



MINISTRY  
OF DEFENCE  
OF THE SLOVAK REPUBLIC



Stále zastúpenie SR pri EÚ

**Príležitosti zapojenia priemyslu SR do  
EDIDP a EDF  
EURÓPSKY OBRANNÝ FOND  
EDIDP:2019 – 2020  
EDF: 2021 - 2027**



## Možnosti priemyselnej spolupráce v rámci EÚ

1. EDA : Ad – hoc projekty (Cat b)
2. PESCO projekty
3. **EDIDP (2019 a 2020)**
4. **EDF (2021 – 2027)**
5. *HORIZON 2020, PADR*

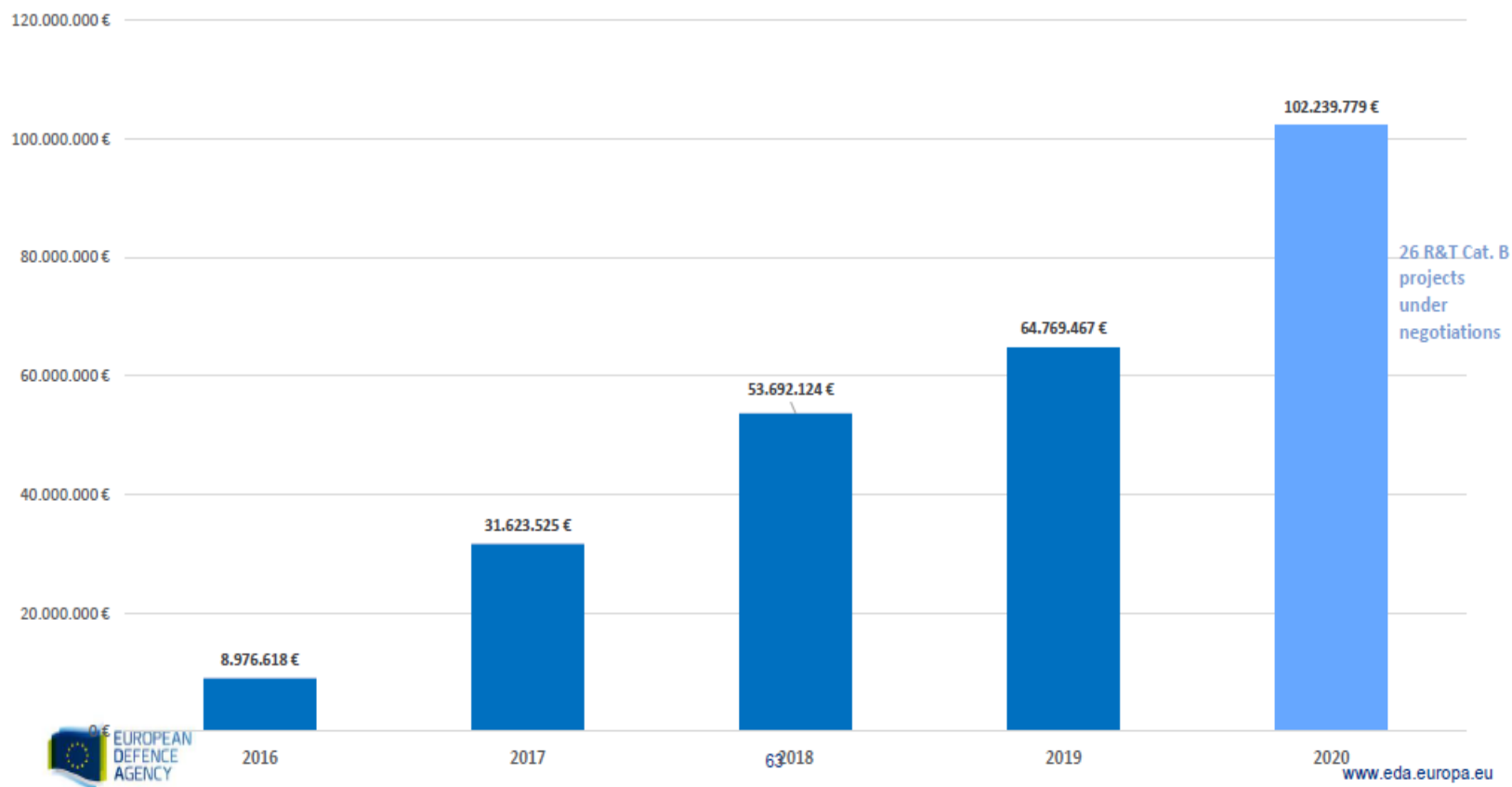
Čo sú to Ad – hoc projekty ? : projekty riešené viacerými ČŠ, ktoré zastrešuje EDA. Tieto projekty sa navrhujú v gescii skupín CapTech (Capabilities and Technologies): *EDA aktuálne rieši projekty (vývoja a výskumu) v hodnote cca 330 mil. €*

PESCO projekty : projekty navrhnuté ČŠ v rámci permanentnej spolupráce. V projekte PESCO je potrebná účasť viacerých ČŠ. PESCO je záväzkom ČŠ, sledovaný a hodnotený na úrovni EÚ.



