



In collaboration with



HIGH LEVEL DIALOGUE ON ASEAN ITALY ECONOMIC RELATIONS

Eighth Edition

November 6, 2024 - Philippines Dusit Thani Hotel, Manila

PRESENTATION BY SILVIA CICCARELLI

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HIGH LEVEL DIALOGUE ON ASEAN ITALY ECONOMIC RELATIONS

Silvia Ciccarelli

ASI – Italian Space Agency
International Affairs Directorate

International Cooperation and Space Diplomacy Office
Head of Industrial Internationalization Sector

Manila – 6th November 2024

ITALY IN SPACE

1950s

- Edoardo Amaldi and Luigi Broglio launch the first space objects

1962

- Italy is founding member of ELDO (European Launcher Development Organization) and ESRO (European Space Research Organization).

1963

- Creation of National Institute for Space Research

1964

- Launch of the first Italian satellite (designed and produced in Italy) with a US launcher from Wallops Island – **3rd country worldwide**

1967

- Launch of an Italian satellite from the Italian base in Malindi (Kenya)

1975

- Italy is a founding member of ESA



1979

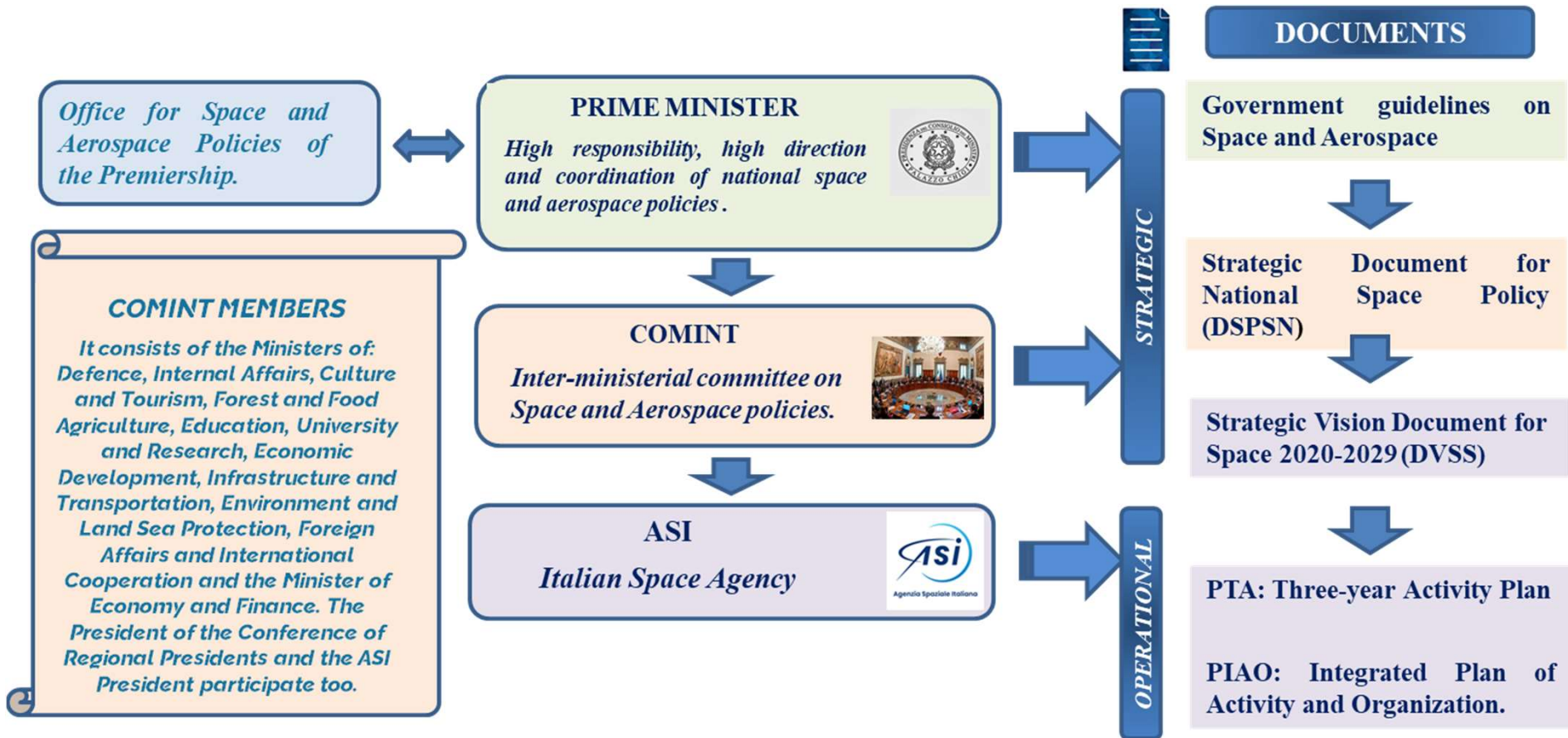
- First National Space Plan

1988

- Creation of the Italian Space Agency (ASI)



SPACE GOVERNANCE IN ITALY



ASI IN BRIEF: ~450 people, 4 sites



ASI HQs – Roma, Tor Vergata

ASI HQs,
Rome

Scientific and
EO Data
Center, ASI
HQs, Rome



Centro Spaziale «G. Colombo» – Matera

Space Geodesy
Center, Matera

Matera Space
Center Lab
(PNRR)

Space Debris
Laser Ranging
(PNRR)

...

