Communication and Dissemination Strategy (Interim Report)



31/03/2023





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	Triage IN challenG	Triage IN challenGing And Large Emergencies				
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Version Date		Changes
0.1	23/01/2023	Table of content was prepared
0.2	22/02/2023	Included a questionnaire on dissemination activities
0.3	02/03/2023	The outline was created
0.4	15/02/2023	The information from the questionnaire was integrated
0.5	24/03/2023	Updates on KPIs to reflect the status on M18
0.6	26/03/2023	The version submitted for the internal review
0.7	30/03/2023	The comments and corrections from the reviewers were implemented in this version of the document
1.0	31/03/2023	Final version ready for submission

PROJECT PARTNERS

No.	Logo	Partner	Short name	Country
1		INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	ICCS	Greece
2	FOI Sever th Defence Sever th Defence	TOTALFORSVARETS FORSKNINGSINSTITUT	FOI	Sweden
3		LEONARDO – SOCIETA PER AZIONI	LDO	Italy
4	C4Controls	C4CONTROLS LTD [TERMINATED]	C4C [TERMINATED]	UK [TERMINATED]
5	intrasoft	NETCOMPANY-INTRASOFT	INTRA	Luxembourg
6	I€€	INOV INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, INOVACAO	INOV	Portugal
7		EXUS SOFTWARE MONOPROSOPI ETAIRIA PERIORISMENIS EVTHINIS	EXUS	Greece
8	UNIVERSITAT POLITECNICA DE VALENCIA	UNIVERSITAT POLITECNICA DE VALENCIA	UPV	Spain
9	CERTH CENTRE FOR RESEARCH & TECHNOLOG	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	CERTH	Greece
10	DEVERYWÂRE General in Brite Stevery	DEVERYWARE	DW	France
11	• PARTICLE	PARTICLE SUMMARY	PARTICLE	Portugal
12		TREE TECHNOLOGY SA	TREE	Spain
13	ESTES	EUROPAISCHE GESENLLSCHAFT FUR TRAUMA -UND AKUTCHIRURGIE - ESTES	ESTES	Austria
14	(INTERNATIONAL MRMID ASSOSIATION	MRMID	Sweden
15		UNIVERSITA DEGLI STUDI DEL PIEMONTE ORIENTALE AMEDEO AVOGADRO	UPO	Italy
16	ASSISTANCE PUBLIQUE DE PARIS	ASSISTANCE PUBLIQUE HOPITAUX DE PARIS	APHP- SAMU	France
17	UNIVERSITÀ CATTOLICA del saco cuore	UNIVERSITA CATTOLICA DEL SACRO CUORE	UCSC	Italy
18	MINISIERO DELL'INTERNO	MINISTERO DELL' INTERNO	MININT	Italy
19	Sistema Sanitario Regione Liguria	AZIENDA SANITARIA LOCALE N 2 SAVONESE	ASL2	Italy
20		MAGEN DAVID ADOM IN ISRAEL	MDA	Israel
21		CARR COMMUNICATIONS LIMITED	CCL	Ireland
22		ASSOCIAZIONE CITTADINANZATTIVA ONLUS	CA	Italy
23	* * IDC HERZLIYA	INTERDISCIPLINARY CENTER (IDC) HERZLIYA	IDC	Israel
24		ASTRIAL GmbH	ASTRIAL	Germany

LIST OF ABBREVIATIONS

Abbreviation	Definition
ACM	Association for Computing Machinery
CERIS	Community for European Research and Innovation for Security
CORDIS	Community for Research and Development Information Service
D	Deliverable
DG	Directorate-General
DoA	Description of Action
DOI	Digital Object Identifier
DRS	Disaster-Resilient Societies
EC	European Commission
ECHO	European Civil Protection and Humanitarian Aid Operations
ESTES	European Society for Trauma and Emergency Surgery
EU	European Union
EUSEM	European Society Emergency Medicine
FS	First Responder
FSX	Full-scale exercise
GA	Grant Agreement
GDPR	General Data Protection Regulation
H2020	Horizon 2020
ISCRAM	Internal Conference on Information Systems for Crisis Response and Management
IT	Information Technology
KPI	Key performance indicator
MCIs	Mass Casualty Incidents
MDPI	Multidisciplinary Digital Publishing Institute
MRMID	Medical Response to Major Incidents and Disasters
NGIT	Next Generation Integrated Toolkit
NIT-MR	Novel Integrated Toolkit for Emergency Medical Response
R&D	Research and development
SME	Small and medium-sized enterprise
SSX	Small-scale exercise

ттх	Tabletop exercise
UAB	User Advisory Board
URL	Uniform Resource Locator
WADEM	World Association for Disaster and Emergency Medicine
WP	Work Package

Executive Summary

This deliverable presents a mid-term report on the NIGHTINGALE communication and dissemination activities that were carried out in the first half of the project (M1-M18). The report outlines activities planned for the second half of the project. It describes the implementation of the NIGHTINGALE communication and dissemination strategy and underlines key steps in ensuring that the projects results reach maximum impact.

NIGHTINGALE has developed impactful communication materials, relevant target audiences, actively managed a range of online channels, started publishing results, and represented the project at numerous events, such as conferences, workshops, expos, and full-scale exercises.

Project partners have actively contributed to the dissemination efforts by sharing updates on the results that are being generated. Partners have also been actively involved in the communications activities by actively contributing with the content, promoting the project, and engaging target audiences through selected channels and using tailored key messages.

NIGHTINGALE partners have participated in 25 events up to M18. Four peer-reviewed publications and one policy relevant publication have been published, while more publications are pending. The project has become more visible through active knowledge-sharing and collaboration activities with other research and innovation projects in the field of disaster management and disaster resilient technologies. The NIGHTINGALE Newsletter has been set up to reach the stakeholders; and the produced videos have helped to underline the innovative aspects of the developed technologies and methods for emergency response during mass casualty incidents. The project website, Twitter and LinkedIn have served as platforms for raising awareness about the project and engaging with relevant stakeholders.

The communication and dissemination performance has been measured and analysed. This deliverable provides an update on the measurable targets and future impactful activities planned for the next stages of the project.

The commitment to the open access approach ensures that the project results contribute to the advancement of knowledge in the field of disaster and emergency response and preparedness with the focus on mass casualty incidents.

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1 Introduction

A successful communication and dissemination strategy is inherently dynamic. It evolves and matures with the project. It can also be reshaped as the project develops to match potential changes in priorities and ambitions. This deliverable presents a report on D6.3 Communication and Dissemination Strategy (M6), outlining concrete actions that were implemented to increase the impact of the project results. It also provides an update on how the strategy has changed to reflect recent developments in the project and the progress that the partners have made.

This deliverable is an interim report, which summarises all efforts and activities in M1-M18. It also analyses the effectiveness of these measures to reach the set goals and performance KPIs as they were set in the NIGHTINGALE Communication and Dissemination Strategy. The report also reflects on the global communication trends and formulates steps that have been taken to address new challenges and to increase the overall impact of communication activities.

In preparation of this deliverable, CCL has distributed a questionnaire to all NIGHTINGALE partners, please see Appendix 1. The results of the questionnaire have helped to design future steps and to plan dissemination activities for the next half of the project. Furthermore, they have provided useful information on publication outlets and future events that are being considered by the partners for their forthcoming dissemination activities. All these elements have been included in this deliverable.

NIGHTINGALE will deliver an innovative toolkit for emergency medical response, which aims to optimise current procedures and methods and to enhance the operational capacities of emergency medical services and civil protection agencies in mass casualty incidents. NIGHTINGALE novel technologies and solutions and new approaches to emergency medical training are still at the core of communication and dissemination activities.

1.1 Document outline

The purpose of this document is to serve as a mid-term assessment and analysis of communication and dissemination activities to ensure that they are effective, impactful, and successful in reaching target audiences. The implementation of the NIGHTINGALE communication and dissemination strategy (D6.3) is monitored throughout the lifetime of the project. The purpose of this report is to provide a detailed picture of the status at M18. The first part of this deliverable will focus on the dissemination achievements, which include events, publications, and networking and clustering activities. The second part will analyse performance of communication channels and activities. The last part of this report will outline the next steps to ensure that the project is given maximum visibility and that relevant stakeholders keep being informed about the project and the results.

