






EDF 2021 CALLS RESULTS

SUMMARY OF THE 60 SELECTED PROJECTS

CALL CATEGORIES	PROJECT SELECTED	EU FUNDING € MILLION
 <p>Air Combat</p>	<p>EICACS - European Initiative for Collaborative Air Combat Standardisation The project EICACS will focus on interoperability for European air forces' mission management. Related PESCO project: EU Collaborative Warfare Capabilities (ECOWAR)</p> <hr/> <p>EPIIC - Enhanced Pilot Interfaces & Interactions for fighter Cockpit The project EPIIC will focus on new air power capabilities and seek to ensure the Air dominance of the European defence forces. Related PESCO project: Air Combat</p> <hr/> <p>ENGRT - EU Next Generation Rotorcraft Technologies Project The project ENGRT will focus on the next generation of EU military rotorcrafts.</p>	<p>74.8</p> <p>75.0</p> <p>40.0</p>
 <p>Air & Missile defence</p>	<p>EU HYDEF - European Hypersonic Defence Interceptor The project EU HYDEF will define the concept for a European Interceptor to achieve the highest maneuverability and capability to respond to high velocity threats. Related PESCO project: Timely Warning and Interception with Space-based TheatER surveillance (TWISTER)</p>	<p>100.0</p>
 <p>Information superiority</p>	<p>5G COMPAD - 5G Communications for Peacekeeping And Defense The project 5G COMPAD will demonstrate the relevance of 5G mobile communications technology in support of sustained information superiority.</p> <hr/> <p>EuroHAPS - High altitude platform systems demonstration The project EuroHAPS will provide airborne technology demonstrators to improve intelligence, surveillance and reconnaissance (ISR) capabilities. Related PESCO project: European High Atmosphere Airship Platform (EHAAP)</p>	<p>27.0</p> <p>43.0</p>
 <p>Cyber</p>	<p>ACTING - Advanced European platform and network of Cybersecurity training and exercises centres The project ACTING will develop advanced interconnected domain oriented cyber ranges for training and exercises. Related PESCO project: EU Cyber Academia and Innovation Hub (EU CAIH).</p> <hr/> <p>AInception - AI Framework for Improving Cyber Defence Operations The project AInception will seek to improve cyber defence operations by using AI-based tools and techniques.</p> <hr/> <p>EU-GUARDIAN - European framework and proofs-of-concept for the intelligent Automation of cyber Defence Incident management The project EU-GUARDIAN will create an AI-based solution to automate incident management and cyber defence processes. Related PESCO project: EU Collaborative Warfare Capabilities (ECoWAR)</p>	<p>16.3</p> <p>8.2</p> <p>13.5</p>
 <p>Digital transformation</p>	<p>EDOCC - European Defence Operational Collaborative Cloud The project EDOCC will provide a virtual platform to increase collaborative services on the battlefield. Related PESCO project: EU Collaborative Warfare Capabilities (ECoWAR)</p> <hr/> <p>KOIOS - Knowledge Extraction, Machine Learning and other AI approaches for secure, robust, frugal, resilient and explainable solutions in Defence Applications The project KOIOS will seek to improve AI for military applications, spanning simulation, use-cases, metrics, and real world experiments.</p> <hr/> <p>FaRADAI - Frugal and Robust AI for Defence Advanced Intelligence The project FaRADAI will develop robust artificial intelligence for defence applications.</p>	<p>40.0</p> <p>10.0</p> <p>18.5</p>



Disruptive technologies

ROLIAC - Robust and Light AM components for military systems

The project ROLIAC will focus on new materials and technologies for additive manufacturing of lightweight parts of defence equipment.

4.0

ENLIGHTEN - European Non-Line-of-Sight Optical Imaging

The project ENLIGHTEN will seek to develop next-generation electro-optical (EO) sensing devices for operational effectiveness.

8.4

iFURTHER - High Frequency Over The Horizon Sensors' Cognitive Network

The project iFURTHER will address new technologies for air and sea long-range detection.

11.0

ADEQUADE - Advanced, Disruptive and Emerging QUAntum technologies for DEfense

The project ADEQUADE will focus on breakthrough in quantum technologies for defence.

27.4



Energy and environment

INDY - Energy Independent and Efficient Deployable Military Camps

The project INDY will develop a strategic roadmap towards future energy independent and efficient deployable military camps.

