

DRS SESSION – PROPOSAL PITCHES

MODERATORS

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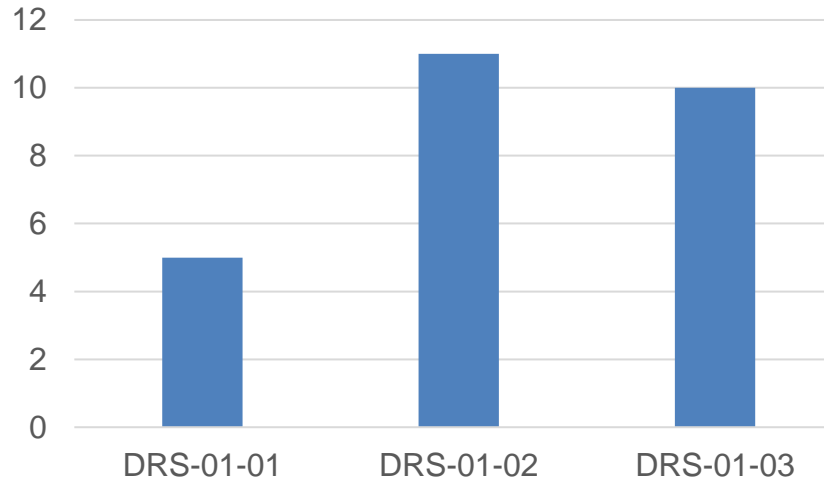
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DRS Review Team:

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	Kefaloukos, Ioannis	g.kefaloukos@pasiphae.eu
	Hall, Jon	jon.hall@resilienceadvisors.eu

DRS-01-02	Hart, Linda	Linda.Hart@laurea.fi
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	Lucia Vela, Ana	a.lucia@igme.es
	Hadjithekli, Andria	a.hadjithekli@ianus-technologies.com
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	José María García (not present)	jgarcia@aitex.es

DRS SESSION - PRESENTATIONS

DRS-01-03	Kostolný, Martin	kostolny@isemi.sk
	Hoeflinger, Fabian, Presenter: Hein, Eva	Fabian.Hoeflinger@emi.fraunhofer.de , (Eva.Hein@emi.fraunhofer.de)
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	Hercelin, Philippe	philippe.hercelin@idemia.com
	Bashiri, Mahdi	mahdi.bashiri@coventry.ac.uk
	Galtier, Antonin	antonin.galtier@cea.fr
	Selim Balcısoy (not present)	balcisoy@sabanciuniv.edu

DRS-01-01

Open topic on citizen and regional and/or local authorities' engagement in enhanced disaster risk awareness, including education, and preparedness

Presenters:

DRS-01-01	Manso, Marco, Presenter: Labor, Melanie	marco@particle-summary.pt (melanie.labor@mu.ie)
	Bressan, Serena	bressan@fbk.eu
	Freitas, Adriana	adriana@apwg.eu
	Kefaloukos, Ioannis	g.kefaloukos@pasiphae.eu
	Hall, Jon	jon.hall@resilienceadvisors.eu

DRS-Toolkit

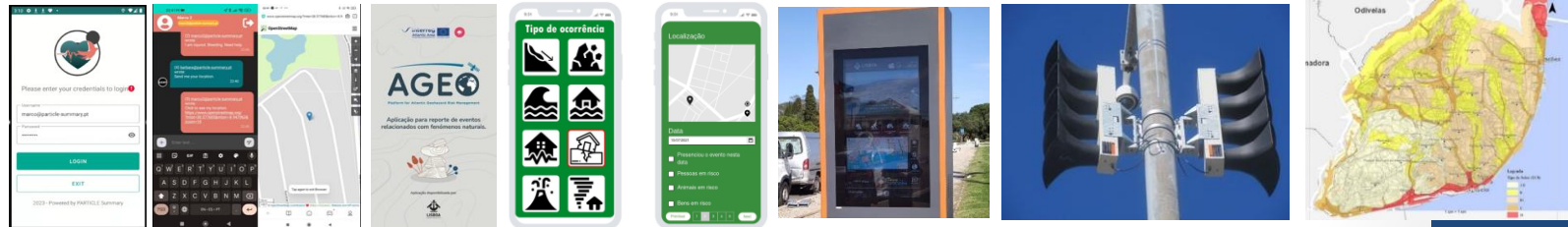
- *Marco Manso*
- marco@particle-summary.pt
- *Particle Summary Lda. (PARTICLE)*
- *Role: Coordination team / WP-leader*
- HORIZON-CL3-2025-01-DRS-01; Option a) Tools and solutions to improve disaster preparedness and risk awareness by citizens and regional and/or local authorities



**Maynooth
University**
National University
of Ireland Maynooth

Proposal idea/content

- *Build a Disaster Preparedness and Risk Awareness Toolkit*
 - *Existing legacy and innovative tools to be integrated into the toolkit*
- *User centric design: Practitioners and Citizens needs*
- *Demonstrations: urban and rural environments; considering extreme natural disaster events*



Project participants

- Existing consortium:
 - Proposed coordinator: (TBC)
 - Partners / Other participants:
 - PARTICLE (SME),
 - ReSist-Lisbon Municipality (Practitioner),
 - Maynooth University (UNIV)
- Looking for partners with the following expertise/ technology/ application field:
 - Practitioners and Authorities
 - Partners with DRS Tools ready for integration and demonstration (satellite services, AI datasets and capabilities, ...)



Maynooth University
National University of Ireland Maynooth

PHOENIX project proposal for DRS-01-01

- *Serena Bressan*
- *bressan@fbk.eu*
- *Fondazione Bruno Kessler, FBK (Italy)*
- *Proposal Coordinator*
- *HORIZON-CL3-2025-01-DRS-01*

- ***PHOENIX – Preparedness for Hazard-Oriented Emergencies and digital twiNs for preventing and mitigating eXtreme crises and disasters***

PHOENIX: Proposal idea/content

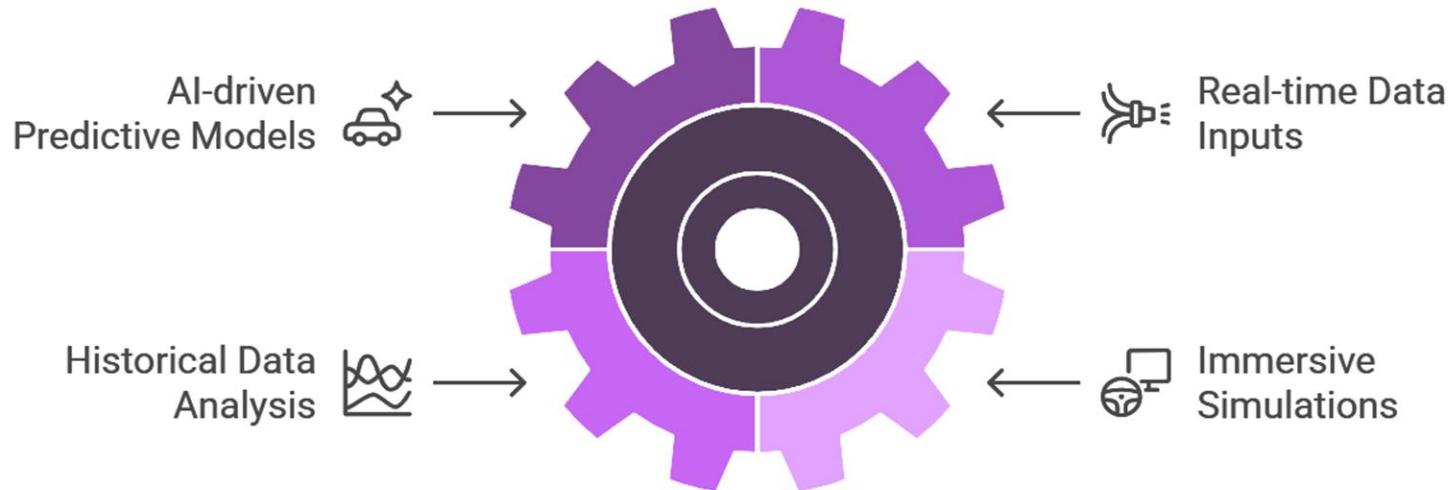
Description of the Proposed Proposal Idea: The project proposal aims to transform disaster preparedness by combining Digital Twin technology with community engagement. By creating dynamic, data-driven virtual replicas, it will enable public authorities, first responders, and citizens to simulate environment-related and man-made crisis scenarios, enhancing planning and response efforts.

Key Strong/Selling Points:

- **Innovative Use of Digital Twins:** Real-time simulation and risk assessment for improved preparedness and response.
- **Citizen-Centric Approach:** Empowering communities with interactive tools, educational and awareness-raising resources to enhance resilience.
- **Data-Driven Decision-Making:** Leveraging AI and big data analytics to provide actionable insights for emergency management.
- **Multi-Stakeholder Collaboration:** Bridging gaps between local authorities, emergency responders, and citizens to foster a culture of preparedness.
- **Scalability and Replicability:** A flexible framework that can be adapted to various disaster scenarios and geographical contexts in the EU and beyond.

PHOENIX: Proposal idea/content

Components of a Digital Twin for Disaster Management



PHOENIX: Proposal idea/content

Disaster Resilience



Improving preparedness and risk awareness

Risk Communication

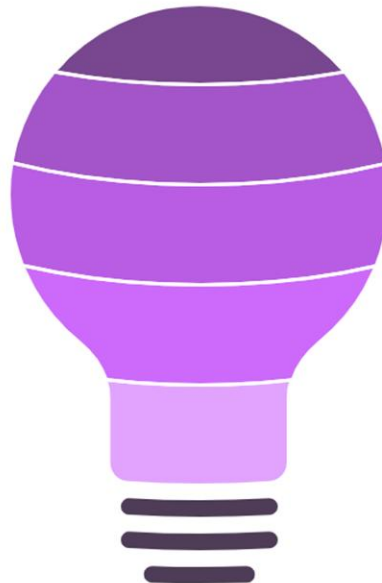


Facilitating better public engagement

Scalability



Promoting national and EU solution uptake



Dialogue and Cooperation

Strengthening collaboration among stakeholders



Scenario Evaluation

Enhancing disaster scenario planning

PHOENIX: Proposal idea/content



Project participants

- **Existing consortium:**

- Proposed Coordinator: *Fondazione Bruno Kessler, FBK (Italy)*
- Partners / Other Participants: *1 IT RTO, 1 IT University, 3 Local/Regional Public Authorities, 3 First Responders, 1 European Network for Combating Climate Change and Natural Disasters, 1 University Expert on Ethical/Legal Issues, 1 Expert Company in D&C*

- **Looking for partners with the following expertise/ technology/ application field:**

- Experienced IT Partner in 3D Digital Twin (e.g., Company or RTO)
- Experienced SSH Partner(s) in Disaster Resilience (e.g., University or RTO)
- European Citizens' Association or Network for Victims of Terrorism or for Prevention, Combating and Awareness on the Issue



Disaster Preparedness for Stronger Communities

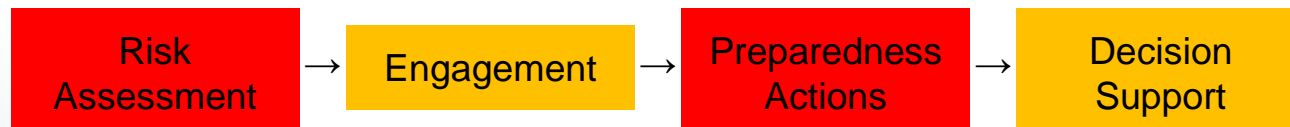
- *Adriana Freitas*
- *adriana@apwg.eu*
- *APWG.EU*
- *Role: WP leader*

- *Topic to be addressed: **HORIZON-CL3-2025-01-DRS-01**: Open topic on citizen and regional and/or local authorities' engagement in enhanced disaster risk awareness, including education, and preparedness*



Disaster Preparedness for Stronger Communities *AI-Driven Engagement for Disaster Resilience*

- Empowering **communities & decision-makers** through interactive engagement tools.
- Bridging **science, policy & practice** with data-driven risk assessment.
- Enhancing **awareness & preparedness** through AI-powered insights & collaboration.
- Cross-sector **participation & inclusion**, embedding Social Sciences & Humanities (SSH).
- **Scalable & adaptive** approach, leveraging machine learning & predictive modeling.