1.2 Addressing the NIGHTINGALE Description of Action

Table 1 presents the connection of the contents of the present deliverable with the NIGHTINGALE Grant Agreement (GA) requirements in WP6:

Table 1: Description of Action: Task 6.2

NIGHTINGALE DoA requirements	Deliverable addressing the requirements	Brief description
Task 6.2 Implementation of High-Impact Communication Activities & Outreach Events	D6.4 NIGHTINGALE Communication and Dissemination Strategy (Interim Report)	The report monitors the progress of how the NIGHTINGALE communication and dissemination strategy has been executed. It presents updates on dissemination activities and impact of communication actions.

1.3 Intended Readership

The NIGHTINGALE communication and dissemination strategy report provides an overview of conducted activities, explaining how they contribute to raising the awareness about the project and creating impact in the field of emergency response and disaster resilient technologies. This deliverable is public, and it is openly accessible to external stakeholders in line with the objectives of promoting the action and its results to multiple audiences in a strategic and effective manner.

The intended readership primary comprises all members of the NIGHTINGALE project partners and the project's User Advisory Board (UAB). The report is also of interest to the European Research Executive Agency, the European Commission, European agencies and other H2020 and Horizon Europe projects working in the field of civil protection, disaster management, and technologies for first responders.

1.4 Relationship with NIGHTINGALE Deliverables (M18-M36)

This deliverable is closely linked to other projects tasks and the deliverables listed in *Table 2*.

Deliverable	Description of the deliverable	Link to D6.3
Various public deliverables in WP1,2,5,6,7 D5.7	Reports, handbooks, technical results that will be available for public dissemination NIGHTINGALE Training Collateral	Results to be communicated to target audiences and disseminated using all the available channels Documentation and delivery of computer-aid interactive training sessions are linked to knowledge transfer and exploitation activities
D6.5	Communication and Dissemination Strategy (Final Report)	D6.5 will evaluate the progress made in executing NIGHTINGALE communication and dissemination strategies and present an overview of

 Table 2 Linkages between D6.3 and other NIGHTINGALE deliverables (M18-M36)

		all activities conducted during the project timeline
D6.6	Proceedings of the 1 st NIGHTINGALE Workshop	Promoting and communicating about the potential of NIGHTINGALE and engaging with external stakeholders
D6.7	Proceedings of the 2 nd NIGHTINGALE Workshop	Promoting and communicating about the potential of NIGHTINGALE and engaging with external stakeholders
D6.8 & D6.9	Business Cases & Models and industrial roadmap	D6.8 will identify relevant stakeholders, who will be integrated into the communication and dissemination strategy
D6.10 & D6.11	Exploitation strategy and Plan	D6.10 formulates a strategy for exploitation of research results and opportunities to create impact on the field
D6.12 & D6.13	Pre-normative and pre- standardisation activities report, Intermediate	Providing insights on technical and operational standards that will inform exploitation and dissemination activities
D6.15	Certification and IPR Material	The deliverable will support exploitation efforts of the project partners

2 Dissemination achievements

This section describes how the dissemination strategy has been implemented during M1-M18 of the project. Dissemination includes activities that aim to share results with potential users, scientific and industrial communities, commercial players, relevant organisations, and networks as well as policymakers. By sharing research results, the NIGHTINGALE project aims to advance the existing methodology in disaster and emergency response and to provide research insights and knowledge of how to develop disaster resilient technologies and solutions for emergency response during mass casualty incidents (MCIs). This deliverable presents the main dissemination achievements to date.

2.1 Overview of activities in M1-M18

Dissemination activities have been carried out actively in the first half of the project. The core activities include attendance and presentations at events, publications, dissemination through participation in workshops and events in cooperation with other research projects, organisation and participation in tabletop exercises (TTX), and extensive planning activities for the upcoming small and full-scale exercises (SSX and FSX). Project partners have been actively involved in sharing updates on the progress and the results that are being generated.

A dissemination tracker is used to keep an up-to-date record of all completed and forthcoming dissemination activities. The tracker is an interactive file that all partners can update on the NIGHTINGALE Collaborative platform. The tracker gathers details on the events attended, presentations, publications, and articles generated by partners. An example of the dissemination tracker is presented in Figure 1 below.

The dissemination results reported in this deliverable were based on the information gathered in the dissemination tracker, providing an overview of the conducted activities in M1-M18. The following subsections will provide details on the specific achievements under each type of dissemination activity.

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	4		Disseminatio	n events attended	U	L	r	0			,	~
1	1								1			
	~	0	Date	Name of the event	Type: conference, workshop,	Partner involved	Author/presenter/speaker/attendee	Title of the event, presenration	Audience	Location	Size of audience	Link/source
					expo, seminar	(acronym)						
	3			v1 ··· ·	٣	٣					*	
		2	25/11/2021	Trauma Oggi	National congress	ESTES	Roberto Faccincani (presentation)	NIGHTINGALE 2021-2024: un progetto per ridefinire i protocolli di soccorso sul campo con il	Italian trauma and emergency medical professionals	Rome, Italy	100	N/A
		- 1						contributo dei chirurghi di tutta Europa	researchers, policymakers			
	4		7/02/2022					N/A			~30	N/A
			7/02/2022, 36/04/2022,	RESIST Network Meetings	Think-tank discussions to propose interventions to improve the	PARTICLE	Marco Manso (participation)	N/A	Networking with Portuguese stakeholders of the civil	Lisbon, Portugal	~30	N/A
			20/04/2022,		societal resilience of the Lisbon municipality and its citizens in case				protection, emergency response and public safety			
		ľ	11/05/2022		of a large-scale disaster or crisis				sectors			
	5	2	23-25/03/2022	Community of European Research and	Conference	ICCS	Eleftherios Ouzounoglou	Participation & presentation	DRS cluster projects, DG HOME,	Brussels Belgium	N/A	N/A
				Innovation for Security (CERIS), Disaster Resilient Societies Cluster Conference					DG HERA, policy-makers			
	6	- 1		Resilient Societies Cluster Conference								
	0	0	05-06/04/2022		Workshop	CA, MDA	Maddalena D'Urso (participation), Chaim	Participation & presentation	Law enforcement agencies,	France	N/A	https://proactive-h2020.er
	7			CSAB two-day workshop			Rafalowski (presented the NIGHTINGALE project)		first responders, Horizon 2020 projects, researchers			
		2	26-28/04/2022	21st European Congress of Trauma and	Conference/workshop/expo	ESTES	ESTES team, inclusing Roberto Faccincani	"Best mass casualty triage protocol:	Trauma and emergency	Oslo/Lillestrøm,	700	https://estes-congress.org
		- 1		Emergency Surgery (ECTES)			(presenter), Carlos Yanez (presenter) & NIGHTINGALE user partners	NIGHTINGALE project" and "Terror preparedness as a task of the public sector: The NIGHYINGALE		Norway		
	8							project as an example"				
		2	27/04/2022	"Framtidens skadeplats" (Accident scene of the future)	Conference & FOI booth with developed technologies	FOI	Gustav Tolt (participation & networking)	N/A	An opportunity to present ongoing research with other	Linköping, Sweden	50	https://liu.se/dfsmedia/ds 43dfb7406993c1815aaf88
									researchers and civil protection agency representatives			56050- source/options/download
									agency representatives			program-2022
	·	3	11-12/05/2022	Public Safety Communications Europe	Conference	ICCS	Eleftherios Ouzounoglou	Poster & Elevator pitch on NIGHTINGALE	Industry, researchers and	Salzburg, Austria	N/A	https://www.psc-
	10	- 1		(PSCE) Conference in Salzburg					practitioners in the field of public safety and security			europe.eu/psce-conferenc salzburg/
		2	23-25/05/2022	NO-FEAR Workshop and full-scale	Workshop & Full-scale exercise	UPO-CRIMEDIM	UPO, ICCS, ESTES, INTRA, ASTRIAL, ASL2, INOV,	Participation	Disaster medicine practioners	Novara, Italy	N/A	https://no-
	11			exercise: Training and Education in emergency and disaster medicine		(organiser)	UCSC, MDA, FOI, MININT		and researchers			fearproject.eu/archives/19
		2	22-25/05/2022	19th International Conference on	Conference	ICCS, ASTRIAL	Evangelos Sdongos, Angelos Amditis, Eleftherios	"Technologies for First Responders"	Researchers and practitioners	Tarbes France	N/A	https://iscram2022.enit.fr
	12	- 1		Information Systems for Crisis Response and Management			Ouzounoglou		with the interest in disaster management			

Figure 1 NIGHTINGALE Dissemination Tracker

2.2 Dissemination performance measurement and analysis

When it comes to dissemination activities, measuring and monitoring are core elements of successful implementation. However, not all success factors are tangible. Not all elements leading to impactful dissemination can be quantified. While keeping this challenge in mind, the performance is regularly measured against the agreed key performance indicators (KPIs). The numerical targets listed in Table 3 facilitate the measuring of how well the project achieves its dissemination goals.

