

## INCLUDING: an H2020 project



INCLUDING is a project funded by the European Commission in the framework of H2020 programme. It is part of the Secure Societies Challenge – Protecting freedom and security of Europe and its citizens. The funding scheme is CSA (Coordination and Support Action) and the topic of reference is: Pan-European clusters of practitioners and other actors in the field of Security (Subtopic Innovation clusters from around Europe managing demonstration sites, testing workbenches and training facilities).

### Overview of the Project

INCLUDING connects 15 Partners from 10 EU Member States (MS), bringing together infrastructure, equipment and experts coming from Medical Organizations, Fire Corps, Government Department, Municipalities, Law Enforcement Agencies, Ministries, Governmental and Civilian Research Institutes and Industries operating in the field of radiological and nuclear emergencies.

Far from being a simple aggregation of entities separated geographically and with complementary expertise, INCLUDING pursues to develop a Federation in which individual Members will cooperate together to provide a common framework to standardize access to their respective facilities, enhance interoperability and to allow a more intensive use of expensive equipment.

### Why a Project on Radiological and Nuclear Emergencies?

Radiation and nuclear emergencies are by far the most feared by people and difficult to face by the authorities and the radiological threat is now recognized as a high, if not the highest, priority in the global agenda for nuclear security and an important element in the broad spectrum of unconventional threats pursued by malicious individuals and groups.

To date, new scenarios add to conventional ones to further widen the range of intervention of front-line authorities and in general of all practitioners and pose a great challenge in terms of making the most effective use of the present knowledge and technologies, while keeping abreast of the continuously evolving threats. The job of improving Radiological and Nuclear security is never done: security must constantly evolve as the threats change, technologies shift and new vulnerabilities are revealed.

### INCLUDING in a nutshell

Start: 1<sup>st</sup> August 2019

Duration: 60 months

EU contribution: € 3 585 528,75

Coordinator: ENEA

Project Officer: Prof. Philippe Queauviller

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## AGENDA

Day One – 3 <sup>th</sup> October 2019			
Time (CEST)		Item	Presenter
Start	End		
<b>Part 1 - Public Presentation of INCLUDING</b>			
09:30	10:00	Registration & Welcome Coffee	
10:00	10:10	ENEA welcome speech	A. Dodaro (ENEA – Department of Fission and Technology for Nuclear Safety and Security)
10:10	10:20	European Commission welcome speech	P. Quevauviller (European Commission – DG HOME)
10:20	10:30	Republic of Iraq welcome speech (INCLUDING Stakeholders Community)	Fouad A. Alsaady (Ministry of Higher Education & Scientific Research of the Republic of Iraq)
10:30	10:40	Project Overview	L. De Dominicis (ENEA)
10:40	10:50	A taste of the INCLUDING Joint Actions: Field Exercise in Mikkelä	J. Silmäri (South Savo Regional Fire Service, Finland)
10:50	11:00	Nuclear research in Hungary and relevance for INCLUDING	A. Kovács (Hungarian Academy of Science - Centre for Energy)
11:00	11:10	Coffee Break	
11:10	11:20	CEA Research, Tools and resources used to manage a contaminated environment	K. Boudergui (CEA)
11:20	11:30	The RAWFIE Platform – Pan European Federation of Testbeds for Mobile IoT Experimentation	S. Hadjiefthymiades (University of Athens)
11:30	11:40	Emergency Dept. role during RN emergencies	D. Gui (Università Cattolica del Sacro Cuore)
11:40	11:50	CBRN risk evolution: a multidisciplinary approach	P. Tessari (Istituto Affari Internazionali)
11:50	12:00	Cross fertilization in CBRNE International projects at ENEA	A. Palucci (ENEA)
12:00	13:00	Networking	

<b>Part 2 – INCLUDING KOM Technical part</b> <b>Confidential, only for members of the consortium (including the Commission Services)</b>			
13:00	13:45	Lunch	
14:00	14:10	Opening	
14:10	14:40	WP1 – Project Management	L. De Dominicis (ENEA)
14:40	15:10	WP2 – The Federated Cluster	S. Hadjiefthymiades (NKUA)
15:10	15:40	WP3 - Training gaps analysis and scenarios development	P. Tessari (IAI)
15:40	16:10	WP4 - A common learning framework for RN training	F. Steinhäusler (ISCC)
16:10	16:30	Coffee break	
16:30	17:00	WP5 - Joint Actions at the Cluster Facilities	S. Kolovos (HMOD)
17:00	17:30	WP6- Link with other projects and new acquisitions	R. Brancaleoni (UCSC)
17:30	18:00	WP7 - Dissemination and exploitation	R. Trawinski (APL)
18:00	18:15	Summary of Day One/ Day two agenda/ Wrap up	ENEA

