



EUROPEAN COMMISSION

Community of European Research and Innovation for Security (CERIS)

COMMUNITY OF EUROPEAN RESEARCH AND INNOVATION FOR SECURITY (CERIS)
DISASTER RESILIENT SOCIETIES (DRS) – STATE-OF-PLAY

07-10TH NOVEMBER 2022

Hybrid (physical attendance + Virtual) Meeting

BAO Congress Centre
Rue Félix Hap 11, 1040 Brussels

MONDAY 07th November

Disaster Resilience and Insurance

Workshop under the coordination of ETH Zurich, with participation of the projects EU-Hybnnet, InfraStress, EU-CIP, SecureGas and SmartResilience. The workshop is a place for exchanging ideas, experiences and stakeholders' expectations related to new developments in the area of managing and pricing of disaster risks with a focus on: Climate change-related and natural disasters, focusing on emerging extreme threats ("x-threats" or XTs), Insurance, and its interactions with public sectors and other stakeholders, and the interconnectedness of critical infrastructures.

9:00 Coffee, get together

9:15 Welcome address: **Philippe Quevauviller** (DG HOME), **Giovani Sansavini** (prof. chairman Risk Center, ETHZ) / **Hélène Schernberg**, (Dr. Director Risk Center ETHZ), **Giacomo Mariani** (AON Insurance & Reinsurance brokers)

9:30 Presentation of the intermediate survey results about the stakeholders needs and priorities in the area of disaster risk management and insurance **Aleksandar Jovanović** (vis. prof. Risk Center, ETHZ), (survey open until Nov. 10. 2022)



9:45-10:45 Session 1: Current priorities and options in the insurance and reinsurance disaster management policies – Chairs: **Claudia Pani** (AON), **David Shapira** (Data4Risk)

- Governance approaches for non-quantifiable risks: need to develop more and better "soft tools", **Rainer Sachs** (Sachs-Institute) – 20' keynote
- Assessing probabilities and impacts of extreme events for the needs of insurance under climate change, **Ola Haug** (Gjensidige Insurance Group / NRS) – 10'
- Insurance in an Emerging Risk Complex; Socio-Ethical Observations, **Martin Mullins** (Univ. of Limerick) – 10'
- Priorities and strategy for insurance related to extreme threats, **Giacomo Mariani** (AON Insurance & Reinsurance brokers) – 10'
- Discussion 15'

10:45-11:00 BREAK

- 11:00-12:30 Session 2: **Extreme threats – Data, analysis; risks, forecasting** – Chairs: **Johanna Karvonen, Giovanni Sansavini**
- Defining and characterizing extreme threats and estimating their impacts, **Aleksandra Jovanović, Hélène Schernberg** (ETH Zürich) – 20’
 - D4Home and D4Weather solutions for Insurance, **David Schapira, Stavros Dafis** (Data4Risk) – 15’
 - Hybrid threats as a possible trigger and amplifier of extreme threats (EUHybnet project), **Päivi Mattila** (Univ. of Laurea) – 15’
 - Example of COVID as an “extreme threat” for health infrastructure, **Peter Klimek** (CSHV) – 15’
 - Discussion – 15’
- 12:30-13:30 BUFFET LUNCH
- 13:30 -14:50 Session 3: Resilience assessment and insurance – Chairs: Eva Pelgen, Rainer Sachs
- Engineering resilience in critical infrastructure exposed to extreme threats, **Giovanni Sansavini** (ETH Zürich) – 20’(keynote)
 - Digital twin technology platform to orchestrate and interact resilience resources – data, information and tools for optimized collaboration and action, **Orvin Sawicki-Kacprzyk** (Ortelius) – 15’
 - Resilience (Tool)-as-a-Service: Use case in insurance sector, **Somik Chakravarty** (Steinbeis EU-VRi, SmartResilience project) – 15’
 - Integrating risk, situational awareness and resilience, **Gabriele Giunta** (ENG, InfraStress project) – 15’
 - Assessing resilience of different levels in the society: national, regional, communities, cities, single infrastructure, **Clemente Fuggini / Fabio Bolletta** (RINA, SecureGas project) – 15’
 - Discussion: - 15’
- 15:00-15-15 BREAK
- 15:15-16:00 Session 4: Aligning insurance and resilience-related practices and policies – Chairs: **Päivi Mattila, David Schapira**
- Partnership in disaster management - Search & Rescue exercise Vienna, **Eva Pelgen** (Johanniter) – 15’(keynote)
 - Assuring resilience against extreme events at national and regional level, **Christian Sommade & Claire Menon** (HCFRN Resilience France) – 10’
 - DIN SPEC standardization of stress-testing resilience – an example, **Christian Grunewald** (DIN, InfraStress project) - 10’
 - Discussion – 10’

16:00-16:30 Conclusions, Discussion

Moderators: **Aleksandar Jovanović** (ETHZ), **Philippe Quevauviller** (EC, DG Home)

- **Giannis Skiadaresis** (EC, DG Home, CER Directive) – 10'
- **Ioannis Kavvadas** (EC, DG ENV, Flood Directive) – 10'

- Open discussion – closure of the workshop – 10'

16:30 End of the workshop

Proceedings: Apart for the usual dissemination channels provided by CERIS (web availability of presentations, etc.), the extended abstracts of selected papers are intended to be published in the special issue of the Steinbeis Transfer Magazine (<https://transfermagazin.steinbeis.de/?lang=en>).

