



Designing new ways of risk awareness and enhanced disaster preparedness

HORIZON-CL3-2026-01-DRS-01

Program:	Horizon Europe Cluster 3
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	3M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 május 06
Beadási határidő:	2026 november 05
Felhívás linkje:	LINK

Building on the whole-of-society and whole-of-government approach, this topic should contribute to enhancing risk awareness and disaster preparedness through the development of innovative tools, methodologies, and frameworks. A key focus should be on integrating diverse societal and resilience perspectives considering people in vulnerable groups/conditions. Efforts should aim at designing and validating novel approaches to risk perception, communication, including digital platforms, immersive technologies, and participatory tools that foster citizen engagement.

Such a solution should facilitate seamless collaboration between public authorities, civil society, local communities, and the private sector. It must support the co-creation of comprehensive preparedness plans that ensure a coordinated, robust, resilient, and effective response to a wide range of disaster scenarios. Central to this approach should be the integration of a command-and-control system that allows for centralized information management, efficient coordination among all stakeholders, and rapid, data-driven decision-making in emergency situations.

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Multi-hazard approach and cumulative / cascading impacts

HORIZON-CL3-2026-01-DRS-02

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	6
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 május 06
Beadási határidő:	2026 november 05
Felhívás linkje:	LINK

Focus should be on early and anticipatory action, improving the understanding of interactions between meteorological, geophysical, and technological hazards, including their compounding impacts on societies, economies, and critical infrastructure.

Proposals should aim to develop and validate integrated forecasting models, that enhance the prediction and management of multi-hazard scenarios, supports flexibility and extensibility, and coordination of responses by incorporating real-time data, AI-driven analytics, and remote sensing technologies. These models should facilitate improved hazard forecasting by addressing challenges in platform interoperability and data exchange, ensuring that diverse hazard monitoring systems at local, national, and global levels can effectively communicate and operate in synergy.

The topic should lead to the creation of comprehensive Risk and Resilience Metrics, integrating physical, economic, and social dimensions to support decision-makers in designing effective prevention and adaptation strategies.

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Development of innovative tools, processes, equipment and technologies through responses to disasters and emergencies for search and rescue in hazardous conditions

HORIZON-CL3-2026-01-DRS-03

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026 május 06
Beadási határidő:	2026 november 05
Felhívás linkje:	LINK

Proposals should explore the design, testing, and validation of innovative solutions capable of performing critical tasks in disaster-stricken areas. These technologies should be tailored to operate in extreme conditions, including high temperatures, unstable terrains, and low-visibility environments and beneficial to all individuals regardless of their age, gender, and ability. Research should address challenges related to autonomous navigation, AI-driven decision-making, real-time situational awareness, and seamless integration with existing command-and-control systems used by disaster management. Collaboration of different practitioners should be supported to support proper market uptake.

Efforts should be made to enhance interoperability and data-sharing capabilities between various platforms, emergency response teams, and crisis management systems. A key aspect of this research should be the practical deployment and validation of these technologies through field exercises and simulations in real-world disaster scenarios.

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Open topic on driving innovation uptake of disaster risk solutions

HORIZON-CL3-2026-01-DRS-04

Program: **Horizon Europe
Cluster 3**

Típus: **Innovation Action**

TRL szint: **8**

Támogatás projektenként: **3M EUR**

Támogatott projektek száma: **2**

Pályázati felület megnyílik: **2026 május 06**

Beadási határidő: **2026 november 05**

Felhívás linkje: [LINK](#)

This topic aims to foster the widespread adoption and integration of high-TRL disaster risk solutions across multiple sectors, enhancing societal resilience to various hazards, including climate. The focus is on overcoming barriers to deployment, ensuring accessibility, and strengthening collaboration among stakeholders to drive innovation uptake. Projects should promote the adoption of high-TRL solutions by public and private sector organizations involved in disaster risk management, developing strategies for scaling and commercializing innovative DRS technologies to ensure they reach end-users efficiently.

Addressing deployment barriers is crucial, including identifying and mitigating technical, regulatory, financial, and social obstacles hindering the uptake of advanced solutions, while ensuring accessibility and usability for diverse stakeholders.

