



POWERFLEX

SMART, HETEROGENEOUS TECHNOLOGICAL PLATFORM EXTENDING
THE POWER AND FREQUENCY LIMITS OF FLEXIBLE NANO-ELECTRONICS

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

CALL TITLE:

Open call addressing disruptive technologies for defence

TOPIC TITLE:

Research contributing to disruptive technologies for defence

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Generating and integrating knowledge; Studies; Design

ESTIMATED TOTAL COST:

€ 3,458,087.24

MAXIMUM EU CONTRIBUTION :

€ 3,458,087.24





SHORT DESCRIPTION OF THE PROJECT:

POWERFLEX will work on new flexible antennas based on new and advanced materials.

The project “Smart, Heterogeneous Technological Platform Extending the Power and Frequency Limits of Flexible Nanoelectronics” (POWERFLEX) proposes a disruptive solution for high power and frequency conformal antennae based on novel flexible GaN power amplifier, Carbon nano-tube based low noise amplifier and flexible RFMEMS technologies and their 2D monolithic integration.



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

|  NAME OF THE ENTITY |  COUNTRY |
|--|--|
| THALES (Coordinator) | France |
| BERLINER NANOTEST UND DESIGN GMBH | Germany |
| Circuits Integrated Hellas IKE | Greece |
| ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON | Greece |
| IDRYMA TECHNOLOGIAS KAI EREVNAS | Greece |
| INSTITUTUL NATIONAL DE CERCETAREDEZVOLTARE PENTRU MICROTEHNOLOGIE | Romania |
| Prisma Electronics ABEE | Greece |
| TAIPRO ENGINEERING SA | Belgium |
| THALES SIX GTS FRANCE SAS | France |
| UPPSALA UNIVERSITET | Sweden |