Table 3 Dissemination KPIs	able 3	Dissemination KPI	S
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Category	Indicator	Target (M12)	Target (M24)	Target (M36)	Status M18
	Number of presentations at conferences	10	20	30	In progress: 10 conference presentations
Scientific impact	Number of publications	At least 4 scientific papers	7	15	In progress: 4 +1 submitted for review
	Participation in relevant events	15	25	50	On track : 15 events attended
	Roundtables with end-users	2	4	5	On track : 3 completed; 1 in planning
Engagement with end	NIGHTINGALE international workshops			2	In planning: M26 and M35
users	Events with stakeholders	3	7	15	On track : 5 events with industry and policymakers
Knowledge- sharing	Events and workshops with relevant projects	2	3	5	In progress: 4 networking events with other projects
impact activities	Number of attendees at the project workshops	30/50	50/100	80/120	Estimate: 30/50
Training and validation activities	Organising TTX	1	3		On track: 2
	Number of participants	150	150		TTXs, > 150 participants
	Organising SSX/FSX		1	2	In planning: first SSX in
	Number of participants		to be determined	to be determined	Novara (Italy) M24

2.3 Publications

The conference and journal publications that have been published by M18 are presented in Table 4. Some publications have been submitted for review or pending publication. Partners' efforts to publish their results in scientific journals will intensify in the second half of the project as tangible results are generated. As it has been underlined in D6.10 Exploitation Strategy and Plan (Intermediate), academic technical partners and partners from research centres working on the NIGHTINGALE toolkit are planning to publish and share their developments in open access scientific publications and databases.

Table 4 List of publications

Partner(s)	Suggested full citation	Type of publication
CERTH	Vasileiou Z., Meditskos G., Vrochidis S., & Bassiliades Nick. (2022). An Explainable Multimodal Fusion Approach for Mass Casualty Incidents. In Database and Expert Systems Applications - DEXA 2022 Workshops. DEXA 2022 (pp. 375–379). Communications in Computer and Information Science, vol 1633. <u>https://doi.org/10.1007/978-3-031-14343-4_35</u>	Peer- reviewed conference proceedings
UPO ASTRIAL ESTES	Caviglia M., Cuthbertson J., Sdongos E., Faccincani R., Ragazzoni L., & Weinstein E. (2022). An application example of translational science in disaster medicine: From grant to deliverables. International Journal of Disaster Risk Reduction, 85(103518). <u>https://doi.org/10.1016/j.ijdrr.2022.103518</u>	Peer- reviewed journal article
ESTES UPO MRMID ASTRIAL	Yánez C., Tilsed J., Weinstein E., Caviglia M., Herman S., Montán C., Achatz G., Cuthbertson J., Ragazzoni L., Sdongos E., Ashkenazi I., & Faccincani R. (2022). Education, training and technological innovation, key components of the ESTES-NIGHTINGALE project cooperation for Mass Casualty Incident preparedness in Europe. European Journal of Trauma and Emergency Surgery. <u>https://doi.org/10.1007/s00068-022-02198-1</u>	Peer- reviewed conference proceedings
CERTH	Vasileiou Z., Meditskos G., Vrochidis S., & Bassiliades N. (2023, February 14). An Explainable Intervention Prediction for Trauma Patients. CEUR Workshop Proceedings. The 14th International Conference on Semantic Web Applications and Tools for Health Care and Life Sciences (SWAT4HCLS 2023), Basel, Switzerland. <u>https://doi.org/10.5281/zenodo.7664127</u>	Peer- reviewed conference poster
CA	Votta, M. and D'Urso, M. (13 June 2022). How can we optimise emergency preparedness and response? Health Europa Quarterly (22). Available at: <u>https://www.healtheuropa.com/how-can-we- optimise-emergency-preparedness-and-response/116071/</u> (Accessed 24 March 2023).	Other, policy publication

NGHTINGALE strictly follows the open access approach to all peer-reviewed scientific publications in accordance with Article 29.2 of GA. This corresponds to our overarching objective to enhance the knowledge and speed up innovation and technological advancement in the field of emergency medical response to mass casualty incidents and first responder technologies.

With an objective to facilitate the visibility of NIGHTINGALE publications, a dedicated NIGHTINGALE project community was created on Zenodo [1]. This community enables to combine publications and datasets from different disciplines and subjects under the NIGHTINGALE project umbrella, showcasing the innovative potential of technological tools and the advancement of methods and approaches in developing disaster resilient solutions for MCIs.

The NIGHTINGALE Zenodo community, as it is depicted in Figure 2, has been managed and updated by the Dissemination Manager (CCL). Project partners can mention and include the NIGHTINGALE community when they upload their publications or datasets to Zenodo. The NIGHTINGALE community is available at https://zenodo.org/communities/nightingale/.

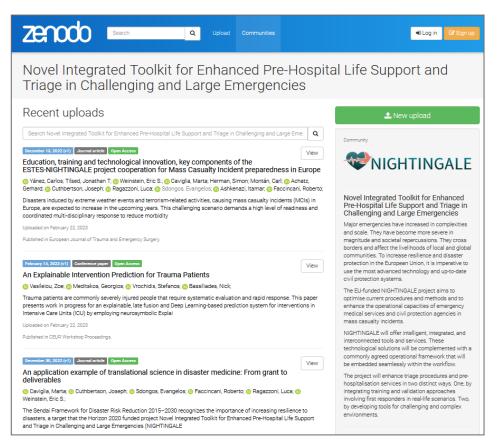


Figure 2 NIGHTINGALE Zenodo Community

The partners have also identified several high-impact scientific publications and open access databases to which they are planning to submit their research results in the second part of the project. Please see below the list of relevant scientific outlets:

- » International Journal for Disaster Risk Reduction
- » Prehospital and Disaster Medicine
- » European Journal of Trauma and Emergency Surgery
- » European Journal of Emergency Medicine

- » Disaster Medicine and Public Health Preparedness
- » International Journal of Information System for Crisis Response and Management
- » Information Systems for Crisis Response and Management Conference Proceedings
- » Association for Computing Machinery (ACM) Transactions on Intelligent Systems and Technology
- » International Conference on Sensor Networks (SENSORNETS) Conference Proceedings
- » International Conference on Advances in Sensors, Actuators, Metering and Sensing Conference Proceedings
- » MDPI publisher of open-access journals, such as Applied Sciences, Drones, Information, Remote Sensing, and Sensors
- » International Journal of Computers Communications & Control
- » Society for Industrial and Applied Mathematics Journals

2.4 Events

The NIGHTINGALE project has been represented in 25 different events during M1-M18. The attended events are summarised in Table 5. NIGHTINGALE partners participated in conferences, workshops, roundtables, expos, brokerage events, and exercises for first responders. The diverse range of the events has enabled the partners to reach target stakeholders and audiences, including emergency medicine professionals, researchers and practitioners in the field of crisis and disaster management, civil protection and security, and data science and machine learning. Furthermore, the project was presented at the event with industry representatives, technology providers, policymakers and other relevant research and innovation projects. Participation in different events will increase as the development of the NIGHTINGALE technologies and solutions advances to the next stage.