<b>Day two – 4<sup>th</sup> October 2019</b>			
<b>Part 3 – INCLUDING KOM follow up</b> <b>(Confidential, only for members of the consortium (including the Commission Services))</b>			
08:45	09:00	Registration & Welcome Coffee	
09:00	09:30	Financial and administrative matters	L. De Dominicis, P. Del Prete (ENEA)
10:00	10:30	Security related obligations in an EU classified project	S. Giannetti (ENEA)
10:30	10:45	Coffee Break	
10:45	11:45	Separate meetings between WPs Partners	All
11:45	12:00	Wrap up and Conclusion of the KOM	
12:00	12:30	1 <sup>st</sup> ISB Meeting	INCLUDING STEERING BOARD
12:30	13:30	Lunch	

## CONSORTIUM MEMBERS



Italian National Agency for New Technologies,  
Energy and Sustainable Economic Development

**ENEA** - The Italian National Agency for New Technologies, Energy and Sustainable Economic Development is a public body appointed for Nuclear Safety and Security. ENEA participates in Euratom research projects on technologies for fourth generation nuclear fission reactors and is considered a leader in the fields of non-proliferation and safety of nuclear installations. It also provides support to competent authorities for the management of treaties on nuclear issues, decommissioning and managing of radioactive waste. It operates two nuclear reactors for research in the ENEA Casaccia Centre (north-west of Rome). For its consolidated technology background and competences, has been involved since the early beginning in the development of innovative tools for Security.



**Astri Polska** is a Joint Venture of Airbus Defence and Space and Space Research Centre of Polish Academy of Sciences (CBK PAN). Since foundation in 2010, the company has been growing rapidly, employing approx. 80 people, mostly Polish engineers. From the very beginning Astri Polska is highly focused on creating and delivering integrated services and tools supporting such sectors as crisis and security management (including strong IT security and safety), planning resilience, critical infrastructure protection, personal data protection and continuity planning while always emphasizing on safety issues. The company has extensive experience coming from the cooperation with EU projects under 7th FP (PRACTICE, ForLab, D-BOX, EDEN) and Horizon2020 (e-KnoT, C3PO).



**INESC TEC** - The Institute for Systems and Computer Engineering, Technology and Science has more than 30 years of experience in R&D and technology transfer. INESC TEC incorporates 13 R&D Centres with complementary competences in different locations of Portugal and with the mission to undertake R&D activities for generating internationally competitive science and technology. INESC TEC acts as an effective interface between the university and companies, public institutions and services, through contract research, technology transfer, specialised consulting services and advanced training. INESC TEC Associate Laboratory invests in Scientific Research and Technological Development, as well as in Advanced Training and Consulting, Technology Transfer and Launching of New Technology-based Companies.



**IAI** - Istituto Affari Internazionali (IAI) is a private, independent non-profit think tank. IAI promotes the understanding of international politics through studies, research, meetings and publications, with the aim of fostering the opportunities of all states to move towards the direction of supranational organization, democratic freedom and social justice. IAI Security Programme analyses several and complementary aspects of internal and international security. Research activities consider reciprocal connections between security and a range of elements, including: national and European security strategies, crisis management, civil protection, critical infrastructures, civilian capabilities supporting European external action, dual use technologies, chemical biological radiological and nuclear (CBRN) sector, and the new challenges of food security.



**UNIVERSITÀ  
CATTOLICA**  
del Sacro Cuore

**UCSC** - The Università Cattolica del Sacro Cuore, founded in 1921, includes five campuses (Milano, Brescia, Piacenza-Cremona, Roma and Campobasso) which cover 14 faculties.

The extensive research program closely collaborates with 16 internal colleges, 62 departments and 93 research centres. Their common goal is the understanding and study of topics like: new frontiers of economics, bioethics, environmental recuperation, developments in the judicial fields, family dynamics, major mass phenomena, the evolution of political systems, new horizons in medicine and the technological applications of physics and mathematics. The School of Medicine, established in Rome in 1961, provides healthcare through the hospital Fondazione Policlinico Universitario Agostino Gemelli with 1400 beds and a turnover of 70.000 patients annually.



