

# LACE

LAser CEramics

## SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

**CALL TITLE:**

Disruptive EDF research actions

**TOPIC TITLE:**

Non-thematic research actions targeting disruptive technologies

**DURATION OF THE PROJECT:**

48 months

**TYPE(S) OF ACTIVITIES:**

Generating knowledge, Studies

**ESTIMATED TOTAL COST:**

€ 3,998,498.47

**MAXIMUM EU CONTRIBUTION :**

€ 3,998,498.47



### SHORT DESCRIPTION OF THE PROJECT:

The outcome of LACE will contribute to the development of advanced lasers which could have both civil and military applications.

The use of high peak power Ultrashort Pulse Lasers is increasingly attracting attention worldwide. LACE aims at addressing production of novel transparent ceramics as laser gain media to finally empower development of a new class of laser. The project main outcome will contribute to the development of advanced lasers which could have both civil and military applications. This could well represent an advantage at technological level, which could also lead to an advantage at operational and strategic level over existing current defence products.



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#EUDefenceIndustry**

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



 <b>NAME</b> OF THE ENTITY	 <b>COUNTRY</b>
CONSIGLIO NAZIONALE DELLE RICERCHE (Coordinator)	Italy
CONSORCIO PARA EL DISEÑO, CONSTRUCCIÓN, EQUIPAMIENTO Y EXPLOTACION DEL CENTRO DE LASERES PULSADOS ULTRACORTOS ULTRAIINTENSOS	Spain
EKSMA OPTICS UAB	Lithuania
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	Germany
FYZIKALNI USTAV AV CR V.V.I	Czechia
GRAPHENE ENERGY SP ZOO	Poland
INSTYTUT NISKICH TEMPERATUR I BADAN STRUKTURALNYCH IM. WŁODZIMIERZA TRZEBIATOWSKIEGO POLSKIEJ AKADEMII NAUK	Poland
MARION TECHNOLOGIES S.A.S.	France
MBDA ITALIA SPA	Italy
UAB Lidaris	Lithuania
UNIVERSITE DE LIMOGES	France

