

EUROPEAN DEFENCE FUND

Opportunities offered by the European Defence Fund: focus on cyber defence and digital transformation

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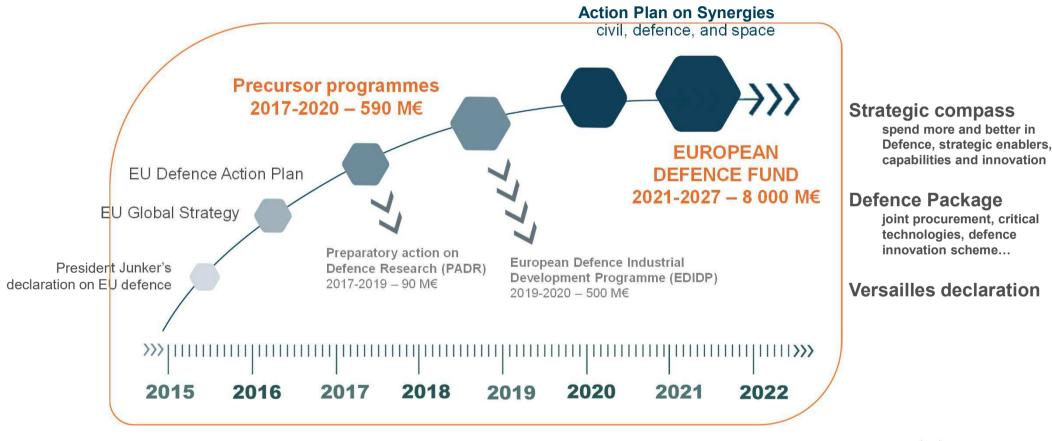


European Policy on Cyber Defence (EPCD)

- EU cyber defence to protect, detect, deter and defence against cyberattacks.
- Act together for a stronger cyber defence
 - Strengthen common situational awareness and coordination within defence community
 - Enhance coordination with civilian communities
- Secure the EU defence eco-system
 - Enhance the cyber resilience of the defence ecosystem
 - Ensure EU cyber defence interoperability and coherence of standards
- Invest in cyber defence capabilities
 - Develop full-spectrum state-of-the-art cyber defence capabilities
 - Agile, competitive and innovative European defence industry
 - EU cyber defence workforce
- Partner to address common challenges
 - Cooperation with NATO and like-minded partners
 - Cyber defence capacity building support for partner countries



Ramping-up the EU's ambition for a more collaborative approach to defence capabilities building



DEFENCE CROSS-BORDER R&D



European Defence Fund: The EU defence R&D programme

Support collaborative and crossborder research and development projects, including disruptive technologies

Contribute to the competitiveness and innovation capacity of the **EDTIB**

Encourage the participation of **SMEs** and other actors not usually active in the defence field

Help reducing fragmentation of the European defence and landscape

Build partnerships between defence actors. on both demand and supply sides

Help maximising the outcome of defence spending

Lead to close defence technological gaps

Strengthen other security and defence initiatives

Strenathen Europe's resilience and strategic autonomy

€8 billion for 2021-2027 EDF financial support mainly in the form of grants

Development ##

EU co-financing with Member States

€5.3 billion

for 2021-2027

European Defence Fund

- Open to EU Member States and Norway

EU budget

€2.7 billion

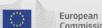
for 2021-2027

Research

Research 29

Security-based participation conditions for entities controlled by third-countries

#EUDefenceIndustry



Acquisition 1

(Member States budget)

Financial

toolbox



Eligibility conditions

Consortia: at least 3 eligible entities from 3 different MS/Norway (2 for disruptive call)

Compliance with international law and high ethics standards

Recipients & main subcontractors + Infrastructure, facilities, assets and resources for the action located in EU or Norway

Entities established in 3rd countries can be associated if security-specific conditions are met, but no EDF financial support

Recipients and main subcontractors not subject to control by 3rd country/entity

<u>Derogation possible</u> if approved security-specific guarantees can be provided

No restrictions nor control by 3rd country/entity on results

+ specific to development actions

Co-financing where needed

Harmonised defence capability requirements jointly agreed by at least 2 MS/NO for design

Intention to procure & common technical specifications for system prototyping+ activities





