

Disruptive radar ABsorbing and EMI shielding cOmposite Technologies

Non-thematic research actions targeting
disruptive technologies for defence

Programme: European Defence Fund

Type of Action: EDF-LS EDF Lump Sum Grants

Topic ID: EDF-2024-LS-RA-DIS-NT

Grant: 4M € | **Final TRL:** 4-5 | **Duration:** 36 Months

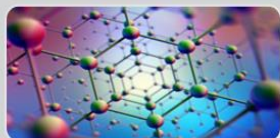
Type of Activity: Generating knowledge, Studies

SHORT DESCRIPTION OF THE PROJECT:

ABBOT pioneers advanced radar-absorbing materials (RAM) & electromagnetic interference (EMI) shielding composites to meet the critical needs of modern defense systems.

The aim of the project is to integrate the most promising RAM into structural materials with advanced stealth properties, providing new solutions embedded at manufacturing stage. **ABBOT** addresses the urgent demand for materials that enhance stealth capabilities & protect equipment from disruptive EMI threats. The project's breakthrough idea lies in embedding RAM & EMI shielding properties directly into lightweight, durable composite structures, marking a departure from traditional techniques.

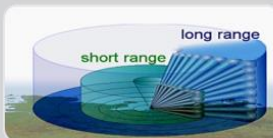
INNOVATION PILLARS:



Disruptive
composite RAM
& EMI materials



Innovative
manufacturing
process



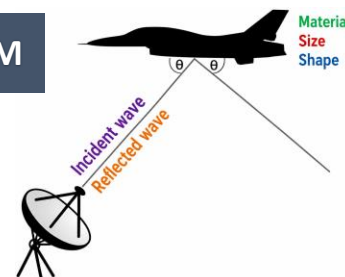
Composite
electromagnetic
modelling and
validation

APPLICATIONS:

EMI



RAM



MEMBERS OF THE CONSORTIUM:

Project coordinator



UNIVERSITY
of IOANNINA



Beneficiary



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



Beneficiary



Fraunhofer
IFAM



Beneficiary



Beneficiary



Beneficiary



UNIVERSITAT
DE VALÈNCIA



Beneficiary



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