



STEPPING UP THE EU'S ROLE AS A SECURITY AND DEFENCE PROVIDER

Supporting European defence in the current EU budget

THE EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME 2019-2020

The Commission is kick-starting the first EU-funded joint defence industrial projects by adopting the first Work Programme under the European Defence Industrial Development Programme (EDIDP).

The work programme, which has been agreed with the Member States, provides €500 million in co-financing over two years for joint industrial development of defence equipment and technologies in all domains (air, land, sea, cyber and space). The work programme contains details of calls for proposals to be launched over 2019 and 2020 respectively:

1. Enabling operations, protection and mobility of military forces: The Commission is putting forward €80 million for the development of capabilities related to enabling operations, and enhancing protection and mobility of military forces, with a focus on unmanned systems. It covers four categories among which the development of chemical, biological, radiological and nuclear (CBRN) threat detection capabilities and counter-drones capabilities.

Enabling operations, protection and mobility of military forces		
Categories	Budget per category	
	2019	2020
Chemical Biological Radiological Nuclear (CBRN) detection capabilities and medical countermeasures		€ 13.5 million
Multipurpose unmanned ground system	€ 30.6 million	
Underwater control contributing to resilience at sea		€ 22.5 million
Counter-Unmanned Air Systems (UASs) capabilities		€ 13.5 million

2. Intelligence, secured communication & Cyber: A total of €180 million are available for projects in six categories covering areas such as intelligence, cyber and space situational awareness and early warning, secured positioning, navigation and timing, and maritime surveillance.

Intelligence, secured communication & Cyber		
Categories	Budget per category	
	2019	2020
Permanent air or space capabilities for Intelligence, Surveillance and Reconnaissance (ISR) and communication, tactical Remotely Piloted Air Systems (RPAS) and sensor suite for integration into air-traffic management	€ 43.7 million	

Intelligence, secured communication & Cyber		
Categories	Budget per category	
	2019	2020
Cyber situational awareness and defence capabilities, military networks and technologies for secure communication and information sharing	€ 17.7 million	€ 14.3 million
Space Situational Awareness (SSA) and early warning capabilities		€ 22.5 million
Positioning, Navigation and Timing (PNT) and satellite communication capabilities	€ 44.1 million	
Maritime surveillance capabilities		€ 20 million
European Command and Control (C2) system from strategic to tactical level	€ 20 million	

3. Ability to conduct high-end operations: With an envelope of €70 million, selected projects in this area will focus on the ability to conduct operations in different domains. These should aim at enhancing, upgrading or developing of the next generation of ground-based precision strike capabilities, of ground combat and air combat capabilities (aircraft and drones) and of future naval platforms.

Ability to conduct high-end operations		
Categories	Budget per category	
	2019	2020
Upgrade of current and development of next generation ground-based precision strike capabilities	€ 6.5 million	€ 7 million
Ground combat capabilities		€ 9 million
Air combat capabilities	€ 12 million	€ 22 million
Future naval systems and related technologies	€ 14.5 million	

4. Innovative defence technologies & SMEs: €27 million is available for projects covering the development of Defence technologies supported by Artificial Intelligence as well as to support Small and Medium Size Enterprises that target the development of innovative and future-oriented defence solutions.

Innovative defence technologies & SMEs		
Categories	Budget per category	
	2019	2020
Simulation and virtualisation tools and equipment for training, exercises, system design, development and integration, testing and validation		€ 3.5 million
Defence technologies supported by artificial intelligence		€ 5.7 million
Category for SMEs - Innovative and future-oriented defence solutions	€ 7.5 million	€ 10 million

5. Flagship initiatives: The Commission foresees to support two key projects that could receive direct awards:

EURODRONE: €100 million to support the development of the Medium Altitude Long Endurance Remotely Piloted Aircraft System (MALE RPAS), a crucial capability for Europe's strategic autonomy identified by the European Council in 2013 as a Union priority where the EU currently has a clear technological and strategic dependency.

ESSOR: €37 million to support the development of interoperable and secure defence communication systems for operations.

Flagship initiatives	
Initiatives	Budget
	2019/2020
MALE RPAS (selected for direct award procedure)	€ 100 million
ESSOR (selected for direct award procedure)	€ 37 million

Next Steps:

- **March 2019:** The Commission launches the 2019 calls for proposals.
- **August 2019:** Deadline for consortia to prepare and submit their proposals to the Commission.
- **Following closing of the calls:** Commission assisted by independent experts will evaluate received proposals. A list of awarded projects will be adopted by the Commission following the examination procedure by the Programme Committee.
- **February 2020:** Successful applicants will be informed and invited to sign grant agreements at the latest 6 months after closing of the calls.
- **1st quarter 2020:** Commission to launch 2020 Calls for proposals.

PREPARATORY ACTION ON DEFENCE RESEARCH 2019

Officially launched in 2017, the Preparatory Action on Defence Research (PADR) continues to deliver for the third year already. Until now, the Commission has already funded [five defence research projects](#), including the €35 million Ocean2020 project to support maritime surveillance missions. Grants for the funding of three more projects funded from the 2018 budget envelope are still close to finalisation.

The 2019 Work Programme will dedicate €25 million for research in Electromagnetic Spectrum Dominance and Future Disruptive Defence Technologies - two areas identified as essential to maintain on the long run Europe's technological lead and independence. The Work Programme foresees Calls for proposals to be issued as follows:

Call topic for proposals	2019 Budget proposal per call topic
Electromagnetic Spectrum Dominance - Combined radar, communications, and electronic warfare functions based on European Active Electronically Scanned Arrays for military applications	€ 10 million
Future Disruptive Defence Technologies - Challenging the future (no predefined topics)	€ 3.96 million
Future Disruptive Defence Technologies - Emerging Game-changers (5 predefined topics)	€ 7.5 million
Unmanned Systems - Interoperability standards for military unmanned systems	€ 1.5 million
TOTAL	€ 23.26 million

Next steps:

March 2019: European Defence Agency to launch 3 calls for proposals for 2019 for the topics *“Electromagnetic Spectrum Dominance - Combined radar, communications, and electronic warfare functions based on European Active Electronically Scanned Arrays for military applications”, “Future Disruptive Defence Technologies - Emerging Game-changers”, and “Unmanned Systems - Interoperability standards for military unmanned systems”*

End August 2019: *Deadline for submission of proposals*

End 2019: Expected timeframe for concluding grant agreements

Early June 2019: The Commission will launch a call for proposals on the topic *“Future Disruptive Defence Technologies - Challenging the future”*. The call will be organised in two stages:

First-stage: deadline for the submission of outline proposals by early September 2019

Second stage: Successful applicants will then be invited to submit full proposals

Second half of 2020: Expected timeframe for concluding grant agreements