Related PESCO project: Energy Operational Function (EOF)

14.2

NOMAD - NOvel energy storage technologies usable at MilitArY Deployments in forward operating bases

The project NOMAD will develop next generation electrical energy storage for military forward operating bases.

Related PESCO project: Energy Operational Function (EOF)

19.7

NEUMANN - Novel Energy and propUlsion systeMs for Air dominance

The project NEUMANN will study energy aircraft domains, with a focus on energy-efficient propulsion, electrical and thermal systems and management.

48.9



Ground Combat

MARSEUS - Modular Architecture Solution for EU States

The project MARSEUS will develop a collaborative close combat architecture enhancing existing missile systems with a Beyond-Line-Of-Sight capability.

Related PESCO project: EU Beyond Line Of Sight (BLOS) Land Battlefield Missile Systems (EU BLOS)

25.0

FAMOUS2 - MEuropean Future Highly Mobile Augmented Armoured Systems 2

The project FAMOUS2 will enhance all-terrain vehicles, light armoured vehicles and main battle tanks through developments and upgrades.

94.8

COMMANDS - Convoy Operations with Manned-unManned Systems

The project COMMANDS will develop capabilities for agile, intelligent and cooperative manned and unmanned land systems.

Related PESCO project: Integrated Unmanned Ground System (UGS).

24.8

NEWHEAT - New European Warhead Technologies

The project NEWHEAT will improve the performance of conventional shaped charge by integrating new high explosive, new liner materials and new geometries.

10.0



Materials & components

ECOBALLIFE - Research in eco-designed ballistic systems for durable lightweight protections against current and new threats in platform and personal applications

The project ECOBALLIFE will use new technologies to improve protection for soldiers and vehicles.

10.0

AGAMI_EURIGAMI - European Innovative GaN Advanced Microwave Integration

The project AGAMI_EURIGAMI will focus on Gallium Nitride (GaN) integration for radar and electronic warfare.

24.6



NAUCRATES - Microsatellite for Geostationary Orbit Surveillance and Intelligence

The project NAUCRATES will work on the demonstrator of a satellite intended for the optical intelligence of Geostationary Earth Orbit (GEO) resident objects.

Related PESCO project: European Military Space Surveillance Awareness Network (EU-SSA-N)

4.0

P2P-FSO - Platform to Platform Free Space Optical link

The project P2P-FSO aims at the provision of a free space optical point-to-point communication system.

2.4

Nano-SHIELD

The project Nano-SHIELD will develop the next generation of nanofibers for Chemical-Biological-Radiological-Nuclear (CBRN) protection.

4.0

POWERPACK - Novel 3D heterogeneous integration for future miniaturized power RF Transceiver front ends

The project POWERPACK will develop disruptive technologies for miniaturised Radio Frequency Identity (RF) chips for high frequency and high-power operation.

3.5

POWERFLEX - Smart, Heterogeneous Technological Platform Extending the Power and Frequency Limits of Flexible Nanoelectronics

The project POWERFLEX will work on new flexible antennas based on new and advanced materials.

3.5

IntSen2 - Proactive automatic imagery intelligence powered by artificial intelligence exploiting European space assets

The project IntSen2 will use Artificial Intelligence to develop a concept of application for Imagery intelligence (IMINT).

3.3

SMiEQ - Secure Microcontroller with Embedded Quantum Random Number Generator

The project SMiEQ will prototype a secure microcontroller with an embedded quantum random number generator.

3.5

LODESTAR - Live operational data enhancement for situational awareness through augmented reality

The project LODESTAR will integrate augmented reality and artificial intelligence in modern, highly efficient soldier systems.

3.7

Facelift - Fluidic Actuators for Control of stealth alrcraFT

The project Facelift will improve the strategic surveillance capability, survivability and operational resilience of future stealth aircrafts.

3.5

Q-SiNG - Quantum-based Simultaneous inertial Navigator and vector Gravimeter

The project Q-SiNG will provide a navigation system demonstrator for GNSS-denied areas.

3.9

HIDRA - High Instantaneous Dynamic Range Direct RF sampling modular chiplet Architecture

The project HIDRA will aim at the provision of a modular chiplet architecture for Software Defined Radio.

4.0

Mini-BOT- Miniaturized Board-mountable Optical Transceiver for high data rate Military Satellite Communications

The project Mini-BOT will establish the first European supply chain of high-performance optical transceivers.

3.4

HEGAPS - Hybrid Energy Grid and Propulsion System

The project HEGAPS will work on a cyber-physical system to coordinate multiple assets.