~98,600



600%



17400

~62,900

- Existing consortium



ResilienceQuest

SMI2G
Security Mission Information & Innovation Group

Disaster Preparedness for Stronger Communities



Spain

Switzerland

Romania

Italy

Poland

Experts in cybersecurity awareness, stakeholder engagement, and knowledge-sharing for disaster resilience.

IoT-based disaster monitoring & resilient positioning technologies.

AI & digital twin simulations, GIS analysis, immersive disaster training (AR/VR/XR).

AI-driven crisis training, cognitive bias mitigation, and dual-use security resilience, CBRN Critical infrastructure resilience

Translates the complex world around us into engaging and playful tools to tackle the most pressing challenges

- Looking for partners with the following Profile and a Coordinator

Citizen-Focused Partners (Disaster Preparedness & Response)

- 1 Local & Regional Authorities
- 2 First Responders & Crisis Practitioners
- 3 Social Sciences & Humanities (SSH) Institutions
- 4 End-User Associations & Volunteer Networks
- 5 Policy & Governance Experts

Dual-Use Partners (Security, Hybrid Threats & Critical Infrastructure Protection)

- 6 Defense & Military Organizations
- 7 Security & Law Enforcement Agencies
- 8 Critical Infrastructure Protection Authorities
- 9 Humanitarian Security & Conflict Response Organizations
- 10 Dual-Use Technology Providers

6&7 May 2025, Paris

SMI2G 2025

EMPOWER

- *Ioannis Kefaloukos*
 - *g.kefaloukos@pasiphae.eu*
 - *Hellenic Mediterranean University*
 - Role: *Proposal Coordinator*
-
- Topic to be addressed: *CL3-2025-01-DRS-01* Open topic on citizen and regional and/or local authorities' engagement in enhanced disaster risk awareness, including education, and preparedness

Proposal idea

- *People-centered resilience through tailored preparedness approaches.*
- *Community empowerment via awareness campaigns, educational modules, and engagement. strategies.*
- *Response-ready playbooks based on lessons from blackouts, cyber-physical incidents, and natural hazards.*
- *Continuity-first communication tools ensuring operational awareness in severely degraded environments.*
- *Cross-sector collaboration, ensuring long-term relevance and scalable uptake*

EMPOWER's Use Cases



UC1: Tackling Disasters in Large Towns

- Real-Time Situational Awareness through the DCNs
- Community Preparedness Protocols
- Fallback Communication Solutions
- Simulation-based training and tabletop exercises



UC2: Tackling of Natural Disasters

- Timely detection and dissemination of warnings
- AI-supported risk visualization dashboards
- Enhanced coordination and decision making
- Engagement of relevant stakeholders in co-developing response and education campaigns

Project participants

- Existing consortium:
 - Proposed coordinator: HMU
 - Relevant Expertise
 - *Guidelines for Emergency Communications Network Resilience and Preparedness with the European Telecommunications Standards Institute (ETSI)*
 - *Security Considerations in Fog and Edge Computing within the 5G ecosystem with the European Agency for Cybersecurity (ENISA)*
 - *Coordination or Technical Coordination of more than 15 HUE projects (cybersecurity, emergency communications)*
 - *Disaster/Emergency Scenarios Communications modules (2 active HE projects)*
 - Partners / Other participants: 1 Bulgarian partner for AI-based Risk Assessment, 1 Greek Partner for knowledge sharing & situational awareness
- Looking for partners with the following expertise/ technology/ application field:
 - Partners with expertise on AI predictive analytics
 - Security Practitioners
 - First responders

Citizen Stakeholders

- *Jon Hall* QFSM
- *jon.hall@resilienceadvisors.eu*
- *CMINE / RAN*
- Role: *WP leader*



- ***HORIZON-CL3-2025-01-DRS-01: Open topic on **citizen and regional and/or local authorities'** engagement in enhanced disaster risk awareness, including education, and preparedness***

Proposal idea/content

- *Undefine Stakeholders*
- *Enhanced use of AI to enable citizen and institutional stakeholders to access Disaster Risk Awareness collateral appropriate to their enhanced security and preparedness*
- *We have a sound foundation created by the Societal Resilience Cluster of projects which we'd like to enhance for mass deployment across Europe and*
 - *Assessment & evaluation of preparedness*
 - *Information*
 - *Training*

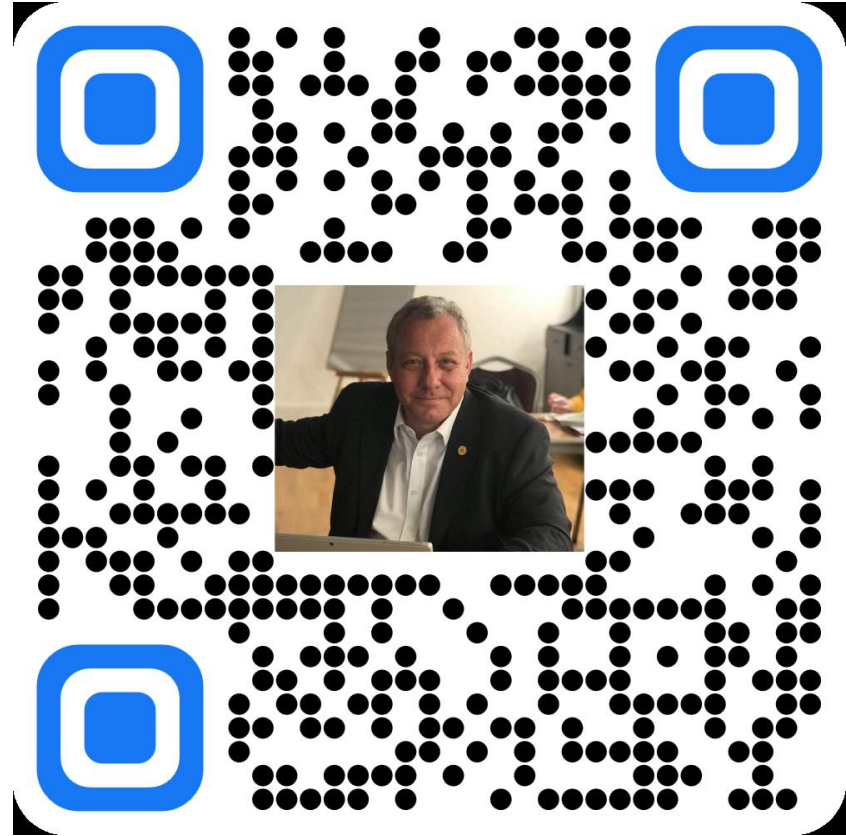


Project participants

- Existing Consortium:
 - Core team from the creation of the innovative DRS Hub
 - Sound DRS expertise
- Looking for:
 - Researchers in the field of Societal Psychology
 - AI deployment expertise
 - Practitioners from Citizen, local and regional groups for field testing
- Membership of the Consortium will be based on Clear Value Addition!

Contribution

- Please contact us here:



DRS-01-02

Open topic on Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience

Presenters:

DRS-01-02	Hart, Linda	Linda.Hart@laurea.fi
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	Ustenko, Maria	maria.ustenko@zanasi-alessandro.eu
	Staniforth, Andrew	andy@saher-eu.com
	Lucia Vela, Ana	a.lucia@igme.es
	Hadjithekli, Andria	a.hadjithekli@ianus-technologies.com
	Neubauer, Georg	Georg.Neubauer@ait.ac.at
	José María García (not present)	jgarcia@aitex.es

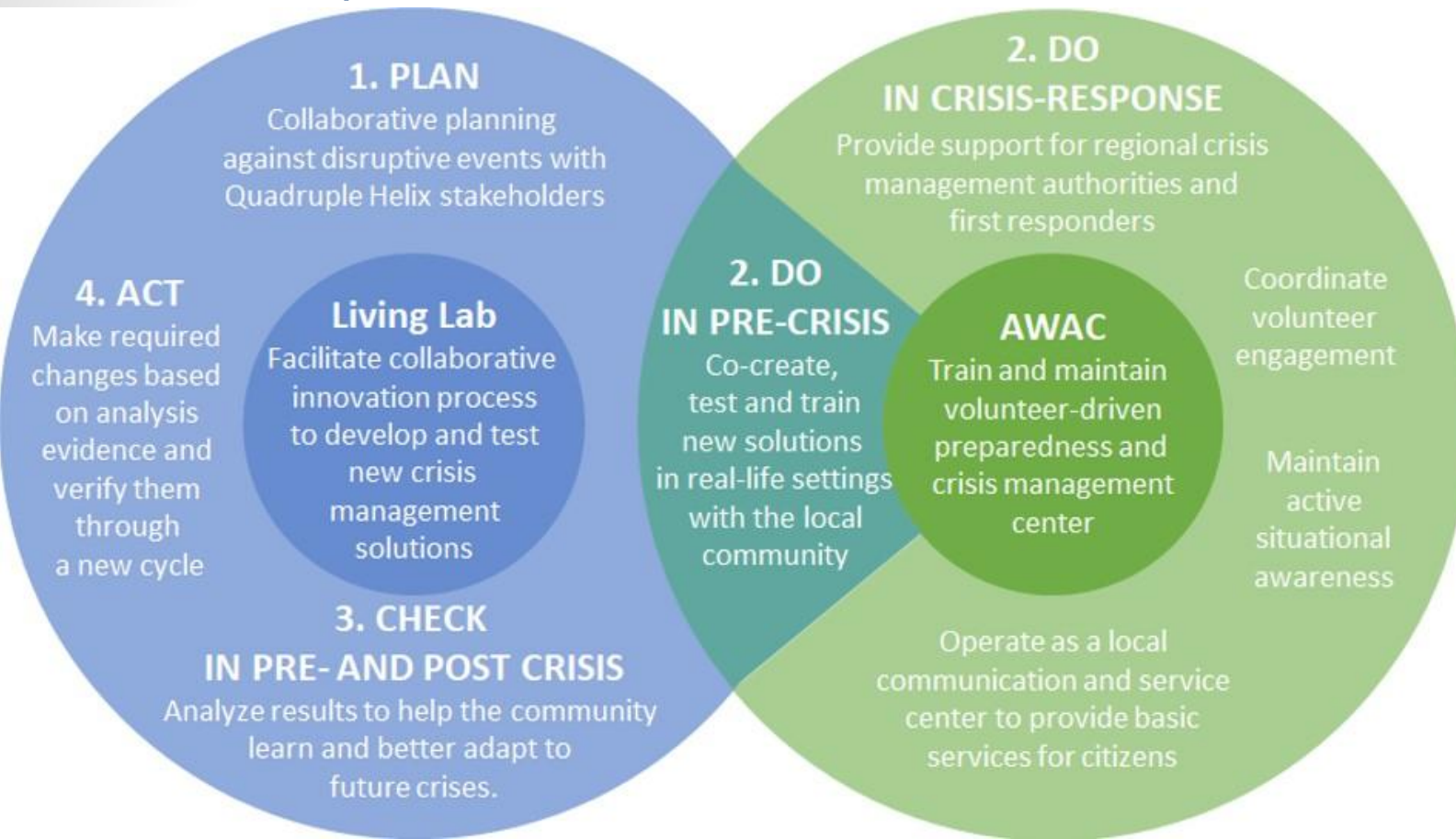
Regional Readiness Centres (RRC)