Social: Get-together evening foreseen with participants of the Societal Resilience day and participants from the insurance workshop on Tuesday.



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TUESDAY 08th November

Societal Resilience

09:00 – 09:10 Welcome, **Nicolas Bessot** (Head of Unit Cluster 3, DG HOME)

09:15 – 10:15 **Resilient Europe and Societies by Innovating Local Communities**

- Introduction to the RESILOC project, by **Karsten Uhing**
- RESILOC Solution Tools and Methods, by **Uberto Delprato**

10:15 – 11:00 **PANEL – From scenario to recommendations on local resilience strategies**
(moderated by **Karsten Uhing**)

- Tetovo-Bulgaria, by **Nikolay Todorov** (Bulgarian Red Cross)
- West Achaia, by **Marios Didachos** (Municipality of West Achaia)

11:00 – 11:15 **BREAK**

11:15 – 12:00 **PANEL – Community journeys, from scenario to recommendations on local resilience strategies** (moderated by **Karsten Uhing**)

- Community Journey Catania, by **Marco Romano** (Civil Protection Catania)
- Community Journey Gorizia, by **Paola Lorenzoni**

12:00 – 12:15 **Q&A**

12:15 – 12:30 **Conclusions and next steps**

12:30 – 14:00 **BUFFET LUNCH**

14:00 – 14:15 Introduction to the Societal Resilience Cluster, by **Jon Hall** (CMINE)

14:15 – 15:30 **PANEL – Societal Resilience**. Moderator **Kees Boesma** (VU Amsterdam & LINKS)

- Social Media and Crowdsourcing in European Disaster Risk Management, **Nathan Clark** (LINKS project)
- How technology can improve disaster management through better community engagement, **Martina Ragosta** (ENGAGE project)

- Facilitating collaboration between citizens and civil protection agencies to increase resilience, by **Maïke Vollmer** and **Sofia Papageorgiou** (RiskPACC project)

15:45 – 16:00 BREAK

16:00 – 17:30 PANEL – **Societal Resilience – Risk scenarios and management**. Moderator **Philippe Quevauviller** (DG HOME)

- Service for multi-hazard systemic vulnerability and dynamic risk scenarios with and for first and second responders, and other stakeholders, by **Cees van Westen** (PARATUS project)
- A multi-hazard Decision Support System for enhanced local and regional disaster risk management, by **Ivan Van Bever** (MEDIate project)
- An analysis framework for disaster scenarios, by **Andrew Staniforth** (CORE project)
- Building European Communities' Resilience and Social Capital **Anna-Mari Heikkilä** (BuildERS)

Parallel Session – Basement Room

15:45 – 17:30 **Societal Resilience PROJECT TO POLICY EVENT (by invitation)**

- 15:45 Details to follow – Involving RESILOC, LINKS & ENGAGE projects 17:30

Conclusions & Close

Participants are invited to leave the main room just at the end of the session for logistic reasons (rearrangement of the room, musical sound check)

17:30 – 18:30 Cocktail

18:30 – 21:00 Evening Event (buffet dinner, musical entertainment)



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WEDNESDAY 09th November

CBRN Sessions

09:00 – 09:10 General introduction – **Philippe Quevauviller** (DG HOME) & **Antonella Cavallo** (DG ECHO)

09:10 – 10:30 PANEL (5-10 min per project followed by Q&A) – **CBRN (Technical)**.

Moderator **Luigi De Dominicis** (ENEA)

- the establishment of validated procedures for the detection and identification of biological toxins by **Brigitte Dorner** (EuroBioTox project)
- Deep Learning Powered Holographic Microscopy for Biothreat Detection on Field by **János Pálhalmi** (HolozCan project)
- Putting people at the heart of CBRNe preparedness & response by **Laura Petersen** (PROACTIVE project)
- Detection of multiple threats amongst which CBRN threats or pandemic viruses are present by **Manuel Lozano** (NEST project)
- Q&A

10:45 – 11:00 BREAK

11:00 – 12:30 PANEL (5-10 min per project followed by Q&A) – **CBRN (Training & Networking)**. Moderator **Carlos Rojas de Palma** (SCK-CEN)

- develop and deploy a harmonised chemical, biological, radiological and nuclear training curriculum for first responders and medical staff by **Carlos Rojas Palma** (MELODY project)
- Developing a Federation to provide a common framework to standardize access to CBRN facilities by **Luigi De Dominicis** (INCLUDING project)
- Development of a European Network Of CBRN Training Centers by **Col Wolfgang Reich** (E-Notice project)
- Taking an integrated approach to conflicts and disaster relief by virtualization and simulation of CBRN defence training by **Massimo Migliorini** (VERTIgO project)
- Making CBRN Standards relevant to first responders using worked examples by **Jon Hall** (PEERS project)
- Discussion & Q&A

