinars or joint social media campaigns. Recently, the cluster endorsed a white paper on inclusive communication in times of crisis, drafted by the COVINFORM consortium².

The cluster consists of the following projects that are highly prioritised when there is a need to establish further synergies with other EU-funded projects:

3.1.1 CO-VERSATILE project



Project acronym: CO-VERSATILE

Project title: Adaptive and resilient production and supply chain methods and solutions for urgent need of vital medical supplies and equipment

Project website: <https://co-versatile.eu/>

Project description: To protect European citizens and address the needs of the healthcare sector on short notice, the CO-VERSATILE project aims to prepare Europe for managing pandemics by elevating the adaptability and resilience of the manufacturing sector. The goal is to offer manufacturing and logistics firms readily available and customisable solutions - accessible via a cloud-based marketplace 'Digital Technopole' - that enable them to boost the production of vital medical equipment.

3.1.2 COVID-X project

Project acronym: COVID-X

Project title: COVID eXponential Programme

² White paper available : [COVINFORM-PROACTIVE-Whitepaper-Communication-in-times-of-crisis.pdf](#)



Project website: <https://www.covid-x.eu/>

Project description: COVID-X bridges the gap between the European digital sector and healthcare providers. The program will unlock the full capacity of Artificial Intelligence and Data Technology solutions to overcome COVID-19 Challenges, fast-tracking projects to market and save lives.

3.1.3 COVINFORM project



Project acronym: COVINFORM

Project title: COronavirus Vulnerabilities and INFOrmation dynamics Research and Modelling

Project website: <https://www.covinform.eu/>

Project description: COVINFORM analyses COVID-19 responses on the level of government, public health, community, and information and communication with a focus on the impacts on vulnerable individuals and groups. Key outcomes of the project are an online portal and visual toolkit for stakeholders in government, public health, and civil society integrating data streams, indices and indicators, maps, models, primary research and case study findings, empirically grounded policy guidance, and creative assessment tools.

3.1.4 EUR3KA project



Project acronym: EUR3KA

Project title: EUropean Vital Medical Supplies and Equipment Resilient and Reliable Repurposing Manufacturing as a Service NetwoRK for Fast PAndemic Reaction

Project website: <https://www.eur3ka.eu/about>

Project description: The Eur3ka – EUropean Vital Medical Supplies and Equipment Resilient and Reliable Repurposing Manufacturing as a Service NetwoRK for fast PAndemic Reaction – will be repurposing the manufacturing for vital medical supplies and equipment. Enhancing personal skills, new industrial value chains, service innovation, technological innovation, innovation methodologies, process innovation to fight Pandemics like COVID-19.

3.1.5 NO-FEAR project



Project acronym: NO-FEAR

Project title: Network Of practitioners For Emergency medical systems and cRitical care

Project website: <https://no-fearproject.eu/>



Project description: NO-FEAR (Network Of practitioners For Emergency medical systems and cRITICAL care) is a 5-year Coordination and Support Action project that aims to bring together a pan-European and beyond network of emergency medical care practitioners, suppliers, decision and policy makers to collaborate and exchange knowledge, good practices, and lessons learned.

3.1.6 PANDEM 2



Project acronym: PANDEM-2

Project title: Pandemic Preparedness and Response

Project website: <https://pandem-2.eu/>

Project description: PANDEM-2 is a H2020 EU-funded project that aims to develop new solutions for efficient, EU-wide pandemic management. The goal of PANDEM-2 is to prepare Europe for future pandemics through innovations in training and to build capacity between EU member states responding to pandemics on a cross-border basis.

3.1.7 PERISCOPE project



Project acronym: PERISCOPE

Project title: Pan-European Response to the ImpactS of COVID-19 and future Pandemics and Epidemics

Project website: <https://www.periscopeproject.eu/start>

Project description: PERISCOPE is a large-scale research project funded under the Horizon 2020 programme, that brings together 32 European institutions, coordinated by the University of Pavia. The goal of PERISCOPE is to shed light into the broad socio-economic and behavioral impacts of COVID-19. A multidisciplinary consortium brings together experts in all aspects of the current outbreak: clinic and epidemiologic; socio-economic and political; statistical and technological.