No.	Partner	Date	Description of the event	Type of event	Audience
1	ESTES	25/11/2021	Trauma Oggi	National congress	Emergency medicine professionals
2	PARTICLE	February-May 2022	RESIST Network Meetings	Think-tank discussion	Civil protection stakeholders
3	ICCS	23-25/03/2022	Community of European Research and Innovation for Security, Disaster Resilient Societies Cluster Conference	Conference	Policymakers
4	CA, MDA	05-06/04/2022	PROACTIVE Project Workshop	Workshop	Civil protection stakeholders & Horizon 2020 project
5	ESTES	26-28/04/2022	European Congress of Trauma and Emergency Surgery	Conference	Emergency medicine professionals

Table 5 Dissemination events M1-M18

6	FOI	27/04/2022	"Framtidens skadeplats"	Conference	Civil
_	_	, - , -	(Accident Scene of the	& Expo	protection
			Future) at the Centre for		and
			Advanced Research in		emergency
			Emergency Response,		response
			Linköping University		researchers
7	ICCS	11-12/05/2022	Public Safety	Conference	Public safety
			Communications Europe		and security
			Conference in Salzburg		stakeholders
8	Multiple	23-25/05/2022	NO-FEAR: Training and	Workshop	Disaster
	NIGHTINGALE		education in emergency	& Full-scale	medicine
	partners		and disaster medicine	exercise	practitioners
					&
					researchers
9	ICCS, ASTRIAL	22-25/05/2022	19th International	Conference	Researchers
			Conference on		in the field of
			Information Systems for		crisis
			Crisis Response and		management
10	PARTICLE	16-17/06/2022	Management	Drokorago	Dublic cofoty
10	PARTICLE	10-17/00/2022	SMI2G Brokerage Event 2022	Brokerage Event	Public safety and security
			2022	Lvent	stakeholders
11	ASTRIAL	20-26/06/2022	INTERSCHUTZ 2022	Ехро	Civil
	AJINIAL	20 20/00/2022			protection
					and safety
					and security
					industry
12	ICCS	28-29/06/2022	European Civil	Conference,	Civil
			Protection Forum	Workshop	protection
				& Expo	stakeholders
13	ICCS, CCL	30/06-	Projects to Policy	Seminar	DRS cluster
		01/07/2022	Seminar (DG HOME, REA		projects &
			C2 unit)		policymakers
14	PARTICLE	22-23/07/2022	Global Innovation	Conference	IT Industry,
			Summit 2022		researchers,
					SMEs, and
					startups
15	CERTH	22-24/08/2022	The 33rd International	Conference,	Data science
			Conference on Database	Workshop	and machine
			and Expert Systems		learning
			Applications - DEXA		researchers
16		10.20/00/2022	2022	Markshan	First
16	MININT	19-20/09/2022	The 2022 Common	Workshop	First
			Alerting Protocol Implementation		responders
			Workshop		
L			vvorsnop		

17	ICCS	14-16/09/2022	Community of European	Conference	DRS cluster
			Research and Innovation		projects &
			for Security, Disaster		policymakers
			Resilient Societies		
			Cluster Conference		
18	ESTES	12-16/10/2022	iMED Conference 14.0	Conference	Medical
					scientific
					community
19	UCSC	15-19/10/2022	The European	Conference	Emergency
			Emergency Medicine		medicine
			Congress (EUSEM 2022)		professionals
20	Multiple	25-28/10/2022	German Trauma Society	Conference	Emergency
	partners		Congress - DKOU2022		medicine
					professionals
21	CA	Dec-22	ENGAGE: Training for	Workshop	Civil
			volunteers regarding		volunteers &
			European emergency		first
			management policies		responders
22	CERTH	13-16/02/2023	14th International	Conference	Data science
			SWAR4HCLS		and machine
			Conference: Semantic		learning
			Web Applications and		researchers
			Tools for Health Care		
			and Life Sciences		
23	UPO	10-11/03/2023	International Bologna	Conference	Medical
			Consensus Assembly on		scientific
			Telemedicine		community
24	ICCS	20/03/2023	STRATEGY: Digital Triage	Workshop	Horizon 2020
			Systems and Pre-		project
			Standardisation		
			Framework		
25	CCL	23/03/2023	PERITIA Conference	Seminar	Civil society
			"Why do we need public		and crisis
			trust in times of crisis?"		management
					professionals

NIGHTINGALE partners have already applied and are planning to attend the following conferences and events in M18-M24, presenting the intermediate project results and developments:

- » European Emergency Number Association Conference and Exhibition
- » European Congress of Trauma and Emergency Surgery (ESTES)
- » World Association for Disaster and Emergency Medicine (WADEM) Congress
- » Internal Conference on Information Systems for Crisis Response and Management (ISCRAM)
- » Research and Innovation Symposium for European Security and Defence
- » European Society for Emergency Medicine (EUSEM) Congress
- » European Big Data Value Forum

2.5 Networking and clustering

The NIGHTINGALE project has continued to build close cooperation with other research and innovation projects and relevant stakeholders in the field of EU security research and innovative technologies for first responders. Pre-existing networks and research collaborations have been utilised in the first stages of technology development to learn about the state-of-the-art on technologies and training in the field of emergency and disaster medicine. The NIGHTINGALE partners participated in the full-scale exercise organised by the NO-FEAR project [2]. Furthermore, partners have been actively involved in other knowledge sharing activities, such as workshops and seminars with other H2020 projects.

NIGHTINGALE is also integrated into clustering activities with other Disaster-Resilient Societies section projects (SU-DRS02-2018-2019-2020) of the H2020 Work Programme 2018-2020 that focus on technologies for first responders. The aim of this section is to prepare to disaster response and integrate innovative solutions and technologies that are affordable, accepted by citizens, and customised to meet cross-sectoral needs of diverse groups of first responders.

In March 2023, the NIGHTINGALE project has joined the initiative to establish a **Responder Technology Cluster** of DRS02-related projects, as presented in Table 6. The first meeting of the cluster has already been scheduled for M19. The cluster will apply for the Horizon Results Booster services, actively collaborate, and jointly promote project results. Furthermore, the cluster will facilitate knowledge exchange and provide access to relevant networking opportunities and events.

Project name	Project website	Project ID
Novel integrated toolkit for enhanced pre-hospital life support and triage in challenging and large emergencies	NIGHTINGALE	101021957
The First Responder (FR) of the Future: A Next Generation Integrated Toolkit (NGIT) for Collaborative Response, increasing protection and augmenting operational capacity	INGENIOUS	833435
First responder-centred support toolkit for operating in adverse and infrastructure-less environments	<u>RESCUER</u>	101021836
Medical First Responder Training using a Mixed Reality Approach featuring haptic feedback for enhanced realism	<u>MED1stMR</u>	101021775
Team Awareness Enhanced with Artificial Intelligence and Augmented Reality	<u>TeamAware</u>	101019808
Pathogen Contamination Emergency Response Technologies	PathoCERT	883484
Intelligent Toolkit for Reconnaissance and Assessment in Perilous Incidents	<u>INTREPID</u>	883345

Table 6 Responder Technology Cluster

Search and Rescue: Emerging technologies for the Early	Search and	882897
location of Entrapped victims under Collapsed Structures and	<u>Rescue</u>	
Advanced Wearables for risk assessment and First Responders		
Safety in SAR operations		
Next-generation equipment tools and mission-critical	RESPOND-A	883371
strategies for First Responders		

2.6 Management of dissemination activities

CCL is WP6 Leader and Dissemination Manager of the project. The principles of the dissemination and communication management were outlined and detailed in D7.1 Project Management Guidebook (Confidential, available only for members of the consortium) and in D6.3 Communication and Dissemination Strategy (Public).

CCL oversees the implementation of the dissemination strategy and contributes to planning of dissemination activities. This takes place in close cooperation and consultation with NIGHTINGALE partners. To maintain continuous communication with project members and to receive feedback on the ongoing activities within WP6, CCL sends regular email updates to the partners via NIGHTINGALE WP6 email list (only available to project partners). The project coordinator and specific partners are consulted on relevant issues when necessary.