- Dr Linda Hart, RDI Specialist
- linda.hart@laurea.fi +358 504 318 493
- Laurea University of Applied Sciences, Greater Helsinki area, Finland
- Proposal Coordinator: ResLab Research Team, <https://www.laurea.fi/en>
- **Topic to be addressed:** HORIZON-CL3-2025-01-DRS-02
- **Aim:** Promote active citizen and local authority engagement in disaster risk awareness and preparedness through education and establishing local resilience focal points in European regions

Regional Readiness Centres (RRC)

- **How:** Living Lab methodologies applied to co-designing and implementing Regional Resilience Centre (RRCs) pilots
- **Pre/post crisis:** RRCs engage citizens and regional/municipal authorities in Living Labs, developing tools and solutions for enhanced disaster risk awareness and facilitating collaboration among local stakeholders, and with peers across Europe.
- **Crisis response:** RRC coordinates NGO and volunteer engagement to support of official crisis response authorities with services to citizens, preparedness, and education throughout the resilience cycle: pre-crisis, crisis response, and post-crisis (= AWAC)
- **RRC pilots:** involving regional/local authorities, volunteer organizations, and emergency responders

Regional Readiness Centres integrating Living Lab, AWAC and PDCA processes:



Regional Readiness Centres (RRC)

Project Partners

- Existing consortium:
 - Coordinator: ResLab Research Team, Laurea UAS, Finland
 - Partners/participants: universities (Finland, Germany, Czech Republic, Slovakia, and Italy); local authorities and providers of critical services; SMEs
- Looking for partners:
 - Organisations: authorities, end-users, volunteers, NGOs
 - One more regional location for piloting
 - Email: linda.hart@laurea.fi +358 504 318 493

Wildfire Guardian

- *Marco Tiemann*
- *marco.Tiemann@innovaintegra.com*
- *Innova Integra (UK)*
- Role: *Proposal coordinator*
- Topic to be addressed:
CL3-2025-01-DRS-02 open call
Option a) Climate/Weather Events

Wildfire Guardian

- *Extend satellite observation data with novel observation methods including local observation*
- *Generate local long-term forecasts of actual wildfire risk*
- *Improve real-time fire risk assessment using novel algorithms and multiple data sources*
- *Integrate results with EFFIS and Copernicus EMS*
- *Create a simulation model that accesses real-time data, ranks and forecasts effects of wildfire interventions with prioritisation*

Satellite Observation

Novel Observation
Methods

Granular Long-Term
Fire Risk Forecast

Improved Real-time
Fire Risk Assessment

EFFIS & Copernicus
EMS Integration

Interactive Fire
Intervention Simulator

Wildfire Guardian

- Existing consortium:
 - Proposed coordinator: *Innova Integra (UK, provisional)*
 - Partners / Other participants:
 - Leading UK climate research university
 - SME for simulating fire interventions
- Looking for partners with the following expertise/ technology/ application field:
 - *Technical contributors with specific ideas for*
 - *Secondary data sourcing*
 - *Wildfire risk forecasting*
 - *Contacts at relevant bodies and domain experts*

Integrated Disaster and Emergency Risk Management for Explosive Events

- Proposor: *Ahmed Tawfik*
- e-mail: *ahmed.tawfik@emi.fraunhofer.de*
- Speaker: *Marc Thielen*
- e-mail: *marc.thielen@emi.fraunhofer.de*
- *Fraunhofer EMI*
- Role: *technical coordinator*

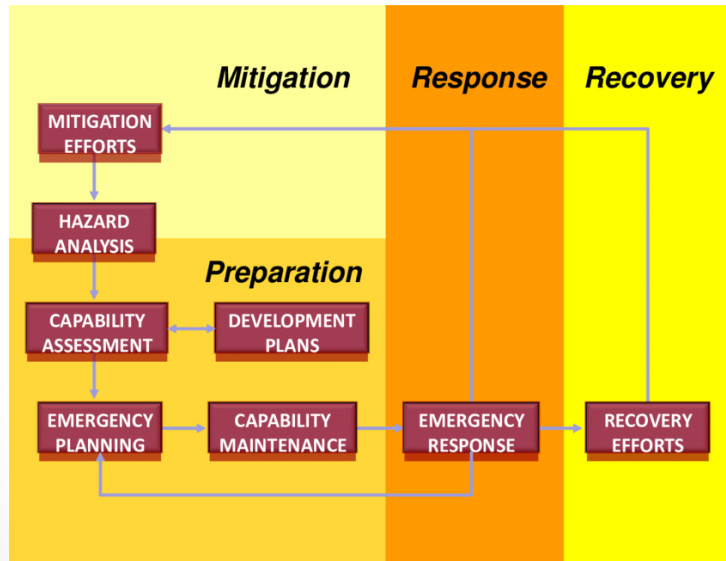
- Topic to be addressed: CL3-2025-01-DRS-02: Open topic on Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience

Proposal idea/content

- *Scope: Improved **risk governance**, **adaptation**, and **resilience** against disasters and crises linked to **natural causes** or **human-made threats** (CBRN-E).*
- *Focus: human-made „**Explosive**“ threats.*
- *Objective: Develop and implement **tools** to enhance **forecasting**, improve **understanding** of **explosive threats**, and **adapt emergency systems** for effective **disaster prevention**, preparedness, and response.*
- *Outcome: Explosive disaster management tool featuring, hazard prediction, response plans, communication systems, training and simulation module, reporting tool, public safety information, etc.*
- *Contribution **Fraunhofer EMI**:*
 - *Threat assessment → past events (potential explosive threats, including terrorist actions, industrial accidents, or military conflicts)*
 - *Vulnerability analysis → vulnerable assets/buildings*
 - *Risk analysis → scenarios definition, explosion impact (physical effects), structural assessment*
 - *Development of a **hazard prediction tool**, integrated in an explosive **disaster management tool***

Proposal idea/content

- *Four phase emergency management cycle mapped on to an Integrated Emergency Management System IEMS*



@Lee et al. 2012

Coordination among stakeholders.

Multi-disciplinary approach addressing the complex nature of the emergency (risk management, resilience, cascading effect,..)

Community involvement (emergency responders, disaster management authorities,..)

Training, demonstrating and validating (volunteer organizations, citizens,..)

Project participants

- Potential consortium:
 - Proposed technical coordinator: Fraunhofer EMI
 - Potential Partners / Other participants:
 - Disaster management authorities
 - Volunteers' organizations
 - Emergency responders
- Looking for partners with the following expertise/ technology/ application field:
 - Integrated Emergency Management Systems (IEMS)
 - Resilience strategies
 - Cascading disasters
 - Real-time Monitoring Systems

RESCUER - VR technologies supported by AI solutions for emergency services to assure seniors and people with disabilities safety in cross – border mountain areas in case of disasters and crises.

- *Ewelina Widerska*
 - *ewiderska@wsb.edu.pl*
 - *WSB University – leader of Q-Helix European University Alliance*
 - *Role: Project coordinator*
-
- Topic to be addressed: **HORIZON-CL3-2025-01-DRS-02: Open topic on Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience**

RESCUER - VR technologies supported by AI solutions for emergency services to assure seniors and people with disabilities safety in cross – border mountain areas in case of disasters and crises.

- Project main goal would be to improve disaster risk management by development of **VR scenarios** for emergency services working in cross-border mountain areas to enable them to better ensure the **safety of seniors and people with disabilities** in the mountains in case of different disasters and crises;
- Project will address Quintuple Helix baseline (the political system, the educational system, the economic system, the environment, and a media- and culture-based society) to improve early warnings and long-term planning linked to natural causes or to human-made threats (including CBRN) on risk governance in **border territories** with special focus on **mountain border areas (Polish-Czech-Slovak borders)**.

Project participants



- Existing consortium:
 - Proposed **coordinator**: *WSB University*
 - **Partners/Other participants**: *Universities and stakeholders from Q-Helix European University Alliance*
<https://www.linkedin.com/company/q-helix/>
 - **Local authorities, NGOs and emergency services from Polish-Czech-Slovak mountain border areas.**
- Looking for partners with the following application fields:
 - *Academic partners ready to work on VR scenarios*
 - *End users – **especially emergency services** – to test the tool*

CBRN MED-HUB

- **Michał Bijak**, PhD, DSC, Prof. UL
- University of Lodz
- michal.bijak@biol.uni.lodz.pl
- Role: Proposal coordinator

Destination of interest:

HORIZON-CL3-2025-01-DRS-02



**BIOHAZARD PREVENTION
CENTRE**

University of Lodz



Proposal Idea

Enhancing Medical Service Readiness for Large-Scale CBRN Events



Threat Identification
List of most dangerous and
likely “agents of opportunity”



Detection Tools
Simple and affordable
identification tools



Treatment Resources
Mobile EU-standardized
meds + treatment schemes
(long shelf-life)



Logistics & Response
Rapid support mechanisms
for regional/EU medical hubs



Preparedness Capacity
Training & simulation
exercises



**Improved Medical
Response to CBRN
Mass Casualty Events**

Needs and interests



BIOHAZARD PREVENTION
CENTRE
University of Lodz



- Identification of dangerous goods logistic and operators,
- Cost-effective identification technologies (for a selected number of agents),
- Access to the best available medical countermeasures,
- Emergency EU-level Logistics,
- Effective crisis management strategies,
- Cross-border emergency cooperation.



Consortium

Coordinator:

- University of Lodz, **Biohazard Prevention Centre**

Partners:

- Medical University of Lodz, Military Medical Institute,
- Polish Police,

Looking for partners with the following expertise:

- Medical countermeasures manufacturers,
- Medical Institutes,
- Emergency logistic,
- Crisis management,
- Cross-border emergency cooperation,
- LEAs, Firefighters, Civil protection, EMS,
- Dangerous goods logistic and operators.