3.1.8 PHIRI project



Project acronym: PHIRI

Project title: Population Health Information Research Infrastructure

Project website: <https://www.phiri.eu/>

Project description: Population Health Information Research Infrastructure (PHIRI) for COVID-19 facilitates research and supports policy making across Europe through the implementation of a research infrastructure to generate the best available evidence for research on health and well-being of populations as impacted by COVID-19.



3.1.9 STAMINA project



STAMINA

Project acronym: STAMINA

Project title: Demonstration of intelligent decision support for pandemic crisis prediction and management within and across European borders

Project website: <https://stamina-project.eu/>

Project description: The STAMINA project brings together 27 organisations working towards developing tools for predictive modelling of pandemic outbreaks, along with early warning functionalities and decision support. The toolset will be accompanied by a set of guidelines on effective implementation of risk communication principles and best practices in cross-organisational preparedness and response plans.

STAMINA deals with matters that are quite close to STRATEGY's objectives. Indeed, STAMINA has a Work Package dedicated to standardization activities which could significantly enhance STRATEGY results.

3.1.10 RiskPACC project



Project acronym: RiskPACC

Project Title: Integrating Risk Perception and Action into Disaster Risk Management practices to enhance Civil protection & Citizen interaction

Project website: <https://www.riskpacc.eu/>

Project description: The RiskPACC project seeks to further understand and close the Risk Perception Action Gap (RPAG). Through its dedicated co-creation approach, RiskPACC will facilitate interaction between citizens and CPAs to jointly identify their needs and develop potential procedural and technical solutions to build enhanced disaster resilience. RiskPACC will provide an understanding of disaster resilience from the perspective of citizens and CPAs, identifying resilience building initiatives and good practices led by both citizens (bottom-up) and CPAs (top-down).

Based on this understanding, RiskPACC will facilitate collaboration between citizens, CPAs, Civil Society Organisations, researchers and developers through its seven case studies to jointly design and prototype novel solutions. The "Risk Pack" of solutions will include a framework and methodology to understand and close the RPAG; a repository of international best practice; and, toolled solutions based on new forms of digital and community-centred data and associated training guidance.



3.1.11 LINKS project



LINKS

Strengthening links between technologies and society
for European disaster resilience

Project acronym: LINKS

Project Title: *Strengthening links between technologies and society for European disaster resilience*

Project website: <http://links-project.eu/>

Project description: The overall aim of the LINKS project is to strengthen links between technologies and society for improved European disaster resilience, by producing sustainable advanced learning on the use of social media and crowdsourcing (SMCS) in disasters.

In recent years, social media and crowdsourcing (SMCS) have been integrated into crisis management for improved information gathering and collaboration across European communities. The effectiveness of SMCS on European disaster resilience, however, remains unclear owing to the diversity among disaster risk perception and vulnerability (DRPV), disaster management processes (DMP) and disaster community technologies (DCT) across Europe today.



3.2 Other EU-Funded projects

Within this section, the projects with which STRATEGY already established synergies in the past 15 months are listed. Two of these projects are building networks -in two different security domains and geographical area – which can be considered as essential for STRATEGY’s standardisation objectives. On the other hand, STAIR4SECURITY focused on the development of a platform for a better management of CBRN-E incidents (corresponding to STRATEGY Stream 6) - interacting with the project’s network was crucial to reach STRATEGY’s objectives.

3.2.1 FIRE-IN project



Project acronym: FIRE-IN

Project title: The first European Fire and Rescue Innovation Network

Project website: <https://fire-in.eu/>

Project description:

FIRE-IN project brings together 16 European Partners working together to create, improve, animate and develop the first European Fire & Rescue Network, delivering solutions for safer European societies. The project aims at improving the Fire & Rescue services capabilities, developing process by fostering innovation and promoting cutting edge solutions to recognise operational needs. FIRE-IN partners animate 5 Thematic Working Groups for the Associated Experts community including key thematic practitioner experts from public, private, NGOs bodies and representative of thematic working groups from existing network.

Synergies (description):

FIRE-IN brings together practitioners, research/academia and industry, and identifies current and future Common Capability Challenges in 5 Thematic topics: Search and Rescue and Emergency Response, Structure Fires, Landscape Fires, Natural Hazard Mitigation and CBRNE. These topics are either identical or have commonalities with the streams of STRATEGY.

