



**EUROPEAN
DEFENCE
FUND**

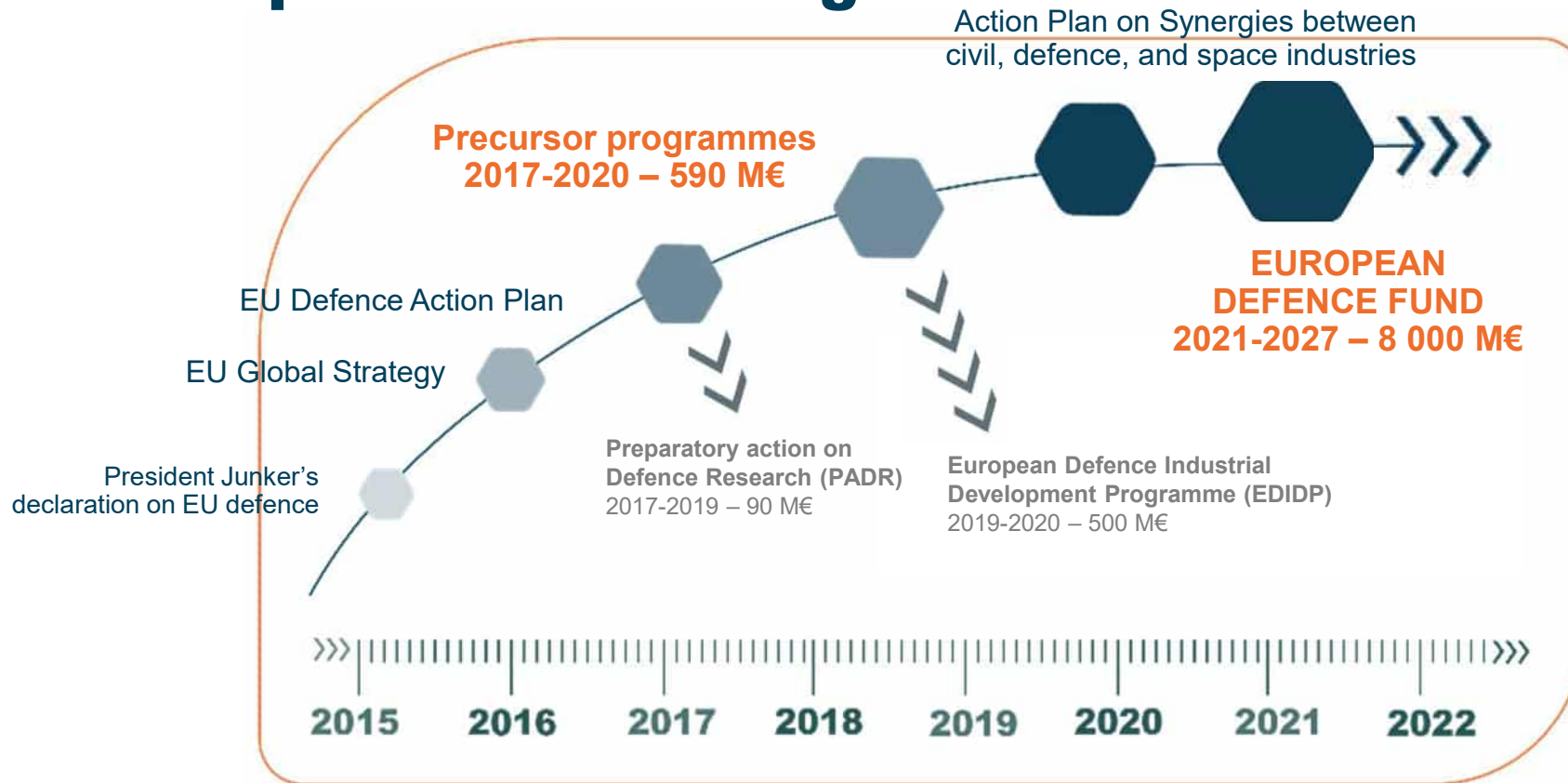
Opportunities in EDF/EUDIS for disruptive tech researchers

