



Tactical Advanced Laser Optical System (TALOS)



Under the Preparatory Action on Defence Research (PADR), the grant for the Research Action call on the topic 'Toward a European high-power effector' was signed on 26 July 2019. The awarded project, called TALOS, is led by CILAS (France). The consortium encompasses a total of 16 participants from 9 countries. The project, which has a duration of 36 months, will receive an EU grant of roughly €5.4 million.

PADR Call 2018-EF-02 – Information on the awarded project			
Name of the project		Tactical Advanced Laser Optical System	
Short name		TALOS	
Summary of the project			
<p>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).</p> <p>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.</p>			
Project duration		36 months	
Starting date		1 September 2019	
Maximum foreseen EU Contribution		€ 5.399.005,00	
List of participants			
#	Name of the entity	Country	EU Contribution requested by the entity ¹
1	Compagnie Industrielle des Lasers CILAS SA	France	€ 852.922,50
2	Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek TNO	Netherlands	€ 505.625,00
3	Leonardo - Societa per Azioni	Italy	€ 381.200,00
4	Deutsches Zentrum für Luft- und Raumfahrt EV	Germany	€ 204.205,00
5	MBDA France SAS	France	€ 1.160.027,50
6	Erdyn Consultants	France	€ 102.500,00
7	Ustav Fotoniky a Elektroniky AV CR V.V.I.	Czech Republic	€ 177.765,00
8	CMI Defence	Belgium	€ 52.925,00

¹ The amount of EU contribution as included in the Grant Agreement. Final amounts need to be confirmed at the end of the project.



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9	Université de Limoges	France	€ 447.265,00
10	Wojskowa Akademia Techniczna im Jaroslawa Dabrowskiego	Poland	€ 967.125,00
11	AMS Technologies sp. z o.o.	Poland	€ 89.525,00
12	QinetiQ Limited	United Kingdom	€ 86.525,00
13	Airbus Defence and Space GmbH	Germany	€ 119.833,75
14	AERTEC Solutions SL	Spain	€ 79.375,00
15	Office National d'Etudes et de Recherches Aérospatiales	France	€ 124.980,00
16	Stelar Security Technology Law Research UG	Germany	€ 47.206,25