



INGV Center for Space Observations of Earth (COS): Contribute to the National Recovery and Resilience Plan (PNRR)

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INGV has contributed in the last 30 years to the development of space technologies both in the Earth Observation sector (including all available space systems Optical, SAR) and in the Global Navigation Satellite Systems (GNSS) sector allowing the INGV to play a role of excellence both for the study of satellite missions and for the development and supply of operational products for end-users. INGV has also laboratories with specific competences in developing instruments for the control and telemetry of stratospheric balloons, acquiring airborne data using UAVs both for local monitoring purposes and to test new sensors which could be selected for future space missions and provide Calibration/validation data for Space observations. In 2020 INGV established the Center for Space Observations of Earth (COS) with the aim to coordinate the INGV activities in the Space and Aerospace sector. The COS, represents INGV in working groups which in the last years have defined the National Space Policy, in particular those represented in the COMINT (Interministerial Committee for policies relating to space and aerospace), in the National User Forum Copernicus, and in International Committees with Space Agencies, United Nations. In 2022 the National Recovery and Resilience Plan (PNRR) offered specific funding for the Space Sector which will permit to build, in the next 3 years, both the COS infrastructures (ICT platform) and research activities to develop new algorithms and technologies. In particular the SPACE-IT-UP project (Fig. 1) funded by the Italian Space Agency (ASI) will permit to address, in the next three years, a very large number of scientific objectives and also it will reinforce the cooperation with industrial partners both to develop new prototypes and to activate research contracts and PhD programs to share between Research Institutes, Universities and Industry which could improve the national expertise and technological transfer in with a consequent advantage for all the space sector chain.

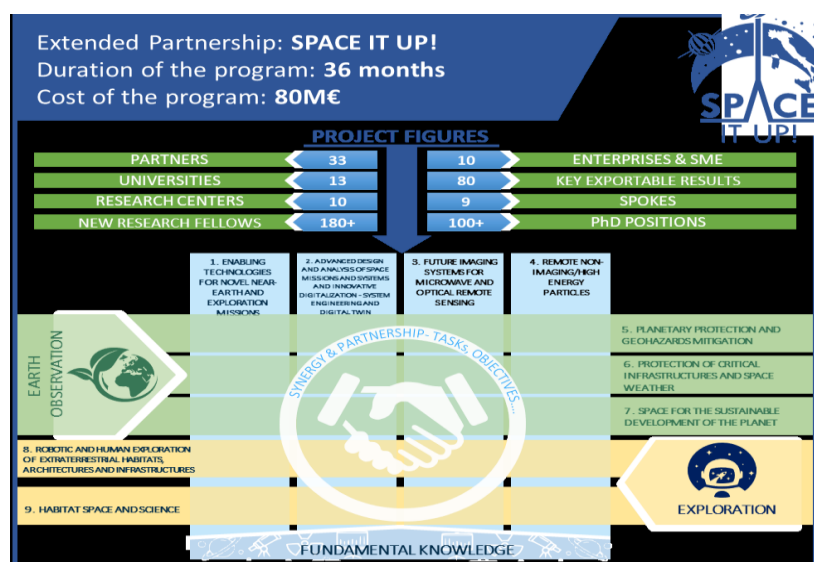


Figure 1. SPACE-IT-UP project scheme