

DEMETHRA

DEvelopMent of Enabling technologies for a THust-vectorred hypersonic vehicle featuring innovative combustoR and mAterials
SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

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:

48 months

TYPE(S) OF ACTIVITIES:

Generating knowledge, Integrating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 3,805,073.22

MAXIMUM EU CONTRIBUTION :

€ 3,805,073.22



SHORT DESCRIPTION OF THE PROJECT:

DEMETHRA will investigate three novel scramjet technologies towards a realistic hypersonic vehicle and address the challenges of the supersonic combustion jet engines.

The DEMETHRA project will investigate, on a low component technology readiness level, three novel scramjet technologies towards a realistic hypersonic vehicle. Such technologies will address the challenges of the supersonic combustion jet engines, namely the aerodynamic heating, a reliable and efficient burning of the fuel and the capability to change and control the thrust direction. The project will develop technological bricks for improved ballistic missile defence and anti-access area denial capabilities, based on tactical anti-missile systems.

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

 NAME OF THE ENTITY	 COUNTRY
HIT09 SRL (Coordinator)	Italy
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	Germany
IBK-INNOVATION GMBH & CO. KG	Germany
MECA-OUEST	France

