

Categoría	Call for proposals	Topic	Actividades Resumen	Breve Descripción	Capacidades COTESA
3.1.1. Defence medical response, Chemical Biological Radiological Nuclear (CBRN), biotech and human factors (MCBRN)	EDF-2023-DA	EDF-2023-DA-MCBRN-FCS: Federating CBRN systems	Design and system prototyping, not including upstream and downstream activities eligible for development actions	The aim of this development action is to develop a CBRN system at European scale with a system of system approach and including modular kits.	GIS, gemelo digital y geolocalización sobre el territorio de personas, vehículos y equipamientos: análisis de accesibilidad para movilidad, rutas óptimas, áreas de influencia; movilidad militar; mapas de calor; visualización y análisis 3D; simulaciones de propagación epidemiológicos; integración de sensorica IoT Realidad virtual: entornos inmersivos para capacitación y simulación de intervenciones mediante gafas Oculus y reconocimiento de manos (sin guantes) Plataformas web colaborativas: hub de interoperabilidad; infraestructuras de datos para acceso e intercambio de grandes volúmenes de datos (BBDD big data, imágenes satélite) Teledetección y observación de la Tierra: identificación de infraestructuras objetivo; control de cambios; modelización automática del terreno; detección/verificación de riesgos y daños
	EDF-2023-RA	EDF-2023-RA-SPACE-PSA: Threats surveillance and protection of space assets	Generating knowledge, integrating knowledge, study and design	The topic consists in consolidating the potential threats against space assets and technological solutions to address them, studying, selecting and further designing the most promising ones and developing the associated roadmap and technological building blocks. The topic should also address the space system architecture and layout. This topic aims to complement activities requested under previous EDIDP calls (in particular EDIDP-SSAEW-SC2-2020 on Advanced Space Command and Control (SC2) capability to process and exploit SSA data generated from sensors and catalogues to provide a complete space picture and EDIDP-SSAEW-SSAS-2020 on Enhanced SSA sensors for accurate identification and characterization of existing Geostationary Earth Orbit (GEO) and Low Earth Orbit (LEO) public and private assets) and under EDF-2023-DA-SPACE-SSA topic.	Plataformas GIS y gemelo digital 3D; visualización y análisis 3D; integración IoT de datos de sensores en tiempo real para mando y control; infraestructuras de datos espaciales (IDEs) estándares e interoperables. Dar servicios a satélites de observación de la Tierra: identificación de infraestructuras objetivo; control de cambios; modelización automática del terreno; detección/verificación de riesgos y daños
3.1.5. Space (SPACE)	EDF-2023-DA	EDF-2023-DA-SPACE-SSA: Initial operational capacity for Space situational awareness C2 and sensors	Studies, design, system prototyping, testing and qualification, not including upstream and downstream activities eligible for development actions.	It should target advanced development of components and system level technologies and products (including qualification for some parts) thus leading to a European military SSA initial operational capability. Such capability will be based on a network of national space surveillance capabilities: leveraging enhanced ground- and space-based sensors and state-of-the-art command and control, data management and processing. This topic aims to complement activities requested under previous EDIDP calls (in particular EDIDP-SSAEW-SC2-2020 on Advanced Space Command and Control (SC2) capability to process and exploit SSA data generated from sensors and catalogues to provide a complete space picture and EDIDP-SSAEW-SSAS-2020 on Enhanced SSA sensors for accurate identification and characterization of existing Geostationary Earth Orbit (GEO) and Low Earth Orbit (LEO) public and private assets) and under EDF-2023-DA-SPACE-PSA topic, as well as those carried out under other EU programmes (e.g. EU-SST Framework), in order to avoid unnecessary duplication of funding.	Plataformas GIS y gemelo digital 3D; visualización y análisis 3D; integración IoT de datos de sensores en tiempo real para mando y control; infraestructuras de datos espaciales (IDEs) estándares e interoperables. Dar servicios a satélites de órbitas bajas e geostacionarios con análisis multitemporales de una misma zona, combinando IA y teledetección.
	EDF-2023-RA	EDF-2023-RA-DIGIT-HAAI: Dedicated hardware architectures for energy-efficient AI	Generating knowledge, integrating knowledge and study, not excluding design	The goal of the topic is thus to create new processing architectures for AI that offer very significant gains in term of power consumption as well as of size, weight and cost.	Arquitecturas de BBDD geoespaciales big data descentralizadas; infraestructuras de datos para acceso, análisis IA e intercambio de grandes volúmenes de datos (BBDD big data, imágenes satélite...)