EDF CATEGORIES OF ACTIONS

Addressed by annual work programmes & calls for proposals





Medical response, CBRN & human factors



Information superiority



Sensors







Digital transformation



Energy resilience & environmental transition



Materials and components



Air combat



Air and Missile defence



Ground combat



Force protection and mobility



Naval combat



Underwater warfare



Simulation and training





Disruptive technologies



Innovative defence technologies

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EDF Work Programme 2022 EUR 924 million

8 calls	for propos	sais	33 topics Opening of the ca	alis: 21	June 20	22	Dea	adline for submission: 24 November	2022
4	Medical Response & CBRN	•	Diagnostics, treatment, transport and monitoring of highly contagious, injured and/or contaminated personnel FPA on medical countermeasures	25 M€ n.a.		Air combat	•	Airbome electronic warfare	40 M€
R	Information superiority	•	SES interoperability European command and control Special operations command post	20 M€ 30 M€ 20 M€		Ground combat	•	Collaborative ground combat	50 M€
	Sensors	•	Covert sensing	20 M€		Protection & Mobility	•	Medium size tactical cargo	30 M€
	Selisois	•	Advanced radar technologies	15 M€		Naval combat	•	Medium size semi-autonomous vessel Naval collaborative surveillance	65 M€ 65 M€
iv;	Cyber	•	Adapting Cyber Situational Awareness Cyber and information warfare toolbox Cybersecurity and systems for improved resilience	10 M€ 33 M€ 27 M€	£	Underwater warfare	•	Underwater manned-unmanned teaming and swarms Underwater ODAC	25 M€ 30 M€
	Space	•	Responsive space system Innovative space ISR capabilities Space-based missile early warning	20 M€ 40 M€ 90 M€		Simulation and training	•	Modelling, simulation and simulators integration	30 M€
(Digital	transformation	:	Hidden threats detection (challenge, 2 topics) Shared databases for image recognition	25 M€ 25 M€		e technologies	•	Adaptive camouflage Electromagnetic artillery demonstrator Non-thematic research	15 M€ 15 M€ 10 M€
96 ,	Energy & Environment	•	Sustainable components for underwater applications	20 M€		SMEs	•	Non-thematic research for SMEs and ROs Non-thematic development for SMEs	17.6 M€ 36.5 M€
	Materials & Components	•	Packaging technologies for critical components Smart and multifunctional textiles	25 M€ 20 M€	+	Others	•	CSA for national focal points External expertise, audits and IT systems Business coaching for SMEs Blending facility for equity funding for SMEs/Mid-Caps	1,5 M€ 3 M€ 20 M€

Development

Legend:

Research

Support so far for cyber:

From pre-cursor programmes, **62 projects** funded, with more than **6 cyber defence projects**.

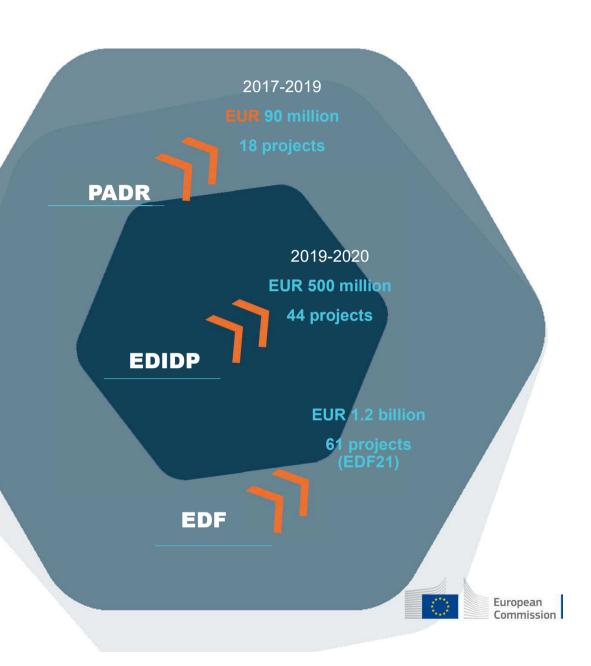
Cyber Defence projects such as: PANDORA, DISCRETION, CYBER4DE, ECYSAP, SMOTANET, HERMES and ESC2.

