

The Italian activities and contributions

52ND SESSION OF THE STSC - UN COPUOS

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SPACE MATTERS

UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIR Bringing the benefits of space to humankind

Vittorio Cotronei – Italian Space Agency - 52nd Session of the STSC – UN COPUOS

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ASI MANAGES ACTIVITIES AND PROJECTS, AMONG

ASI ACTIVITIES ON

ISS & EXPLORATION

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Human Space Infrastructures

Research in Microgravity

Exploration

(human exploration at national level, human and robotic exploration at European level)

MULTILATERAL Through the participation to ESA optional programmes **BILATERAL** Through the Memorandum of Understanding with NASA

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THE ITALIAN PARTECIPATION

TO THE ISS

ITALY HAS A PRIVILEGED, TWO-LANE, ACCESS TO

ISS:



MULTILATERAL LEVEL

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TO THE ISS



Italy is the 2nd contributor to ESA programme ELIPS 4



BILATERAL LEVEL

THE ITALIAN PARTECIPATION

TO THE ISS

Additionally, the MPLM FM1(Leonardo) was modified and transported to the ISS before the Shuttle retirement, to become the Permanent Multipurpose Module (PMM). As per the MPLM MoU, ASI provided to NASA three Multi-Purpose Logistics Modules (MPLM) designed to be transported in the Shuttle cargo bay.





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In exchange for the provision of these technological assets and the relevant support, ASI has acquired from NASA the right to:

THE ITALIAN PARTECIPATION

TO THE ISS

- ✓ a share of 0,85% of the NASA pressurised user accommodations.....
- ✓ Italian astronaut flight opportunities during the life of the program.

The exploitation of these rights is subject to the definition and execution in coordination with NASA of the "ASI Utilization Plan".

The Plan and its yearly updatings are submitted to the approval of a joint ASI/NASA Executive Committee.





ASI GOALS

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Maximize the ISS utilization activities and returns both at bilateral and multilateral level, in the aim to optimize the large investments made in the past

Contribute to the development of technology innovations for the future international programs of exploration

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In 2001, ASI establishes the first ISS Utilization Program including a national research plan and development of relevant payloads

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TO THE ISS

- Since then, three phases
 - ✓ Early Utilization
 - APCF (w. ESA), M. Polo Mission (2002), ALTCRISS (w. ESA)
 - ✓ Facilities
 - HPA, ALTEA, ELITE-S2, MDS, BIOKON, PLEGPAY (w. ESA)
 - ✓ Research complements to Italian astronauts flights
 - Esperia Mission (2007), DAMA Mission (2011),
 VOLARE Mission (2013), FUTURA Mission (2015)





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