Based on the fact the FIRE-IN has already identified common challenges, among them issues around standardisation for the 5 Thematic Working Groups and considering also the FIRE-IN partners with various disciplines and especially the practitioners, a liaison has been built in order to examine further: (a) the participation of practitioners or other types of stakeholders from the FIRE-IN network to specific activities of STRATEGY as external reviewers or observers and (b) receive feedback from FIRE-IN regarding the standardisation challenges already identified by its practitioners, researchers and industry partners.

At the same time, STRATEGY can offer standardisation gaps found as well as specific measures to “cover” the gaps and consequently ideas and solutions to cover FIRE-IN challenges.

It is expected that in the near future the participation and/or organisation to common events or workshops will be carried out.

The two projects share a small number of common partners such as KEMEA and FhG-INT. This liaison between the two projects came up through KEMEA in first approach. At a later stage, the coordinator of STRATEGY (SATWAYS) participated to the FIRE-IN project liaison that was co-organised by two EU-funded projects MEDEA and FIRE-IN.



3.2.2 MEDEA project



Project acronym: MEDEA

Project title: Mediterranean & Black Sea Security Practitioner's Network

Project website: <https://www.medeaproject.eu/>

Project description:

The Mediterranean and Black Sea region is an international centre of economic and commercial development and transactions. At the same time, though, it is characterised by a very volatile and dynamically changing security environment that poses severe threats and challenges on the societies and their prosperity. MEDEA aspires to contribute to the establishment of safer and more secure societies throughout the Mediterranean and Black Sea region using research and innovation as a catalyst to promote collaboration between practitioners from diverse disciplines and countries. The MEDEA project, during its 60 months of implementation aims to:

- Establish and Operate the MEDEA network. A multi-disciplinary network of security practitioners, with active links to policy makers and users/providers of security innovations across the M&BS countries focusing on Border Protection and other Security- and Disaster-Related tasks. All MEDEA members will engage in activities towards maintaining its sustainability and longevity even after the end of the project.
- Engage participants in anticipatory governance on emerging security challenges that the Mediterranean and Black Sea regions would face in the coming years (present until +10 years), based on a threefold structure that forms the backbone of the project: i) understanding the unsatisfactory state of play, ii) design the desirable future and iii) define a resilient pathway on how to achieve this.
- Push for the “co-creation” of security technology and capabilities innovations between practitioners and innovation. Their evaluation and prioritization will be based on a multi-criteria analysis (technology, operational, cost-benefit, etc.) and it will be linked to Human Development, Policy Making and Organizational Improvements in-terms of facilitating their use by the practitioners.
- Establish and annually update the Mediterranean Security Research and Innovation Agenda (MSRIA), that identifies areas where security & defence research is needed (including the research needs that are not covered by civilian research) and establishes recommendations for European Security & Defence technology investments. It will constitute the common position of the Mediterranean practitioners for future call for proposals from European and National funding mechanisms.

Synergies (description):

STRATEGY partner KEMEA participated to the Innovation procurement workshop for security practitioners that was co-organised by three EU-funded projects MEDEA, CIVILnEXt and iProcureNet in March 2021.



3.2.3 STAIR4SECURITY project



Project acronym: STAIR4SECURITY

Project title: STANDARDS, INNOVATION AND RESEARCH FOR SECURITY

Project website: <http://cen-stair4security.eu/>

Project description:

The main objective of STAIR4SECURITY is to create a collaborative platform as single-entry point of information on the security sector coming mostly from research activities allowing a better governance of standardization needs in the Disaster Resilience and Chemical Biological Radiological Nuclear and Explosive (CBRN-E) sectors. The platform will permit a better overview of current and new projects being at, national, European or International level; ensuring more coordination between all stakeholders and responding more efficiently and timely to the critical needs following an agreed strategic vision and identified priorities.

Synergies (description):

During the project's final event (May 2021), STRATEGY was presented by the project's coordinator SATWAYS.

3.3 Further synergies to be developed

The section below will outline several projects already identified by the STRATEGY dissemination and communication team. STRATEGY could develop further synergies with these initiatives through activities such as joint participation in events. Indeed, STRATEGY partners should focus on establishing sustainable links with successful EU projects in order to reach its standardisation objectives. The following list includes

- 2 projects related to Stream 6 (CBRN-E)
- 1 project deals with Search and Rescue
- Other projects that could be useful for several Streams' activities. For instance, synergies with the TeamAware project could be relevant for both Stream 5 (Early Warning and Rapid Damage Assessment) and Stream 3 (Response Planning).