Resilience **A**ssessment and **V**alidation for Environmental and **N**uclear threats

HORIZON-CL3-2025-01-DRS-03

Maria Ustenko

maria.ustenko@zanasi-alessandro.eu



Role: Technical and Scientific Coordinator

6&7 May 2025, Paris

SMI2G 2025

Rationale and Aim



Rationale

- *CBRN-E planning tools need research-based adaptation*
- *Multi-risk environments require resilient and innovative preparedness solutions*
- *Growing CBRN-E threats demand scientific validation*



Aim

- **Participatory CBRN-E planning frameworks**
- **National Hybrid Exercises**
- **Strengthen disaster risk governance**

RAVEN Approach



Research-based toolkit customization

- Analysis of practitioner need and contextual adaptation of the toolkit



Participatory development of CBRN-E scenarios

- Co-design of National CBRN-E risk governance models with authorities and practitioners



Innovative National Hybrid Exercises

- Combination of tabletop (strategic) and field (operational) CBRN-E scenarios



Assessment and validation

- Scientific validation through practitioners feedback, mid-term review and final validation



Policy integration

- Recommendations for EU/National policy alignment and uptake

Project Participants

- Existing consortium:
 - Zanasi & Partners (Z&P) – Italy
 - Technical and Scientific coordinator
 - UNICRI – United Nations Interregional Crime and Research Institute - Italy
 - Anti-Phishing Working Group European Foundation (APWG.EU) – Spain
 - LAC – Latin America/African & Centra Asia Countries
 - Universidade Federal do Rio de Janeiro – Brazil
 - University of Abuja – Nigeria
 - CBRN SSA – Tajikistan
 - Government agency – of Uzbekistan & Kazakhstan
 - Ambulance and Emergency Physicians Association – Turkey
 - Pompiers de l'Urgence Internationale (PUI) – France
 - SSH Dept. UNIMORE – Italy
 -
- Looking for partners with the following expertise/ technology/ application field:
 - Administrative **Coordinator**

Wildfire



DRS-02-
Option A

Andrew Staniforth, Director

andy@saher-eu.com

SAHER (Europe)

Pre-submission Coordinator



SAHER
EUROPE

HORIZON-CL3-2025-01-DRS-02:

Open topic on Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience. **Option a:** Enhanced impact forecasting and early warning systems, understanding of climate / weather extreme events and geohazards and adaptation of emergency systems for disaster prevention and preparedness.

Wildfire



DRS-02-
Option A

New proposal to be based on the current work within the **WILDCAT** (***WILDfire preparedness and prevention framework for unmanned vehiCle pLATforms***) project funded through the Swedish Institute Baltic Sea Neighbourhood Programme Cooperation Projects - the **DRS-02-Option A** proposal will focus on:-

- **Next-gen wildfire prevention & detection**
- **Next-gen climate change preparedness**
- **Hybrid security/warfare/conflict threats**
- **Drone application & adoption**
- **Policy, training & playbook toolkit**



Wildfire



DRS-02-
Option A

Current consortium:-



XAI / KhAI – UKRAINE – Drone & AI expertise



SAHER (Europe) – ESTONIA – Security innovation



KTH University – SWEDEN – Technology & research

Looking for partners from **firefighter drone units** and with **wildfire expertise**, partners with **wildfire research expertise**, partners with **wildfire case study / training expertise**

RiverLink

- Ana LUCÍA VELA
- a.lucia@igme.es
- Geological and Mining Institute of Spain (IGME, CSIC)
- WP leader
- Topic to be addressed: *HORIZON-CL3-2025-01-DRS-02*
- Enhancing Flood Resilience and Adaptation Through Advanced River Monitoring



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



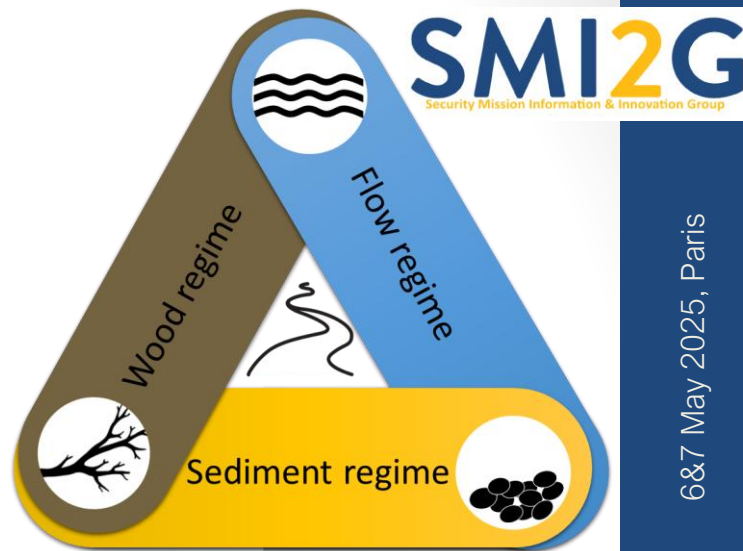
IGME
INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA



RiverLink idea

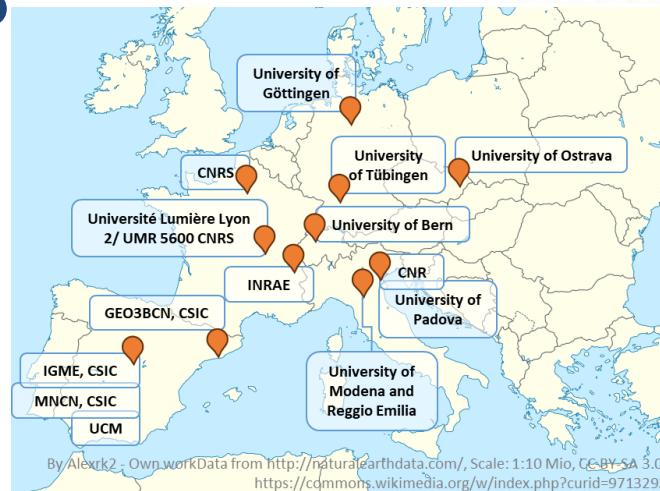
We aim to revolutionise river monitoring and flood risk management by integrating:

- **Advanced sensor networks** for real-time data about water, sediment and wood discharge in rivers.
- **AI-driven predictive models** to anticipate flooding events.
- **Multi-stakeholder collaboration** between public authorities, civil protection agencies, and private tech firms.
- **Citizen engagement platforms** to enhance awareness and community-based early warning systems.
- Our goal is to **improve preparedness, response, mitigation and adaptation strategies** by ensuring **data-driven decision-making** for flood-prone regions



Project participants

- Existing consortium:
 - EU network of 16 **scientists** from 12 universities and research centers of 6 countries Extensive experience in river monitoring, natural hazards and hydrological modelling
- We are looking for a coordinator and partners
 - **Civil protection agencies** for disaster response integration.
 - **Technology providers** specialized in remote sensing, IoT, and AI.
 - **Municipalities & water management authorities** for pilot testing and implementation.
- Join us to build a **resilient and adaptive flood management system** across Europe!



CL3-DRS -01-02b: Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience

- *Dr Andria Hadjithekli*
- A.Hadjithekli@ianus-technologies.com
- *IANUS Technologies Ltd*
- *Role: Proposal Coordinator*

- Topic to be addressed: *CL3-DRS-01-02b*

Proposal idea/content

The main aim of the proposal would be to focus on a system that transforms disaster risk management by integrating real-time data, predictive analytics, and adaptive response strategies.

Vision:

Empower authorities, emergency responders, and communities with advanced intelligence to anticipate, adapt, and act faster and smarter.

Impact:

- ✓ Proactive Preparedness
- ✓ Coordinated Response
- ✓ Community Resilience
- ✓ Enhanced risk governance

Project participants

- Existing consortium:
 - Proposed coordinator: *IANUS Technologies Ltd (Cyprus)*
 - Technology provider (Greece)
 - Urban municipality (Greece)
 - Urban municipality (Italy) – [tbc]
 - Volunteer Organisation (Spain) – tbc
 - SSH (Cyprus) – tbc
- Looking for partners with the following expertise/ technology/ application field:
 - AI technology providers
 - CBRN Centres
 - CBRN-E Specialists
 - Citizen Volunteer Organisation
 - Public Policy & Governance Experts
 - Emergency Responder
 - Geospatial & Remote Sensing Analysts

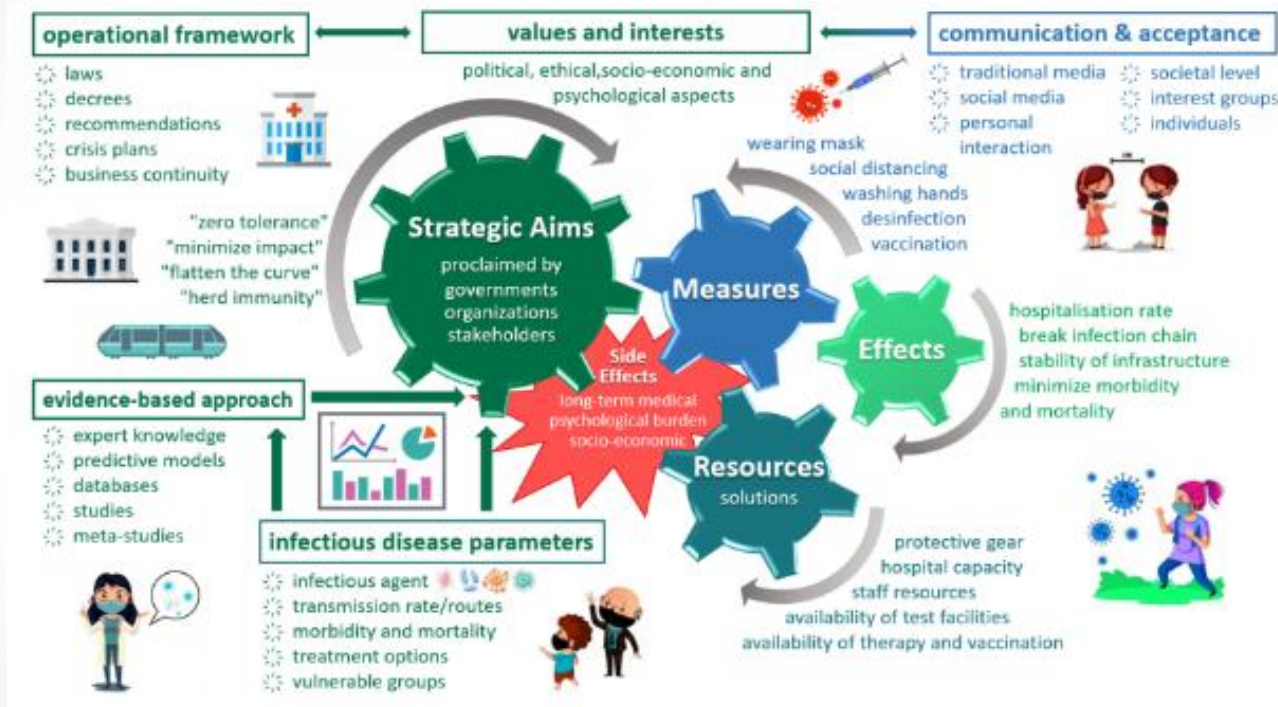
Decision Support for Crisis Management

- Georg Neubauer
- georg.neubauer@ait.ac.at
- *AIT Austrian Institute of Technology GmbH*
- Destination of interest: CL3-DRS-2025, Disaster Resilient Society for Europe
- CL3-2025-01-DRS-02, Open topic on improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience
- Or Destination of interest: CL1-HLTH-2025, Tackling Diseases and Reducing Disease Burden
- *CL1-HLTH-2025-01-DISEASE-04, Leveraging AI for pandemic preparedness and response*

