



# The European Defence Fund

*Featuring the  
Preparatory Action  
on Defence Research*

**Infoday & Brokerage Event**  
**11 April 2019**

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**Does not represent an official legal opinion of the European Commission**

# **POLICY CONTEXT: EUROPEAN DEFENCE FUND**



## Challenges

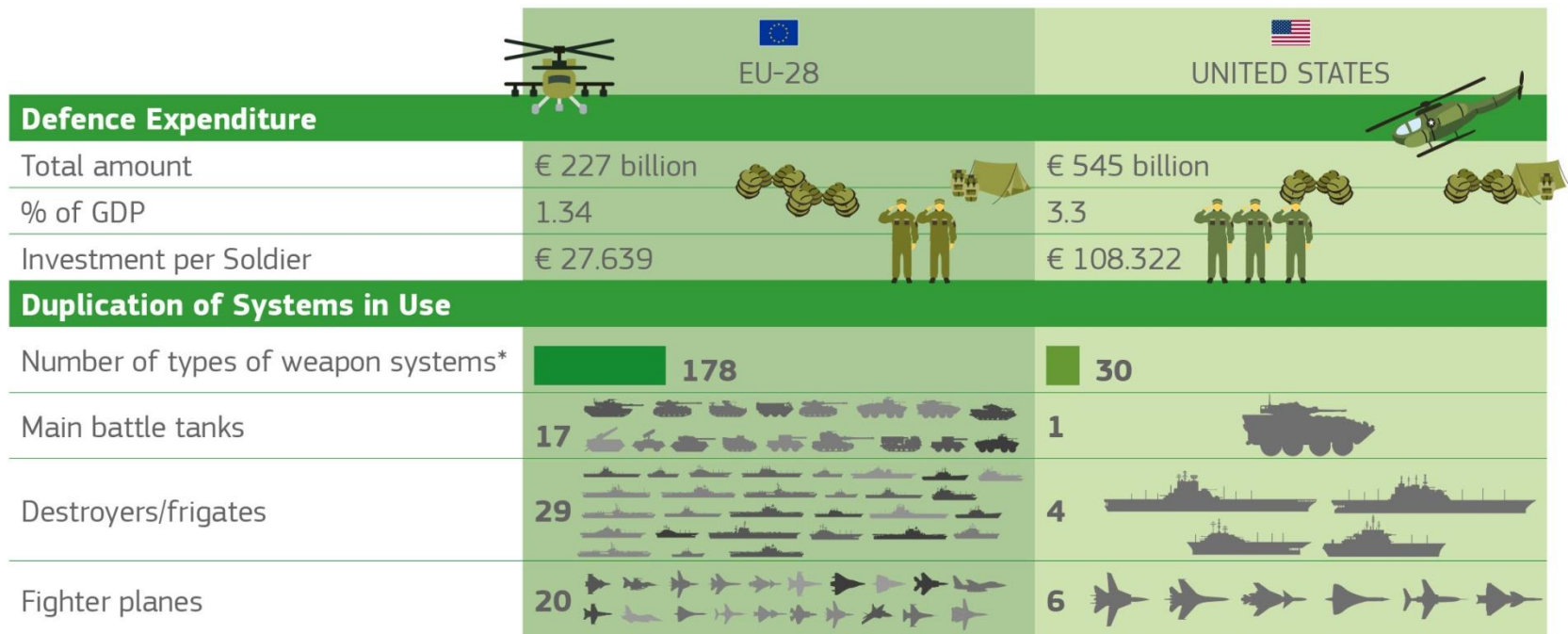
### *Security Threats*

- **To our borders**
- **Increasing complexity – hybrid**

### *Markets & Industry*

- **Fragmented**
- **Rapidly evolving – new sources of innovation**
- **Increasing global competition**

