

Evropský obranný fond 2024



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EDF 2024 v číslech

- 1,1 mld. EUR
- 17 kategorií
- 32 témat

 **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)**



EDF Work Programme 2024

























Published: 15 March 2024

32 topics

Submission Deadline: 5 November 2024

EUR 1.1 billion

2024

 Medical Response & CBRN	<ul style="list-style-type: none"> SGA under FPA on medical countermeasures  SGA under FPA on medical countermeasures  	15 M€ 10 M€
 Information superiority	<ul style="list-style-type: none"> AI-based multifunctional aperture and transceiver  Defence multi-dimensional communication standard  Small UAS  MALE RPAS 	45 M€ 25 M€ 11 M€ 100 M€
 Sensors	<ul style="list-style-type: none"> Advanced radar technologies Multi-sensors integration for autonomous drone navigation (challenge, 2 topics) 	35 M€ 27 M€
 Cyber	<ul style="list-style-type: none"> Federated cyber ranges  	48 M€
 Space	<ul style="list-style-type: none"> Multi-source satellite image analysis (challenge, 2 topics)  Secure waveform for satellite communications  	25 M€ 25 M€
 Digital transformation	<ul style="list-style-type: none"> Automated structural modelling for effect prediction 	15 M€
 Energy & Environment	<ul style="list-style-type: none"> Energy-independent and energy-efficient systems for military camps  	40 M€
 Materials & Components	<ul style="list-style-type: none"> Electronic components (spin-in)  	25 M€
+		
Air combat <ul style="list-style-type: none"> Advanced air-to-air missiles 35 M€ Unmanned collaborative combat aircraft system  15 M€ Next generation rotorcraft 100 M€ 		
Air & missile defence <ul style="list-style-type: none"> Countering Hypersonic glide vehicles 78 M€ 		
Ground combat <ul style="list-style-type: none"> Intelligent weaponry and ammunition systems 30 M€ Unmanned ground systems  50 M€ Beyond the line-of-sight close combat 25 M€ Armoured infantry fighting vehicle 25 M€ 		
Protection & Mobility <ul style="list-style-type: none"> Future mid-size tactical cargo aircraft 30 M€ 		
Naval combat <ul style="list-style-type: none"> Functional smart system-of-systems under integral survivability approach for future naval platforms 45 M€ 		
Underwater warfare <ul style="list-style-type: none"> Secured/adaptive underwater communications for UUVs  24 M€ Autonomous heavy minesweeping system 30 M€ 		
Simulation & training <ul style="list-style-type: none"> Methods for bridging reality gaps (cascade funding)  15 M€ Simulation and training for medical emergencies  10 M€ 		
Disruptive technologies <ul style="list-style-type: none"> Quantum technologies  24 M€ Non-thematic research 16 M€ 		
SMEs <ul style="list-style-type: none"> Non-thematic research for SMEs and ROs 34 M€ Non-thematic development for SMEs 33 M€ 		
Others <ul style="list-style-type: none"> External expertise, audits, studies, IT, indirect management 7.6 M€ Business coaching for SMEs 1.6 M€ Blending facility for equity funding for SMEs/Mid-Caps 20 M€ Business accelerating services 2.6 M€ Matchmaking events for investors and SMEs 0.6 M€ 1.2 M€ 		