4.0

AMLTD - Additive Manufacturing of Lightweight Laser Target Designator

The project AMLTD will develop a miniature Laser Target Designator.

2.9

FIBERSENSE - Using fiber optical cables for maritime situational awareness

The project FIBERSENSE will focus on and advance the Distributed Acoustic Sensing (DAS) technology.

3.4

SEAWINGS - Sea/Air Interphasic Wing-in-Ground Effect Autonomous Drones

The project SEAWINGS will develop a new class of military surveillance drones to operate in the sea/air interface.

3.9



Materials & CBRN

COUNTERACT - European agile network for medical COUNTER measures Against CBRN Threats

The project COUNTERACT will establish a robust and agile network within the EU, capable of developing and deploying medical countermeasures (MCMs) against major CBRN threats.

Related PESCO project: European Medical Command (EMC)

49.1

MoSaiC - Real-time Monitoring and Sampling of CB menaces for improved dynamic mapping of threats, vulnerabilities and response capacities

The project MoSaiC will provide for the real-time monitoring of CBRN events and for innovative sampling technologies to enhance the dynamic mapping of threats, vulnerabilities and response capacities.

4.4

TeChBioT - Surveillance and Reconnaissance Techniques for Chemical and Biological Threats

The project TeChBioT will develop new highly selective and sensitive detectors for the detection and identification of the most volatile chemical or biological warfare agents.

4.3



Naval combat

EPC - European Patrol Corvette

The project EPC will focus on the initial phase of a European innovative, modular, flexible, interoperable, green, multirole vessel, enabling the European navies to face the 21st century challenges.

Related PESCO project: European Patrol Corvette

60.0

EDINAF - European Digital Naval Foundation

The project EDINAF will provide a European digital ship reference architecture, integrating the systems onboard altogether in order to achieve vessels fastest reaction and enhanced capabilities.

29.0

dTHOR - Digital Ship Structural Health Monitoring

The project dTHOR will develop the next generation of a predictive Ship Structural Health Monitoring system.

14.5



Defence innovation

ABITS - Advanced Biometrics In Training and Simulation

The project ABITS will develop an in-door tactical training solution using advanced biometrics.

2.2

HYBRID - Hydrogen Battlefield Reconnaissance and Intelligence Drone

The project HYBRID will develop a long endurance electric hydrogen fuel cell-powered drone.

3.1

ALADAN - Ai-based Language technology development framework for Defence ApplicationNs

The project ALADAN will develop an AI-based language solutions for defence applications.

3.2

SPRING - Space Response to Risk & Integration with Ground segment

The project SPRING will develop an integrated solution for automated response to threats to increase the safety and reactivity of military space systems.

3.7

ALTISS - Highly Automated Swarm of Affordable ISR Long Endurance UAVs for force protection

The project ALTISS will provide improved ISR (Intelligence, Surveillance and Reconnaissance) capacity through an affordable resilient UAVs (Unmanned Air Vehicle) swarm.

3.2

SHOLFEA - SHOulder Launched Family for European Armies

The project SHOLFEA will develop a family of shoulder-launched missile systems addressing the operational needs of future infantry units.

2.8

RFSHIELD - RF Interference Removal for Military Services based on Spaces Link

The project RFSHIELD will develop a solution to protect the Satellites Communication services.

3.4



Force protection & mobility

SDMMS - Secure Digital Military Mobility System

The project SDMMS will develop a secure digital information system in support of Military Mobility.

9.1

ACHILE - Augmented Capability for High end solDiErs

The project ACHILE will develop highly innovative solutions for a next generation Dismounted Soldier System.

40.0

Related PESCO project: EU Collaborative Warfare Capabilities (ECoWAR)



Sensors

HEROIC - High Efficiency Read Out Circuits

The project HEROIC will provide new advanced electrical components for the next generation IR sensors.

18.0

ARTURO - Advanced Radar Technology in eUROpe

The project ARTURO will provide a solution to fulfil future operational needs based on extended use of emerging technologies for advanced radar technologies in Europe.

20.0



Space

EPW - European Protected Waveform

The project EPW will start the development of a secure waveform standard for future-proof satellite communications.

25.0

Navguard - Advanced Galileo PRS resilience for EU Defence

The project Navguard will strengthen the Galileo PRS resilience through new ground and space-based systems.

24.4

Related PESCO project: European Radio Navigation Solution (EURAS)



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