European Commission

European Union

INTEGRAL |

Innovative and iNteroperable Technologies for spacE Global Recognition and Alert

SELECTED PROJECTS EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME (EDIDP) 2020	
CALL TITLE:	**Space Situational Awareness (SSA) and early warning capabilities**
TOPIC TITLE:	**Advanced Space Command and Control (SC2) capability to process and exploit SSA data generated from sensors and catalogues to provide a complete space picture**
DURATION OF THE PROJECT:	**28 months**
TYPE(S) OF ACTIVITIES:	**Study; Design; Prototyping; Testing**
TOTAL COST:	**€ 8,364,718.00**
MAXIMUM EU CONTRIBUTION :	**€ 7,500,000.00**

MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:

NAME OF THE ENTITY	COUNTRY
VITROCISET S.P.A. (COORDINATOR)	Italy
AIRBUS DEFENCE AND SPACE GMBH	Germany
AIRBUS DS SAS	France
ARIANEGROUP SAS	France
CIRA - CENTRO ITALIANO RICERCHE AEROSPAZIALI	Italy
CS GROUP - FRANCE	France
DEIMOS ENGINEERING AND SYSTEMS; S.L.U.	Spain
DTU (TECHNICAL UNIVERSITY DENMARK)	Denmark
ELSIS	Lithuania
GMV AEROSPACE AND DEFENCE S.A.U.	Spain
INDRA SISTEMAS; SOCIEDAD ANÓNIMA	Spain
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	France
OKAPI ORBITS GMBH	Germany
POLITECNICO DI MILANO - DIPARTIMENTO SCIENZE E TECNOLOGIE AEROSPAZIALI	Italy
SPACE INVENTORS	Denmark
SYBILLA TECHNOLOGIES SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ	Poland
TELESPAZIO FRANCE	France
TELESPAZIO S.P.A.	Italy

TELESPAZIO VEGA DEUTSCHLAND GMBH	Germany
THALES ALENIA SPACE FRANCE	France
THALES DENMARK A/S	Denmark
UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II	Italy
VYOMA GMBH	Germany

SHORT DESCRIPTION OF THE PROJECT:

INTEGRAL will contribute to the development of a Recognized Space Picture and a space intelligence capability, based on functions and services deployed through a European military SSA Command and Control system.

The project "Innovative and iNteroperable Technologies for spacE Global Recognition and Alert" (INTEGRAL) will study, design, prototype and test an advanced space Command and Control (C2) flexible and modular architecture to process and exploit Space Situational Awareness (SSA) data generated from sensors and enhanced catalogues in order to provide a complete military space picture. Services and functions will bring the highest technological value, relying on innovative algorithms based on Artificial Intelligence/Machine Learning to overcome the limitations of the current SSA C2 systems, paving the way towards the achievement of a European independence on military SSA.

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