All partners report any dissemination actions to CCL by submitting the dissemination activities via the NIGHTINGALE Collaboration platform or via email. Reported dissemination details are registered in the dissemination tracker.

CCL maintains and regularly updates the dissemination tracker on NIGHTINGALE collaborative platform. The tracker includes four sections: 1) Records of dissemination activities (conferences, events, cluster activities); 2) Scientific publications, registering all outputs from scientific articles to supporting research data; 3) NIGHTINGALE internal events; and 4) Media engagements and press coverage.

3 Communication achievements

This section describes how the communication strategy has been implemented between M1 and M18 and presents the main communication achievements to date. Communication activities include concrete actions that aim to promote the project results, including its key objectives and goals, and to provide information about the project to multiple audiences. The communication strategy behind these activities ensures that these actions are implemented in a strategic and effective manner, creating engaging and informative content.

3.1 Overview of activities (M1-M18)

Communications activities have been continuous across NIGHTINGALE platforms since the launch of the project in October 2021. The core activities include website updates, social media updates, such as Twitter and LinkedIn posts, YouTube videos, and distribution of newsletters. A diverse set of communication materials, which includes a leaflet, banner, poster, and a promotional presentation, has been created and updated by CCL. Project partners have been actively involved in raising awareness about the project and engaging target audiences with the use of the created channels and tailored messages.

3.2 Communication performance measurement and analysis

The communication performance of the project is continuously measured and evaluated. Communication activities, measurable targets, and the update on the current status are listed in Table 7. The status of several communication KPIs will require re-evaluation and adjustment. CCL will present concrete steps of how to improve performance of several indicators and what other measures can be implemented to achieve the communication objectives in the next half of the project.

Category	Activity	Target (M12)	Target (M24)	Target (M36)	Status M18
Visibility of	Project website	Website launched	Continuously update the website	Update on research results	Completed
the project at the European and global levels	Visits per month	300	750	1500	On track: 300 unique visits and >1500 overall
	Page views of news, events, and updates	150	600	1500	On track: average 400 views

Table 7 Communication activities KPI

	Blog posts	3	5	10	In progress: 6 video contributions have been published
	Project branding	Created	Revised	Revised and finalised	On track
Promotion of the project identity	Dissemination materials	1 st version - created	Update materials according to progress	Update materials according to final results	On track: 2 nd version of the materials created
	Project videos (number)	5	10	20	On track: 6 published videos, >10 videos in progress
	Twitter (followers)	500	750	1000	Not achieved: 285 followers
Presence on social media	LinkedIn (followers)	200	300	500	In progress: 221 followers
	Newsletter (subscribers)	50	100	200	On track: 152 subscribers
	YouTube (views)	300	500	1000	In progress: 311 views

In measuring the quantitative impact of the activities, CCL relies on several analytical tools: Google Analytics (NIGHTINGALE project website), Hootsuite Analytics (for Twitter and LinkedIn), and YouTube Analytics for project videos. All followers on the NIGHTINGALE social media channels, Twitter and LinkedIn, and newsletter subscribers have been acquired organically and not through any sponsorship or promotion.

Qualitative performance measurement and analysis takes the form of observation and social listening as well as feedback from partners using questionnaires. The collection of qualitative data is ongoing, and it will be thoroughly analysed in D6.5 Communication and Dissemination Strategy (Final Report).

3.3 Digital communication channels

3.3.1 Website

The NIGHTINGALE website (<u>https://www.nightingale-triage.eu</u>) serves as the central digital hub of communication and dissemination activities during the project lifetime. Social media channels amplify and multiply key messages, updates, and information published on the website. The website is a powerful dissemination tool and a key element of engagement with target audiences of the project. The project website incorporates the visual identity of NIGHTINGALE and the project branding as well as provides easy access to well-presented non-confidential information about the project.

The website landing page has been updated with the new features and elements. It includes the information about the NIGHTINGALE Toolkit, as presented in Figure 3, and the timeline of intensive training, integration, testing, and validation activities. As the project advances to the next stages, the website will integrate more interactive elements.

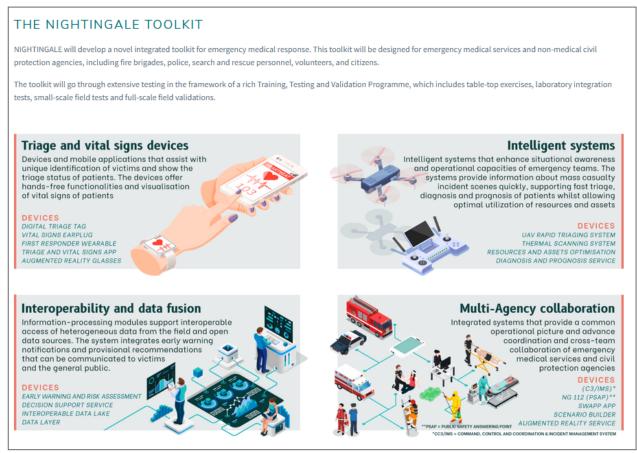


Figure 3 Examples of the project website update

The Google analytics was activated on the website on 13 July 2022. The website analytics summarised in Table 8 covers the period from 13 July 2022 to 24 March 2023. The results provide a good overview of the potential impact and help to measure the performance, since the launch of the project website in M3. The traffic to the website, which is presented in Figure 4, is set to increase further in the second half of the project as results are generated, and the approved deliverables can be uploaded to the website. The page which has consistently been popular is the news and events section. Visitors also show a great deal of interest in the future results checking in download section of the website.

Table 8 NIGHTINGALE website analytics

Total individual users	1,517	
	Organic	784
	search	
	Direct	615
	Organic	91
	social	
Total page views	3,689	
Top pages by view	#1: Home	



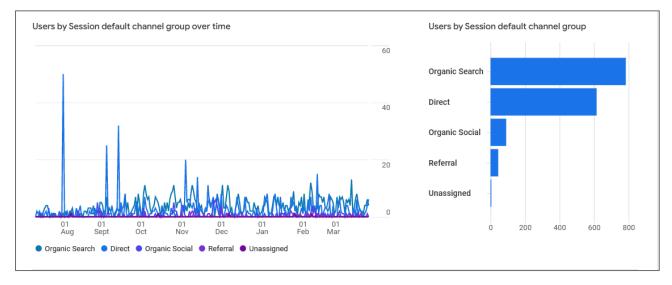


Figure 4 Overview of the website traffic

3.3.2 Twitter

The NIGHTINGALE Twitter account was registered in M1 under a short name, @NGTriageEU, with an objective to differentiate from other European research and innovation projects and initiatives that share the name. The account is available at https://twitter.com/NGTriageEU.

The primary function of using this platform is to raise awareness about the project and its developments among key stakeholders, interact and build relationships with them, disseminate project news and results as well as share updates on the topics and events relevant to NIGHTINGALE. Although the account's objective was to build a two-way communication hub, the evaluation of M1-M18 performance indicates that the target audience is less engaged or present on the platform than it was anticipated in D6.3 Communication and Dissemination Strategy.

Table 9 Twitter analytics

	Twitter analytics 1 October 2021 – 24 March 2023 (M1-M18)
Number of Twitter followers	285 (M18)
Number of tweets	259 (M18)
Post key interactions	1,200
	976 likes
	228 retweets
	5.2 % engagement rate
Top 3 posts by engagement	#1: SAMUR-Protección Civil participates in TTX2 in Tel Aviv
rate	#2: NIGHTINGALE Plenary Meeting & Roundtable in Berlin

#3 TTX1 organised by MRMID in Stockholm

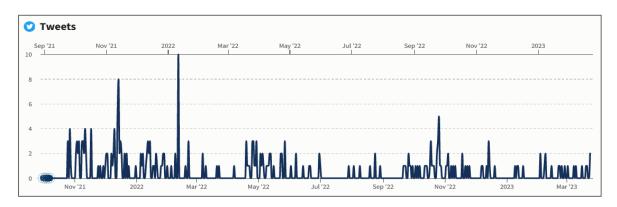


Figure 5 Number of tweets posted M1-M18

The NIGHTINGALE account has continuously and organically increased the number of followers. However, regular Twitter updates with an average rate of 2 posts per week, as it is shown in Figure 5 were not sufficient to achieve the quantitative measurements (KPIs) that were set in M6.