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

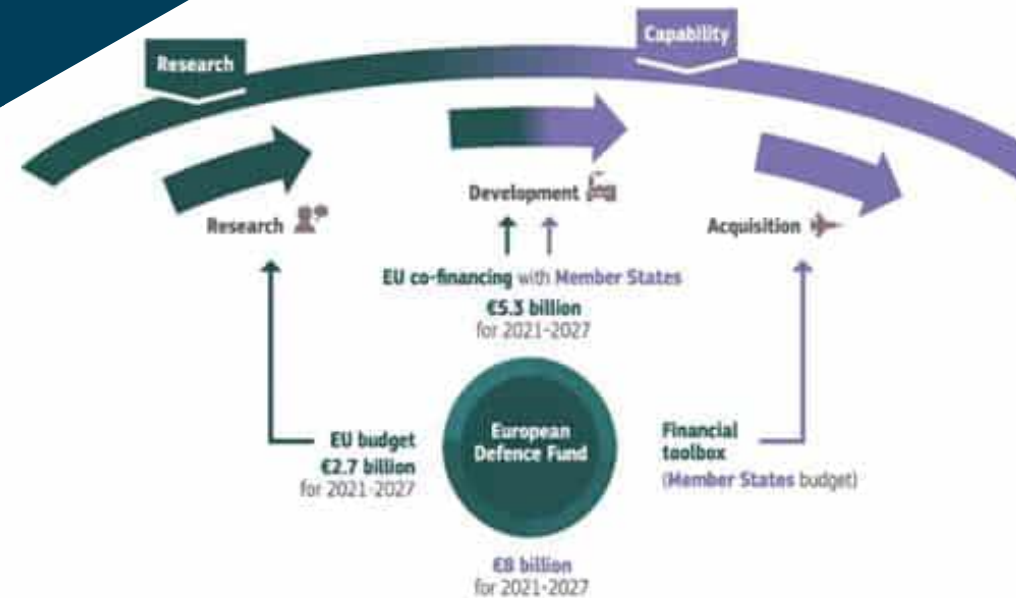


Strategic Compass
 (spend more and better in Defence, strategic enablers, cutting edge capabilities and innovation)

Defence Package
 (joint procurement, critical technologies, EU Defence Innovation Scheme)

DEFENCE CROSS-BORDER R&D

European Defence Fund : The EU defence R&D programme



- **EDF financial support mainly in the form of grants**
- **Open to EU Member States and Norway**
- **Security-based participation conditions for entities controlled by third-countries**

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Disruptive technologies under the EDF

General principles

- 4-8% of the EDF total budget
- Thematic calls and/or open calls
- 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

Disruptive
Tech
Open Call -
EDF WP 23

SME
Research
Action
Open calls -
EDF WP 23

Definition:

Technologies that bring a radical change, incl. a paradigm shift in the concept and conduct of defence affairs.

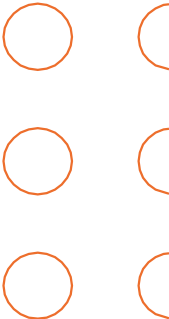
EDF CATEGORIES OF ACTIONS

Addressed by annual work programmes & calls for proposals



-  **Medical response, CBRN & human factors**
-  **Information superiority**
-  **Sensors**
-  **Cyber**
-  **Space**
-  **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**