## Fragmentation ...



\* Number of types of weapon systems for selected weapon systems categories

Source: NATO, International Institute for Strategic Studies, SIPRI

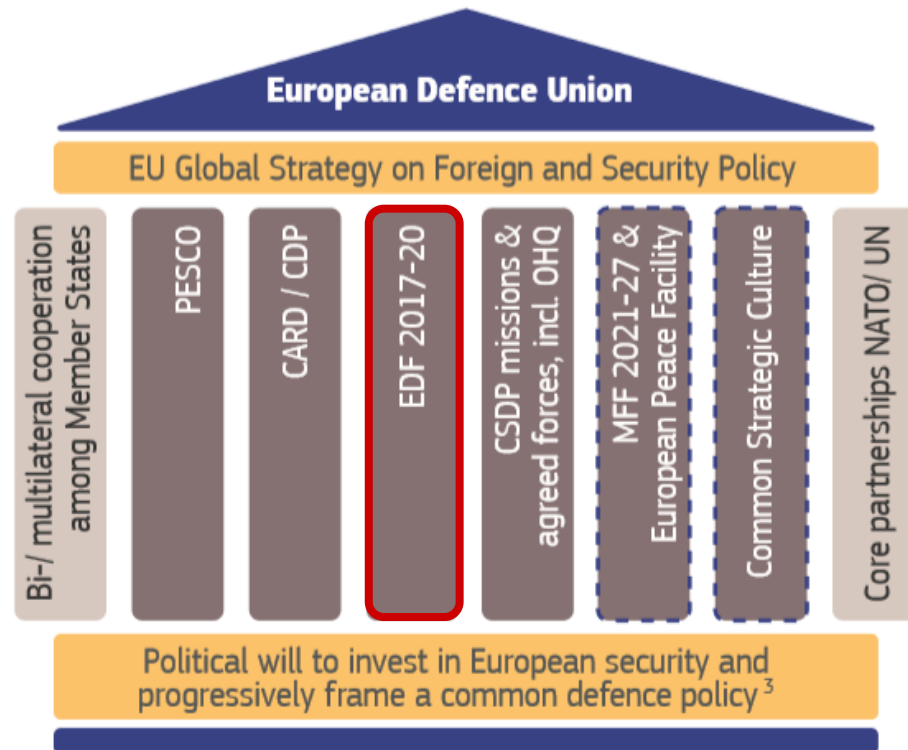
... the case for greater cooperation on defence



## European Defence Fund



# Main pillar of an ambitious European Defence Union





## European Defence Fund

**X22!!**



Source: European Commission, European Political Strategy Centre

- 2021-2027 budgets are proposals!
- Investment decisions should be based on defence capability priorities agreed by the **Member States**

## How to try something new at EU level?

- General principle:  
no legal framework – no money!
- Three exceptions for testing new actions:
  - **Pilot Project: experiment to test the feasibility and usefulness of an action (max 2 year duration)**
  - **Preparatory Action: prepare for a proposal for a new legal framework (max 3 year duration – max EUR 100 million per action)**
  - **Propose new legislation: used for the development programme (cfr. EDIDP)**





# PILOT PROJECT ON DEFENCE RESEARCH

## Three topics – three projects

- Unmanned Heterogeneous Swarm of Sensor Platforms  
**EuroSWARM**
- Inside Building Awareness and Navigation for Urban Warfare  
**SPIDER**
- Standardisation of Remotely Piloted Aircraft System (RPAS) Detect and Avoid  
**TRAWA**



# PREPARATORY ACTION ON DEFENCE RESEARCH

## PADR Objectives

- Demonstrate and assess added-value of EU supported **defence R&T**
- Results should foster further cooperation between Member States and between EU defence industries
- Prepare for a basic act to launch a substantial defence research programme from 2021 onwards

## PADR Scale and Scope

- Duration: 3 years – 2017-2019
- Requested total budget: EUR 90 million, subject to yearly decisions
- 2017 Budget: EUR 25 million **APPROVED!!**
- 2018 Budget: EUR 40 million **APPROVED!!**
- 2019 Budget: EUR 25 million **APPROVED!!**
- Bulk of the PADR budget to set-up a small defence R&T programme to prepare and test mechanisms to deliver cooperative defence research activities

## PADR Modalities (1/2)

- **Horizon 2020 "look & feel"** as close as possible but adapted to specificities of the defence sector & Financial Regulations
- Participation: legal entities established in Member States or Norway **only**
- Mainly **GRANT-based scheme** (research actions – coordination and support actions); procurement limited to studies
- IPR: **results owned by participants**; measures to inform national authorities on the outcome of the projects

## PADR Modalities (2/2)

- Evaluation based on **excellence** organised by EDA assisted by independent experts, validated by national authorities
- Funding: **100%** direct eligible costs + indirect costs (flat rate of **25%** of direct eligible costs excluding direct eligible costs for subcontracting)
- Personnel costs can be declared as **unit costs** (if this is the beneficiary's usual accounting practice)
- EU funding can only be used for R&T activities related to defence technologies, products and systems, and **not to fund military operations**

## **IMPORTANT NOTICE**

**Horizon 2020 regulation  
has not changed with  
the launch of the  
Preparatory Action on  
Defence Research**





# PADR WORKPROGRAMMES

## Structure of PADR R&T Programme

	<b>C<sup>4</sup>ISR</b>	<b>Effects</b>	<b>Force Protection and soldier systems</b>	<b>Unmanned Platforms</b>
Defence Research Demonstrator Project				
Critical Defence Technologies				
Future and Emerging Disruptive technologies				
Standardisation and Interoperability				
Strategic Technology Foresight Modalities				