The summary of the NIGHTINGALE Twitter account performance is presented in Table 9. The KPI of 500 Twitter followers at the end of the year one has not been reached. The number of followers at M18 is 285. At the same time, NIGHTINGALE's engagement rate has been high at 5.2%, calculated as the total number of engagements a tweet receives divided by the total number of impressions on that tweet. It indicates that the NIGHTINGALE content is engaging and impactful.

To understand and evaluate the overall performance of the NIGHTINGALE Twitter account, other factors, such as global trends in social media use and ongoing changes on the Twitter platform, should be considered. After the Twitter takeover by Elon Musk in October 2022, analysts and regulators have expressed multiple concerns regarding data privacy [3] and practices of moderating and managing content [4], which have impacted negatively public trust in the network. Furthermore, the 2023 trends indicate that the first-generation social networks, such as Twitter, struggle to retain audiences, while younger audiences prefer other networks. [5] Furthermore, in response to multiple global crises, there is an increasing trend of news avoidance, especially on such topics as disasters, emergencies, and MCIs.

The analysis of the engagement rate shows that the most interacted tweets are the post on the events organised by the NIGHTINGALE projects, such as the training activities (TTX), roundtables, plenary meetings as well as successful joint activities with other research projects. As the project progresses to the next intensive phase of training and validation activities, new opportunities to reach target audiences will be created. Furthermore, the focus on successful results and developments in the project could help to boost the profile and gain more followers in the next half of the project.

3.3.3 LinkedIn

For the NIGHTINGALE project, a LinkedIn company page was created at the outset of the project. It is available here: <u>https://www.linkedin.com/company/nightingaleproject</u>. The company page allows greater visibility and engagement opportunities with external stakeholders. The LinkedIn account is primarily used to raise awareness about the project and its results, facilitating knowledge transfer in the sector of disaster resilient technologies and emergency medicine response.

NIGHTINGALE is on track of reaching the identified key stakeholder groups through LinkedIn. The LinkedIn visitor analytics demonstrates that the page has attracted interests among representatives of the research community and higher education, engineering and IT development sectors as well as medical professionals, and public safety organisations. The engagement rate is high at 8.23% with an increase in organic impressions in the last year (March 2022 – March 2023), as presented in Figure 6.

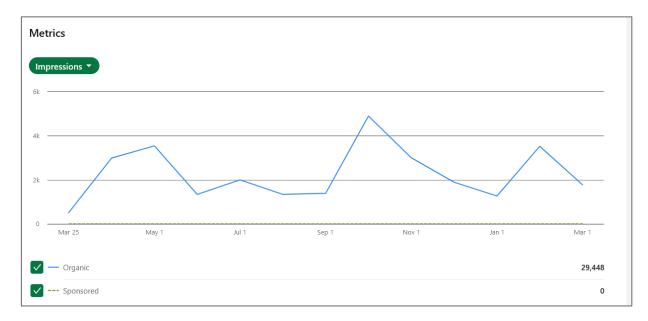


Figure 6 LinkedIn impression metrics

An overview of the NIGHTINGALE LinkedIn page performance is presented in Table 10. The interim assessment of the performance indicates that the company page attracts engagement and interest from professionals and practitioners in the key fields relevant to the NIGHTINGALE project. The sustainable growth in the number of followers and visitors in M6-M18 is in line with the global trend. In the last year, LinkedIn has emerged as a popular alternative to Twitter.[5]

To facilitate the performance of the NIGHTINGALE page, the project Newsletter was migrated to the LinkedIn platform. This function was enabled on the page in M12. Using the Newsletter on the platform allows to communicate with followers in a longer format, providing an overview of project updates and sharing information about events and publications.

Table 10 LinkedIn analytics

	LinkedIn analytics 1 October 2021 – 24 March 2023 (M1-M18)
Number of LinkedIn	221 (M18)
followers	
Number of posts	215 (M18)
Page views	1,090
Page engagement	1,500
Followers (sectors)	Research & Higher Education
	Communication Services
	Information Technology Services & Consultancy
	Public Safety
	Hospitals and Healthcare
	Medical Practice

3.3.4 Newsletter

The NIGHTINGALE Newsletter provides regular updates on the progress and results and presents an overview of past and upcoming events, and relevant information in the field of emergency medical response, crisis management, and disaster resilient technologies. In M12, the decision was made to move the NIGHTINGALE Newsletter from the Mailchimp platform to LinkedIn. The LinkedIn newsletter function has been introduced as new feature in March 2022. The new format was designed with a goal of building and growing regularly engaged audiences and experimenting with a longer article format on the platform.

The NIGHTINGALE Newsletter is compliant with General Data Protection Regulation (GDPR). The Newsletter subscription option is open to all LinkedIn users. It is also shown to first-tier connections of the NIGHTINGALE LinkedIn page with an option to subscribe. The subscription process for readers is straightforward. If a reader is a LinkedIn user, they can subscribe by clicking on the link in the newsletter. In case a reader does not have a LinkedIn account, they can view and read the newsletter, but they will not be able to subscribe. Therefore, the process does require the user to have a LinkedIn account, but it does not require visiting a different third-party website to sign-up, making it homogenous with their everyday social media use. When the NIGHTINGALE Newsletter is published, an automatic notification is sent to subscribers. Furthermore, when a LinkedIn member starts following the NIGHTINGALE LinkedIn page, a notification inviting them to subscribe to the newsletter is automatically sent. These functionalities increase awareness of the project and help to gain new followers on the NIGHTINGALE LinkedIn page.

During M1-M18, two NIGHTINGALE Newsletters have been created. They were published in November 2022 (M13) and January 2023 (M16). The metrics from the newsletters allows to measure the number of views and engagement rate and to view some demographic parameters, such as the type of sectors of subscribers. Table 11 shows that the newsletter reaches the audience that extends beyond subscribers. The sectors of subscribers include research, IT, consultancy, and medicine, which are all relevant to NIGHTINGALE. As the project advances, more newsletters are expected to be published.

Table 11 Newsletter analytics

	Newsletter analytics (M12-M18)
Published newsletters	2
	<u>Newsletter #1</u> (M13)
	Newsletter #2 (M16)
Number of subscribers	152 (M18)
Article views	364
Page engagement	13.4%
Subscribers (sectors)	Research & Higher Education
	Communication Services
	Information Technology Services & Consultancy
	Medical Practice

3.3.5 YouTube

- » Number of videos at M18: 6
- » Number of video views in total at M18: 311

The <u>NIGHTINGALE YouTube channel</u> was created M2. It serves as an easily accessible platform for the project's audio-visual highlights. The NIGHTINGALE videos can be embedded in social media posts and newsletters for increasing visibility of the posts and enhancing engagement and interaction with target audiences. NIGHTINGALE videos are carefully edited, following strict security and confidentiality protocols. A branded NIGHTINGALE start and end card was created early on to be used across all videos for visual consistency. As presented in Figure 7, six videos have been published by M18; and more than 10 videos are currently in production. Planned video content includes infographic explainer videos, spotlight interviews with project partners, and summary videos from NIGHTINGALE events.

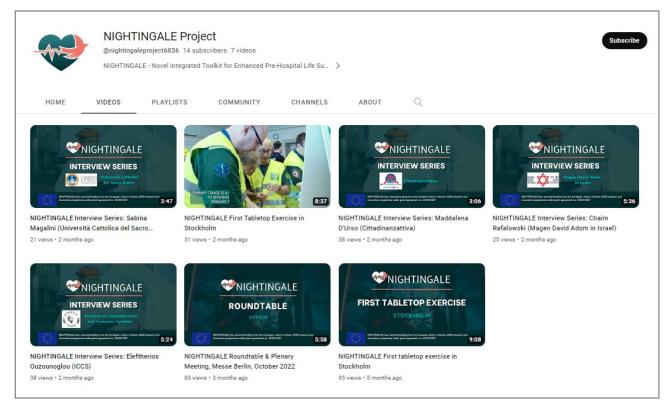


Figure 7 YouTube videos

3.4 Promotional materials

A suite of first-class communications collateral was developed for NIGHTINGALE, including a poster, a leaflet, and a banner, a digital promotional presentation. The second instalment of the communications materials was created in M12 to include the infographic of the NIGHTINGALE toolkit. As the project advances to next stages, new instalments of communications and training materials are expected to be developed and include updated project results. As we aim to minimise the environmental footprint of printed materials, the preference is given to electronic and digital materials, such as electronic posters, video materials and presentations.

