



This project has received funding from the European Union's European Defence Fund - EDF programme under grant agreement No 101074905 [ECOBALLIFE]



## Research in Eco-Designed Ballistic Systems for Durable Lightweight Protections Against Current and New Threats in Platform and Personal Applications (ECOBALLIFE)

Under the European Defence Fund (EDF) 2021, the grant for the Research Action call on the topic 'Materials and structures for enhanced protection in hostile environments' was signed on 26 July 2023. The awarded project, called ECOBALLIFE, is led by Fundacion Tecnalia Research & Innovation (Spain). The consortium encompasses a total of 16 participants from 6 countries. The project, which has a duration of 42 months, will receive an EU grant of roughly €10 million.



EDF Call EDF-2021-MATCOMP-R – Information on the awarded project	
<b>Name of the project</b>	Research in Eco-Designed Ballistic Systems for Durable Lightweight Protections Against Current and New Threats in Platform and Personal Applications
<b>Short name</b>	ECOBALLIFE
<b>Summary of the project</b>	
<p>ECOBALLIFE aims strengthening European defence capabilities and the competitiveness of the European defence industry by identifying, creating and improving knowledge, new materials and technologies that ensure a high level of protection against a wide range of threats, reducing the risk of injury to soldiers. The focus of the project is to research and identify new material concepts and technologies to create proof-of-concepts of new personal and military platform protection solutions that can protect against new threats (blast overpressure, laser, microwaves and STANAG 5-6 level). ECOBALLIFE will also optimise existing solutions to assure reliability through their entire life, and define new solutions that increase the level of protection against current and new threats and will be based on strict and specific requirements:</p> <ul style="list-style-type: none"> <li>• To decrease the weight and cost.</li> <li>• To maintain the protection levels.</li> <li>• To increase the lifetime of the materials (ageing).</li> <li>• To allow an easy recycling of the materials.</li> <li>• To guarantee Europe's independence in the materials procurement.</li> <li>• Effectively validate and test the characteristics of the defined solutions.</li> </ul> <p>To achieve these objectives ECOBALLIFE aims to identify European know-how in the field of military protection systems along the whole value chain from raw material industries to validation and test facilities. A priority of the project will be to integrate all European actors who can contribute to the improvement of the European defence system, inviting non-traditional players in the defence sector. ECOBALLIFE will carry out 2 proofs of concept located in: 1) personal protection systems ballistic vests and helmets; and 2) platforms protection spall liners and Add-on Armours (AoAs) to be installed over underbelly and the crew compartment areas of vehicles systems.</p>	
<b>Project duration</b>	42 months
<b>Starting date</b>	01 September 2023
<b>Maximum foreseen EU Contribution</b>	€ 10.004.286,32

<https://www.eda.europa.eu/what-we-do/activities/activities-search/pilot-project-and-preparatory-action-for-defence-research>



<b>List of participants</b>			
#	Name of the entity	Country	EU Contribution requested by the entity <sup>1</sup>
1	Fundacion Tecnalia Research & Innovation	Spain	€ 1.062.120,00
2	Asociacion De Investigacion De La Industria Textil	Spain	€ 1.000.625,00
3	Teknologian Tutkimuskeskus Vtt Oy	Finland	€ 667.413,00
4	Commissariat A L'Energie Atomique Et Aux Energies Alternatives	France	€ 699.491,76
5	Centro Tecnologico Das Industrias Textil E Do Vestuario De Portugal	Portugal	€ 806.250,00
6	Miilux Oy	Finland	€ 435.000,00
7	Exote Oy	Finland	€ 787.187,50
8	Leonardo S.p.A	Italy	€ 713.642,00
9	Fy-Composites Oy	Finland	€ 780.750,00
10	Ethical & Legal Plus SL	Spain	€ 297.375,00
11	Petroceramics S.p.A	Italy	€ 728.125,00
12	Industrial Olmar S.A.	Spain	€ 694.244,56
13	Everythink, Lda	Portugal	€ 341.250,00
14	Sasia - Reciclagem De Fibras Têxteis, SA	Portugal	€ 222.187,50
15	Amires SRO	Czechia	€ 250.000,00
16	Bogges Spol	Czechia	€ 518.625,00

<sup>1</sup> The amount of EU contribution as included in the Grant Agreement. Final amounts need to be confirmed at the end of the project.