3.3.1 ENCIRCLE project



Project acronym: ENCIRCLE

Project title: European CBRN Innovation for the Market Cluster

Project website: <https://encircle-cbrn.eu/>

Project description: To improve its resilience to new CBRN attacks and threats, the EU needs a specialized, competitive, efficient and sustainable industry. Capitalizing on its experience in the



EDEN Demonstration Project, other CBRN relevant projects, and in the CBRN market and supply chain, the ENCIRCLE consortium proposes an innovative approach to reach this goal in a short to long term perspective. Once achieved it will allow SMEs and large industries to deliver and invest in the best innovations on the market.

ENCIRCLE has five key objectives aimed at promoting innovation and business development to fill market gaps in the project timeframe:

- Create an open and neutral EU CBRN cluster,
- Provide a sustainable and flexible vision and roadmap for the development of the European CBRN market and innovations,
- Provide integration with platforms (systems, tools, services, products) by proposing standardized interfaces and future EU standards to integrate CBRN technologies and innovations developed from the Part b projects of the H2020-SEC-05-DRS CBRN Cluster call,
- Support CBRN safety, security and defence commercial and market services,
- Improve and facilitate European CBRN dissemination and exploitation

The main expected impact is the enhancement of the EU CBRN industry's competitiveness. This will allow it to enlarge its market share while increasing the benefits of the EU research and innovation to improve CBRN preparedness, response, resilience and recovery efficiency.

Synergies (areas): CBRN-E, European harmonisation, technological solutions for security

3.3.2 INCLUDING project



Project acronym: INCLUDING

Project title: INNOVATIVE CLUSTER FOR RADIOLOGICAL AND NUCLEAR EMERGENCIES

Project website: <https://including-cluster.eu/>

Project description: INCLUDING is seek to provide a full-fledged and comprehensive training in the RN security sector at European level. Starting from the existing training resources of the Partners in the Consortium, in most cases developed in the framework of EC projects, INCLUDING aims to enhance practical know-how and to boost a European sustainable training and development framework for practitioners in the RN Security sector. Far from being a simple aggregation of entities separated geographically and with complementary expertise, INCLUDING is intended to be a cluster of facilities and resources pursuing a Federated Model in which individual components will cooperate together to provide a common framework for optimizing the exploitation of all the potentialities available in the Cluster.

Synergies (areas): European harmonisation, CBRN-E, Crisis management, security practitioners, training



3.3.3 TeamAware project



Project acronym: TeamAware

Project title: Team Awareness Enhanced with Artificial Intelligence and Augmented Reality

Project website: <https://teamaware.eu/>

Project description: First responders are the groups of people, services and organisations with specialised skills and qualifications whose duty is to arrive first to the emergency zone, search, save and rescue operations, and perform crisis management in natural or human-made disasters. Although first responders provide secure and safe societies by protecting the communities, responding to the disasters and rescuing lives, they often use inefficient, weak and obsolete technologies in the operations. With respect to the current situation, the operational capabilities of the first responders can be dramatically boosted by the advances in technology and engineering fields such as smart sensor systems, wearables, data processing, data fusion, data analytics, communication infrastructure, and artificial intelligence tools.

The main objective of TeamAware Project is to develop an integrated and cost-efficient situational awareness system for first responders from different sectors with heterogeneous and hardly interoperable sensor units including drone mounted, wearable, and external sensor systems, existing first responder services, and operation centres. The purpose is to enhance crisis management, flexibility and reaction capability of first responders of different sectors through real-time, fused, refined, filtered, and manageable information by using highly-standardized augmented reality and mobile human machine interfaces.

Synergies (areas): Crisis management, first responders, response planning, technological solutions for security

3.3.4 Search & Rescue project



Project acronym: Search & Rescue

Project title: Emerging technologies for the Early location of Entrapped victims under Collapsed Structures and Advanced Wearables for risk assessment and First Responders Safety in SAR operations

Project website: <https://search-and-rescue.eu/>

Project description: After an earthquake, an industrial chemical release or a building's collapse, a timely and effective response is crucial and can prevent or significantly reduce the risk of casualties. This is why first responders and rescue teams need to be equipped with cutting edge tools and specialised instruments in order to enhance their capabilities in terms of accuracy, quick localisation, and reduction of false alarms. Through a series of large-scale pilot scenarios, the EU-funded Search and Rescue project will design, implement and test a highly interoperable open architecture platform for first responders, including advanced frontend equipment systems and backend applications, improving the decision-



making of first responders and providing a dynamic common operational picture of the crisis.