3.5 Media and multipliers

Media is an important audience as well as a multiplier channel that enables to reach other target stakeholder groups. During the first year of the project, a media contact database was created by CCL. The database includes media outlets at local, national, and European levels. This list is

continuously updated by CCL to include media contacts and outlets that are relevant to the project and its dissemination activities. CCL also made partners aware of the possibility to avail of media training when needed.

As NIGHTINGALE has entered the second year, a press release was issued by CCL to mark the project's status and significance. The press release [6] was shared with all partners and sent to media and EC resources in October 2022. As the result, an article on the NIGHTINGALE, which was published in six EU languages, featured on the CORDIS website.[7]

Engagement with media will intensify in the next months of the project. Press releases will be issued for all upcoming NIGHTINGALE events and major conference presentations. Other planned activities include pitching potential interview ideas with project partners and drafting articles for pitching to publications specialising in preparedness and response to emergencies and disasters. National and local media will be targeted for increasing the coverage of training activities, roundtables, and meetings. Press releases will be translated and issued to media with contact information of the local project partner. As the work on the NIGHTINGALE toolkit progresses to next stages, media engagement and activities will become increasingly result-oriented, promoting developments in technologies for first responders and innovation in emergency response training.

4 Communication and dissemination strategy (M19-M36)

As the project enters its second half, it moves into a new, more results-focused phase of dissemination and communication activities. The development of the NIGHTINGALE tools and solutions will now enter a more intensive phase, which will include testing and validation activities and production of training materials. This new phase will create new opportunities for impactful dissemination. All partners will keep contributing to the core objective of ensuring that all results are made available to relevant stakeholders, and that the reasons for the results being of interest, benefit, and relevance to them is communicated effectively.

4.1 Overview of future actions

The continuous activities described in the previous sections will continue to be carried out in M19-M36. The availability of results will go hand in hand with intensified results-focused dissemination efforts involving all partners. The impact will be maximised through a broad range of activities including increased media outreach through press releases, communication with other projects in the field of disaster resilient technologies, fostering network activities and uptake of the results. These activities have been summarised in *Table 12*.

					r	r	r		r		r				r	r		
Activity (month)	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Task 6.2 Communication activities & outreaching events																		
Network activities																		
DRS-02 project																		
cluster activities &																		
contacts																		
Project website																		
update																		
Twitter content																		
LinkedIn content																		
YouTube content																		
Newsletter																		
Update of																		
promotional																		
materials																		
Training materials																		
Media contact											_							
update																		
Press releases																		
Evaluation & review																		

Table 12 Timeline of activities M19-M36

Looking ahead at the next eighteen months of the project, the partners have already identified some highly impactful events that they are planning to attend and present their research results. In 19-21 April 2023, the NIGHTINGALE project will be presented at the conference of the European Emergency Number Association taking place in Ljubljana in Slovenia. More than 800 professionals in the field of public safety and emergency technologies are expected to attend the conference and exhibition. The NIGHTINGALE presentation will focus on the technologies that can advance pre-hospital life support

and triage during MCIs with the support from trained volunteers. Furthermore, some of the NIGHTINGALE technological solutions will be presented.

In May 2023, NIGHTINGALE partners will be attending two major conferences in the field of disaster management and emergency medicine. The first event is the European Congress of Trauma and Emergency Surgery (ECTES), which is taking place on 7-9 May in Ljubljana, Slovenia. The congress will include a dedicated NIGHTINGALE roundtable with end users. Furthermore, the NIGHTINGALE project will be presented to participants during a specially dedicated session on the project, and a NIGHTINGALE booth will be part of the ECTES industrial exhibition. ECTES brings together experts in the field of emergency medicine and provides a forum for the exchange of knowledge, including on the topic of equipment and technologies for emergency medical response. We expect that it will be an important event, which will help to introduce NIGHTINGALE innovative solutions to emergency medicine professionals.

The second major event is the WADEM Congress on Disaster and Emergency Medicine, taking place on 9-12 May in Killarney, Ireland. The WADEM Congress is a great opportunity to present the NIGHTINGALE project to international stakeholders in such areas as pre-hospital care, disaster medicine and response, emergency management and preparedness. The NIGHTINGALE presentation will focus on the methodology of developing innovative technologies for pre-hospital life support and triage for MCIs. The presentation also aims to raise awareness and familiarise potential end users with technological solutions that are being developed in NIGHTINGALE.

A selection of other important events planned for M19-M30 is listed in *Table 13*. It is important to underline that other conferences and dissemination opportunities will be continuously identified, as the project moves to the next stage. Furthermore, NIGHTINGALE will continue its active participation in the CERIS Disaster Resilient societies cluster events. Networking and cluster activities will also intensify starting from M19 as part of the initiative of establishing the Responder Technology Cluster with other DRS02-related projects.

In addition to the external activities, two international NIGHTINGALE workshops on the "Tools, Methods and Guidelines for Handling MCIs" will be organised in M26 and M35 by MRMID and ESTES respectively. Planning and organisation of these events will start in the upcoming months of the project. These events will be the central NIGHTINGALE activities that will help to disseminate project results to target stakeholders of the project.

No	Date	Name of event	Event type	Partner(s)	Location
1	19-21/04/2023	European Emergency Number	Conference	DW,	Ljubljana,
		Association Conference and Exhibition		PARTICLE,	Slovenia
				СА	
2	7-9/05/2023	European Congress of Trauma and	Conference	all user	Ljubljana,
		Emergency Surgery	& Exhibition	partners	Slovenia
3	9-12/05/2023	WADEM Congress 2023	Conference	UPO	Killarney,
				UCSC	Ireland
4	28-31/05/2023	Internal Conference on Information	Conference	ASTRIAL	Omaha, NE, USA
		Systems for Crisis Response and			
		Management			
5	29-31/05/2023	Research and Innovation Symposium for	Conference	CERTH	Rhodes, Greece
		European Security and Defence			

Table 13 Future events

6	17-20/09/2023	European Society for Emergency	Conference	UPO and	Barcelona, Spain
		Medicine Congress		other user	
				partners	
7	24-27/10/2023	German Congress of Orthopaedics and	Conference	user	Berlin, Germany
		Traumatology (DKOU 2023)		partners	
8	25-27/10/2023	European Big Data Value Forum	Conference	UPV	Valencia, Spain
9	14/17/01/2024	International Preparedness and	Conference	tbc	Tel Aviv, Israel
		Response to Emergencies and Disasters			

Conclusion

This deliverable has provided a detailed picture of the current communication and dissemination landscape surrounding NIGHTINGALE. This report builds on D6.3 Communication and dissemination strategy (M6), and it will feed into D6.5 Communication and dissemination strategy (Final Report).

The main goal of this report was to present and analyse the dissemination and communication achievements from M1 to M18. The first part of this deliverable has listed dissemination activities that have been carried out, including events, publications, clustering and networking activities. The second part focused on the analysis of communication activities and effectiveness of the established channels to reach target audiences and relevant stakeholders. The performance to date has been measured and analysed against the agreed KPIs in D6.3 Communication and Dissemination Strategy. This deliverable has also updated some performance measures and presented concrete actions that would help to increase the impact of communication channels.

The next steps have been outlined, and an indicative timeline has been presented for activities M19-M36. This report demonstrates that the project is well on track to meet its communication and dissemination objectives. The project results that are generated are being effectively and systematically disseminated. Furthermore, communication and dissemination actions will be supported by 6.10 Exploitation Strategy and 6.8 Business Cases & Models and Industrialisation roadmap, connecting dissemination activities to partners' exploitation plans.