## R&T FIGURES: CAT. A & B PROJECTS/PROGRAMMES

As of today, EDA has managed approx. 200 R&T projects and programmes.





## R&T AD HOC PROJECTS - EXAMPLES

### Hybrid Drive Trains for military purpose (HybriDT)



CapTech Land, PA signed 2019

Identify mobility requirements, develop a generic system architecture, and derive technology requirements.

By 2021 Programme for a full scale demonstrator (phase 2)

### Jammer-based Passive Radar (JAMPAR)



CapTech Radar, PA signed 2019

Study of passive radar using jammers as target illuminators of opportunity. Design and test a technology demonstrator.

By 2022 Analysis of military and industrial exploitation of JAMPAR results

### GaN Technology with UMS GH15 process (MUSTANG)



CapTech Components, PA signed 2019

Explore the benefits of new higher frequency technology in terms of increased bandwidth capabilities and improved efficiency

By 2022 Component set to enable wideband GaN based phased array systems, combining radar, EW and communication functions.

### Certification of adhesive bonded repairs for Primary Aerospace composite structures (PATCHBOND II)



CapTech Materials, PA under signature

Develop methods for adhesive bonded repairs of composite aircraft structures that are fulfilling all the airworthiness requirements.

By 2023 Develop methods that allow for a certified repair and in-service monitoring of damaged structures



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# AD – Hoc projekty Cat B



| Skupina                | Názov projektu   | Akronym      | Vedúca krajina | Participujúce ČŠ              | Náklady na projekt |
|------------------------|--|--------------|----------------|-------------------------------|--------------------|
| Materials              | Advanced low observable coatings and structures  | ALOCAS       |                | NL,SE                         | € 3.177.786,00     |
| Materials              | Additive Manufacturing of Metallic Auxetic Structures and Materials for Lightweight Armour | AMALIA       | IT             | CZ,DE,FR,IT,PL,RO,SI          | € 5.500.000,00     |
| Materials              | Light Weight Ceramics for Ballistic Protection   | CERAMBALL II | AT             | DE,FR,IT,NL,AT,NO             | € 4.000.000,00     |
| CBRN and Human factors | COLD WEATHER OPERATIONS  | CWO          | NL             | FR,NL,SE                      | € 2.000.000,00     |
| Optronics              | DETECT BEFORE LAUNCH   | DEBELA       | SE             | DE,FR,SE                      | € 1.800.000,00     |
| CBRN and Human factors | European Biodefence Laboratory Network   | EBLN 2       | IT             | BE,CZ,DE,FR,IT,NL,AT,PL,SE,NO | € 6.560.475,00     |



| Skupina     | Názov projektu   | Akronym      | Vedúca krajina | Participujúce ČŠ           | Náklady na projekt |
|-------------|--|--------------|----------------|----------------------------|--------------------|
| Optronics   | EUROPEAN COMPUTER MODEL FOR OPTRONIC SYSTEM PERFORMANCE PREDICTION II                    | ECOMOS II    | DE             | DE,FR,NL                   | € 1.350.000,00     |
| Ammunition  | European Detonation Code   | EuDetCode    | SE             | CZ,DE,ES,IT,PT,SE          | € 6.000.000,00     |
| Information | Long Range Communications  | LRC          | DE             | DE,FR,IT,HU,NL,AT,PL,SE,NO | € 12.000.000,00    |
| Simulation  | MSAAS Applications for air and joint exercises and simulation                            | MAJES        | FR             | FR,NL,NO                   | € 4.500.000,00     |
| Navigation  | A new navigation system concept & a PNT for aviation                                     | MODE-N       | DE             | CZ,DE                      | € 1.530.000,00     |
| Materials   | Next Generation of Propellers  | NextProp     | NO             | IT,PL,SE,NO                | € 4.000.000,00     |
| Materials   | BOLT FREE BATTLE AND OPERATIONAL DAMAGE REPAIRS OF COMPOSITE AIRCRAFT PRIMARY STRUCTURES | PATCHBOND II | NL             | CZ,DE,IT,NL,FI,NO          | € 6.836.565,00     |