Synergies (areas): Search and Rescue, crisis management, first responders, technological solutions for security

3.3.5 FIREURISK project



Project acronym: FIREURISK

Project title: FIREURISK - DEVELOPING A HOLISTIC, RISK-WISE STRATEGY FOR EUROPEAN WILDFIRE MANAGEMENT

Project website: <https://fireurisk.eu/consortium/>

Project description: FIREURISK will develop, evaluate and disseminate a science-based integrated strategy to: 1) expand current wildland fire risk assessment systems, including critical factors of risk previously not covered; 2) produce effective measures to reduce current fire risk conditions, and 3) adapt management strategies to expected future climate and socio-economic changes. This will be achieved in close collaboration between researchers, stakeholders and citizens, integrating novel technologies, guidelines and policy recommendations to improve current systems and practices from regional to EU scales. The project will address all wildfire types, with particular focus on mega-fires, the Wildland Urban Interface and fire challenges in the Northern EU. A risk-centred management strategy will integrate wildfire prevention, suppression and restoration practices and policies in a holistic conceptual framework, and implement an operational platform that supports joint coordination, professional training and operational exercises, involving multiple stakeholders and addressing all relevant wildfire management tasks, to improve protection of citizens exposed to wildfires.

The “Risk Pack” of solutions will include a framework and methodology to understand and close the RPAG; a repository of international best practice; and, tooled solutions based on new forms of digital and community-centred data and associated training guidance.

Synergies (areas): Crisis management, Training

3.3.6 EU RESPONSE project



Project acronym: EU RESPONSE

Project title: EUropean RESearch and Preparedness netwOrk for pandemics and emerging iNfectious diseaSEs

Project website: <https://eu-response.eu/>



Project description: The emergence of the COVID-19 pandemic has demonstrated the necessity of improving the global clinical trial capacity based on the cooperation between the EU and international partners. DisCoVeRy (WP1), designed as a multi-arm adaptive repurposing trial, can be expanded to several European countries with adequate multinational financing and trial management capacity. The EU-funded EU-RESPONSE project will establish a multinational, adaptive European COVID-19 and emerging infectious diseases trial network, taking advantage of the existing initiatives, allowing the European expansion of DisCoVeRy (WP1) and the creation of a COVID-19 adaptive platform trial (WP2). The project will produce solid evidence for drug repurposing or registration, permitting most European hospitals to participate at their preferred level of commitment in establishing a network of investigation sites within the EU and associated countries.

Synergies (areas): European harmonisation, crisis management



4 Engagement activities

4.1 Workshop organised

On 2 Dec 2020, the STRATEGY consortium hosted its first virtual workshop, welcoming the projects' End-User Advisory Board and Advisory Board, comprised of first responders, domain experts and civil protection bodies.

The STRATEGY project focuses on improving the interoperability of crisis management solutions, to standardise disaster response efforts across the EU. As such, it seeks to understand key issues faced by first responders and civil protection bodies, and work with domain experts to identify gaps and areas for improvement in the current standardisation landscape.

By integrating stakeholder knowledge and expertise, STRATEGY will build a pan-European pre-standardisation framework to harmonise disaster response systems, tools and operations procedures across the EU.

The workshop has been an excellent opportunity to present the aims and methodology of the project and discuss best practices for assessing and improving the interoperability of crisis management solutions with participants providing different perspectives on the topic.

This was the first workshop hosted with the End-User Advisory Board and Advisory Board, designed with the objective to gather feedback and validate proposed actions for improving disaster recovery efforts across eight crisis management streams:

- Search and rescue
- Critical infrastructures protection
- Response planning
- Command and control
- Early warning and rapid damage assessment
- Chemical, biological, radiological, nuclear and high-yield explosives (CBRN-E)
- Training
- Terminology/symbology

This workshop confirmed the crucial role of both the End-User Advisory Board Members and Advisory Board Members in the STRATEGY project. As highlighted in the closing remarks of the Coordinator, working alongside domain experts throughout the project lifecycle, will ensure development of sustainable research outputs that meet the needs of first responders and civil protection bodies in the crisis management domain.



