ASI contribution to the UN 2030 Agenda: Italian Technologies and Initiatives

Italian Space Agency (ASI)
Prof. Roberto Battiston, President
With its space technologies and space-related initiatives, ASI contributes to several of the UN 2030 sustainable development goals.
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ASI EARTH OBSERVATION RADAR TECHNOLOGY AND SATELLITES

- COSMO-SkyMed (X-Band)
- SIASGE (Joint mission with Argentina L-Band satellites)
- SENTINELS for European COPERNICUS (C-Band)
- PRISMA Hyperspectral Italian mission
- SHALOM (Joint Hyperspectral mission with Israel)
- GeoRadar (Geostationary SAR mission with Russia)
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ITALIAN COSMO-SKYMED PERFORMANCES

Up to 4 images per day on the same spot thanks to the 4 satellites constellation

Day/night visibility through clouds

High revisit time

Leveraging on their polar orbit, COSMO-SkyMed radar satellites are able to acquire images of both north and south poles
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ITALIAN SAR TECHNOLOGY APPLICATIONS

RISK MONITORING AND MANAGEMENT OF EMERGENCIES
- Oil Spill
- Earthquakes
- Volcanoes
- Seismic Risk
- Fires

OCEAN AND ICE MONITORING

MONITORING AND MANAGEMENT OF COASTALINES AND INLAND WATERS

MONITORING AND MANAGEMENT OF FORESTRY AND AGRICULTURAL RESOURCES

TECHNICAL CARTOGRAPHY – URBAN PLANNING

SCIENTIFIC APPLICATIONS

SECURITY APPLICATIONS
• Mirror GALILEO and COPERNICUS
• Space infrastructures for citizens (SIGMa/URBIS system, aerial platforms, UAV, METEOSAT and METOP payloads)
• National PRS (PRESAGOGO Pilote Project)
• Space Surveillance and Tracking
• BIG DATA
Italian participation to ISS: more than 50% of the pressurized modules of the ISS has been built in Italy (MPLMs/PMM, Cupola, Nodes 2.3, Columbus/ATV)

Astronauts, Life Science experiments and Biotechnology on board (HPS, ALTEA, ELITE-S2, Diapason, ISSpresso, Portable 3D printer, Drain Brain, PERSEO, In Situ, ARTE, ARAMIS, LIDAL)

Payloads for Exploration of the Universe: Cassini/Huygens, Rosetta/Philae, DAWN, JUNO, CHEOPS, Bepi Colombo, PLATO, JUICE,.

MARS exploration: MRO, MarsExpress, EXOMARS, Deep Space Communications

Space Weather and Near Earth Objects (NEO)
Italian initiative adopted by the UNCOPUOS session in June 2016, Vienna

- ASI contribution to UNISPACE+50
- To expand availability of and accessibility to open source space science data through international cooperation among Member States and international space-related entities
- To foster and spread the culture of space science and astronomy across different countries
- Students and scholars among the targets of the initiative
Organised by ASI, under the IAF framework, and in collaboration with the IAA in preparation of UNISPACE+50

To promote a greater participation of Universities and Academy in peaceful space programs and activities

To foster space knowledge dissemination and space capacity building curricula and research activities at local and regional levels

In Trento, participation of 42 governmental delegations

Adoption for consensus of the Trento Space Statement

Next edition 2017 to be organised at regional level (Kenya’s candidature TBC)
Thank you

Italian Space Agency

www.asi.it