| Skupina                | Názov projektu   | Akronym          | Vedúca krajina | Participujúce ČŠ         | Náklady na projekt    |
|------------------------|--|------------------|----------------|--------------------------|-----------------------|
| Ammunition             | Prediction models for implementation of munition health management   | PREMIUM          | IT             | DE,IT,NL,SE              | € 5.000.000,00        |
| Navigation             | Resilient PNT Testing for Defence  | RIPTIDE          | IT             | DE,ES,FR,IT,NL,AT,SE,NO  | € 9.000.000,00        |
| Optronics              | Radiative Optoelectronic Components Vulnerability 2  | ROVER-2          | FR             | FR                       | € 1.170.000,00        |
| Maritime               | Swarm of Biomimetic Underwater Vehicles II   | SABUVIS II       | PL             | DE,PL                    | € 3.000.000,00        |
| Materials              | <b>Solutions for corrosion optimized repair and prediction with efficient network of environment sensors</b> | <b>SCORPENES</b> | <b>FR</b>      | <b>BE,ES,FR,NL,SK,FI</b> | <b>€ 4.000.000,00</b> |
| CBRN and Human factors | Serious Gaming for Screening on Resilience   | SEGARES          | NL             | BE,NL,FI,SE              | € 1.500.000,00        |



| Skupina                | Názov projektu  | Akronym    | Vedúca krajina | Participujúce ČŠ      | Náklady na projekt |
|------------------------|---|------------|----------------|-----------------------|--------------------|
| Radar                  | Smart Electronic Protection Measures  | SEPROM     | PL             | DE,PL                 | € 3.450.000,00     |
| Information            | Software Defined Tactical & Theatre Network   | SOFTANET   | FR             | DE,FR,NL,PL           | € 10.125.075,30    |
| Components             | Superior Performance In Contested Environments  | SPICE      | NL             | NL,SE                 | € 3.600.000,00     |
| Ammunition             | Stand-off Detection of Hybrid Threats containing explosives   | STYX       | SE             | DE,ES,FR,IT,PL,PT,SEE | € 5.000.000,00     |
| CBRN and Human factors | EXCHANGE OF INFORMATION AND SCOPING STUDY CONCERNING TEST AND EVALUATION OF BIOLOGICAL COLLECTION, IDENTIFICATION AND DETECTION EQUIPMENT | T&E BioDIM | NL             | DE,FR,IT,NL,AT,NO     | € 2.600.210,00     |
| CBRN and Human factors | T&E protocols for CBRN personal protection equipment  | T&E PPE    | FR             | BE,ES,FR,AT,CH        | € 1.095.850,00     |



| Skupina     | Názov projektu   | Akronym | Vedúca krajina | Participujúce ČŠ | Náklady na projekt |
|-------------|--|---------|----------------|------------------|--------------------|
| Optronics   | DEVELOPMENT OF SOFTWARE-BASED ATMOSPHERIC TURBULENCE MITIGATION DEMONSTRATOR | TURBO   | NL             | DE,NL            | € 1.717.033,61     |
| Information | Wireless sensor Networks for urban Local Areas Surveillance                  | WINLAS  | NL             | NL,PL            | € 2.521.272,01     |



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# EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME EDIDP 2019 -2020

**Dátum zverejnenia výziev: 15. 4. 2020**

**Dátum predloženia ponúk: do 1. 12. 2020**



## EDIDP – European Defence Industrial Development Programme

Alokované finančné prostriedky: **Σ 497 750 000 €**

2019: cca 200 mil. €

2020: cca 290 mil. €

| Union actions                       | Total Amount           | % of the 2019 appropriations            | % of the 2020 appropriations            |
|-------------------------------------|------------------------|---|---|
| - Grants                            | EUR 497 100 000        | EUR 242 950 000                         | EUR 254 150 000                         |
| <i>among which for direct award</i> | <i>EUR 137 000 000</i> | <i>EUR 46 350 000</i>                   | <i>EUR 90 650 000</i>                   |
| - Other                             | EUR 650 000            | EUR 300 000                             | EUR 350 000                             |
| <b>TOTAL</b>                        | <b>EUR 497 750 000</b> | <b>48,87%</b><br><b>EUR 243 250 000</b> | <b>51,13%</b><br><b>EUR 254 500 000</b> |

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502,31094503;programCode=EDIDP;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>