Figure 3: Post on STRATEGY Twitter account about the baseline workshop

In total, 63 attendees participated to STRATEGY baseline workshop. Participants include 15 members of the Advisory Board or of the End User Board. The event introduced attendees to the main standardisation and interoperability challenges that STRATEGY will address. The presenters managed to collect relevant feedbacks from the audience, particularly related to 1) where to focus on within the prioritisation of gaps and opportunities per stream and 2) the concrete organisation of the Top Table exercises³.

4.2 Workshops, conferences, and other events attended

Despite the Covid-19 crisis, STRATEGY partners managed to actively participate to events, workshops, and conferences within the European security landscape. STRATEGY being still at its early stage of implementation, more inputs during other events can be expected in the near future, whilst taking into account the restricted nature of most of the project's results. The following section describes the events attended by consortium partners in the first months of the project.

4.2.1 Workshop attended

4.2.1.1 Innovation procurement workshop for security practitioners – 30th March 2021

STRATEGY partner KEMEA participated to the Innovation procurement workshop for security practitioners that was co-organised by three EU-funded projects MEDEA, CIVILnEXt and iProcureNet in March 2021. Representatives from DG Home and security experts from three practitioner networks will present the benefits of Innovation procurement (PCP/PPI) and their findings, to stimulate innovative ideas on what practitioners need in order to perform their duties effectively or respond efficiently to current and emerging security challenges.

³ For a more detailed report of the event, see D8.4 "Baseline-workshop report with civil protection experts".



Figure 4: Save the date of the Innovation Procurement Workshop for Security Practitioners

4.2.1.2 CAP Implementation Workshop – 29th September 2020

The online 2020 Common Alerting Protocol (CAP) Implementation Workshop, hosted and co-sponsored by the International Telecommunication Union (ITU), took place from 29 to 30 September 2020, 12:30-17:30 CEST. Other co-organisers of the workshop included: the International Association of Emergency Managers (IAEM), the International Federation of Red Cross and Red Crescent Societies (IFRC), the OASIS standards organization, and the World Meteorological Organization (WMO).

The workshop was a technical meeting intended for information sharing among experts. It was open to everyone interested in emergency alerting: managers, technical staff, media, etc., including those in government, non-governmental organizations (NGOs), and commercial organisations.

During the workshop, CNVVF introduced the audience to the STRATEGY project.



Figure 5: 2020 CAP Workshop advertisement

4.2.2 Conferences attended

4.2.2.1 TIEMS 2020 Annual Conference – 3rd December 2020

The International Emergency Management Society (TIEMS) 2020 Conference “Citizens and cities facing new hazards and threats” was held virtually from 30th November to 4th December on Zoom

with two sessions each day : first one 10:00 – 12:00 am and the second one 14:00 – 16:30 pm (CET) except on Thursday afternoon (13:00 – 15:30). The French High Committee for National Resilience (www.hcfrn.org) was the representative of the TIEMS French chapter and co-host of the event. STRATEGY was presented at the event by WCO.



Figure 6: TIEMS 2020 Programme, 1st page

4.2.2.2 International Society of Military Sciences Annual Conference 2021–13th October 2021

The International Society of Military Sciences organises a Conference every year in a different country. The 2021 edition was organised virtually by the Royal Military College of Canada (located in Kingston, Ontario). The conference gathered experts from the 10 Working Groups of the Society. DEFESA presented STRATEGY in Session 2F (WG6 and WG7) “Culture, Crises and Coercion).



Figure 7: Advertisement of the International Society of Military Sciences Annual Conference 2021

4.2.3 Other events

4.2.3.1 STAIR4SECURITY Final Event -27th & 28th May 2021

The STAIR4SECURITY final event took place on 27th and 28th of May 2021. It was hosted by KPMG FA and TFC, and covered ten sessions, offering an overview of the STAIR4SECURITY ecosystem and results.

Presentations were carried out by members of the Consortium and guest speakers from different projects (DG-ECHO, DG-HOME, ENCIRCLE, NO-FEAR, INCLUDING, STRATEGY, and AQUA3S), some of which will share their experience in using the STAIR4SECURITY tools. The presentation of the STRATEGY project was delivered by the project's coordinator SATWAYS⁴.