EDF21:

ACTING Related PESCO project: EU Cyber Academia and Innovation Hub (EU CAIH)

Alnception

EU-GUARDIAN: Related PESCO project: Strategic C2 System for CSDP Missions and Operations (EUMILCOM)



EDF 2022 cyber category calls

- In 2022 for cyber category more than double funding than in 2021
- Cybersecurity important "element" in other categories (horizontal)
- Under SME and disruptive non-thematic open call(s) possible to address cyber topics

Categories of Action	Budget	Topics	Description
	Research 10M€	R-CSACE: Adapting Cyber Situational Awareness	Aims to develop novel solutions leveraging full-spectrum cyber defence (physical, logical, cyber persona) under an adversarial-focused perspective.
EDF-2022- CYBER Cyber	Develop- ment 33M€	D-CIWT: Cyber and information warfare toolbox	Development of a European coherent library of software configurable components to easily integrate in Cyber and Information Warfare systems.
	Develop- ment 27M€	D-CSIR: Cybersecurity and systems for improved resilience	To prepare, design and/or demonstrate a Cyber Physical Test lab with hardware and software tools supporting.

Dedicated support to SMEs in the EDF

- Non-thematic calls dedicated to or focused on SMEs
- SME bonus & award criterion favouring the inclusion of SMEs in consortia in thematic calls
- Business coaching



EDF 2022 open calls for SMEs

Calls / Budget	Topics / Targeted activities	Comments	Comments
EDF-2022-LS-RA- SMERO Research 17.6 M€	R-SME: Non-thematic research actions by SMEs and research organisations One or more among all eligible activities for research actions. No Studies alone	 Several actions Lump sums Max 4 M€ per action Up to 30% funding 	 Consortium of SMEs and research organisations, coordinated by an SME Up to 40% of funding to research organisations
EDF-2022-LS-DA-SME Development 36.5 M€	D-SME: Non-thematic development actions by SMEs One or more among all eligible activities for development actions with at least one from Design and beyond	in subcontracting per beneficiary • Business coaching for SMEs	Consortium of SMEs only



Disruptive technologies for defence under the EDF

General principles

- 4-8% of the EDF total budget for disruptive technologies
- Thematic calls and/or non-thematic (OPEN) calls
- Derogation in the min. number of consortium members: at least 2 eligible entities from at least 2 Member States or associated countries).

OPEN Calls:

- Several actions to be funded
- Max 4M€ per action
- Business coaching for SMEs

definition:

Technologies the application of which can radically change the concepts and conduct of defence affairs.

EDF 2022- disruptive calls

- €40 M for research actions (4,3% of the EDF WP22 total budget)
- 3 topics: 2 thematic and 1 non-thematic, with dedicated budget.

EDF 2022



EDF 2022: disruptive technologies call

Categories of Action	Budget	Topics		Comments	
	Research 40M€	Innovative technologies for adaptive camouflage	15M€	Addressing " <u>adaptive</u> " camouflage for protection of <u>Land Systems (both soldiers and platforms)</u> .	
EDF-2022- RA-DIS Disruptive technologies for defence applications		Electromagnetic artillery demonstrator	15M€	The objective is to solve the current technical challenges and increase the maturity of the critical components (namely (1) the electromagnetic gun, (2) the pulsed power supply and (3) the hypervelocity projectile) required to develop a medium calibre electromagnetic artillery whole system. This topic complements ongoing projects.	
		Non-thematic research actions targeting disruptive technologies for defence	10M€ (max 4M€ per project)	No pre-defined topic.	



EU Defence Innovation Scheme (EUDIS)

What is **EUDIS**

- The Commission initiative to
 - bring under one umbrella existing EU defence initiatives
 - launching new activities in support of defence innovation



Total ~ €2 Billion in defence innovation (2021-2027)

~ €1.46 Billion from EDF + expected co-funding (MS, other public and private sources)



Finding partners

- Enterprise Europe Network: Sector Group Aeronautics, Space & Defence (een.ec.europa.eu)
- European Network of Defence-related Regions (<u>www.endr.eu</u>)
- EU-level & national EDF Info Days
- Participation to exhibitions, B2B events
- Network enhancers (National Focal Points, RTOs, ...)



Useful links

- General information on the EDF on DG DEFIS website
 (including EDF annual work programmes and multiannual perspective)
- EDF Calls for proposals on the *Funding and Tenders portal* (where to apply)
- EDF Reference documents on the *Funding and Tenders portal*(Regulation, conditions to apply, submission templates, model grant agreements, etc.)
- National Focal Points Network
- Remaining questions regarding application to EDF calls for proposals?
 - → <u>DEFIS-EDF-PROPOSALS@ec.europa.eu</u>



Thank you! Any questions?

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