## Výška finančnej podpory projektov

| Activity  | Baseline funding rate                 |
|---|---------------------------------------|
| <b>Studies</b> , such as feasibility studies, and other accompanying measures   | <b>Up to 90%</b><br>of eligible costs |
| The <b>design</b> of a defence product, tangible or intangible component or technology as well as the technical specifications on which such design has been developed, including partial tests for risk reduction in an industrial or representative environment | <b>Up to 65%</b><br>of eligible costs |
| The <b>system prototyping</b> of a defence product, tangible or intangible component or technology  | <b>Up to 20%</b><br>of eligible costs |
| The <b>testing</b> of a defence product, tangible or intangible component or technology   | <b>Up to 65%</b><br>of eligible costs |
| The <b>qualification</b> of a defence product, tangible or intangible component or technology   | <b>Up to 65%</b><br>of eligible costs |
| The <b>certification</b> of a defence product, tangible or intangible component or technology   | <b>Up to 65%</b><br>of eligible costs |
| The development of technologies or assets increasing efficiency across the <b>life cycle of defence products and technologies</b>   | <b>Up to 65%</b><br>of eligible costs |

| Condition to be fulfilled to get the corresponding bonus                             | Bonus<br>(additional number of percentage points to the baseline funding rate)   |
|--|--|
| <b>PESCO bonus</b>   |  |
| Action developed in the context of the permanent structured cooperation (PESCO)      | + 10%  |
| <b>SME bonus</b>   |  |
| Proportion of eligible costs allocated to SMEs established in the EU $\geq 10\%$     | Proportion of eligible costs allocated to non cross-border SMEs established in the EU (up to maximum 5%)<br>+<br>Twice the proportion of eligible costs allocated to cross-border SMEs established in the EU |
| <b>Mid-cap bonus</b>   |  |
| Proportion of eligible costs allocated to Mid-caps established in the EU $\geq 15\%$ | + 10%  |



## Aké sú kritériá získania finančného grantu?

- Konzorcium zložené z min. 3 firiem z min. 3 rôznych krajín EÚ (subjekty by mali byť dislokované v EÚ a 3. krajiny by nemali mať nad nimi žiadnu kontrolu)
- Konzorcium by malo vymenovať svojho koordinátora z jedného z členov konzorcia (ako kontaktnú osobu pre EK). Členské štáty v prípade potreby vymenujú projektového manažéra. Komisia s ním konzultuje pokrok dosiahnutý v rámci činnosti pred tým, ako vykoná platbu v prospech oprávnených príjemcov
- Písomné vyjadrenie členských štátov o finančnom prispievaní činnosti napr. vyhlásením zámeru (Letter of Intent).  
Kritériá oprávnenosti by mali zohľadniť skutočnosť, že členské štáty zamýšľajú obstaráť finálny výrobok obranného priemyslu alebo používať technológiu, a to koordinovaným spôsobom, a kritériá na vyhodnotenie návrhov by mali zohľadniť skutočnosť, že členské štáty sa politicky alebo právne zaviažu spoločne využívať, vlastniť alebo udržiavať finálny výrobok alebo technológiu obranného priemyslu.

**Pozn.: Závisí to od okolností – firma si svoj rozsah podielu môže financovať sama.**

**Pozn.: Ak niektoré kritérium nie je splnené EK konzorcium nevylučuje zo súťaže. Je to však negatívne hodnotené komisiou, ktorá ponuky vyhodnocuje.**



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## Výzvy na rok 2020 z programu EDIDP

Nájdete na stránke:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502,31094503;programCode=EDIDP;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

*V prípade záujmu o poskytnutie podpory za účelom participácie na riešení konkrétneho projektu v zmysle výzvy, kontaktujte Ing. Igora DOBROVIČA, [igor.dobrovic@mil.sk](mailto:igor.dobrovic@mil.sk)*



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# EURÓPSKY OBRANNÝ FOND

## EDF 2021 – 2027



## Rozdiely medzi výskumom a vývojovým riešením projektov

### Research actions

**Action consisting primarily of research activities**, notably applied research and where necessary fundamental research, with the aim of acquiring new knowledge and with an exclusive focus on defence applications.

### Development actions

**Action consisting of** defence oriented **activities primarily in the development phase**, covering new products or technologies or the upgrading of existing ones, excluding the production or use of weapons.

