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D-EMERSYS

Rapid intervention force to chemical, biological, radiological and nuclear emergencies on the Danube River

Project Code : 15.3.1.052, e-MS code ROBG - 123

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Project summary

To rapidly and efficiently manage the chemical-biological-nuclear emergencies (CBRN) on the Danube river, the Romanian-Bulgarian emergency authorities are setting up in the cross-border area a joint intervention rapid force, D-EMERSYS, resulting from inter-connection of 2 specialized units, the on-the water reaction unit provided to Romanian emergency authorities and the on-the land support unit provided to Bulgarian emergency authorities. Both units will act coordinated under the command of the authority from the country where the intervention is taking place.

The core of on-the-water reaction unit are 3 rapid CBRN intervention boats equipped with capabilities for in-situ detection of contaminants and devices for decontamination of floating structures and fire-extinguishing/ contaminant cloud dispersal. The land-based unit comprises 5 specialized mobile CBRN platforms provided with capabilities for analyses of CBRN toxic elements from water, soil and air, as well as with devices for decontamination of both intervention personnel and technique.

Further specialized analyses of contaminants will be performed by a new “environmental forensic” laboratory set-up by NIMP. The project will also deliver the training for intervention personnel and will prepare the tools required by the legal framework for the operationalization of D-EMERSYS, establishing a strong partnership on Danube river CBRN emergency response, for the benefit of population and environment.

Project partners and beneficiary

Romanian partners

National Research-Development Institute for Materials Physics (NIMP)

At only 65 km to Romania-Bulgaria border, NIMP is both the closest and largest research infrastructure for materials investigation. With highly qualified researchers and skilled specialized technicians, NIMP also benefits from a new research infrastructure acquired in the last years, having best in the region scientific equipment for structural, optical and physical properties characterization of materials and a certified laboratory for Chemical Analysis of Advanced Materials. NIMP is developing the RITecC new center (~3500 m² of laboratory space) dedicated to applications, including 2 M€ equipment for analysis of environment relevant materials (like XPS, GC-MS, HRTEM+electron tomography) which matches many of the present project needs.

General Inspectorate for Emergency Situations, Ministry of Internal Affairs, Romania (GIES)

By law, GIES is the national regulatory authority in the field of civil protection. Its main relevant thematic competences with nationwide applicability include:

- Issuing of methodologies, regulations, instructions, operational standards and procedures in the field of planning, preparedness for and emergency response;
- Issuing and coordinating of national programs' implementation for training in the field of protection against disasters/emergency situations;

- Ensuring and developing the international cooperation in the field of emergency management and response;
- Coordinating and conducting professional emergency services (county inspectorates for emergency situations) in the field of planning, preparedness for and emergency response.

Bulgarian partner

Directorate General Fire Safety and Civil Protection, Ministry of Interior, Bulgaria (DGFSCP)

DGFSCP is a national specialized structure of the Ministry of Interior for ensuring fire safety, rescue and protection in case of disasters under the terms and provisions of Law on the Ministry of Interior and the Disaster Protection Law. DGFSCP is structured into a central level administration and at regional level there are 28 territorial structures. DG FSCP has responsibilities for fire extinguishing; rescue activities; emergency rescue and recovery activities, operative protection in case of floods and search and rescue operations; early warning and alert in case of disasters.

Project goal

Responding in a quick and appropriate way to emergencies ranging from oil spills to burning barges with haz-mat cargos. The added-value of this project, resides in creating a single intervention force at the disposal of authorities from the cross-border area, merging capabilities from both sides of the border in an economically efficient solution.