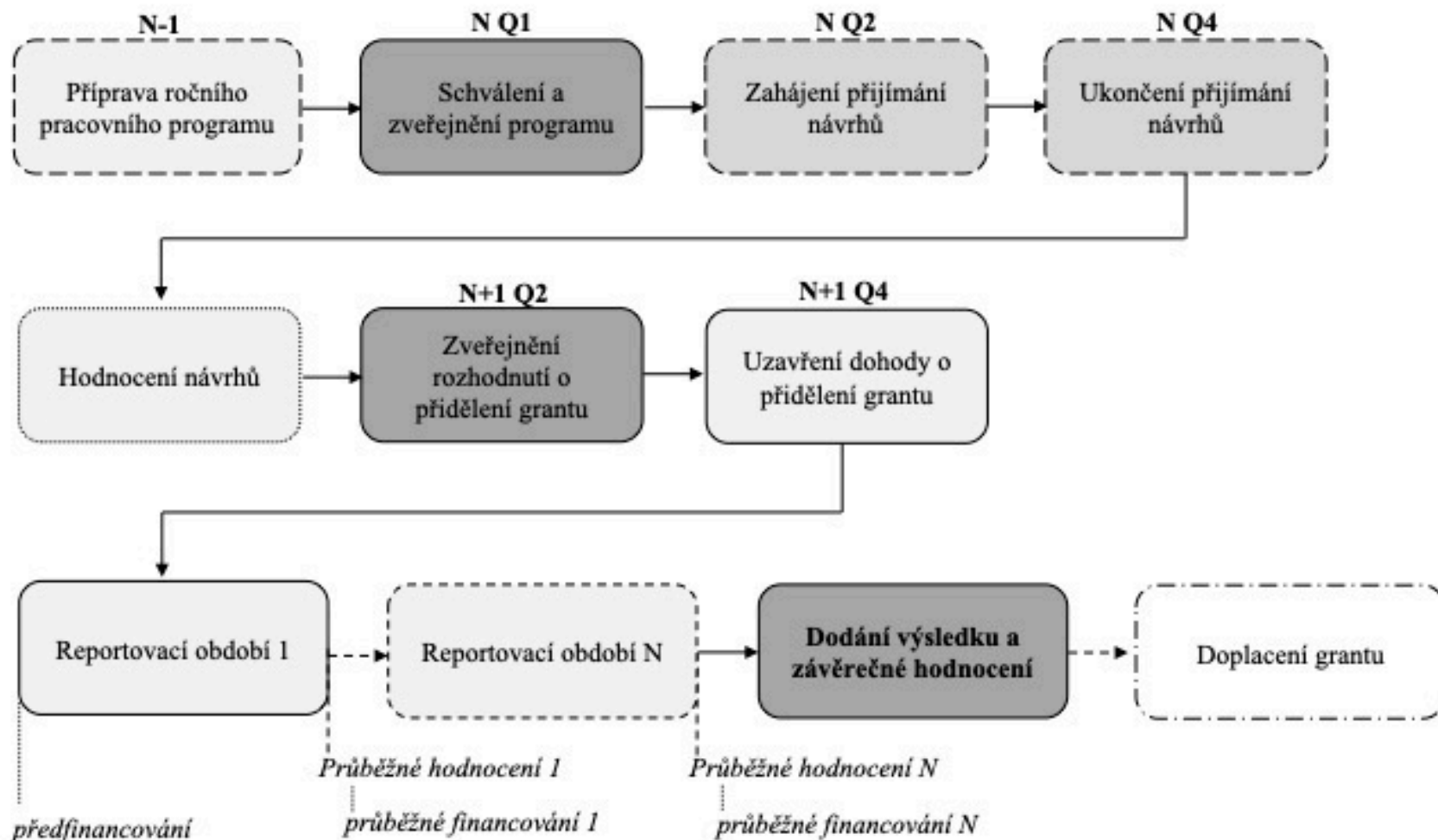
#EUDefence

Legend: Research Development EUDIS-related  STEP

Informace o výzvěch

- Work programme 2024
- Funding & tender portal
- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search?frameworkProgramme=44181033>

Projektový cyklus



Způsobilé akce

- **Čl. 10 odst. 3 nařízení o EDF**
- A) Získání znalostí
- B) Využití znalostí
- C) Studie
- D) Návrh
- E) Prototyp
- F) Testování
- G) Kvalifikace
- H) Certifikace
- I) Efektivnost cyklu

Informace o výzvách

3.1.3. Advanced passive and active sensors (SENS)

This *category of actions* will be addressed through two *calls for proposals* in 2024, EDF-2024-RA and EDF-2024-LS-RA-CHALLENGE, and proposals will be called for each of the following three topics:

3.1.3.1. EDF-2024-RA-SENS-ART: Advanced radar technologies

New types of threats are difficult to detect and track, in particular when using technologies such as those with stealth characteristics, hypersonic speeds, slow airborne motion and saturation attack tactics are used. Facing such threats, existing surveillance radar systems are reaching their limits in terms of detection range, angular domain coverage, tracking and recognition capabilities. Consequently, the objective of this topic is to mature the required technologies and concepts to cover the need for situational awareness by achieving advanced high-performance and a highly integrated multifunction system that may support radar, electronic warfare (EW) and possibly communications functions when feasible and advantageous, enabled through the development of active electronically scanned array (AESA) antennas.

The aim is to render radars highly versatile and adaptive, while being compatible with operational constraints in terms of performance, size, weight, power consumption and cost.

Targeted types of activities: Generating knowledge, integrating knowledge, studies and design.

Indicative budget: EUR 35 000 000 for this topic under the call EDF-2024-RA.

Indicative number of proposals to be funded: Several actions may be funded for this topic.

Povinné a nepovinné akce

Targeted types of activities: Generating knowledge, integrating knowledge, studies and design.

