

EUROPEAN DEFENCE FUND

SPADER

European Commission

SPACE DEBRIS REMOVAL SYSTEM USING CONCENTRATED SOLAR RAYS

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2024

CALL TITLE:	Research actions focused on SMEs and research organisations
TOPIC TITLE:	Non-thematic research actions by SMEs and research organisations
DURATION OF THE PROJECT:	36 Months
TYPE(S) OF ACTIVITIES:	Integrating knowledge, Studies, Design
ESTIMATED TOTAL COST:	€ 3,694,486.20
MAXIMUM EU CONTRIBUTION :	€ 3,694,486.20

SHORT DESCRIPTION OF THE PROJECT:

SPADER will design a space debris removal system, which interacts with a selected space object using concentrated solar rays.

The project proposes a system which is composed of a unique double parabolic mirror system, able to collect, concentrate and focus solar light into a high power beam on a target at large distance. The aim is to remove space debris by total or local vaporization and to push the debris by the reaction force created in this way. The main module will be designed so that it can be launched with the currently used space mission carriers like any other satellite.



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Members of the consortium and country of establishment:	
OF THE ENTITY	COUNTRY
VAAL AIRSHIPS OÜ (Coordinator)	Estonia
ETHICAL & LEGAL PLUS SL	Spain
ETHNICON METSOVION POLYTECHNION	Greece
EU3STAR	The Netherlands
INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE TURBOMOTOARE - COMOTI	Romania
KOSMAS GEORING SERVICES	Greece
SC ICPEST SRL	Romania
SC MGM STAR CONSTRUCT SRL	Romania
SKYLD SECURITY AND DEFENCE LIMITED	Cyprus

More information about the European Commission's support for the Defence Industry

