



NAUCRATES

Microsatellite for Geostationary Orbit Surveillance and Intelligence

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

CALL TITLE:

Open call dedicated to SMEs for development of innovative and future-oriented defence solutions

TOPIC TITLE:

Development of innovative and future-oriented defence solutions

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Studies; Design

ESTIMATED TOTAL COST:

€ 5,020,533.68

MAXIMUM EU CONTRIBUTION :

€ 4,000,000.00



SHORT DESCRIPTION OF THE PROJECT:



NAUCRATES will work on the demonstrator of a satellite intended for the optical intelligence of Geostationary Earth Orbit (GEO) resident objects.

The project “Microsatellite for Geostationary Orbit Surveillance and Intelligence” (NAUCRATES) will design and demonstrate a microsatellite with less than 100kg mass, positioned in a stable orbit outside the GEO belt, as an in orbit optical sensor with the capability to approach other objects in GEO to take centimeter level resolution images. The NAUCRATES satellite, with an envisaged 3 to 5 years lifespan, will feature a stealth design not to be visible by ground radars, telescopes or SIGINT and will host an optical telescope using special infrared for images transmission to minimize eavesdropping possibilities.

Related PESCO project: European Military Space Surveillance Awareness Network (EU-SSA-N)



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

|  NAME OF THE ENTITY |  COUNTRY |
|--|--|
| On-Air Consulting & Solutions Srl (Coordinator) | Italy |
| Bradford Engineering B.V. | Netherlands |
| Celestia Satellite Test & Simulations BV | Netherlands |
| Hyperion Technologies B.V. | Netherlands |
| IMT Srl | Italy |
| Integrasys S.A. | Spain |
| Optec SpA | Italy |
| Space Technologies for Innovation Srl | Italy |
| Systems Development & Support Srl | Italy |
| TEKEVER SPACE - SISTEMAS ESPACIAIS, LDA | Portugal |
| TTI Norte SL | Spain |