Proposal idea/content

- Support preparedness for upcoming crisis & disasters encompassing pandemics by AI enhanced decision support
 - Automating data consolidation process
 - AI enhanced matching of crisis management measures and solutions
- Enhance the ability and preparedness to manage crisis and disasters
- Enhance the ability to tackle and manage complex crisis such as failure or fragmentation of infrastructure and/or supply support or outbreak of diseases, achieved by better understanding, prevention and management

Example of Dependencies



Taken from Rainer et al 2023, From Strategic Planning to Tackling Pandemics, IDIMT 2023,

<https://idimt.org/wp-content/uploads/2023/08/IDIMT-2023-proceedings.pdf>

The research leading to these results has received funding from KIRAS Cooperative R&D Projects 2021 with project number FO999899442

Project participants

- Existing consortium:
 - Intended role of AIT: WP leader, partner
 - Proposed coordinator: to be identified
 - Partners / other participants: Austrian Agency for Health and Food Safety, Austrian ministry of Social Affairs, Health, Care and Consumer Protection?
- Looking for partners with the following expertise/ technology/ application field:
 - international crisis managers
 - IT developers, AI experts

Enhanced Early Warning System for Disaster Risk Management and Resilience – Tentative title

- *José María García*
- *jgarcia@aitex.es*
- *AITEX – Research & Innovation Center*
- *Role: Proposal coordinator / WP leader*

- *Topic to be addressed: HORIZON-CL3-2025-01-DRS-02: Open topic on improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience*

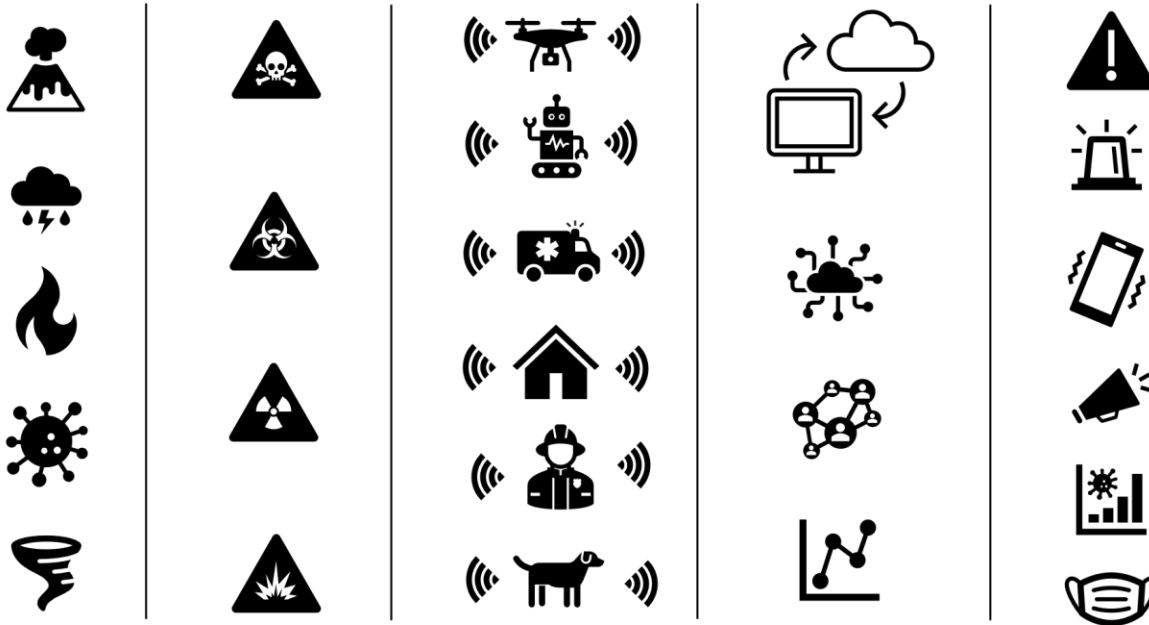
Proposal idea/content

Enhanced Early Warning System for Disaster Risk Management and Resilience – Tentative title

- Enhanced Disaster Risk Management & Resilience
- Self-sufficiency and Sustainability of Operations
- Improved Early Warning Systems
- Natural / Human-Made / NaTech Scenarios
- Multi-risk Environment / Cascading Disasters
- Impact Assessment
- Open topic → New / Disruptive / Out-of-the-box ideas
- CBRN-E
- Disaster Prevention Preparedness and Response

Proposal idea/content

Enhanced Early Warning System for Disaster Risk Management and Resilience – Tentative title



Project participants

- Existing consortium:
 - Proposed coordinator: *AITEX / Other partner? (to be discussed)*
 - Partners / Other participants:
 - Industry (Spain) – Technology provider
 - Industry (Italy) – Technology provider
 - RTO (Norway) – Technology provider
 - SME (Spain) – Ethics
 - Emergency service (Portugal) – End user (first responders)
 - SME (Ireland) - Networking
- Looking for partners with the following expertise/ technology/ application field:
 - End users (first responders, emergency services, LEAs, etc.)
 - Disruptive technology providers
 - Partners with experience in Copernicus, Galileo, EGNOS, etc.
 - Partners from Latin America, African, Caribbean and Central Asian countries
 - Others

DRS-01-03

Open topic on testing / validating tools, technologies and data used in cross-border prevention, preparedness and responses to climate extreme and geological events and chemical, biological or radiological emergency threats

Presenters:

DRS-01-03	Kostolný, Martin	kostolny@isemi.sk
	Hoeflinger, Fabian, Presenter: Hein, Eva	Fabian.Hoeflinger@emi.fraunhofer.de (Eva.Hein@emi.fraunhofer.de)
	Vyron, Antoniou	vyron.antoniou@eurodyn.com
	Angelescu, Dan	d.angelescu@fluidion.com
	Stela, Maksymilian	maksymilian.stela@biol.uni.lodz.pl
	Ustenko, Maria	maria.ustenko@zanasi-alessandro.eu
	Hercelin, Philippe	philippe.hercelin@idemia.com
	Bashiri, Mahdi	mahdi.bashiri@coventry.ac.uk
	Galtier, Antonin	antonin.galtier@cea.fr
	Selim Balcisoy (not present)	balcisoy@sabanciuniv.edu

Intelligent control of traffic light intersections

- *Dávid Kalužník, Ján Zoleík (proposers) / Martin Kostolný (speaker)*
- kostolny@isemi.sk, david.kaluznik@minv.sk
- *District Directorate of the FRS in Žilina / ISEMI*
- *Role: WP leader, Task leader, end-user, (S/T provider)*
- **HORIZON-CL3-2025-01-DRS-03**



Preferential traffic light control for the needs of FRS (rescuers) responding to an adverse event with an activated sound and warning light device. The proposed solutions can bring an increase in efficiency and safety during the journey of the units dispatched to the intervention, as often even the right of way is not a guarantee of a safe exit from the fire station and transfer to the intervention site.

Proposal idea/content

- This is an idea based on real need
- It could be part of a more comprehensive solution
- **Problem:** Deployment of fire and rescue equipment/vehicles within the city and during heavy traffic. The intersections are stuck, cars are waiting for the green light. It is not possible to create an escape lane.
- **Solution:** Intelligent traffic light control. Required lane has green, until the rescuers pass. Same for next intersections.
- **Precondition:**
 - In Žilina, there already exists similar system, but only for public transport vehicles and in a slightly different mode.
 - Sensors built into the road communicate with on-board units in vehicles and compare the findings with the timetable. The system adjusts the traffic flow at traffic lights according to current needs.



Proposal idea/content

Tasks to do:

- to analyse use of existing sensors already installed in the roads
- to analyse use of existing on-board control units
- to improve sensors and on-board control units for use by rescuers
- to analyse / develop control system, including integrations
- to provide set of tests
- to provide validation and final demonstration
- to prepare analysis for wider use of such a solution within the EU
- to prepare exploitation strategy
- to exchange experiences and disseminate findings



Project participants

- Consortium (subjects ready to participate):
 - Presidium of Fire and Rescue Service – Ministry of Interior of SR
 - ISEMI
 - City of Žilina
 - ALAM (InVipo platform)
- Looking for partners:
 - with the similar need and/or infrastructure to implement this idea
 - providing more general solution for management of responders' deployment

We are looking for consortium / project proposal, into which this idea could be integrated.

Development of a flying search radar system

- *Dr. Ivo Haering, Dr. Fabian Hoeflinger*
Ivo.haering@emi.fraunhofer.de, Fabian.hoeflinger@emi.fraunhofer.de
*Fraunhofer Institute for High-Speed Dynamics,
Ernst-Mach-Institute, EMI, 79588 Efringen-Kirchen, Germany*
- **Role:** *Proposal technical coordinator, Project Coordination (Open)*
- **Topic to be addressed:** *HORIZON-CL3-2025-01-DRS-03 / Option b:
Miniaturized sensors for threat detection and victim identification*
- avalanche or mudslide
- NFC-based localization
- Drone-assisted detection
- Search and rescue (SAR)



NOVARES- NFC-based Autonomous Victim REScue System (TRL 7-8)

Problem/ Call requirements addressed: Threat detection and victim identification (Opt. b)

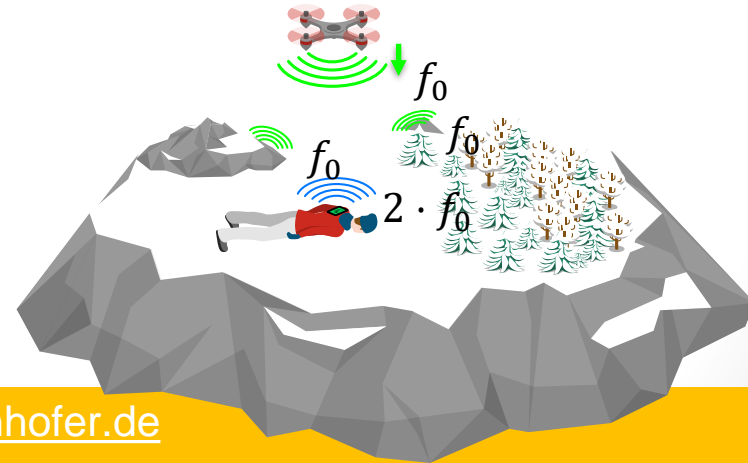
- During the transitional months, there is an increased risk of being buried by avalanches or mudslides in mountainous regions.
- Although avalanche victim search devices (LVS devices) have been in use for over 30 years, not all mountain sports enthusiasts carry such devices, making rescue operations more difficult.
- Lost/ Immobile/ Disoriented person search in case of severe weather events or civil security disruption events.