Activities: a) b) c) d) e) f) g) h) i)

Only differences between research actions and development actions are presented in this slide

Cf. regulation for details (articles 22 to 25)

#### IPR

- Results owned by the recipients
- Royalty-free access to the **special report** and to results for MS
- Royalty-free access to the results for the Union
- For procurement: results owned by the Union and free-of-charge access to the results for MS on request
- Notification in case of exclusive licence granted to third country / third-country entity

#### Eligibility

- Demonstrate **co-financing**
- Design activities based on **harmonised capability requirements**
- Prototyping, testing, qualification and certification activities based on **common technical specifications**, with **MS intent to procure or use**

#### Award criteria

- **Efficiency across the life cycle**
- **Commitment to jointly use, own or maintain**

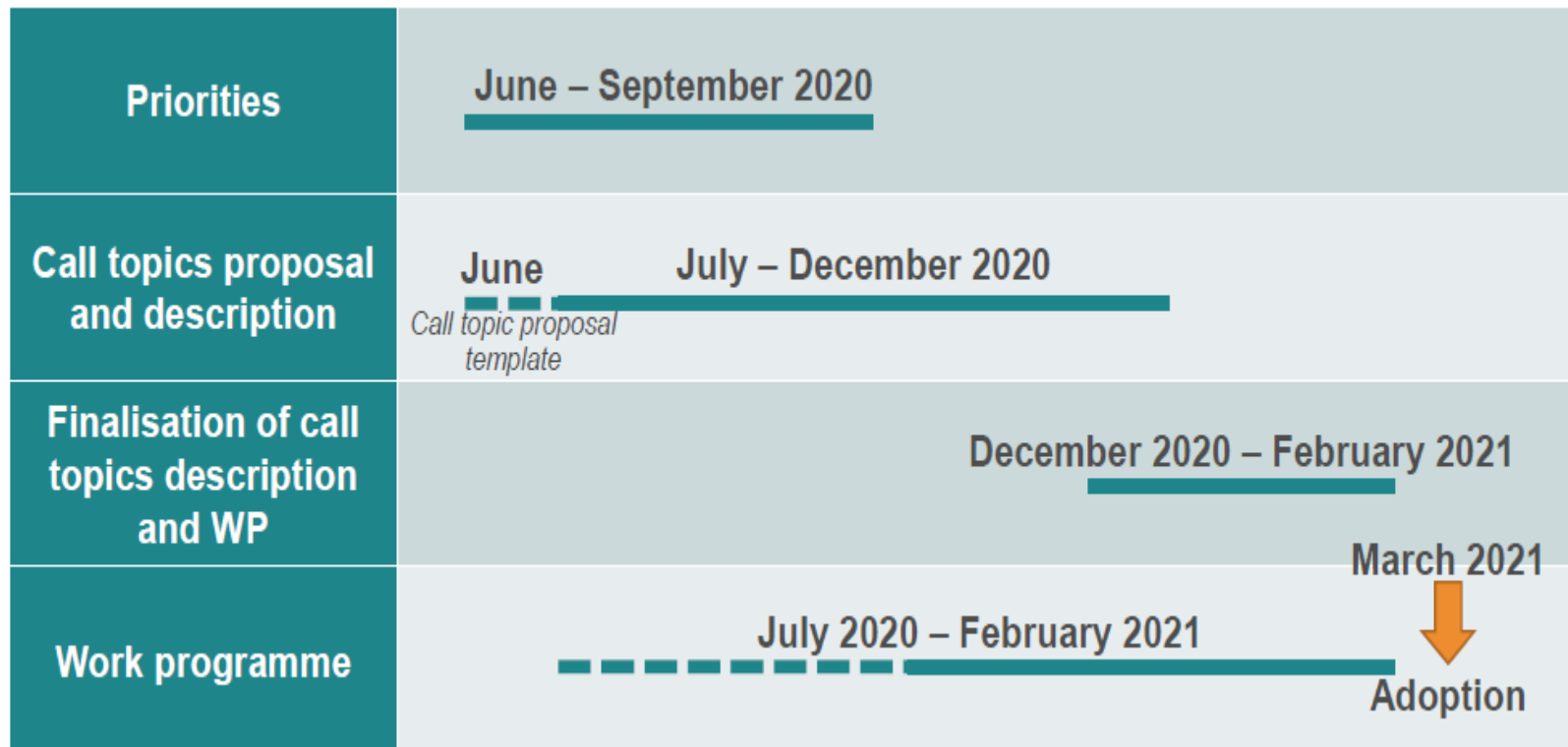
#### IPR

- No ownership of results nor IPR to Union
- For procured studies: free-of-charge non-exclusive licence for use by MS on request



## EDF – European Defence Funds na r. 2021 - 2027

Rozpočet – 8 mld. €





Pozn.:

Pracovný program EDF na roky 2021 – 2027 je v súčasnosti v procese prípravy.

Konkrétne informácie o prioritách programu EDF na 2021 – 2027 sú v štádiu rozpracovanosti a nie je možné ich zatiaľ voľne zverejňovať.

V prípade záujmu je možné detaily a informácie o prioritách na 2021 – 2027 konzultovať so SEMOD MO SR.