



## THEMA

**TecHnology for ElectroMagnetic Artillery** 

#### **SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2022**

CALL TITLE:	Research actions for disruptive technologies	
TOPIC TITLE:	Electromagnetic artillery demonstrator	
DURATION OF THE PROJECT:	48	
TYPE(S) OF ACTIVITIES:	Generating knowledge, Integrating knowledge, Studies, Design	
ESTIMATED TOTAL COST:	€ 14,991,939.22	
MAXIMUM EU CONTRIBUTION:	€ 14,991,939.22	

#### SHORT DESCRIPTION OF THE PROJECT:

THEMA will advance the Electromagnetic Gun (EMG) critical components, notably the pulsed-power supply, the ElectroMagnetic RailGun and the hypervelocity projectile.

The project "TecHnology for ElectroMagnetic Artillery" (THEMA) will maturate electromagnetic gun critical components, notably the pulsed-power supply, the electromagnetic railgun and the hypervelocity projectile. It will offer a hypersonic interceptor with enhanced precision and lethality to defeat the main challenging threats. Electromagnetic gun is expected to complement other defensive means like missiles and guns, and could be adapted to various naval platforms and land permanent air defence systems.



#StrongerEurope #EUDefenceIndustry



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# MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:



NAME OF THE ENTITY	COUNTRY
NEXTER SYSTEMS SA (Coordinator)	France
ADDITESS Advanced Integrated Technology Solutions & Services LTD	Cyprus
Bulgarian Defense Institute "Professor Tsvetan Lazarov"	Bulgaria
Diehl Defence GmbH & Co. KG	Germany
EXPLOMET GAŁKA, SZULC SPÓŁKA KOMANDYTOWA	Poland
Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	Germany
French-German Research Institute of Saint Louis	France
Marduk Technologies OÜ	Estonia
MBDA ITALIA SPA	Italy
NAVAL GROUP	France
NEXTER MUNITIONS S.A.	France
OPTIMAL STRUCTURAL SOLUTIONS LDA	Portugal
Simmel Difesa SpA	Italy
von Karman Institute for Fluid Dynamics	Belgium