Innovative Approach:

- Almost all winter sports and persons in general enthusiasts carry ski lift passes or credit cards with NFC technology. The project aims to utilize these existing NFC/RFID chips for the rapid location of buried individuals.

Technical Implementation:

For the first time, an autonomous flying search radar system is being developed to enable precise localization of passive NFC transponders. The UAV autonomously scans with AI large areas, providing real-time location data to first responders for improved coordination.



Project participants

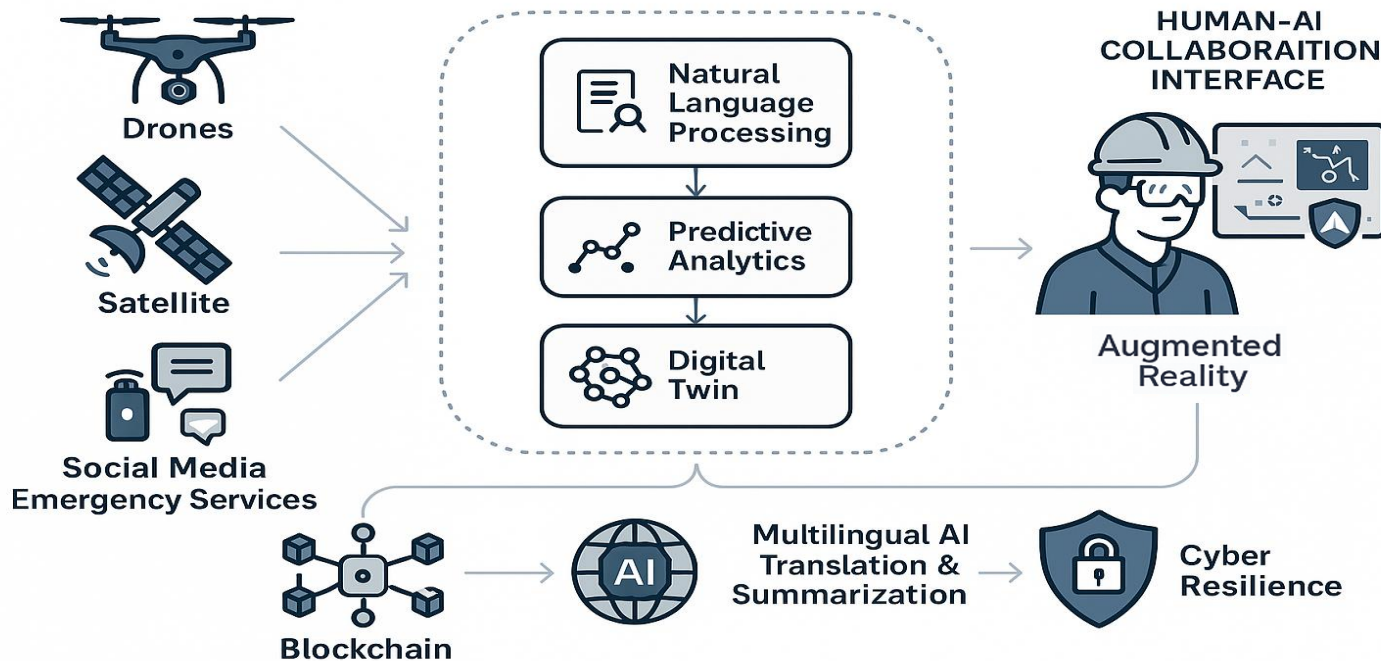
- **Existing consortium with GERMAN-Partners:**
 - Fraunhofer: Experts in RF & Measurement Technology, Sensor Technology / Coordinator (Open)
 - SME Company with expertise in localization
 - (Optional SME Company specializing in drone technology or radar systems)

- Looking for **International** Partners with Expertise in:
 - First Responders & Emergency Services (e.g., mountain rescue teams, fire departments)
 - Cities and Regions with Snowfall or past Landslides (for real-world testing and implementation)
 - Companies Specializing in:
 - RF Technology (Radio Frequency-based localization & NFC applications),
 - Drone Technology (for autonomous search & rescue missions),
 - Communication Systems (to ensure real-time data transmission)....

AI-STAR

- *Dr. Vyron ANTONIOU*
- *vyron.antoniou@eurodyn.com*
- *European Dynamics*
- *Role: Proposal coordinator*
- *Topic to be addressed: CL3-DRS-01-03 (Option A)*
- *Develop an adaptive **AI**-powered multi-hazard **s**upport system that integrates real-time data from multiple sources to provide first responders with a **t**ailored, **a**utomated, **r**eal-time situational awareness, risk assessment and intervention planning tool.*

AI-POWERED MULTI-HAZARD SUPPORT SYSTEM FOR FIRST RESPONDERS



Project participants

- Existing consortium:
 - Proposed coordinator: European Dynamics
 - Partners / Other participants: SMEs and Academia covering technological requirements of the call.
- Looking for partners with the following expertise/ technology/ application field:
 - *First Responders (incl. Fire Departments, Medical, Humanitarian etc.)*
 - *SMEs focusing on:*
 - *Case/Call Specific AI/ML platforms*
 - *Geological, Environmental & CBR threats*
 - *Situational Awareness and Planning*
 - *Standardisation Organisations*
 - *Disaster Risk Reduction communities*

AQUA-RESPOND

Assessing QUality of wAtEr for RESilient Preparedness and ON-Demand deployment

- *Dan E. Angelescu*
- *d.angelescu@fluidion.com*
- *Fluidion (SME based in Paris, France)*
- *Role: Proposal coordinator*



- Topic to be addressed: **HORIZON-CL3-2025-01-DRS-03 Innovation Action**. Estimated budget 13,5 M€ (3 Projets X 4.5 M€)

Testing / validating tools, technologies and data used in cross-border prevention, preparedness and responses to climate extreme and geological events and chemical, biological or radiological emergency threats

Option b: Miniaturized sensors for threat detection and victim identification;

and **Option a:** Use of artificial intelligence (AI) / machine learning (ML) tools to support first responder's analysis, planning and decision-making;

SMI2G 2025, 6&7 May 2025, Paris

SMI2G 2025

6&7 May 2025, Paris

Proposal idea/content

A unified instrumentation / data management / communication / standardization approach to address water quality (WQ) assessments in crisis-affected areas

- *Field-deployable handheld and connected WQ analyzers for assessing microbiological and chemical risks*
- *World Health Organization ASSURED framework (Affordability, Sensitivity, Specificity, User-Friendliness, Rapidity)*
- *Multi-scale communication: robust local / global transmission of geotagged and timestamped WQ data*
- *AI-enhanced hot-spot detection and predictive WQ modeling*
- *Test deployment and optimization in EU experimentation territory*
- *Operational deployment with first-responder and non-government organizations in crisis-affected areas*
- *SSH analysis of social impact and global impact optimization*
- *Solution standardization for global upscaling and adoption*

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SMI2G 2025

• 6&7 May 2025, Paris

Proposal idea/content

Handheld connected
WQ analyzers

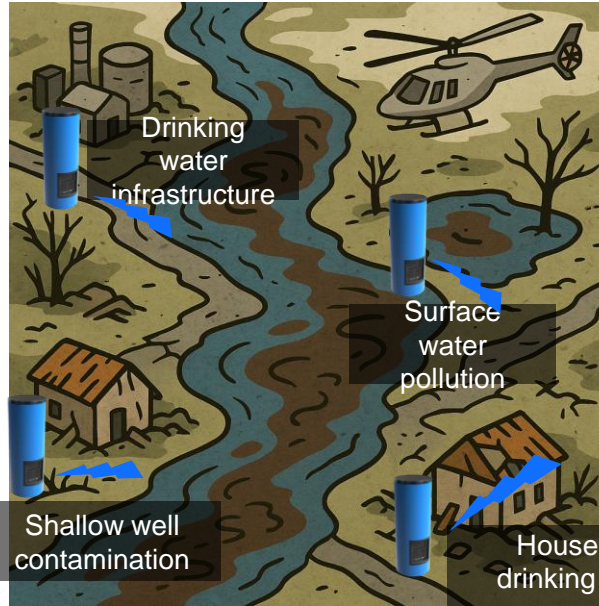


- Fecal indicator bacteria
- Specific pathogens
- Residual chlorine
- Heavy metals
- Organics analysis
- Specific chemical contaminants

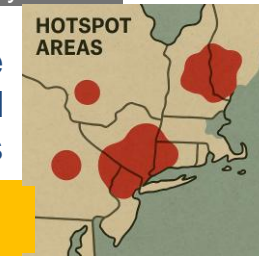
First-responder
and local NGO
involvement



Operational field deployment



Centralized real-time
data dashboards and
AI-enhanced analysis



Multi-scale
communications

SMI2G 2025, 6&7 May 2025, Paris

SMI2G 2025

• 6&7 May 2025, Paris

Project participants

- Existing consortium:
 - Coordinator: **Fluidion** (water quality sensors and ML expertise)
 - Partner: **African Youth Initiative Network** (field demonstration, SS)
 - Partner: Real-scale testing territory in the European Union (TBA)
 - Partner: Research institute (AI-based predictive water quality) (TBA)
 - Partners: First-responder organizations (TBA)
- Looking for partners with the following expertise:
 - Academic partner or SME: rapid risk detection technologies (bio / chem)
 - Social Science institute with expertise in crisis management
 - SME with deployment / field demonstration capabilities in e.g. Ukraine
 - Consultant with experience in policy / regulation / standardization



SMI2G 2025, 6&7 May 2025, Paris

SMI2G 2025

6&7 May 2025, Paris

CBRN detection validation and alerting

- **Maksymilian Stela**, Senior expert
- University of Lodz
- maksymilian.stela@biol.uni.lodz.pl
- Role: Proposal coordinator



