European Commission

EUROPEAN DEFENCE FUND

INNCH2PROP

Innovative Thrust Chambers for Hydrogen Based Low Emissivity Propellants

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:	**Research actions focused on SMEs and research organisations**
TOPIC TITLE:	**Non-thematic research actions by SMEs and research organisations**
DURATION OF THE PROJECT:	**36 Months**
TYPE(S) OF ACTIVITIES:	**Generating knowledge, Studies, Design**
ESTIMATED TOTAL COST:	**€ 3,978,335.34**
MAXIMUM EU CONTRIBUTION :	**€ 3,978,335.33**

SHORT DESCRIPTION OF THE PROJECT:

The aim of the project is the design and development of an innovative, ceramic-based combustion chamber for aerospace engines powered by hydrogen.

The primary goal is to leverage the high power and low visibility of H_2/O_2 and H_2/air flames. These unique characteristics offer significant advantages for defence systems. An innovative combustion chamber made from ultrahigh temperature ceramic matrix composites, inherently capable of wall thermal protection, will be developed. This capability is essential for ensuring self-reliance and advancing EU-based innovation in defence and aerospace applications.

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#EUDefenceIndustry

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Members of the consortium and country of establishment:

NAME OF THE ENTITY	COUNTRY
MIPRONS S.R.L. (Coordinator)	Italy
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	Germany
FREE FORM 3D SRL	Romania
LARAN BUSINESS	Italy
RIGAS TEHNISKA UNIVERSITATE	Latvia
SC MGM STAR CONSTRUCT SRL	Romania
VILNIUS GEDIMINAS TECHNICAL UNIVERSITY	Lithuania

More information about the European Commission's support for the Defence Industry