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Climate security and civil preparedness – new ways to develop pre- and post-crisis climate-change related scenarios for a more resilient Europe

HORIZON-CL3-2026-01-DRS-05

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	4,5M EUR
Támogatott projektek száma:	1
Pályázati felület megnyílik:	2026 május 06
Beadási határidő:	2026 november 05
Felhívás linkje:	LINK

While climate services based on data analysis have reached a high level of trust among users, their application to civil security remains underdeveloped. Proposals should aim to develop methodologies, tools, and technologies that enhance situational awareness both before a crisis (pre-crisis) and after a crisis (post-crisis), enabling decision-makers and populations to respond effectively. Research should focus on defining priority climate security scenarios in the EU, identifying key stakeholders, and establishing essential indicators for informed decision-making. Efforts should be directed toward understanding and mitigating the impacts of floods, landslides, wildfires, and other climate-induced disasters. This includes developing improved methods and models for risk prevention and reduction, early detection, emergency response tactics, and rescue efforts under extreme conditions. The study of cascading effects and compounding disasters is critical, particularly regarding vulnerable groups such as the elderly, disabled people, and children.

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Open Topic on advanced protective gear optimized for CBRN-E (Chemical, Biological, Radiological, Nuclear, Explosives) environments and new generation of smart protective equipment for disaster responders

HORIZON-CL3-2027-01-DRS-01

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2027 május 05
Beadási határidő:	2027 november 04
Felhívás linkje:	LINK

This topic aims to advance the development of protective gear specifically designed for optimal performance in specificities of the Chemical, Biological, Radiological, Nuclear, and Explosives (CBRN-E) environments, along with the creation of a new generation of smart protective equipment for disaster responders. Projects should focus on the use of innovative materials, technologies, and design features that enhance the protective capabilities of gear used in high-risk, hazardous environments, ensuring the safety and well-being of disaster responders with an inclusive and user-centric approach. The integration of advanced technologies will be crucial to enhancing the operational efficiency and effectiveness of the equipment.

Proposals should focus on providing comprehensive solutions that combine robust protection, operational support, and data-driven insights, ensuring a holistic approach to safety. Collaboration between research institutions, manufacturers, and end-users will be essential to ensure that the resulting products meet the practical requirements of practitioners in the field.

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Societal resilience, engagement of the younger generations and digital innovation for disaster resilience

HORIZON-CL3-2027-01-DRS-02

Program:	Horizon Europe Cluster 3
Típus:	Research & Innovation Action
TRL szint:	5
Támogatás projektenként:	3M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2027 május 05
Beadási határidő:	2027 november 04
Felhívás linkje:	LINK

This topic focuses on enhancing societal resilience by actively engaging younger generations in disaster preparedness, response, and recovery through digital innovation, education, and community involvement. Projects should develop tailored innovative solutions that integrate digital tools, gamification, and interactive learning methods to improve disaster awareness, risk perception, and response capabilities among younger generations

Particular attention should be given to the behaviour of children, young people, and other vulnerable groups before, during, and after climate-related disasters and health emergencies. Participatory approaches, including youth-led initiatives, citizen science, and digital engagement platforms, should be prioritized to enhance community-based resilience and ensure young people's perspectives are integrated into decision-making processes. These approaches should follow an intersectional approach that gives credit to the (growing) heterogeneity of young people. Best practices from other programmes should be taken into account.

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Enhancing decision support system for disaster crises: leveraging emerging technologies for improved civil preparedness and crisis management

HORIZON-CL3-2027-01-DRS-03

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	3M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2027 május 05
Beadási határidő:	2027 november 04
Felhívás linkje:	LINK

The objective is to advance the capabilities of existing systems, making them more reliable, adaptable, and efficient through the incorporation of trustworthy AI technologies that ensure transparency, accountability, and ethical decision-making processes.

Proposals should focus on creating advanced systems designed to strengthen civil preparedness, helping authorities and responders manage various disaster situations in a timely and effective manner. These systems should leverage cutting-edge AI-driven tools to process large volumes of data, providing actionable insights that improve decision-making during critical moments, such as from early warning to early action. Emphasis should be placed on integrating advanced data analysis and predictive modelling to anticipate disaster developments and guide interventions, while ensuring that the systems are transparent, explainable, and built on principles of trustworthiness inclusive and gender sensitive and ethical AI use.

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Enhancing preparedness for large-scale cross-border disasters

HORIZON-CL3-2027-01-DRS-04

Program:	Horizon Europe Cluster 3
Típus:	Innovation Action
TRL szint:	-
Támogatás projektenként:	4M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2027 május 05
Beadási határidő:	2027 november 04
Felhívás linkje:	LINK

Proposals should develop and validate innovative VR/AR-based crisis simulation models that can accurately depict diverse large-scale disaster situations, including transboundary hazards such as wildfires, floods, earthquakes, and industrial accidents. These simulations should incorporate near real-time data, AI-driven scenario adaptation, and multi-user interaction capabilities to ensure realistic, high-impact training exercises. Special attention should be given to the interoperability of these training platforms, allowing emergency services from different regions and countries to collaborate in joint preparedness exercises. Recommendations taken into account a gender-sensitive approaches should also improve crisis simulations by considering diverse needs and experiences.

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