

PRECISE

Prediction and Response of Effectors on Critical Infrastructure and Structural Environments

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:

Research actions on digital transformation

TOPIC TITLE:

Automated structural modelling for effect prediction

DURATION OF THE PROJECT:

48 Months

TYPE(S) OF ACTIVITIES:

Generating knowledge, Integrating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 14,873,491.09

MAXIMUM EU CONTRIBUTION :

€ 14,873,490.09



SHORT DESCRIPTION OF THE PROJECT:

PRECISE will address the critical need for sophisticated modelling tools to assess the impacts of military actions on civilian infrastructure.

The project will deliver the following capabilities: multi-source data collection and annotation of high-resolution imagery from satellites and sensors, tailored structural knowledge based on AI-driven algorithms to extract detailed information about structures, identifying vulnerabilities and patterns, and simulation of effect prediction models by simulating various scenarios, including the impact of munitions on structures.





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**Members of the consortium and
country of establishment:**

 NAME OF THE ENTITY	 COUNTRY
GMV AEROSPACE AND DEFENCE SA (Coordinator)	Spain
BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION	Spain
CENTRO DE OBSERVACION Y TELEDETECCION ESPACIAL SAU	Spain
ECOLE ROYALE MILITAIRE - KONINKLIJKE MILITAIRE SCHOOL	Belgium
EUROBIOS SAS	France
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