Figure 8: STAIR4SECURITY Final Event Programme



Figure 9: STRATEGY presentation at STAIR4SECURITY Final Event (Retweet)

⁴ A video of the presentation is available on STAIR4SECURITY's Youtube channel : [STAIR4SECURITY Day2 - Session 6 Strategy and Aqua3s project - YouTube](#)

4.2.3.2 European Defence Agency CBRN CapTech meeting – 21 October 2020

The CapTech CBRN and Human Factors' (CBRN & HF) meetings main objective are to support the strengthening of European armed forces' capability to safely operate in a CBRN environment while contributing to civilian-led crisis response operations if needed. The CapTech CBRN & HF engages in defence R&T (with CBRN focus), as well as for monitoring and investigating developments in the military and security environment in collaboration with other international institutions (e.g., European Space Agency [ESA]) and organisations (e.g. NATO, EU).

The CBRN & HF CapTech meetings are held 3 times per year, with a duration of 2-4 days. All the information is shared in its Workspace. Prior, or right after the CapTech meeting, a workshop or seminar will usually take place. The workshops are participatory, and they aim to achieve concrete outcomes, such as the preparation of a project or fulfilment of an extraordinary request.

In October 2020, STRATEGY was represented to the event by its coordinator SATWAYS.



Figure 10: European Defence Agency logo

4.2.3.3 DEFEA International Defence Exhibition – 13th-15th July 2021

DEFEA (Defense Exhibition Athens) is a high-profile international defence exhibition where international companies present land, naval, aerospace, national and cyber security defence systems. It is organised under the auspices of the Hellenic Ministry of National Defence, with the cooperation of the Hellenic Manufacturers Association of Defence Material and is organised by ROTA Exhibitions Greece. STRATEGY was represented at DEFEA by its coordinator SATWAYS.



Figure 11: DEFEA logo

4.2.3.4 BEYOND International Exhibition for Innovation and Technology - Beyond 4.0 – 14th-16th October 2021

Beyond 4.0 is the first international stage for Industry 4.0 in South Eastern Europe, the Mediterranean and the MENA region. At Beyond 4.0 stakeholders of change convened to showcase the latest disruptions, discuss the impact and opportunities of Industry 4.0 for South East Europe, the Mediterranean & the MENA region and accelerate the potential of key economic sectors. STRATEGY was represented at BEYOND by its coordinator SATWAYS.



5 Conclusion and future outlook

The deliverable D7.4, submitted at M15, is a clear overview of the synergies and connections already established by STRATEGY partners. The current Stakeholders list includes 100 individuals who represent 98 organisations. STRATEGY partners successfully managed to engage with a wide array of actors:

- Organisations are located in 22 different countries, including 18 EU Member States, the UK, Norway, Brazil and Israel. The most represented country is Italy (23 organisations) followed by Greece (20 organisations), Austria (8 organisations), Romania (7 organisations) and France (7 organisations);
- There is a rather fair share regarding organisations' categories: 31% of them are first responders whereas public bodies (decision-making) represent 26% of the organisations, academia and industries respectively represent 19% and 20% of the total amount.

After 15 months of implementation, STRATEGY is well integrated within the European security environment which is essential in order to reach its standardisation objectives. Stakeholder engagement being a continuous process, the list is constantly updated and enriched whilst trying to reach diversity in the profiles reached, favouring a holistic approach in research.

In terms of synergies that could be made by project's partners with other initiatives, Horizon 2020 landscape offers a wide environment of potential connections to be initiated as clearly listed in the third section of the deliverable. Indeed, as suggested by the European Commission (EC), synergies with other EU-funded projects allow a harmonisation of the European research and innovation landscape. On the other hand, EU-funded projects may inspire each other and share their knowledge as well as their networks which leads to a maximised impact.

For these reasons, STRATEGY partners will seek to collaborate further with other projects thanks to the organisation of common events and/or other forms of scientific exchanges. Moreover, the project's 8 streams shall be the basis of further outreach activities, in order to adopt a tailored D&C approach supporting the organisation and impact of the project's upcoming events.

Deliverable 7.5 (D7.5) - Dissemination and communication plan - final version, to be submitted at M18, will build on the conclusions of the present report, and will develop a comprehensive plan for liaising with relevant projects and actors of the European standardisation landscape.