



The Preparatory Action on Defence Research

*in the context of the
European Defence Fund*

**Preparatory Action on Defence
Research**

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

POLICY CONTEXT: EUROPEAN DEFENCE FUND



Challenges

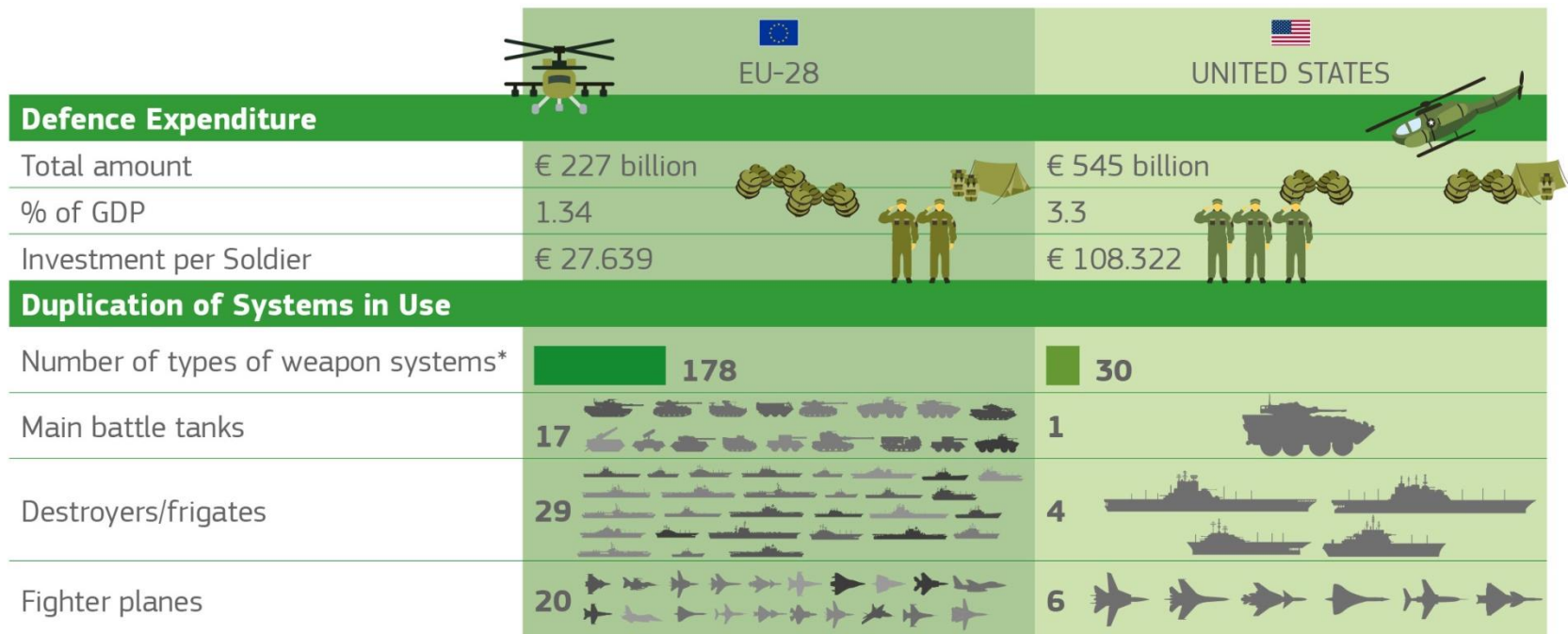
Security Threats

- **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 Framework

July 2014

President Juncker makes a stronger Europe in security and defence one of his Commission's 10 priorities

July 2016

EU-NATO sign Joint Declaration on cooperation in Warsaw

September 2016

Bratislava summit: Leaders agree to give new impetus to security and defence

November 2016

- Member States agree implementation plan on security and defence
- Commission proposes European Defence Action Plan to increase research and capabilities

December 2016

- EU and NATO endorse common set of proposals for implementation of Warsaw Declaration
- European Council endorses implementation of Defence Action Plan, Global Strategy and Warsaw Declaration

March 2017

Rome Declaration: Leaders agree to create a more competitive and integrated defence industry