Horizontal categories

-  **Disruptive technologies**
-  **Innovative defence technologies (SMEs)**

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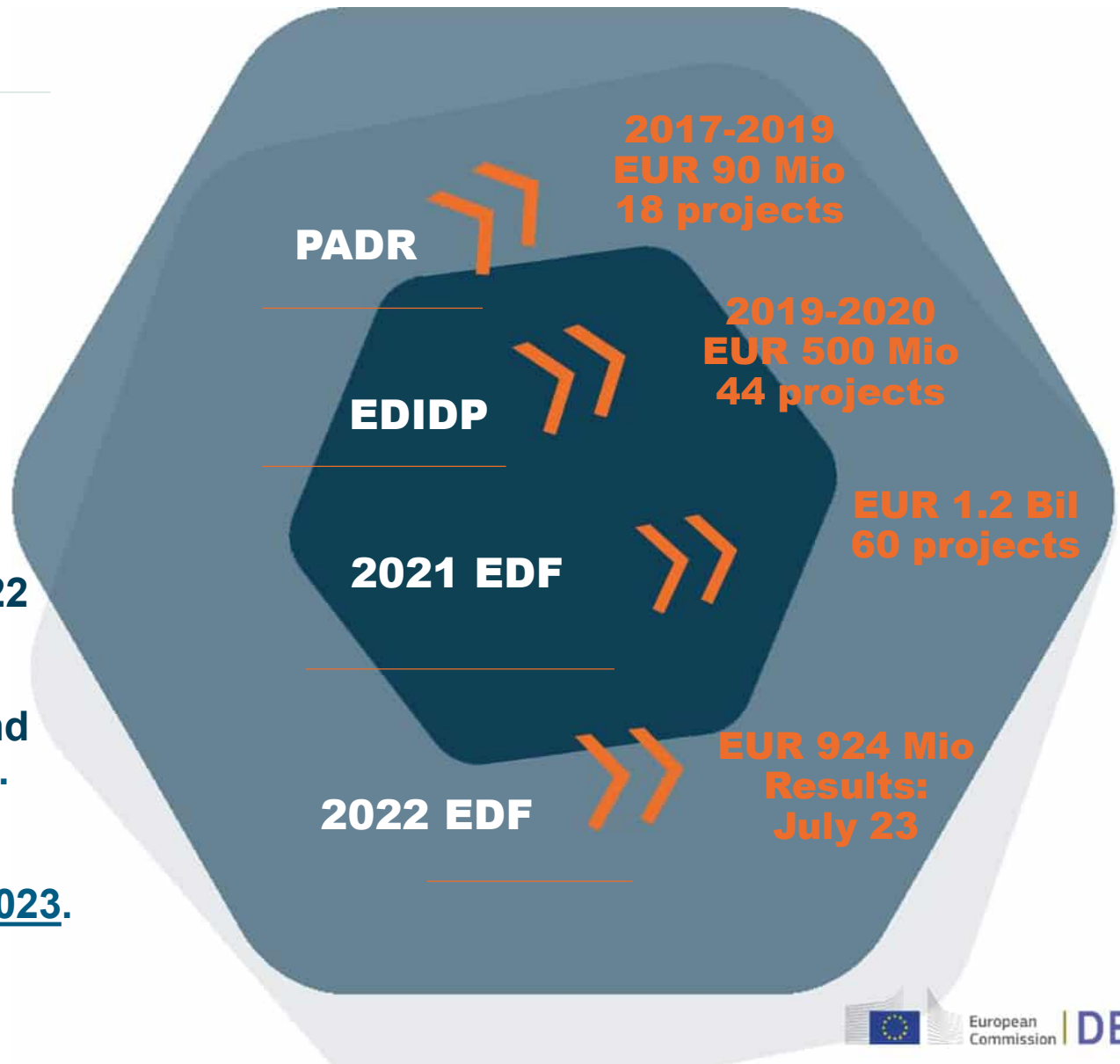
Support so far

122 projects already funded,
4 quantum projects.

Quantum Tech projects:
ADEQUADE, Q-SING (2021)
DISCRETION (2020),
QUANTAQUEST (2019)

33 EDF call topics results from 2022
to be announced in July 2023,
including results from
Disruptive Tech Call (40 M EUR) and
SME Open Research (17.6 MEUR).

[EDF WP 2023 – published on 30/03/2023.](#)



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EU Defence Innovation Scheme EUDIS

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HOW MUCH IS PROPOSED IN THE 2021-2027 MFF?