**ISCC** - International Security Competence Centre G.m.b.H. represents an international network of security experts. Members of the ISCC Board of Directors and the international ISCC network of partners have decades of experience in security-related threat- and risk assessment, as well as in security technology and operational security.

ISCC security professionals are engineers, chemists, physicists, including also experts in weapons and explosives, in undercover operations and in related security operations in the field. ISCC services range from catastrophic terrorism to critical assessment of emergency preparedness in case of a major terror attack, laboratory- and field tests of weapon systems and explosives, as well as risk analysis for the National Critical Infrastructure.



**Fraunhofer**

**FHG IVI** - Fraunhofer Institute for Transportation and Infrastructure Systems is part of the Fraunhofer-Gesellschaft,

IVI which undertakes applied research to private and public enterprise. Fraunhofer IVI has extensive experience in developing large applied research projects in the fields of civil security, transportation, infrastructure, and energy. The Department of Strategy and Optimisation has longstanding experience in developing solutions for improved situational awareness, decision support, communication and modelling. The developed software technology MobiKat – consisting of a GIS-based command & control system with multiple web applications connected to - is in daily and practical use at police forces, fire-brigades, rescue services, and other civil protection organisations.

**Nuclear Security**

CENTRE OF EXCELLENCE

**NSCOE** - The Nuclear Security Centre of Excellence under the State Border Guard Service of MOI of the Republic of Lithuania has the ultimate mission to generate knowledge, good international practice and then provide human

resource development support to multiple national stakeholders as well as to contribute to fostering overall national nuclear security regime. NSCOE fields of interest are capacity building in the area of nuclear detection and response, detection infrastructure development, coordination and collaboration mechanisms and schemes, HRD products development and implementation and Nuclear Security culture.



**MTA EK** - The Centre for Energy Research of the Hungarian Academy of Sciences has been established in 2012 by merging two former research institutes of the Hungarian Academy of Sciences, i.e. the Atomic Energy Research Institute (AEKI) and the Institute of Isotopes (IKI) to carry out research and development in the field of nuclear

science and technology in Hungary. The mission of the Centre involves its participation in international research efforts aiming at the establishment of new generation of nuclear power plants and the closing of the fuel cycle; maintaining and improving competence in the field of nuclear safety and security; assisting in the peaceful uses of nuclear energy in areas other than energy production.



**NKUA** - The National and Kapodistrian University of Athens started operations on May 1837. Presently, the University has five Schools and a total of twenty-nine Departments located in four campuses near the centre of Athens. The Department of Informatics and Telecommunications was founded in 1989 and consists of three divisions: Computer Science; Computer Systems and Applications; Telecommunications and Signal Processing. NKUAU will

participate in the INCLUDING project through the Network Technologies Services and Applications (NETSA) NETSA staff comprises of a number of acknowledged researchers and engineers specializing in the fields of telecommunications, data networks, security, multimedia applications, distributed, mobile and pervasive systems.



**tekever**  
AEROSPACE | DEFENSE | SECURITY

**TEKEVER ASDS** (Aerospace, Defense and Security) develops and delivers advanced technological solutions in the areas of communications, autonomous vehicles and space systems for the

aeronautics, space, defense and security markets. TEKEVER's activity is product-driven and the company invests significantly in research done in close collaboration with our customers for the integration of innovative technologies in its product lines. Research fields cover the full technological stack exploited on robotics systems, autonomous vehicles, their software and systems infrastructure as well as operations. Upholding this vision, TEKEVER delivers embedded systems, sensor networks, autonomous platforms for air, ground and water environments, and intelligent systems.



**HMOD** - The Ministry of National Defence of Greece (HMOD) enacts the National Defence Policy for the Government of Greece, including civil protection, crisis management, search and rescue operations humanitarian aid and social and environmental research. Consequently HMOD provides the full CBRN operational spectrum (detection, identification, personnel, decontamination, triage procedures and

emergency medical support) and was deployed to the 2004 Olympic Games. HMOD has accumulated extensive expertise and experience from deployments with toxic industrial material/chemical incidents and has substantial experience of large-scale training exercises. Continuing a successful field demonstration exercise for IDIRA (FP7 project); the next field exercise will be for the benefit of TOXI-Triage project.

