



The Preparatory Action on Defence Research

*introducing the
European Defence Fund*

Infoday & Brokerage Event
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Does not represent an official legal opinion of the European Commission

POLICY CONTEXT: EUROPEAN DEFENCE FUND



Challenges

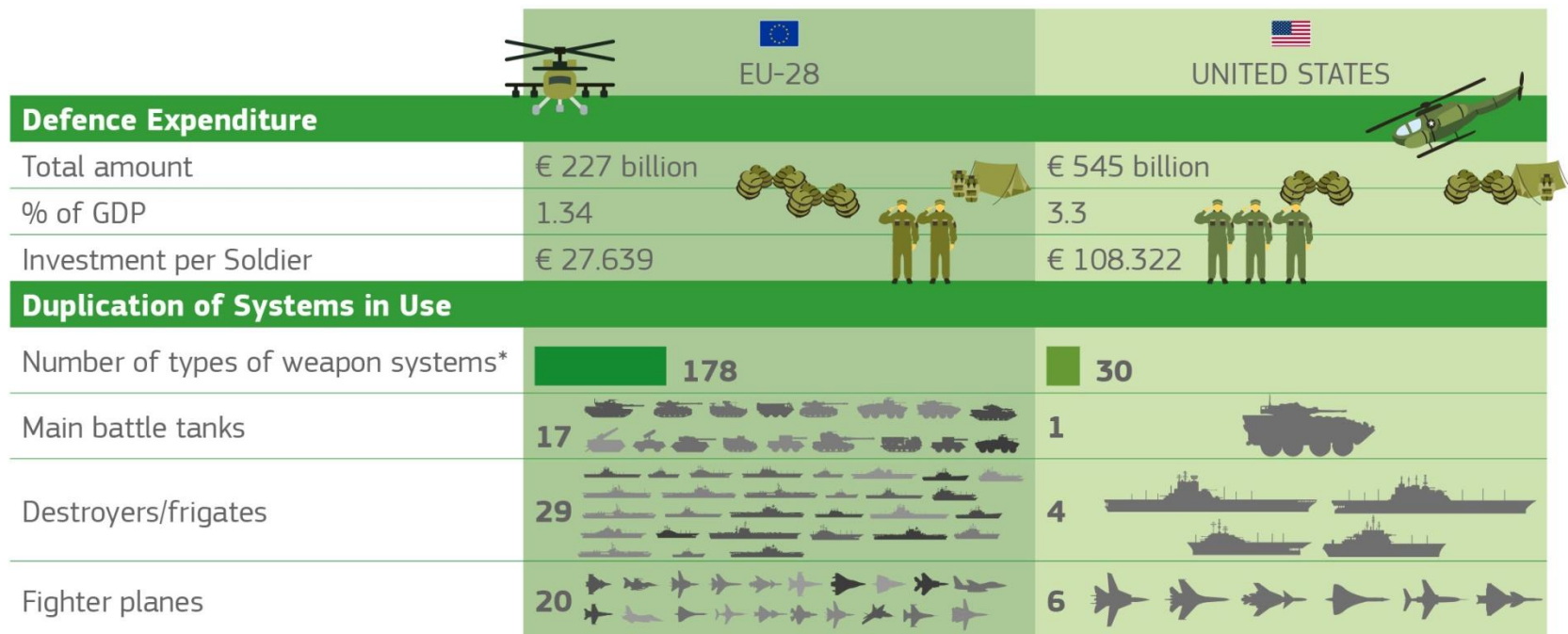
Security Threats

- **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

Capability Window

Research Window

Research



- ▶ EU funding



Development



- ▶ Pooling of national contributions
- ▶ EU co-financing



**European Defence
Industrial Development
Programme**

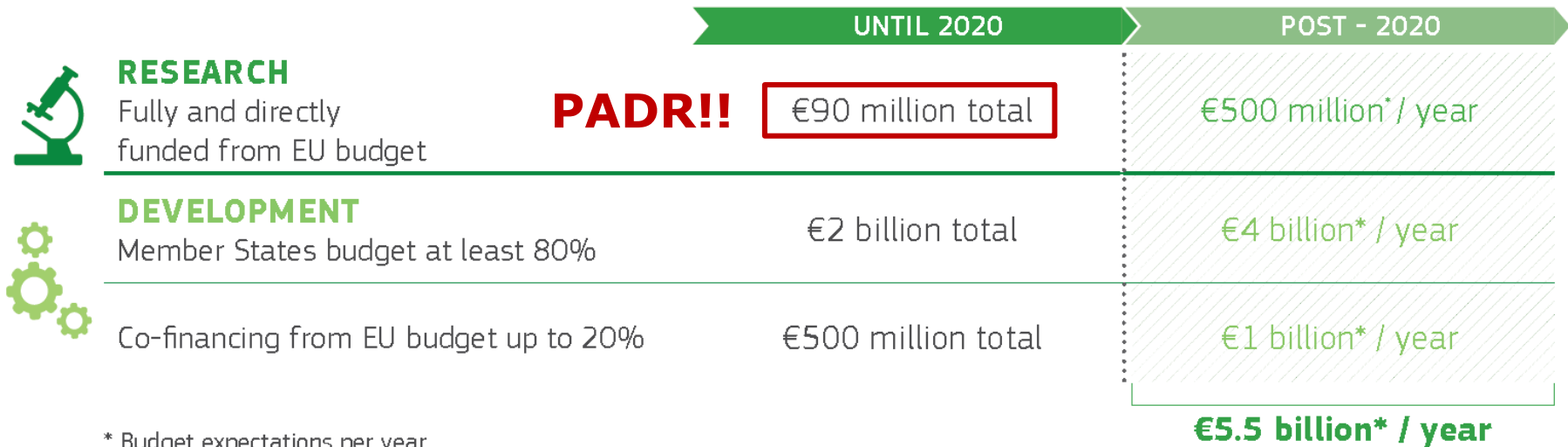
Acquisition



- ▶ Practical support by European Commission



European Defence Fund



- All 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**



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!!**
- 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
- Mainly **GRANT-based scheme** (research actions – coordination and support actions); procurement limited to studies
- Participation: legal entities established in Member States or Norway **only**
- Evaluation based on **excellence** organised by EDA assisted by independent experts, validated by national authorities

PADR Modalities (2/2)

- 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**
- IPR: **results owned by participants**; measures to inform national authorities on the outcome of the projects

IMPORTANT NOTICE

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

Structure of PADR R&T Programme

	C⁴ISR	Effects	Force Protection and soldier systems	Unmanned Platforms
Defence Research Demonstrator Project				
Critical Defence Technologies				
Future and Emerging Disruptive technologies				
Standardisation and Interoperability				
Strategic Technology Foresight Modalities				



PADR WORKPROGRAMMES

PADR Work Programmes

	C ⁴ ISR	Effects	Force Protection and soldier systems	Unmanned Platforms
Defence Research Demonstrator Project				2017
Critical Defence Technologies	2018	2018		
Future and Emerging Disruptive technologies			2017	
Standardisation and Interoperability				
Strategic Technology Foresight Modalities				



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**



Outline 2018 PADR Work Programme

FOCUS

Critical Defence Technologies

**Strategic autonomy
Security of supply
(including no end-user restrictions)**



Outline 2018 PADR Work Programme

Call – Electronic Design Technologies for Defence Applications

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

Call – Effects

Towards a European high power laser effector

Call – Strategic Technology Foresight

The European Defence Research Runway – part II



European Commission

Calls available on Participant Portal

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- Pilot Projects & Preparatory Actions**
- Promotion of Agricultural Products
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Calls for Proposals

Pilot Projects and Preparatory Actions

[Advanced search for topics](#)