**BIOHAZARD PREVENTION
CENTRE**

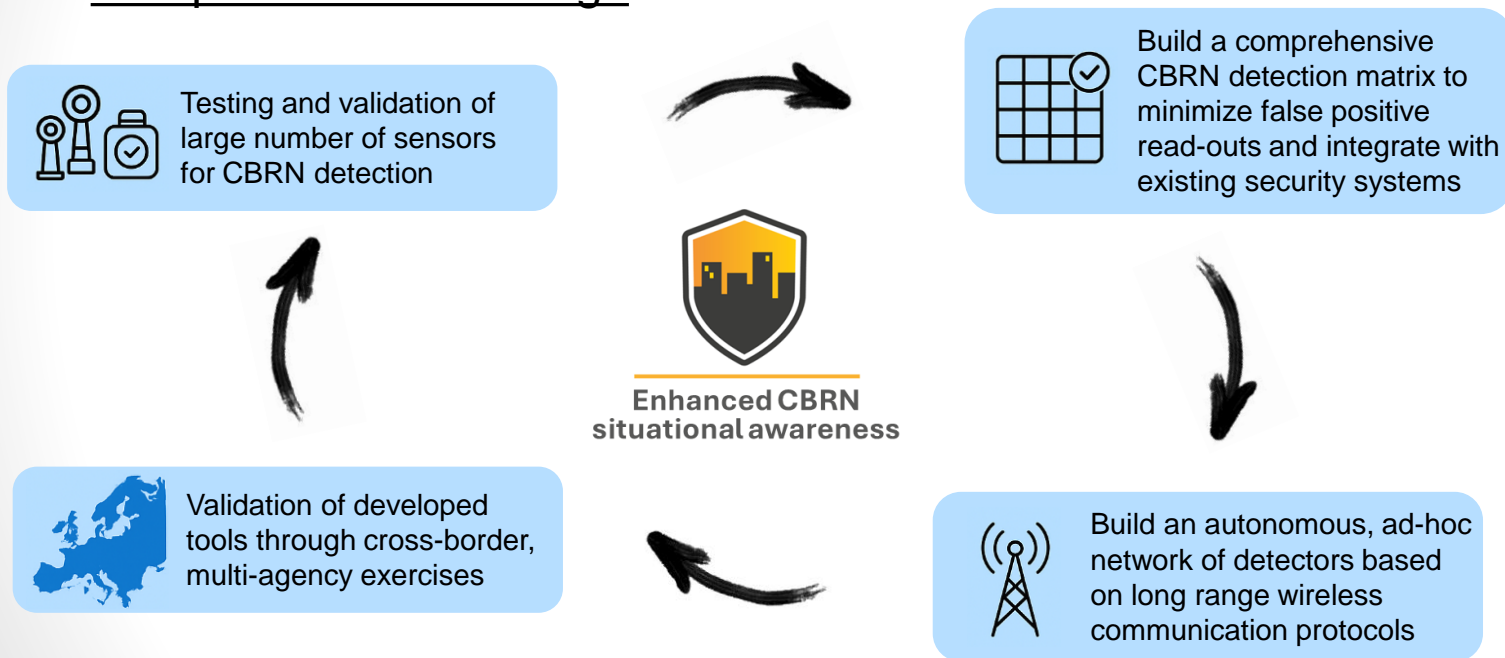
University of Lodz

Destination of interest:

HORIZON-CL3-2025-01-DRS-03

Proposal Idea

Increasing CBRN situation awareness of local, regional
and European bodies through:



Consortium

Coordinator:

- University of Lodz, **Biohazard Prevention Centre**

Looking for partners with the following expertise:

- **Certified CBRN Laboratories**
Authorized to handle toxic agents, ideally including Chemical Warfare Agents (CWAs).
- **Developers of IT-Based Crisis Management Platforms**
Experience with secure, interoperable information-sharing systems for emergency response.
- **Experts in Crisis Management & Cross-Border** Emergency Operations
Proven capacity for international coordination and multi-agency readiness.
- **AI & Machine Learning Developers**
Focused on threat prediction, sensor data fusion, and decision-support systems.





**BiologicAI and Synthetic threats Integrated
with Local Infrastructure Security Kit**

HORIZON-CL3-2025-01-DRS-03

Maria Ustenko

maria.ustenko@zanasi-alessandro.eu



Role: Technical and Scientific Coordinator

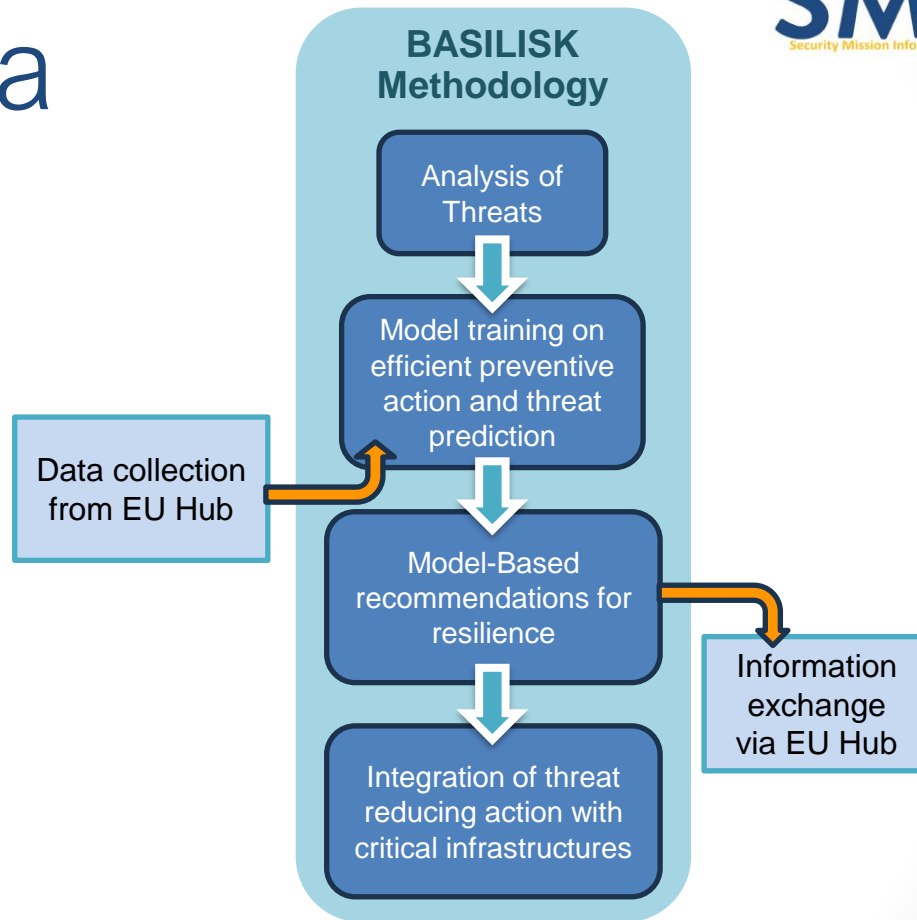
6&7 May 2025, Paris

SMI2G 2025

BASILISK Idea

Deliver both **AI-Driven predictive modelling** and **ML tools** to prevent and resolve **CBRN** threats, physical and cyber

- AI/ML algorithms for real-time anomaly detection
- Predictive modelling of agent spread
- Centralised EU information hub for CBRN threats
- Integrations with Critical Infrastructures



Project Participants

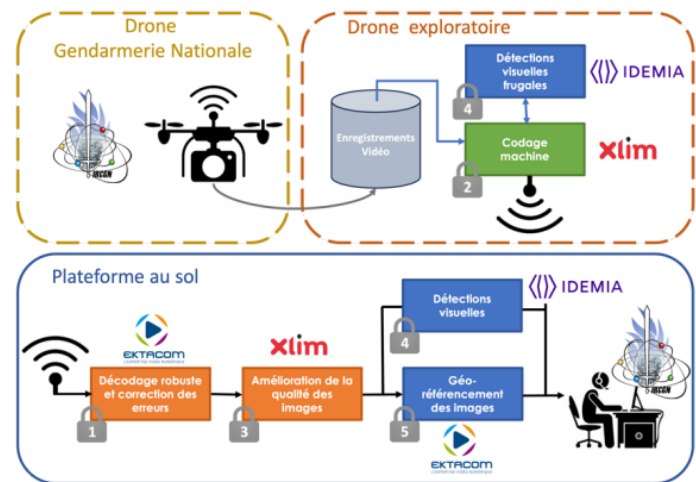
- Current consortium
 - Zanasi & Partners (Z&P) – Italy
 - Technical and Scientific coordinator, WP Leader
 - LAC – Latin America / African & Central Asia countries
 - Universidade Federal do Rio de Janeiro - Brazil
 - University of Abuja - Nigeria
 - CBRN SSA - Tajikistan
 - Government agency – of Uzbekistan & Kazakhstan
 - Izmir Democracy University, Department of Public Health – Turkey
 - Pompiers de l'Urgence Internationale (PUI) France
- Looking for:
 - Administrative **Coordinator (cascading funds expert)**
 - **AI/ML** expertise
 - SMEs

Maximise Aerial surveillance efficiency in Disasters And cataclysms

- *P. Hercelin*
 - Philippe.hercelin@idemia.com henri.claudot@idemia.com
 - **Destination of interest:** HORIZON-CL3-2025-01-DRS-03: Open topic on Testing / validating tools, technologies and data used in cross-border prevention, preparedness and responses to climate extreme and geological events and chemical, biological or radiological emergency threats
 - Most probably fitting also with HORIZON-CL3-2025-01-BM-01: Open topic on efficient border surveillance and maritime security
 - **Option a:** Use of artificial intelligence (AI) / machine learning (ML) tools to support first responder's analysis, planning and decision-making;
- or/and
- **Option c:** Information exchange / Communication among first responders in a reliable, secure and universal way, and cross-border emergency communications;

Proposal idea - content

- *It is rarely possible to identify a victim of a major disaster by visual recognition; fingerprints, dental records or DNA samples are often required for a conclusive identification.*
- *The project aims to study and develop an efficient and operational processing chain to manage the flow of data from acquisition to the detection of objects/people and their location, based on the latest technologies and artificial intelligence (AI)*
- *Envisioned use cases:*
 - Coastal surveillance
 - Disaster site monitoring.
 - Extreme conditions such as battlefield or industrial catastrophe areas



Project participants

- Existing consortium:

- Proposed partners:

- *Idemia Public Security (coordination)*
 - *French National Gendarmerie IRCGN*
 - *Ektacom*
 - *Poitiers University*



Xlim



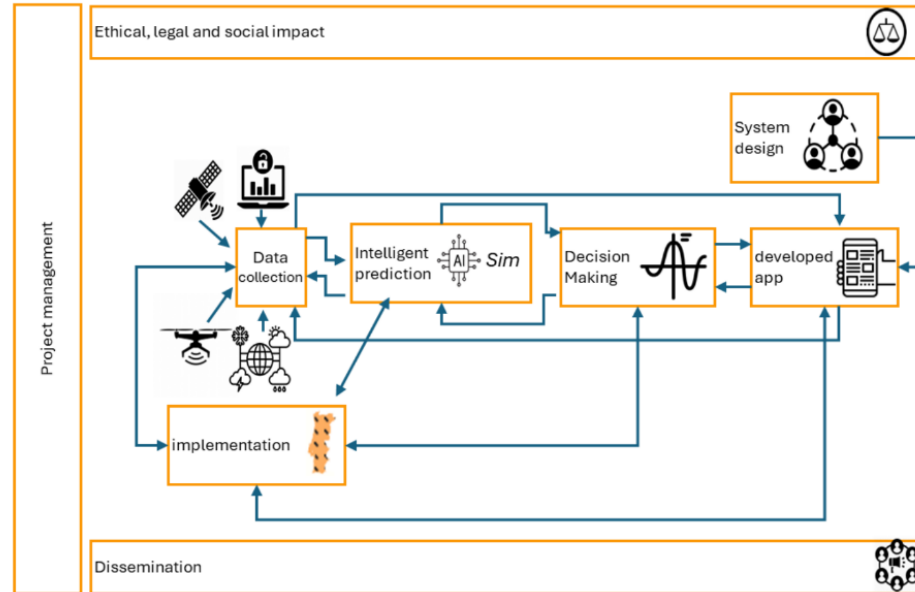
- Looking for partners with the following expertise/ technology/ application field:

