

## Press release

# TALOS consortium, led by CILAS, will pave the way to EU high-power lasers

Orléans (France), 29th August 2019

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- **As part of the «Preparatory Action on Defence Research» (PADR), the European Defence Agency (EDA) launched in March 2018 several calls for proposals in order to prepare the future defence capabilities of the European Union.**
  - **At the head of a consortium gathering 16 companies, laboratories and universities from 9 European countries, CILAS has answered the call for proposals on high-power laser effector.**
  - **CILAS consortium's project, called TALOS (Tactical Advanced Laser Optical System) aims to create European capabilities in laser technologies, for the purpose of a development program of a laser effector for defence applications by 2025.**
  - **CILAS, expert in laser and optronics, will lead this project which will last 3 years with the aim of making an innovative technologies demonstration in the field of laser and propagation and of proposing a roadmap.**
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The TALOS project will develop and demonstrate some of the most critical Laser Directed Energy Weapon (LDEW) technologies paving the way to the design and build of an EU high-power laser effector to be integrated in military applications by 2025.

TALOS will lead to the development of a compact design laser able to quickly and precisely neutralize an agile target (i.e. RAM<sup>1</sup>, UAV<sup>2</sup>) while significantly minimizing collateral damages. The solution can also be integrated on different platforms (maritime, land and air payloads).

TALOS brings together 16 beneficiaries and 4 linked third parties from 9 European countries and is a well-balanced mix of industrial and academic capabilities:

Optronics and laser technology developers:

- AMS Technologies - Poland
- ArianeGroup - France
- CILAS - France
- Deutsches Zentrum für Luft und Raumfahrt (DLR) - Germany
- Institute of Photonics and Electronics, Czech Academy of Sciences (IPE) - Czech Republic
- MBDA France, UK and Italy
- Military University of Technology (WAT) - Poland
- Office National d'Etudes et de Recherches Aérospatiales (ONERA) - France
- Université de Limoges (UNILIM) / XLIM - France

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1 Rocket Artillery and Mortar

2 Unmanned Aerial Vehicle

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### Systems integrators:

- Airbus Defence and Space- Germany
- CMI Defence - Belgium
- Leonardo - Italy

### Target vulnerability specialists:

- AERTEC Solutions - Spain
- MBDA France
- QinetiQ Limited - United Kingdom

### New security technologies specialists:

- Stellar Security Technology Law Research UG (STELAR) - Germany

### End-users relationships experts :

- Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek (TNO) - Netherlands

### Management of large European collaborative projects experts :

- ERDYN Consultants - France

Some partners have great capabilities on other weapon systems. This will enable the consortium to develop a laser effector complementary to other effectors on the battlefield.

The PADR is part of wider EU initiatives: the European Defence Research Programme (EDRP) and the European Defence Industrial Development Programme (EDIDP) conducted by the European Commission. The objective is twofold: to foster defence strategy autonomy of Europe and to ensure alignment of the defence capabilities of Europe.

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### **About CILAS**

For over 50 years, CILAS, subsidiary of ArianeGroup and Areva, has been at the leading edge of the modern technology sector thanks to its unique expertise in laser and optronics. With a turnover of 47 million euros in 2018, CILAS develops, manufactures and markets a wide range of products and systems for defence, security, space and industrial instrumentation. The company is also involved in scientific laser programs. CILAS is present in more than 15 countries. Through partnerships with multiple defence organizations and NATO members, CILAS is settling its international presence.

[www.cilas.com](http://www.cilas.com)