

# Chemical, Biological, Radiological and Nuclear System of Systems



**CBRN  
SoS**

# Optimizing CBRN Responses Across Borders

**Next-Generation CBRN Defence - Digitally Enabled, Information-Driven, Situationally Aware**

**The game-changing operational capability of CBRN SoS results from the ability of multiple entities from different Member States to collaborate, which improves overall situational awareness and leads to a faster and more effective response to the CBRN threat.** The current fragmented approach limits effective situational awareness, resource allocation, and response efficiency. There is a pressing need for a unified system across multiple countries and organisations.

The European Federated Chemical, Biological, Radiological, and Nuclear System of Systems (CBRN SoS) project aims to create a flexible, modular information system for integrating CBRN defence tools across EU Member States and Norway. This system is designed to enhance the speed and effectiveness of CBRN responses through integration of CBRN Defence technologies into a comprehensive software system with seamless data sharing.

The project addresses the complex nature of CBRN threats by promoting coordination and collaboration among nations and agencies. It integrates various CBRN defence components into a dynamic system, allowing for adaptable on-demand deployment and cross-border collaboration. The aim is to improve CBRN Defence Capabilities at all levels from basic up to specialised, and to include as much information as possible from the early stages of CBRN incidents to improve the collaboration, coherence, and effectiveness of European CBRN defence.

CBRN SoS is a development project co-funded by the European Defence Fund (2023 edition) with the support of Austria, Denmark, Finland, Italy, the Netherlands, Norway, Slovakia, Slovenia, and Sweden. It is coordinated by the Austrian Institute of Technology (AIT).

## CBRN Key components



- **Detection, Identification, and Monitoring (DIM):** Uses advanced sensors for real-time threat detection.

- **Knowledge Management (KM):** Facilitates critical information sharing for decision-making.

- **Physical Protection (PP):** Provides protective equipment against CBRN hazards.

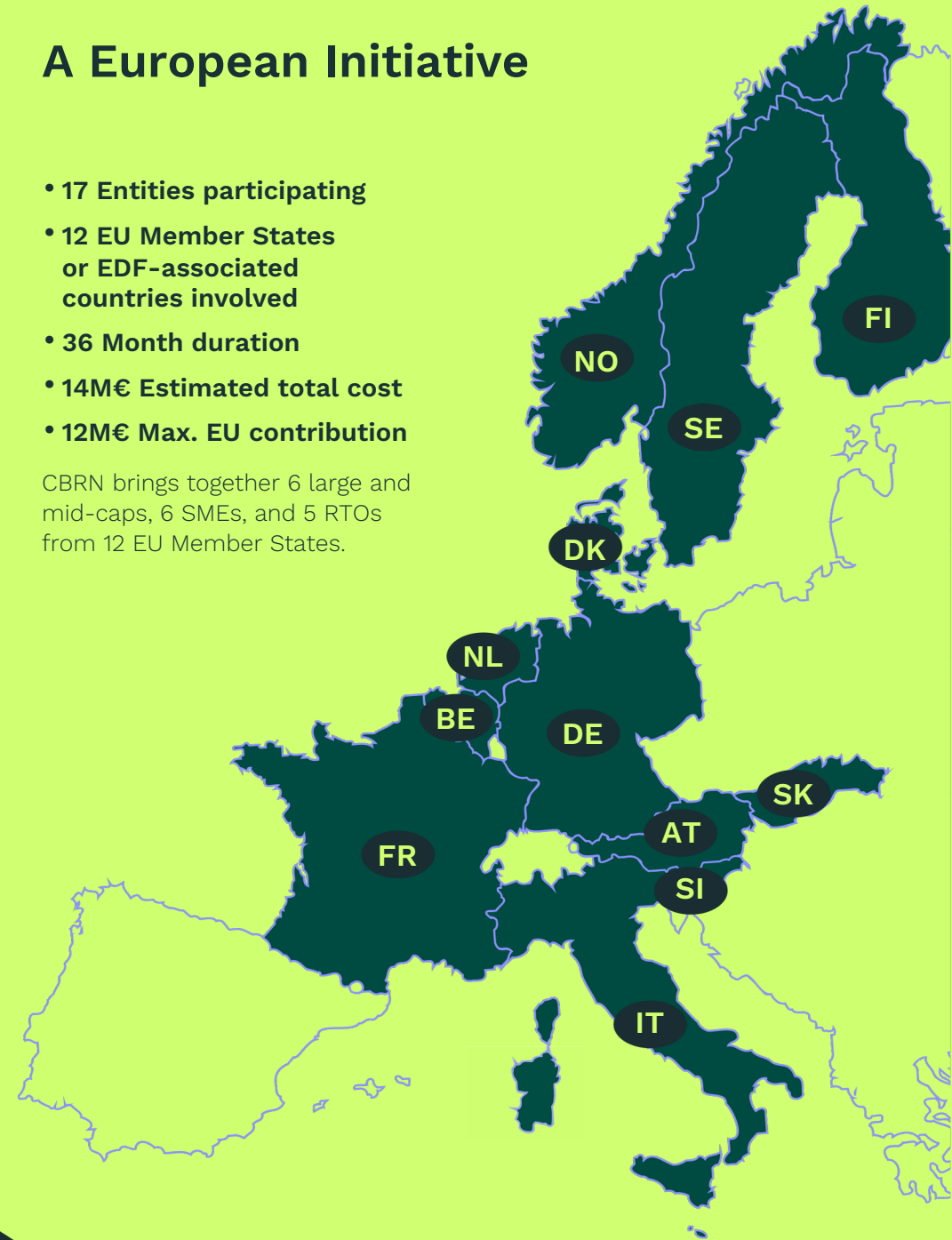
- **Hazard Management (HM):** Manages and coordinates response efforts.

Key innovations of the CBRN SoS project include data-driven decision support and a proof-of-concept phase to validate the effectiveness of the system of systems. Aligned with the EU's Capability Development Plan and Strategic Compass for Security and Defence, the project aims to boost military and civilian readiness, including disaster response and border security.

## A European Initiative

- 17 Entities participating
- 12 EU Member States or EDF-associated countries involved
- 36 Month duration
- 14M€ Estimated total cost
- 12M€ Max. EU contribution

CBRN brings together 6 large and mid-caps, 6 SMEs, and 5 RTOs from 12 EU Member States.



## BENEFICIARIES

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## SUBCONTRACTORS

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Touch4IT

## AFFILIATES

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## CONTACT INFORMATION

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