

# OPTIMAS

OPTIcal MilitArY Secure communications

## SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

**CALL TITLE:**

Development actions on information superiority

**TOPIC TITLE:**

Laser communications

**DURATION OF THE PROJECT:**

36 months

**TYPE(S) OF ACTIVITIES:**

Studies, Design, System prototyping, Testing

**ESTIMATED TOTAL COST:**

€ 21,948,033.88

**MAXIMUM EU CONTRIBUTION :**

€ 16,949,330.70



## SHORT DESCRIPTION OF THE PROJECT:

OPTIMAS will define, design, and test an airborne laser communication system applicable to various satellite constellations for integration into air, naval and land units.

OPTIMAS aims to develop a robust free-space optical communication solution for multi-domain defence applications, highlighting the challenging demonstration of linking an unmanned aerial vehicle and a satellite with a high data transfer rate and potential quantum key distribution capability. The project will define, design, and test an airborne laser communication system applicable to various satellite constellations for integration into air, naval and land units. The demonstrator will focus on a secure, high-speed bidirectional communication with low earth orbit satellite pointing, acquisition and tracking functions.





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



 <b>NAME</b> OF THE ENTITY	 <b>COUNTRY</b>
NAVANTIA S.A. (Coordinator)	Spain
CAILABS	France
CONSORCIO PARA EL DISEÑO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DEL CENTRO DE LASERES PULSADOS ULTRACORTOS ULTRAIINTENSOS	Spain
DAS PHOTONICS SL	Spain
GMVIS SKYSOFT SA	Portugal
INSTITUTO DE ASTROFISICA DE CANARIAS	Spain
MBRYONICS LIMITED	Ireland
ODYSSEUS Space SA	Luxembourg
REFLEX AEROSPACE GMBH	Germany
SCHIEBEL ELEKTRONISCHE GERATE GMBH	Austria
SENER AEROESPACIAL SOCIEDAD ANONIMA	Spain
UNIVERSIDAD DE VIGO	Spain

