

IMMUNE

Advanced FILAVA-based materials for a new generation of ultralight, more resistant, eco-designed, morpho- and REACH-compliant Personal Protection Equipment's hard-components for EU Military

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2023

CALL TITLE:

Spin-in research actions on materials and components

TOPIC TITLE:

High-performance materials (spin-in)

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Generating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 3,822,734.25

MAXIMUM EU CONTRIBUTION :

€ 3,822,734.25



SHORT DESCRIPTION OF THE PROJECT:

The aim of IMMUNE is to develop a personal protection system that will be 25% lighter, provide better protection performances and 10% cheaper on its life cycle than the current vests on the market.

IMMUNE addresses Personal Protection Equipment weight decrease. The solution proposed is related to the Proof of Concept of a complete lightweight personal protection system composed by a bullet and fragment-proof vest consisting of a soft panel made of multilayers of textile solutions, a cover jacket made of an advanced structured fabric and an ultralight hard panel made of composite materials reinforced with newly-designed FILAFA reinforcement solutions. The IMMUNE vest will be 25% lighter, provide better protection performances (reduction by 35% of back face deformation) and 10% cheaper on its life cycle than the current vests on the market.



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#EUDefenceIndustry

**Members of the consortium and
country of establishment:**



 NAME OF THE ENTITY	 COUNTRY
ISOMATEX SA (Coordinator)	Belgium
C&V CONSULTING	Belgium
INSTYTUT TECHNOLOGII BEZPIECZENSTWA MORATEX	Poland
PAUL BOYE TECHNOLOGIES SAS	France
RISE RESEARCH INSTITUTES OF SWEDEN AB	Sweden
SEGULA ENGINEERING	France