Způsobilé akce dle čl. 10 odst. 3

<i>písm. a)</i>	<i>písm. b)</i>	<i>písm. c)</i>	<i>písm. d)</i>	<i>písm. e)</i>	<i>písm. f)</i>	<i>písm. g)</i>	<i>písm. h)</i>	<i>písm. i)</i>
Získání znalostí	Využití znalostí	Studie	Návrh	Prototyp	Testování	Kvalifikace	Certifikace	Efektivnost cyklu
ANO	ANO	ANO	ANO	NE	NE	NE	NE	NE

- https://defence-industry-space.ec.europa.eu/document/download/77afc5d2-30b2-4f3f-917c-2c4368eb18e3_en?filename=EDF%202024%20Call%20Topic%20Descriptions.pdf



EDF-2024-DA-C4ISR-SEEU-STEP: Small enhanced European UAS




CASE STUDY

EDF-2024-DA-C4ISR-SEEU-STEP:

Small enhanced European UAS



Information
superiority

- AI-based multifunctional aperture and transceiver  45 M€
- Defence multi-dimensional communication standard  25 M€
- Small UAS  11 M€
- MALE RPAS 100 M€

- ANNEX 3 2024 call topic descriptions, str. 84
- https://defence-industry-space.ec.europa.eu/document/download/77afc5d2-30b2-4f3f-917c-2c4368eb18e3_en?filename=EDF%202024%20Call%20Topic%20Descriptions.pdf.

EDF-2024-DA-C4ISR-SEEU-STEP: Small enhanced European UAS

2.5.3. EDF-2024-DA-C4ISR-SEEU-STEP: Small enhanced European UAS

- **Indicative budget:** EUR 11 000 000 for this topic under the call EDF-2024-DA.
- **Number of actions to be funded:** One proposal is to be funded for this topic. However, depending on the quality of the submitted proposals and the available budget, more than one proposal may ultimately be funded for this topic.

Specific objective:

In particular, this topic intends to contribute to address the following specific challenges that small UAS are prone to:

- Low UAS signatures and extended operational ranges;
- Operate autonomously and automatic, including with assisted piloting considerations;
- Miniaturisation of sensors and payloads, including potential weapons and communication systems;
- Operational capability and survivability in contested, congested and challenging (e.g., weather) airspace.

Scope and types of activities

Proposals must address the development of a small UAS with advanced ISTAR85 capabilities, such as **real-time imagery intelligence, and possibly kinetic capabilities, capable of operating in support of the widest possible range of military operations.**

(...) development of a multi-role approach that explores **compatibility between different payloads and configurations,** in particular through an Interoperable Modular and Scalable Architecture (IMOSA) (...) including a “**plug and play**” capability for sensors and possible effectors.

As the small UAS cannot support sets of different sensors due to weight, space and power limitations, (...) **selection and integration of a variety of specific sensors** to be used in different configurations depending on the mission (...)

Scope and types of activities

Způsobilé akce dle čl. 10 odst. 3

<i>písm. a)</i>	<i>písm. b)</i>	<i>písm. c)</i>	<i>písm. d)</i>	<i>písm. e)</i>	<i>písm. f)</i>	<i>písm. g)</i>	<i>písm. h)</i>	<i>písm. i)</i>
Získání znalostí	Využití znalostí	Studie	Návrh	Prototyp	Testování	Kvalifikace	Certifikace	Efektivnost cyklu
NE	ANO	ANO	ANO	ANO	ANO	ANO	ANO	ANO

Způsobilost k hodnocení:



Financování z EDF



Functional requirements:

- Performance requirements
- Airspace integration
- Airworthiness
- Operational requirements
- Survivability
- Optical gyro-stabilised spread spectrum multi-sensor
- Improved sensing and ISR and targeting systems
- Communications
- Artificial Intelligence / machine learning for autonomous and assisted piloting
- swarming operations
- Interoperability
- affordable by design
- Electronic warfare
- Supply carrier and precision delivery
- Miniaturised weaponry
- CBRN surveillance

Expected impact

The outcome should contribute to:

- Reduce dependencies on non-European suppliers by **boosting the EDTIB** and promoting the development of a European solution.
- The emergence of a commonly agreed EU **standard for small UAS** to allow a wider European application, interchangeability of sensors and modules, together with adaptability to various types of missions.
- Define commonly agreed EU defence requirements for small UAS.
- Reduce the current dependencies on non-European UAS suppliers.
- Reduce the fragmentation of UAS fleets in European armed forces and **reduce the procurement and maintenance costs** through economies of scale.
- Promote the **interoperability between European armed forces**.
- Foster an active European market for the development of interoperable and interchangeable sensors.
- Exploit the **synergy with other than defence applications**.

Konsorcia

- Min. 3 entity
- Min. 3 státy
- Koncoví vlastníci v EU (!) + Norsko
 - Omezené výjimky

Na co se zaměřit?

- Schopnosti českého průmyslu
- Nabízet navázané prověřené partnery
- Být aktivní !
- Přeshraniční spolupráce (bonusové body)
- Lol – nezávazný zájem od MO

Více informací

- <https://aobp.cz/evropsky-obranny-fond/>
- <https://defence-industry-space.ec.europa.eu/system/files/2023-07/EDF%20Info%20Days%202023%20-%2028%20June.pdf>
- edf@aobp.cz

Kontakt

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