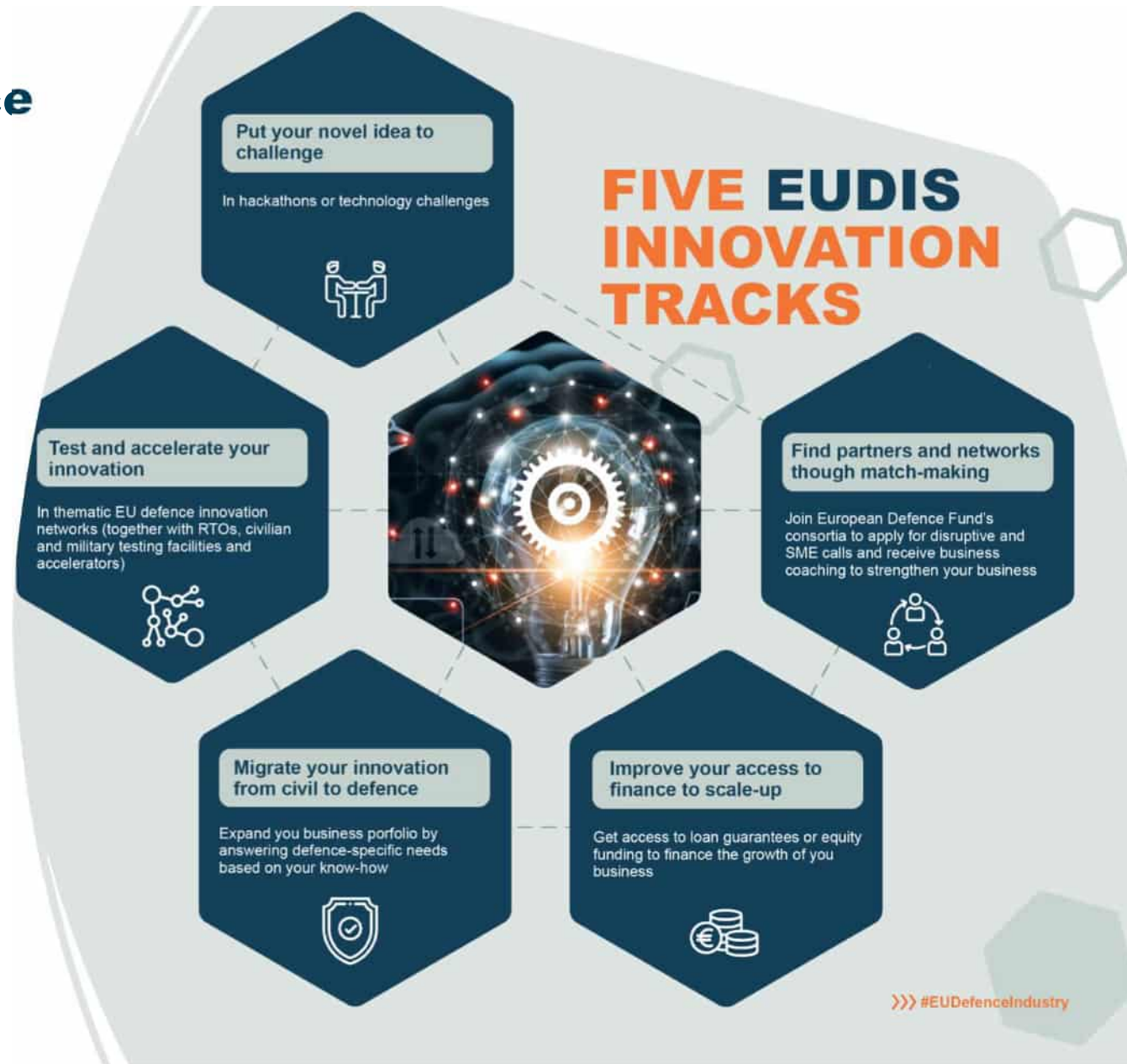
It is expected that the **EU Defence Innovation Scheme** will see a total investment of nearly **€2 Bn**



EUDIS - a stronger defence innovation ecosystem throughout the EU

- Aims to embrace the whole innovation ecosystem by offering tailored measures
- Gradual implementation
- Many opportunities, depending on innovation maturity level
- 300-400 innovative & scalable SMEs annually
- In close cooperation with Member States
- In close articulation with EDA's HEDI and relevant NATO initiatives

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Useful information

- 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)
- National Focal Points Network
- Remaining questions regarding application to EDF calls for proposals?
→ DEFIS-EDF-PROPOSALS@ec.europa.eu
- **Come to EDF Info Days 2023 - 28&29 June in Brussels and online!**

Thank you!

