This project has received funding from the European Union's Preparatory Action for Defence Research - PADR programme under grant agreement No 884134 [OPTIMISE]

innOvative PosiTIoning systeM for defence In gnSs-denied arEas (OPTIMISE)

Under the Preparatory Action on Defence Research (PADR), the grant for the Research Action call on the topic "Future Disruptive Defence Technologies –Emerging Game-changers', subtopic (1) 'Autonomous positioning, navigation and timing' was signed on 29 March 2021. The awarded project, called OPTIMISE, is led by SKYLIFE ENGINEERING (Spain). The consortium encompasses a total of 9 participants from 4 countries. The project, which has a duration of 28 months, will receive an EU grant of roughly €1.5 million.

PADR Call FDDT-EMERGING-03-2019– Information on the awarded project			
Name of the project	innOvative PosiTIoning systeM for defence In gnSs-denied arEas		
Short name	OPTIMISE		
Summary of the project			
OPTIMISE project will propose a PNT "toolbox", offering a set of emerging technologies – or a smart combination of disruptive technologies, as well as a backbone software architecture to integrate them. This will pave the way to more PNT technology integration into Defence Programs, at different timescale, from short to long term, depending on the technology maturity. This will also allow to achieve more EU strategic autonomy (less dependence to GNSS), and face scenarios where jamming and electronic warfare will be the baseline. The proposed architecture will consist in several technologies, that provide positional, navigation and timing solutions that will be fused and combined with the aim of achieving an improved and more reliable result. It will also allow to assess the key PNT emerging technologies and the optimized combination paving the way to an improved robust and reliable navigation chain (offering individual focuses on the related sensors and their associated data processing). OPTIMISE project aims to offer a navigation architecture which will be: More robust (particularly in case of GNSS denied or limited access to the GNSS signals), Flexible (does not depend on the scenario), Reliable (particularly in order to address the safety purpose), Low SWaP (in order to be used in several platforms including those which are demanding in terms of volume), and ITAR free.			
Project duration	28 months		
Starting date	01 April 2021		
Maximum foreseen EU Contribution	€ 1.499.400,00		
List of participants			
#	*Name of the entity*	*Country*	*EU Contribution requested by the entity*
1	SKYLIFE ENGINEERING SL	Spain	€ 321.741,9093
2	MBDA ITALIA SPA	Italy	€ 207.249,18
3	SENER AEROESPACIAL SOCIEDAD ANONIMA	Spain	€ 145.627,87

4	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	France	€ 182.793,3384
5	SYRLINKS SAS	France	€ 92.500
6	STAR NAV	France	€ 151.820,6721
7	SYSNAV SAS	France	€ 180.863,0388
8	ZILINSKA UNIVERZITA V ZILINE	Slovakia	€ 186.704,56
9	ASOCIACIÓN DE INVESTIGACIÓN Y COOPERACIÓN INDUSTRIAL DE ANDALUCÍA "F. DE PAULA ROJAS"	Spain	€ 30.099,43134