

TALOS

High Power Laser Effector

PADR Call 2018-EF-02

NAME OF THE PROJECT **Tactical Advanced Laser Optical System**

SHORT NAME **TALOS**

GRANT AGREEMENT NUMBER **831726**

OBJECTIVE OF THE PROJECT

TALOS aims to provide the framework necessary for future R&D actions, generating a roadmap to develop critical laser effector technologies and ensuring strategic autonomy and security of supply. This roadmap will address current shortfalls in EU technical capability in this domain, proposing solutions to overcome dependencies on suppliers from non-EU countries and the risk of end-user restrictions being imposed by non-EU nations (International Traffic in Arms Regulations - ITAR and Export Administration Regulations - EAR).

The project will also develop and demonstrate some of the most critical Laser Directed Energy Weapon technologies paving the way to the design and build of an EU high-power laser effector to be integrated in military applications in the next decade. The technologies to be demonstrated include elements of the high-power laser source, atmospheric turbulence compensation and precision target tracking and laser pointing systems.

PROJECT DURATION **36 months**

STARTING DATE **1 September 2019**

GRANTED EU CONTRIBUTION **€ 5.399.005**

LIST OF PARTICIPANTS

#	NAME OF THE ENTITY	COUNTRY
1	COMPAGNIE INDUSTRIELLE DES LASERS CILAS SA	France
2	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	The Netherlands
3	LEONARDO - SOCIETA PER AZIONI	Italy
4	DEUTSCHES ZENTRUM FÜR LUFT- UND RAUMFAHRT EV	Germany
5	MDBA FRANCE SAS	France
6	ERDYN CONSULTANTS	France
7	USTAV FOTONIKY A ELEKTONIKY AV CR V.V.I.	Czech Republic
8	CMI DEFENCE	Belgium

9	UNIVERSITÉ DE LIMOGES	France
10	WOJSKOWA AKADEMIA TECHNICZNA IM JAROSLAWA DABROWSKIEGO	Poland
11	QINETIQ LIMITED	United Kingdom
12	AIRBUS DEFENCE AND SPACE GMBH	Germany
13	AERTEC SOLUTIONS SL	Spain
14	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AÉROSPATIALES	France
15	STELAR SECURITY TECHNOLOGY LAW RESEARCH UG	Germany