

TALOS-TWO

Tactical Advanced Laser Optical Systems: Technologies for High Power Laser, Vulnerability study, Vignette development and Operational Study

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

CALL TITLE:

Disruptive EDF research actions

TOPIC TITLE:

Laser-based directed-energy weapons

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Generating knowledge, Integrating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 25,300,557.50

MAXIMUM EU CONTRIBUTION :

€ 25,000,000.00



SHORT DESCRIPTION OF THE PROJECT:

The outcome of TALOS-TWO will contribute to the development of fully European 100kW-class laser weapons by 2030, focusing on laser source and beam combining modules.

TALOS-TWO aims to develop fully European 100kW-class laser weapons by 2030, focusing on laser source and beam combining modules. The project will develop two high-power 1 μ m combined source demonstrators, simulate combining methods using 2 μ m laser sources, establish a European supply chain for 1 μ m and 2 μ m laser sources, develop mature technologies for fully European 2 μ m laser sources, pioneer dynamic 3D visualisation of danger zones, investigate high-energy laser effects on targets, and provide a roadmap for future developments.

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



 NAME OF THE ENTITY	 COUNTRY
COMPAGNIE INDUSTRIELLE DES LASERS CILAS SA (Coordinator)	France
CRYPTUR SPOL SRO	Czechia
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	Germany
EDAIR TECHNOLOGIES SL	Spain
FERDINAND-BRAUN-INSTITUT GGMBH LEIBNIZ- INSTITUT FUER HOECHSTFREQUENZTECHNIK	Germany
FIBERBRIDGE PHOTONICS GMBH	Germany
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWA NDTEN FORSCHUNG EV	Germany
LEONARDO - SOCIETA PER AZIONI	Italy
MBDA FRANCE	France
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWET ENSCHAPPELIJK ONDERZOEK TNO	The Netherlands
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	France
RHEINMETALL WAFFE MUNITION GMBH	Germany
THALES	France
THALES LAS FRANCE SAS	France
UAB ALTECHNA SENSING	Lithuania

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



NAME

OF THE ENTITY



COUNTRY

USTAV FOTONIKY A ELEKTRONIKY AV CR V.V.I.

Czechia

WOJSKOWA AKADEMIA TECHNICZNA IM.JAROSLAWA
DABROWSKIEGO

Poland