June 2017

- Commission to present proposals for a European Defence Fund
- Commission to present a *Reflection paper on the future of European Defence by 2025*
- Prague high-level European conference on defence and security

European Defence Action Plan

President Juncker –

"For European defence to be strong, the European defence industry needs to innovate"

Objectives:

- **Support EU defence collaboration**
- **Ensure EU retains industrial capacity in key areas**
- **Support competitive industry & innovative EDTIB**



European Defence Action Plan

- Focus on defence capability needs and support to the European Defence Industry
- Main pillars
 - **Launching a European Defence Fund**
 - **Fostering investments in defence supply chains**
 - **Reinforcing the single market for defence**
 - **Civil/military synergies**



European Defence Fund

Capability Window

Research Window

Research



- ▶ EU funding



**Preparatory Action on Defence Research
European Defence Research Programme**

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 – EXCEPTIONAL**



PILOT PROJECT ON DEFENCE RESEARCH

Three topics – three projects

- Unmanned Heterogeneous Swarm of Sensor Platforms
EuroSWARM (Cranfield University, 434 k€, 12M)
- Inside Building Awareness and Navigation for Urban Warfare
SPIDER (TEKEVER, 433 k€, 12M)
- Standardisation of Remotely Piloted Aircraft System (RPAS) Detect and Avoid
TRAWA (NLR, 433 k€, 18M)