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Pilot projects (PP) and Preparatory Actions (PA) introduce **new initiatives** that might turn into standing EU funding programmes. A **Pilot Project** is an initiative of an experimental nature designed to test the feasibility of an action and its usefulness and lasts not more than two years. A **Preparatory Action** - normally the successor of a successful pilot project on the same matter - is designed to prepare new actions like EU policies, legislation, programmes etc. with funding for not more than three years. For more information on the Pilot Projects and Preparatory Actions see the [annual report on pilot projects and preparatory actions](#).

Status Calls with forthcoming topics Calls with open topics Calls with only closed topics

Sort by Call title Call identifier Publication date

Preparatory Action on Defence Research (PADR) Strategic Technology Foresight PADR-STF-2018 Publication date: 15 March 2018	Preparatory Action on Defence Research (PADR) Electronic Design Technologies for Defence Applications PADR-EDT-2018 Publication date: 15 March 2018	Preparatory Action on Defence Research (PADR) Effects PADR-EF-2018 Publication date: 15 March 2018
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[Pilot Projects and Preparatory Actions on Communications](#)

CALL FOR EXPERTS



Call for Experts

A screenshot of the European Commission Participant Portal website. The page is titled "RESEARCH & INNOVATION Participant Portal". It features a navigation menu with options like HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, PROJECTS & RESULTS, EXPERTS, and SUPPORT. A search bar is visible in the top right. The main content area is divided into sections: "News" with several articles, "Experts" with a "H2020 ONLINE MANUAL" button, and "New experts" with a "REGISTER AS EXPERT" button highlighted in a red box. The "Who can be an expert?" section lists criteria such as high-level expertise and availability for occasional assignments. The "What do expert assignments involve?" section lists tasks like evaluation of proposals and monitoring of actions.

- **Experts need to be validated by national authorities**
- **Experts need personal security clearance (CONFIDENTIEL UE/EU CONFIDENTIAL or equivalent)**

EUROPEAN DEFENCE RESEARCH PROGRAMME

***UNDER THE
EUROPEAN DEFENCE FUND***

EDRP

- Multiannual Financial Framework post 2020
- Estimated budget: EUR 500 million per year
- Adoption of the proposal, accompanied by an impact assessment, in 2018
- Focus on targeted research activities supporting the development of defence-related products and innovative technologies.
- Programme should be capability-driven and focus on critical defence technologies as well as exploratory and disruptive research with the potential to strengthen the technological leadership of the European defence industry.

EDRP : Points to note

- **Legal issues:** precise relationship with the successor to Horizon 2020 needs to be determined
- **Financing:** separate from and not affect the civilian research programme
- **Priorities-setting:** Member States will identify, with the help of the EDA, the defence capability priorities and the R&T priorities. The Commission will take these into account in the EDRP.
- **Governance:** tailor made governance structure, reflecting the specificities of the defence sector; Commission, EDA, Member States, Industry.
- **Modalities:** EDRP should attract broad participation of different actors, including SMEs.

**THANK YOU FOR YOUR
ATTENTION**

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