**CEA** - The French Alternative Energies and Atomic Energy Commission LIST (Laboratoire d'Intégration des Systèmes et des Technologies), is a research Institute specialised in

software systems and technologies with vital societal and economic implications. The 700 researchers, engineers and technicians from CEA LIST perform research work in partnership with the major industrial players in the nuclear, automotive, aeronautical, security and defence and medical fields and thus investigate and develop innovative solutions corresponding to their requirements. Activities span from conceptual design of systems to pre-industrial prototypes. CEA LIST promotes technology transfer and encourages innovation, particularly by assisting the emergence of start-up companies. The Sensor and Electronic Architectures Laboratory (LCAE) is a reference laboratory for the development of nuclear instrumentation for the main industrial partners of the nuclear industry (EDF, ORANO, MIRION...).



**SOUTH SAVO  
RESCUE DEPARTMENT**

**City of Mikkely - South Savo Rescue Department**

- The City of Mikkeli is a "Living Lab" platform for safety & security related exercises, pilots, testing and multiagency operations. Mikkeli is themed as "Safety Headquarters City of Finland". The history of this phrasing comes from WWII when Finnish Armed Forces Headquarters were in Mikkeli. Nowadays Mikkeli has many active operators in security field that include, among others, the South Savo Rescue Services (SSAV) that has been involved with many CBRNE related projects during years, Mikkeli Development Miksei Ltd. that runs several security and safety related projects and the South Savo Regional Hospital specialized in CBRNE safety related issues.



**Ministry of Home Affairs - Public Security Police - (PSP) of**

Portugal, whose mission is to assure the democratic legality, guarantee the internal security and the rights of the citizens, under the Constitution and the Law. Core Fields of daily activities are: Public order, Crime prevention, Crime investigation, Drug related crime investigation (not international), Traffic and Airport Security, Road accident crime investigation, Sport, cultural, social events security (soccer, music concerts), Environment security, International Civil Police Missions, civil emergency, civil protection. Missions against terrorism or highly organized crime that require skilled, highly trained personal and special equipment, like SWAT, anti-riot, bomb disposal, CBRN, k9 or close protection are assigned to the PSP's Police Special Unit (UEP).

## INCLUDING Events

The Cluster will organize events aimed at actuating and disseminating the INCLUDING methodology, to promote the participation of external partners to project activities and to set the basis for enlargement of the Federation.

There are three types of events :

- *Joint Actions*: practical activities held in the facilities of the Federation where will take part project partners and external stakeholders with the role of participants or observers.
- *Workshop on RN training framework*: two days workshop for members of the INCLUDING cluster and invited training professionals to discuss the current status of the EU RN training framework, its relevance to unconventional scenarios and the role of innovative education and training methodologies (high-fidelity and live simulations, 2Ds enhanced and immersive 3Ds simulation software).
- *Annual Project Workshops*: two days workshops organized on annual basis. When possible the workshop will be organized by the partners hosting a Joint Action and in the same days to optimize the participation to the two events of invited external partners. The final workshop will present also the strategy for long-term sustainability of the Federation

Date	Organizing Partner	Location	Events
27-28 Jan 2020	ENEA	Rome (IT)	1 <sup>st</sup> Workshop on the RN training framework
M12	ENEA	Bologna (IT)	Table top exercise + 1 <sup>st</sup> annual Workshop
M18	SSAV	Mikkeli (FI)	Multidisciplinary field exercise
M24	INESC TEC	Vila Real (PT)	Immersive Virtual Reality + 2 <sup>nd</sup> annual workshop
M30	CEA	Saclay (FR)	Training session
M32	ENEA	Frascati (IT)	2 <sup>nd</sup> Workshop on the RN training framework
M36	HMOD	Skaramagas Naval Base (GR)	Multidisciplinary field exercise + 3 <sup>rd</sup> annual workshop
M42	UCSC	Gemelli Hospital of Rome (IT)	Medical drill
M48	MTA EK	Budapest (HU)	Multidisciplinary field exercise + 4 <sup>th</sup> annual workshop
M54	ENEA	Roma + Frascati (IT)	Multidisciplinary field exercises + equipment testing
M60	APL	Warsaw (PL)	5 <sup>th</sup> Annual Workshop

## The INCLUDING External Stakeholders Community

External stakeholders with an interest in following and contributing to the project will constitute the INCLUDING External Stakeholders Community. The default composition is given by the organizations and professionals who have delivered a letter of support. The Community is expected to expand during the project for maximizing the communication of project findings and receiving feedbacks.

Annual workshops and Joint Actions will be open to members of the Community and selected Members will be invited and eligible for reimbursement of travel and accommodation expenses.

For more info on the participation to the Community, please contact the project at the email address [including.project@enea.it](mailto:including.project@enea.it)



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