PREPARATORY ACTION ON DEFENCE RESEARCH

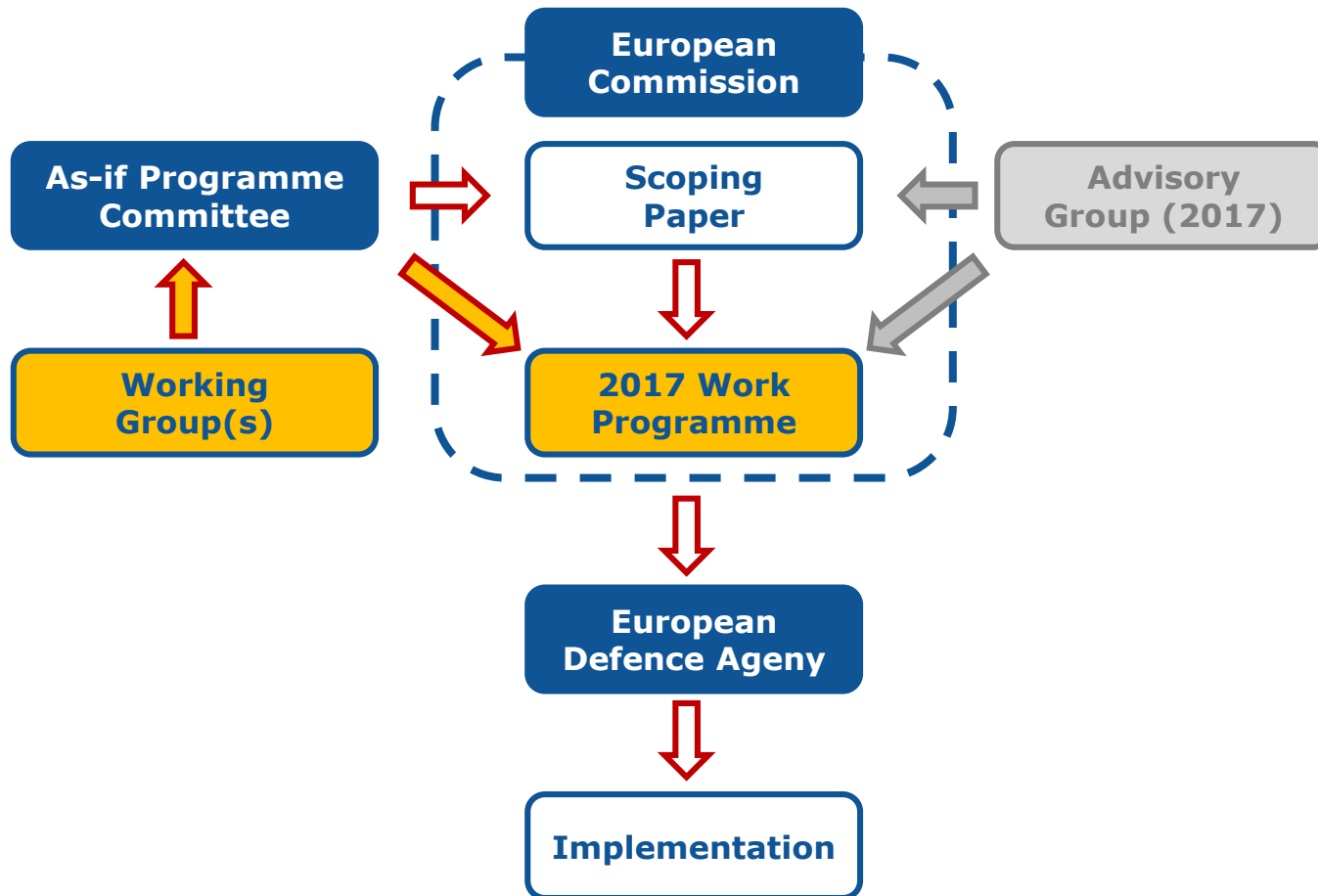
PADR Objectives

- 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 **REQUESTED**
- 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

2017 PADR Governance



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**¹
- Evaluation based on **excellence** organised by EDA assisted by independent experts, validated by national authorities

¹Subject to amendment of Protocol 31 to the EEA Agreement

PADR Modalities (2/2)

- Funding: **100%** direct eligible costs + indirect costs (flat rate of **25%** of direct eligible costs)
- 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

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				



2017 WORKPROGRAMME

2017 PADR Work Programme

<p>Commission Decision on "the financing of the 'Preparatory action on Defence research' and the use of unit costs for the year 2017" C(2017)2262</p>	<p>C⁴ISR</p>	<p>Effects</p>	<p>Force Protection and soldier systems</p>	<p>Unmanned Platforms</p>
<p>Defence Research Demonstrator Project</p>				<p>2017</p>
<p>Critical Defence Technologies</p>				
<p>Future and Emerging Disruptive technologies</p>			<p>2017</p>	
<p>Standardisation and Interoperability</p>				
<p>Strategic Technology Foresight Modalities</p>				



Calls available on Participant Portal

(A-Z) Sitemap About this site Contact Legal Notice Search English

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- Justice Programme
- Pilot Projects & Preparatory Actions**
- Promotion of Agricultural Products
- Research Fund for Coal & Steel
- Rights, Equality and Citizenship Programme
- Union Civil Protection Mechanism

Calls for Proposals

Pilot Projects and Preparatory Actions

[Advanced search for topics](#)
[Calls for tenders on TED](#)



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 III (PADR) Technological demonstrator for enhanced situational awareness in ... PADR-US-2017 Publication date: 07 June 2017	Preparatory Action on Defence Research III (PADR) Force protection and advanced soldier systems beyond current programmes PADR-FPSS-2017 Publication date: 07 June 2017	Preparatory Action on Defence Research III (PADR) The European Defence Research Runway PADR-STF-2017 Publication date: 07 June 2017
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In addition to the search facilities, the full list of Union Civil Protection Mechanism Programme Calls can be found [here](#).

EDA CALL FOR EXPERTS



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REGISTER

Call for experts in the field of Defence Research 7/06/2017

1. The European Defence Agency (EDA) is launching a call for experts to be registered in the European Commission's Participant Portal and who can be called on in connection with the Preparatory Action on Defence Research (PADR) (2017-2021), for the following tasks:

- evaluation of proposals
- monitoring of the implementation of activities
- ethics reviews, checks and audits

2. EDA is looking for experts with a high level of expertise and professional experience in a military context, in one or more of the following areas:

- Unmanned Platforms
- Command, Control, Communications, Computers, Intelligence, Surveillance and reconnaissance (C4ISR)
- Effects
- Force Protection and Soldier Systems
- Military Cyber protection

**EXPERTS
VALIDATION!**

EUROPEAN DEFENCE RESEARCH PROGRAMME (EDRP)

COM(2017)295

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.
- EDRP 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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