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Back-up slides

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EDF Work Programme 2022


EUR 924 million

8 calls for proposals

33 topics

Opening of the calls: 21 June 2022

Deadline for submission: 24 November 2022

 Medical Response & CBRN	<ul style="list-style-type: none"> Diagnostics, treatment, transport and monitoring of highly contagious, injured and/or contaminated personnel 25 M€ FPA on medical countermeasures n.a. 	 Air combat	<ul style="list-style-type: none"> Airborne electronic warfare 40 M€
 Information superiority	<ul style="list-style-type: none"> SES interoperability 20 M€ European command and control 30 M€ Special operations command post 20 M€ 	 Ground combat	<ul style="list-style-type: none"> Collaborative ground combat 50 M€
 Sensors	<ul style="list-style-type: none"> Covert sensing 25 M€ Advanced radar technologies 15 M€ 	 Protection & Mobility	<ul style="list-style-type: none"> Medium size tactical cargo 30 M€
 Cyber	<ul style="list-style-type: none"> Adapting Cyber Situational Awareness 10 M€ Cyber and information warfare toolbox 33 M€ Cybersecurity and systems for improved resilience 27 M€ 	 Naval combat	<ul style="list-style-type: none"> Medium size semi-autonomous vessel 65 M€ Naval collaborative surveillance 65 M€
 Space	<ul style="list-style-type: none"> Responsive space system 20 M€ Innovative space ISR capabilities 40 M€ Space-based missile early warning 90 M€ 	 Underwater warfare	<ul style="list-style-type: none"> Underwater manned-unmanned teaming and swarms 25 M€ Underwater ODAC 30 M€
 Digital transformation	<ul style="list-style-type: none"> Hidden threats detection (challenge, 2 topics) 25 M€ Shared databases for image recognition 25 M€ 	 Simulation and training	<ul style="list-style-type: none"> Modelling, simulation and simulators integration 30 M€
 Energy & Environment	<ul style="list-style-type: none"> Sustainable components for underwater applications 20 M€ 	 Disruptive technologies	<ul style="list-style-type: none"> Adaptive camouflage 15 M€ Electromagnetic artillery demonstrator 15 M€ Non-thematic research 10 M€
 Materials & Components	<ul style="list-style-type: none"> Packaging technologies for critical components 25 M€ Smart and multifunctional textiles 20 M€ 	 SMEs	<ul style="list-style-type: none"> Non-thematic research for SMEs and ROs 17.6 M€ Non-thematic development for SMEs 36.5 M€
		 Others	<ul style="list-style-type: none"> CSA for national focal points 1,5 M€ External expertise, audits and IT systems 3 M€ Business coaching for SMEs Blending facility for equity funding for SMEs/Mid-Caps 20 M€

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Legend: Research Development

1
2

Eligibility conditions

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

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

Derogation possible if approved security-specific guarantees can be provided

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

Compliance with international law and high ethics standards

+ 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

EU funding rates

Research vs Development

Research actions

Activity type	EU funding rate
Generating knowledge	100%
Integrating knowledge	100%
Studies	100%
Design	100%

Development actions

Activity type	EU baseline funding rate	EU maximum funding rate
Integrating knowledge	65%	100%
Studies	90%	100%
Design	65%	100%
Prototyping	20%	55%
Testing	45%	80%
Qualification	70%	80%
Certification	70%	80%
Increasing efficiency	65%	100%

Bonuses


Funding rate mechanism to incentivise co-financing (leverage effect)

EDF bonus system for development actions

Condition for application	Value of the bonus
PESCO Bonus	
Action developed in context of the Permanent Structured Cooperation (PESCO)	+10% for all activities in the action
'Mid-cap' bonus	
% eligible costs allocated to 'Midcaps' established in the EU (and NO) \geq 15%	+10% for the activity
SME Bonus	
% eligible costs allocated to 'SMEs' established in the EU (and NO) \geq 10%	% of eligible costs allocated to ' non cross-border SMEs ' established in the EU and NO (maximum 5%) + 2 x % of eligible costs allocated to ' cross-border SMEs ' established in the EU and NO

**Bonus system to incentivise
participation of SMEs and mid-caps**