3.1.6. Digital transformation (DIGIT)	EDF-2023-RA	EDF-2023-RA-CHALLENGE-DIGIT-HLTP: Agile and robust human language technologies for defence – Participation to a technological challenge	Generating and integrating knowledge, not including downstream activities eligible for research actions	Coverage in term of languages should also be extended to offer high performances on a wide range of languages, including the European ones but also languages for which limited data is available. The goal of the topic is both to advance the state-of-art in term of accuracy, to produce technological modules, and to integrate them in demonstrators.	Teledetección y observación de la Tierra: identificación de estructuras objetivo; control de cambios; modelización automática del terreno; verificación de daños
	EDF-2023-RA-CHALLENGE	EDF-2023-RA-CHALLENGE-DIGIT-HLTO: Agile and robust human language technologies for defence – Organisation of a technological challenge	Integrating knowledge, not including upstream and downstream activities eligible for research actions	Progress in human language technologies rely on the availability of representative databases and on objective performance evaluation. One goal of the topic is to collect databases that are representative of military use cases and to evaluate systems developed to address these use cases. At least part of the data should be shared with the systems developers. Internal evaluation of technological modules on confidential data can also be conducted and feedback provided to developers without sharing the data.	Sistemas de actualización de cartografía de forma inteligente empleando algoritmos de lenguaje natural (bots) accediendo a páginas webs
3.1.10. Air and missile defence (AIRDEF)	EDF-2023-DA	EDF-2023-DA-AIRDEF-CUAS: Counter-UAS capabilities	Design, system prototyping, testing and qualification, not including upstream and downstream activities eligible for development actions	This topic aims at developing both hardware or software modules for a comprehensive, mobile and effective solution to counter a wide range of UAS, including swarms of UAS, which would include an enhanced multi-sensor arrangement with distributed sensor systems, new machine learning methods (e.g., for scene interpretation and semantic segmentation) and a multi-effector system. This topic aims to complement activities requested under the call EDIDP-CUAS-2020 Counter Unmanned Air Systems (CUAS) capabilities.	Soluciones innovadoras basadas en el empleo de datos tomados con UAV's, combinados con datos de satélite e inteligencia Artificial para múltiples servicios de valor añadido en el campo militar (mapa de cambios, detección de objetos, estado de las estructuras, de los edificios, accesibilidad, tracking en tiempo real, etc).
3.1.16. Disruptive technologies (DIS)	EDF-2023-LS-RA-DIS	EDF-2023-LS-RA-DIS-NT: Non-thematic research actions targeting disruptive technologies for defence	Generating and integrating knowledge, not including downstream activities eligible for research actions	The proposals must substantiate their disruptive impact and could address disruptive technologies in any area of interest for defence, such as, but not limited to, the following ones: • Blockchain applications (e.g. for Identification of Friend or Foe) • Tools and digital systems improving cybersecurity talents screening • Future naval platform control and management • Smart damage control related to future naval platforms • DIP signature management • Secure and reliable underwater communication solutions and interfaces (radiofrequency, acoustic, optic or others) • Measurement and monitoring of physical and cognitive state of soldiers • Solutions for mechanical and "green" chemical recycling of waste of soldier individual equipment (uniforms, helmets, boots, rucksacks, plastic elements, harness, etc.) • Concepts and corresponding technologies to ensure a safe water reuse throughout the entire water cycle of a deployable camp or a deployed combat group • Synthetic fuel production from waste and biomass for military use	Fest digital twin ; modelización, visualización 3D, análisis e interoperabilidad de grandes volúmenes de datos Realidad virtual: entornos inmersivos para análisis cognitivo y captación de emociones; capacitación y simulación de operaciones mediante gafas Oculus y reconocimiento de manos (sin guantes) Teledetección y observación de la Tierra: algoritmos IA para identificación de objetos e infraestructuras objetivo; control de cambios; detección de daños; modelización automática 3D
3.2. Call for proposals not related to the Categories of actions	EDF-2023-LS-RA-SMERO	EDF-2023-LS-RA-SMERO-NT: Non-thematic research actions by SMEs and research organisations	Any activities eligible for a research action. However, proposals must not be limited to studies.	This topic addresses innovative defence technologies, materials and solutions, including those that can improve readiness, deployability, reliability, safety and sustainability of EU forces in the entire spectrum of tasks and missions, for example in terms of operations, equipment, infrastructure, basing, energy solutions, new surveillance systems.	GIS, gemelo digital y geolocalización sobre el territorio de personas, vehículos y equipamientos: análisis de accesibilidad para movilidad, rutas óptimas, áreas de influencia; movilidad militar en despliegues; mapas de calor; visualización y análisis 3D; simulaciones de propagación epidemiológicos; integración de sensorica IoT Realidad virtual: entornos inmersivos para capacitación y simulación de intervenciones mediante gafas Oculus y reconocimiento de manos (sin guantes) Plataformas web colaborativas de vigilancia y mando y control: hub de interoperabilidad; infraestructuras de datos para acceso e intercambio de grandes volúmenes de datos (BBDD big data, imágenes satélite) Teledetección y observación de la Tierra: mapas de coberturas de uso del suelo, mapa de asentamientos y campamentos; control de cambios; generación de datos en 3D mediante la modelización automática del terreno; detección/verificación de riesgos y daños
	EDF-2023-LS-DA-SME	EDF-2023-LS-DA-SME-NT: Non-thematic development actions by SMEs	Any activities eligible for a development action. However, the proposals must address at least one activity among design, system prototyping, testing, qualification	This topic addresses innovative defence products, solutions, materials and technologies, including those that can improve readiness, deployability, reliability, safety and sustainability of EU forces in the entire spectrum of tasks and missions, for example in terms of operations, equipment, infrastructure, basing, energy solutions, new surveillance systems.	GIS, gemelo digital y geolocalización sobre el territorio de personas, vehículos y equipamientos: análisis de accesibilidad para movilidad, rutas óptimas, áreas de influencia; movilidad militar en despliegues; mapas de calor; visualización y análisis 3D; simulaciones de propagación epidemiológicos; integración de sensorica IoT Realidad virtual: entornos inmersivos para capacitación y simulación de intervenciones mediante gafas Oculus y reconocimiento de manos (sin guantes) Plataformas web colaborativas de vigilancia y mando y control: hub de interoperabilidad; infraestructuras de datos para acceso e intercambio de grandes volúmenes de datos (BBDD big data, imágenes satélite) Teledetección y observación de la Tierra: identificación de infraestructuras objetivo; control de cambios; modelización automática del terreno; detección/verificación de riesgos y daños

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