References

- [1] Zenodo. About Zenodo, available at https://about.zenodo.org/ (Accessed March 2023).
- [2] NO-FEAR Workshop and full-scale exercise: Training and Education in emergency and disaster medicine (12 May 2022). Available at: <u>https://no-fearproject.eu/archives/1597</u>.
- [3] The Data Protection Commission of Ireland (23 December 2022). Data Protection Commission launches inquiry into Twitter concerning datasets. Available at: <u>https://www.dataprotection.ie/en/news-media/data-protection-commission-launches-inquiry-twitter-concerning-datasets</u>.
- [4] Adami, M. (17 May 2022). From Musk to Brussels: three leading experts on the future of free speech online. Reuters Institute for the Study of Journalism. Available at: <u>https://reutersinstitute.politics.ox.ac.uk/news/musk-brussels-three-leading-experts-futurefree-speech-online</u>.
- [5] Newman, N. (10 January 2023). Journalism, media, and technology trends and predictions 2023. Reuters Institute for the Study of Journalism. Available at: <u>https://reutersinstitute.politics.ox.ac.uk/journalism-media-and-technology-trends-andpredictions-2023</u>.
- [6] NIGHTINGALE Project (24 October 2022). European research project NIGHTINGALE brings leading technology providers and first responders to Berlin. Available at: <u>https://www.nightingale-triage.eu/2022/10/25/eu-research-project-brings-leading-techproviders-and-first-responders-to-berlin/</u>
- [7] Improving first response in major emergencies (17 November 2022). CORDIS. Available at: <u>https://cordis.europa.eu/article/id/442592-improving-first-response-in-major-</u> <u>emergencies?WT.mc_id=exp</u>

Appendices

Appendix 1: Questionnaire on planned dissemination and communication activities M18-M36

The deliverable includes information and the estimated number of expected dissemination results based on the questionnaire of the NIGHTINGALE partners. This questionnaire could be used in the future to monitor the progress of dissemination activities and receive future updates.

Dissemination activities

Scientific publications

What type(s) of scientific publications are you planning to prepare to disseminate research results of the NIGHTINGALE project?

- Peer-reviewed academic article
- Contribution to an edited volume
- Conference proceedings
- Original dataset
- Special issue of a journal
- Not applicable

How many scientific publications are you planning to complete during the lifetime of the project (M1-M36)? An estimate is fine.

How many scientific publications have been submitted for review or accepted for publication (M1-M17)?

Could you please name three academic outlets, such as academic journals or data repositories, where you are planning to submit you research?

What open access route have you chosen for your previous publications (M1-M17)?

Deposited your publication in a repository for scientific publications (OpenAIRE/Zenodo) and ensure open access – Green Open Access

Published your research in an open access journal – Gold Open Access

Covered a one-off fee (article processing charge) using the project or other funding to ensure open access – Gold Open Access

What open access route are you planning to use for your next publications (M18-M36)?

Deposited your publication in a repository for scientific publications (OpenAIRE/Zenodo) and ensure open access – Green Open Access

Published your research in an open access journal – Gold Open Access

Covered a one-off fee (article processing charge) using the project or other funding to ensure open access – Gold Open Access

	Somewhat relevant	Very relevant	Not relevant	Not familiar
International Journal for Disaster Risk Reduction	0	0	O	0
International Journal of Information System for Crisis Response and Management	0	0	0	0
Information Systems for Crisis Response and Management Conference Proceedings	0	0	0	0
Prehospital and Disaster Medicine	0	0	0	0
European Journal of Trauma and Emergency Surgery	O	O	0	0
European Journal of Emergency Medicine	O	0	0	0
Disaster Medicine and Public Health Preparedness	O	0	0	0

What is the relevance of the listed publications for your research in the NIGHTINGALE Project?

If none of the listed publications are relevant for your research, could you please specify one top scientific publication in your field?

Dissemination events

What types of dissemination events are you planning to attend to present NIGHTINGALE research results?

- Academic conference / congress
- Poster presentation / flash talk
- Industry talk
- Workshop or seminar
- Expo
- Demonstration
- Small- or large-scale exercise
- Other

If you chose other, please specify.

How many dissemination events are you planning to attend during the lifetime of the NIGHTINGALE project (M1-M36)? An estimate is fine.

Could you list top three dissemination events that you are planning to attend in the next months (M18-M24)?

Are you interested in attending any of the following events?

	Interested	Planning to attend	Not relevant
European Congress of Trauma and Emergency Surgery (ESTES)	0	0	0
European Emergency Number Association Conference & Exhibition	0	0	0
World Association for Disaster and Emergency Medicine (WADEM) Congress	0	0	0
European Society for Emergency Medicine (EUSEM) Congress	0	0	0
Internal Conference on Information Systems for Crisis Response and Management (ISCRAM)	0	0	0
Community for European Research and Innovation for Security (CERIS) events	0	0	0
Research and Innovation Symposium for European Security and Defence	0	O	0

If none of the events are relevant for your research, could you please specify one event in your field?

Are you a member of professional or academic association(s)?

- Yes
- No
- Not applicable

If you answered 'yes' to the previous question, could you please list one academic association which is relevant to the objectives of NIGHTINGALE?

In your opinion, what one event should be prioritised in presenting research results and technologies developed by the project (M24-M36)?

Networking with other European R&I projects

Have you taken part in any networking opportunities organised by other Horizon 2020/Horizon Europe projects that have benefited your research in NIGHTINGALE?

If yes, what type of event have you attended or are you planning to attend?

Workshop or seminar

- Laboratory testing
- Small- or large-scale exercise

Demonstration

🔲 Other

If you chose other, please specify.

Could you name one ongoing research project which is relevant to NIGHTINGALE?

Have you organised or planned any joined activities with other R&I projects in the next months? If yes, with what project(s)? (M1-M36)

Communication activities

Could you please list any academic blogs, popular science magazines or newsletters that you regularly check and follow for updates in the field of your research? One or two examples are sufficient.

Who do you see as the main target group of the NIGHTINGALE project results? Who do you aim to reach with your research or developed technology?

In your opinion, the results of the NIGHTINGALE project should be communicated to what audiences?

	Not relevant	Somewhat relevant	Very relevant	Target end users
First responders	0	0	0	0
Emergency medicine professionals, such as nurses and doctors	0	0	0	0
Researchers in your field	0	0	0	0
Civil society organisations	0	0	0	0
Civil protection agencies	0	0	0	0
Policy makers	0	0	0	0
General public	0	0	0	0
Volunteers	0	0	0	0
EU institutions and agencies, such as ECHO and ERCC	0	0	0	0
Technology stakeholders specialising in emergency /disaster and medical technology	0	0	O	O

If none of the listed groups are relevant, could you please specify other target end users of the project results?

Who do you see as the main target group of the NIGHTINGALE project results? Who do you aim to reach with your research or developed technology?

In your opinion, the results of the NIGHTINGALE project should be communicated to what audiences?

	Not relevant	Somewhat relevant	Very relevant	Target end users
First responders	0	0	0	0
Emergency medicine professionals, such as nurses and doctors	0	O	0	0
Researchers in your field	0	0	0	0
Civil society organisations	0	©	0	0
Civil protection agencies	0	O	0	o
Policy makers	0	O	0	0
General public	0	0	0	0
Volunteers	0	0	0	0
EU institutions and agencies, such as ECHO and ERCC	0	0	0	0
Technology stakeholders specialising in emergency /disaster and medical technology	O	0	O	O

If none of the listed groups are relevant, could you please specify other target end users of the project results?

Please choose policy issues relevant to your research or technology being developed in NIGHTINGALE. Please select multiple options

- Disaster preparedness
- Disaster risk management
- EU-wide measures on emergency communications
- Cybersecurity Standardisation

- UAS legislation
- EU civil protection and humanitarian aid policies
- Education in emergencies with the focus on MCIs
- Medical devices legislation
- ICT Standardisation

If an important policy issue is not listed above, could you please specify?