12:30 – 14:00 BUFFET LUNCH

Health Risks Sessions

14:00 14:30 PANEL (5-10 min per project followed by Q&A) - **Health Risks**. Moderator **Jean-Luc Gala** (UCL) tbc

- Preparing Europe for future pandemics through innovations in training and building capacity between EU member states by **Jean-Luc Gala** (PANDEM-2 project)
- Strengthening the coordination capability of the first responders in handling waterborne pathogen contamination events by **Demetrios Eliades** (PathoCERT project)
- Q&A

14:30 – 15:30 PANEL (5-10 min per project followed by Q&A) – **Medical Emergency Responses**. Moderator **Eleftherios Ouzounoglou** tbc

- A Novel Integrated Toolkit and Common Denominators towards enhanced triage and pre-hospitalisation services for emergency medical response by **Eleftherios Ouzounoglou** (NIGHTINGALE project)
- Creating a pan-European network of emergency medical care practitioners, suppliers, decision and policy makers by **Luca Leonardi** (NO-FEAR project)
- Developing innovative mixed-reality training technologies to combine real-world medical simulators with virtual environments to train medical first responders, **Jaison Puthenkalam** (MED1stMR project)
- Procurement and assessment processes for innovative technologies, **Bernhard Jaeger** (iProcureSecurity PCP project)
- Q&A

15:30 – 15:45 BREAK

15:45 – 17:30 **PROJECT TO POLICY EVENT**

- Details to follow – Involving projects and DG SANTE / HERA

17:30 Conclusions & Close

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17:30 – 18:30 Cocktail

18:30 – 21:00 Evening Event



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THURSDAY 10th November

Technologies for first and second responders

09:00 – 09:05 General introduction – **Philippe Quevauviller** (DG HOME)

09:05 – 10:15 PANEL 1 (5-10 min per project followed by Q&A) – **Responder Technologies Inventory updates** / Moderators: **Eleftherios Ouzounoglou & Anastasios Dimou**

- Next Generation Integrated Toolkit for Collaborative Response, increasing protection and augmenting operational capacity, **Eleftherios Ouzounoglou** (INGENIOUS project)
- First-Responder-centered technology toolkits empowering and enhancing the operational capacity of First Responders, **Jorge Alfonso Kurano** (RESCUER project)
- Addressing challenges associated with the protection of first responders in hazardous environments, **Anastasios Dimou** (FASTER project)
- Assessing new technologies in operations, **Jon Hall** (TeamAware project)

10:15 – 10:30 Break

10:30 – 11:30 PANEL 2 (5-10 min per project followed by Q&A) – **Responders technologies, ctd.** / Moderator: **Olivier SALVI**

- Collecting needs, identify added value and ensure uptake of technologies, **Olivier Salvi** (FIRE-IN project)
- Technologies to protect and help First Responders (FRs) during the mitigation of large disasters (Natural or Man-made), **Federico Carvajal Rodrigo** (ASSISTANCE project) On-line
- Interoperability amongst systems and equipment, training and awareness for responders, **Christos Ntanos** (Search & Rescue project)
- Providing new interaction between First Responders and research centres, **Cleo Varianu** (RESPOND-A project)
- Setting up a methodology for field validation of innovative technologies, **Alexandre Ahmad** (INTREPID project)

11:30 – 12:30: Panel discussion. Identified possible topics / Moderator **Alexandre Ahmad** (INTREPID project)

- Co-creation: how to have meaningful interaction with end users for successful workshops?
- Validation: how to assess that the technology is useful and will be used?
- Exchange: how to create a “community”/information exchange between users of a technology?
- Access: How to handle the issues of procurement and the cost for innovative technologies made in Europe?

IN PARALLEL (Rooms downstairs)

09:00 – 14:00 In parallel: poster session of technologies proposed to First Responders by projects

12:30 – 14:00 BUFFET LUNCH

Standardisation Session

14:00 – 15:30 PANEL – **Standardisation**. Moderator: **William Hynes**

- Ensuring first responders’ safety and empowering their operational capacity through standardisation that may support next generation solutions and procedures, ensuring an effective and efficient collaborative response to crises, **Giannis Chasiotis** (STRATEGY project)
- Harmonization and Pre-Standardization of Equipment, Training and Tactical Coordinated procedures for First Aid Vehicles deployment on European multi-victim Disasters, **Juan Román Martínez Arranz** (VALKYRIES project)
- Enhancing Standardisation strategies to integrate innovative technologies for Safety and Security in existing water networks, **Spyridon Kintzios** (Aqua3S project)
- A fresh approach to support cost-effectiveness resilience, and discussion involving other projects and CEN by **Tom Flynn** (PEERS project)
- Discussion & Q&A

15:30 – 15:45 BREAK

15:45 – 16:45 **PROJECT TO POLICY EVENT**

- Details to follow – Involving projects and DGs ECHO / CLIMA / DEFIS

16:45 Conclusions & Close