- Dronic service provider (cloud, autopiloting...)
 - Ethical & legal devoted to the domain
 - End-users with previous experience in dronic approach for DRS

- *Mahdi Bashiri*
- *Mahdi.Bashiri@coventry.ac.uk*
- *Coventry University*
- Role: *Proposal coordinator*
- Topic to be addressed: HORIZON-CL3-2025-01-DRS-03

Proposal idea/content

- This project will develop technology aimed at reducing wildfire risk through preventive actions. It will utilize emerging technologies for prediction and monitoring



Project participants

- Existing consortium:
 - COVENTRY UNIVERSITY (Coordinator)
 - Two Universities in Portugal
 - University of Leicester
 - TU/e Netherlands
 - A company from Greece
 - A company from Finland
 - A company from Spain
 - A company from UK
 - Two companies from Portugal

- Looking for partners with the following expertise:
 - A standardisation organisation
 - A company to enhance technological advancement
 - A company to help us with AR/VR technology

Artificial Intelligence for Disaster Resilience Rescues

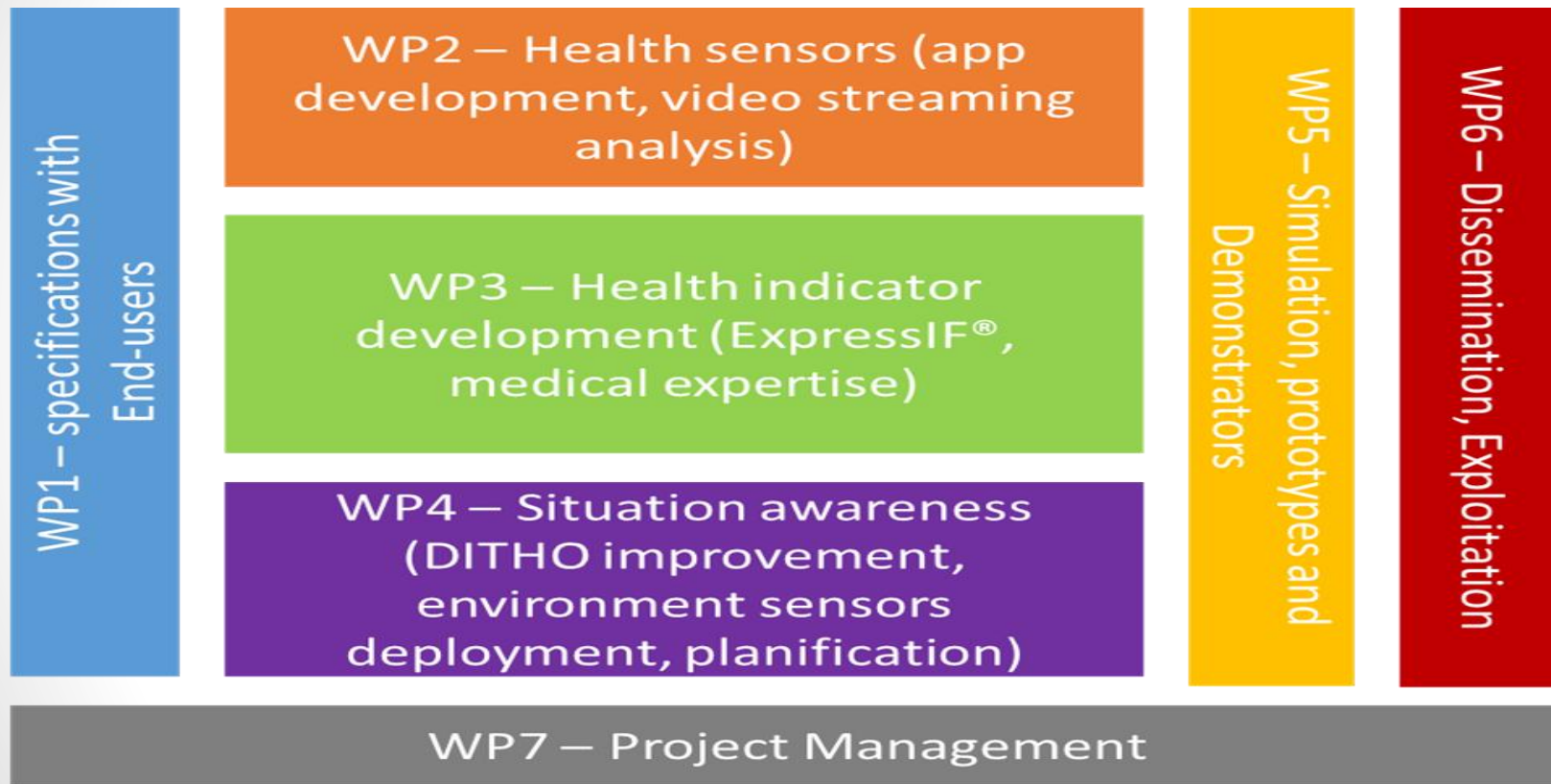
- Laurence Cornez / Antonin Galtier
- Laurence.cornez@cea.fr ; antonin.galtier@cea.fr
- CEA
- Role: *Proposal coordinator*

- HORIZON-CL3-2025-01-DRS-03 (**option A**):

Open topic on Testing / validating tools, technologies and data used in cross-border prevention, preparedness and responses to climate extreme events and chemical, biological or radiological emergency threats by different practitioner's sectors (Innovation Action, budget 4.5M€/13.5M€)"

The scope is on the use of AI and ML tools, ground technologies such as miniaturised sensors for threat detection (e.g. CBRN) and/or identification of victims. In addition, the exchange of information among responders and cross-border is expected.

Proposal idea/content



Demo / use cases

- **USE CASE 1 : Chemical disaster**

- *Location : SEVESO site Pays de la Loire (France)*
- *Interest : not forecasted, transport network conserved*
- *Step 1 : alerts (victims' feedback) + first rescue deployment*
- *Step 2 : disaster evaluation (satellite ? + drone + victims' feedback) ; victims estimation (number and health indicator) ; hospital capacities*
- *Step 3 : first responder deployment (logistic aspects : equipment, teams involved, planification) and continuous monitoring of the disaster*
- *Step 4 : on site, decision making helpers (BIM locally ?, Innov algorithm)*
- *Step 5 : hospital arriving transmission to emergency service (to be define if it is interesting or not to consider this part)*

- **USE CASE 2 : Flooding**

- **USE CASE 3 : Earthquake** (e.g. Lisbon Portugal)

Project participants

- **Existing consortium:**

- Proposed coordinator: *CEA (IA platform ExpressIF® to capitalize expertise from different teams, to evaluate Health Indicators, to help for plan first responder deployment, to make reasoning on BIM potentially, to report situation in natural language)*
- Partners / Other participants:
 - *SOPRA: DITHO system (APPRAISE project)*
 - *Gemelli Hospital: RESCUE (&NIGTHINGALE) project*
 - *INOV: mobile app as sensor (+/- APPRAISE project) + decision making helper for rescue team*
 - *SDIS 44: RESCUE project*
 - *French Ministry Ecological Transition Energy and Territorial Cohesion*

Project participants : needs

- **Looking for partners** with the following expertise/ technology/ application field:
 - *Drone: material + video analysis for scene (victim countage, another landscape information)*
 - *First responders' organisations and authorities*
 - *Local or regional authorities in charge of disaster response*
 - *Facilitator for demo including a natural disaster (earthquake? Flooding ?) ; should be cross boarder demo*
 - *Ethic partner (mobile app acceptance, sensitive data, IA trust...)*
 - *Text analysis (from SMS + voice record)*
 - *Photo and video analyis (from victim to evaluate injuries)*
 - *AI generative to build data base (to Health Indicator)*

Also interested in:

- **DRS-03 option B**

Miniaturized Sensors for threat detection and victim identification

- Expertise in NRBC sensors, developing cutting edge threats detection technologies, embedded or not.

- **DRS-03 option D**

Alert Systems to detect CBRN threats

- Expertise in NRBC sensors, with very sensitive systems enabling to detect threats at very low level, easily deployable.

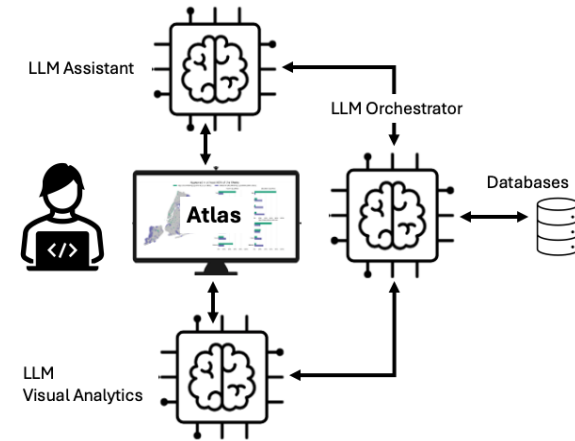
Human-centred AI in next-generation GIS for multi hazard disaster preparedness and response

- *Selim Balcısoy*
- *balcisoy@sabanciuniv.edu*
- *Sabancı University*
- Role: *Proposal coordinator, WP leader*
- Topic to be addressed: **HORIZON-CL3-2025-01-DRS-03**

Human-centred AI in next-generation GIS for multi hazard disaster preparedness and response

The AI4DPR (Human-centred AI in next-generation GIS for multi hazard disaster preparedness and response) project proposes a revolutionary approach to disaster management by integrating state-of-the-art AI and visualisation technologies to improve the preparedness and response to multi-hazard disasters. By addressing the capability gaps defined by the International Forum to Advance First Responder Innovation (IFAFRI), such as integrating information and actionable intelligence, this project aims to enhance situational awareness and improve decision-making for first responders in crisis situations.

Leveraging AI technologies such as **Machine Learning (ML)**, **Large Language Models (LLMs)**, **visual analytics (VA)**, and **Geographic Information Systems (GIS)**, the AI4DPR project seeks to create a unified system that analyses and synthesises data from various sources. This includes social media, socio-economic and administrative data, crowdsourced data, and traditional emergency response databases to provide real-time, actionable insights for disaster response teams. The goal is to significantly reduce the time required for onboarding and to manage the cognitive load of first responders by offering an intuitive, comprehensive and trustworthy overview of the disaster situation, facilitating rapid and informed decision-making.



Project participants

- Existing consortium:
 - Proposed coordinator: Sabanci University
 - Tentative Partners: University of Warwick, Federal University of Rio Grande do Sul, ANDCOM Research and Consulting (First Responders)
- Looking for partners with the following expertise/ technology/ application field:
 - GIS
 - First Responders
 - HCI, Visual Analytics
 - Dissemination, Ethics