



EUROPEAN UNION

EUROPEAN DEFENCE FUND



SILENT

Studies and pre-design of next-generation quiet hypersonic wind tunnel facilities for European strategic autonomy

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2022

CALL TITLE:

Research actions for disruptive technologies

TOPIC TITLE:

Non-thematic research actions targeting disruptive technologies for defence

DURATION OF THE PROJECT:

48

TYPE(S) OF ACTIVITIES:

Generating knowledge, Integrating knowledge, Studies, Design

ESTIMATED TOTAL COST:

€ 3,985,958.48

MAXIMUM EU CONTRIBUTION :

€ 3,985,958.48



SHORT DESCRIPTION OF THE PROJECT:

SILENT will define the roadmap for the development of the first EU quiet hypersonic Wind Tunnel.

European industrial and research actors are currently dependent on third-countries' "quiet" (low noise) Wind Tunnels for the study of hypersonic vehicles external and internal aerodynamics. SILENT intends to address this capability gap conducting preliminary research activities and offering a clear roadmap for the construction of the first EU quiet hypersonic Wind Tunnel, based on a full pre-design of a low-enthalpy Wind Tunnel and feasibility studies of a flight enthalpy Wind Tunnel for hypersonic applications.





@defis_eu



**#StrongerEurope
#EUDefenceIndustry**

© European Union, 2023. Reuse of this document is allowed, provided appropriate credit is given and any changes are indicated.

**MEMBERS OF THE CONSORTIUM AND
COUNTRY OF ESTABLISHMENT:**

 NAME OF THE ENTITY	 COUNTRY
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES (Coordinator)	France
Absiskey	France
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	Germany
ERGON RESEARCH SRL	Italy
MBDA France	France
Von Karman Institute for Fluid Dynamics	Belgium