## Calls of PADR Work Programme

	C <sup>4</sup> ISR	Effects	Force Protection and soldier systems	Unmanned Platforms
<b>2017</b>				
<b>2018</b>				
<b>2019</b>				
Defence Research Demonstrator Project				<b>1 project</b>
Critical Defence Technologies	<b>1 project</b>			
	<b>1 pr.</b>	<b>1 pr.</b>		
Future and Emerging Disruptive technologies	<b>2 topics – up to 8 projects</b>			
			<b>3 projects</b>	
Standardisation and Interoperability				<b>1 project</b>
<b>1 project</b>				
<b>1 project</b>				



## Call – Unmanned platforms

Technological demonstrator for enhanced situational awareness in a naval environment → 1 project **OCEAN 2020**

## Call – Force Protection and Soldier Systems

Force protection and advanced soldier systems beyond current programmes → 3 projects **GOSSRA, VESTLIFE, ACAMS II**

## Call – Strategic Technology Foresight

The European Defence Research Runway → 1 project **PYTHIA**



## **Call – Electronic Design Technologies for Defence Applications**

**European high-performance, trustable (re)configurable system-on-a-chip or system-in-package for defence applications**

**→ 1 project**

## **Call – Effects**

**Towards a European high power laser effector**

**→ 1 project**

## **Call – Strategic Technology Foresight**

**The European Defence Research Runway – part II**

**→ 1 project**



# **Outline 2019 PADR Work Programme**

**Critical Defence Technologies**  
**Strategic autonomy - Security of supply**

**Future and Emerging  
Disruptive Technologies**

**Interoperability/standardisation**



## Outline 2019 PADR Work Programme

### **Call – Electromagnetic Spectrum Dominance**

**Combined radar, communications, and electronic warfare functions based on European Active Electronically Scanned Arrays for military applications**

→ not more than 1 project to be funded

### **Call – Future Disruptive Defence Technologies**

**Challenging the future (*no predefined topics*)**

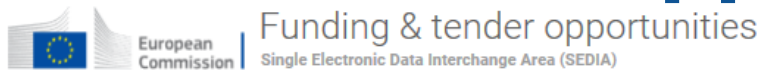
**Emerging game changers (*5 predefined topics*)**

### **Call – Unmanned systems**

**Interoperability standards for military unmanned systems**



## Calls available on the Funding and Tender opportunities Portal



Home SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Pilot Projects and Preparatory Actions (PPPA)

Type your Keywords or CPV code...

Match whole words only

GRANTS  TENDERS

Filter by submission status

FORTHCOMING  OPEN  CLOSED

Filter by programme (only for grants)

PPPA

Filter by call

Select a Call...

### Funding and tenders

Sort by:  opening date  title  ID  deadline

4 results



Download all funding and tender opportunities to your calendar or subscribe to the RSS feed (unfiltered).

See all calls for tenders published by EC

- Grant** **Combined radar, communications, and electronic warfare functions based on European Active Electronically Scanned Arrays for military applications PADR-EMS-03-2019**  
Types of action: Preparatory Action on Defence Research – Research Action | Programme: Pilot Projects and Preparatory Actions  
**Open for submission** *Opening date: 21 March 2019* *Deadline model: single-stage*  
*Deadline date: 28 August 2019 17:00:00 Bru*
- Grant** **Emerging Game-changers PADR-FDDT-EMERGING-03-2019**  
Types of action: Preparatory Action on Defence Research – Research Action | Programme: Pilot Projects and Preparatory Actions  
**Open for submission** *Opening date: 21 March 2019* *Deadline model: single-stage*  
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# CALL FOR EXPERTS



European  
Commission

## Call for Experts

European Commission | Funding & tender opportunities  
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | **WORK AS AN EXPERT** | SUPPORT

### Pilot Projects and Preparatory Actions (PPPA)

#### Work as an expert

The European Union Institutions appoint external experts to assist in the evaluation of grant applications, projects and tenders, and to provide opinions and advice in specific cases.

Being an expert for the European Commission – ...  
Watch later Share

In particular, experts assist in:

- Evaluation of proposals, prize applications and tenders
- Monitoring of actions, grant agreements, public procurement contracts

In addition, experts provide opinion and advise on:

- Preparation, implementation and evaluation of EU programmes and design of policies.

In order to select experts, the European Union Institutions publish regularly calls for expression of interest (see list below) detailing the selection criteria, the required expertise, the description of the tasks, their duration and the conditions of remuneration.

Interested? Please join the database of external experts!

- **Experts need to be validated by national authorities**
- **Experts need appropriate personal security clearance**

**THANK YOU FOR YOUR  
ATTENTION**

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