Broglio Space
Center



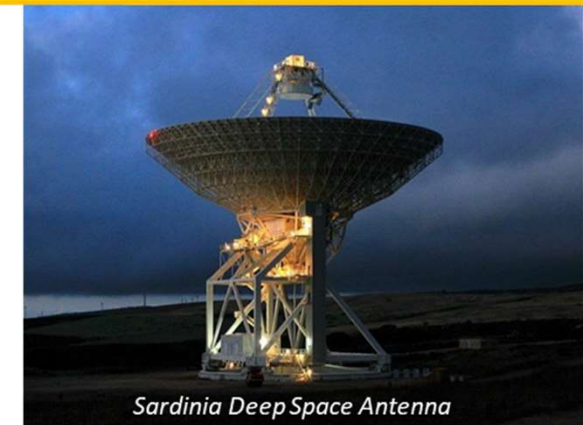
Malindi – Kenya

200 local workers
approx.)



Centro Spaziale "Luigi Broglio" – Malindi, Kenya

Sardinia Deep
Space
Antenna
Research
Center, San
Basilio,
Cagliari



Sardinia Deep Space Antenna

ASI BILATERAL AND MULTILATERAL INITIATIVES

ESA and UE programmes



Bilateral and multilateral Initiatives



...

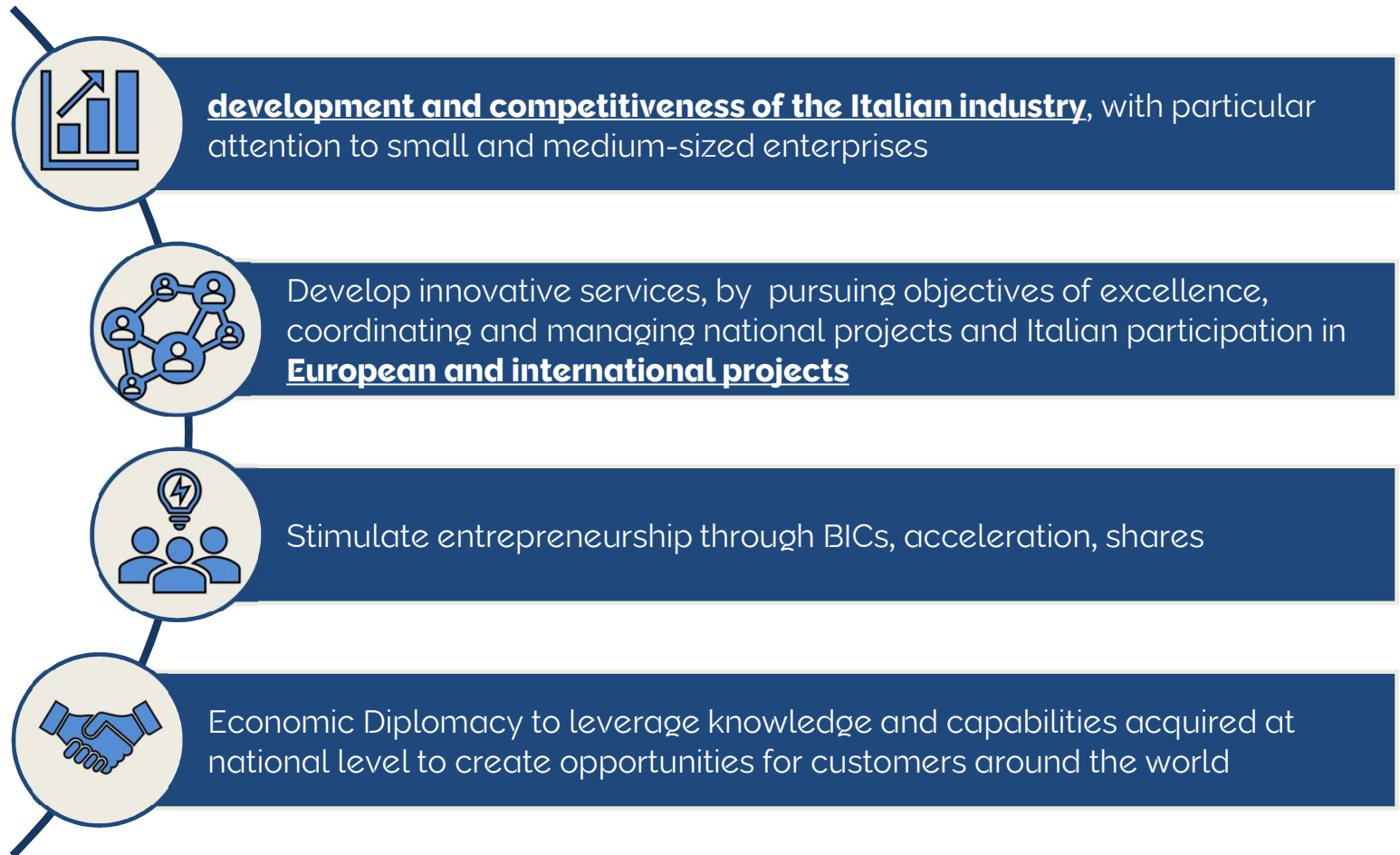
National Initiatives & PNRR



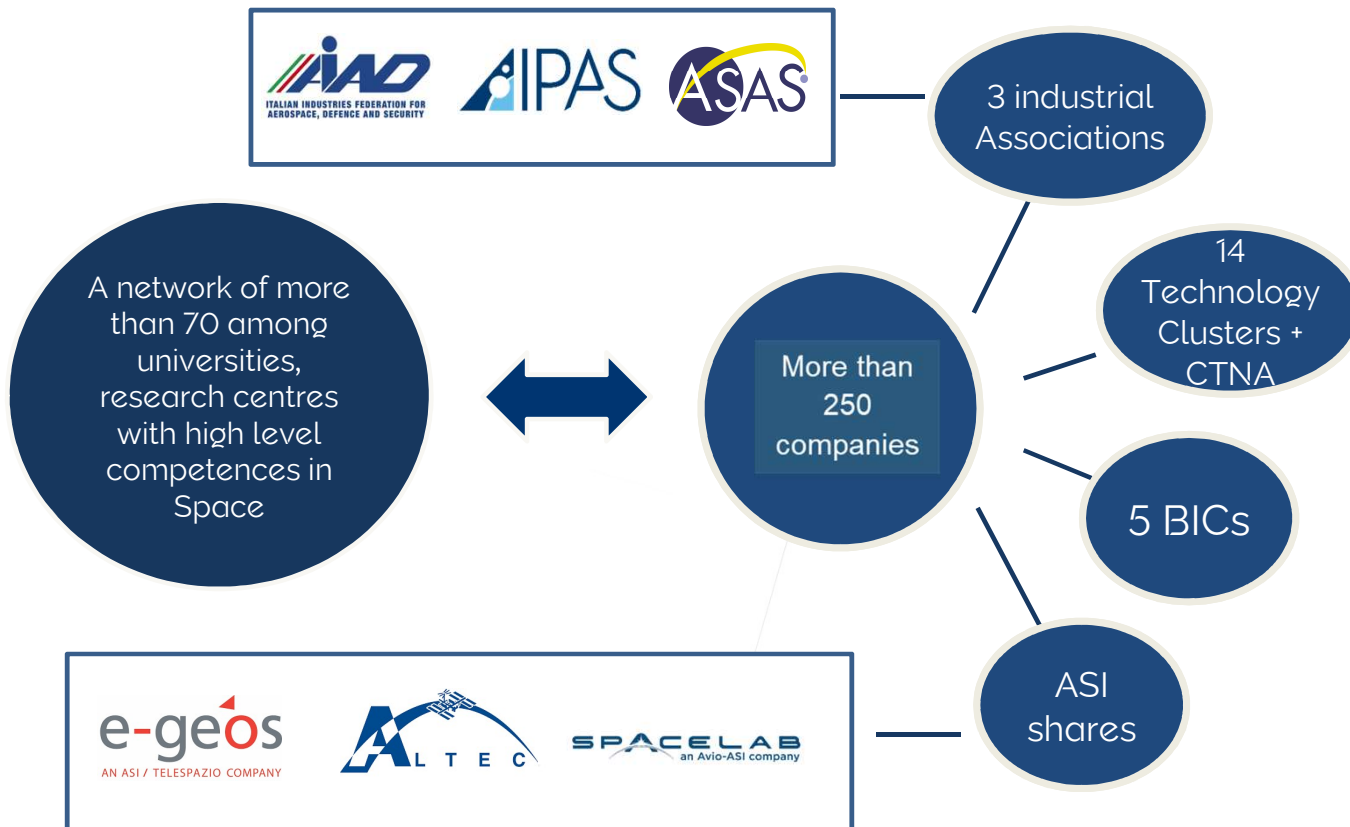
SPACE INDUSTRY IN ASI MISSION



Italian
Space
Industry

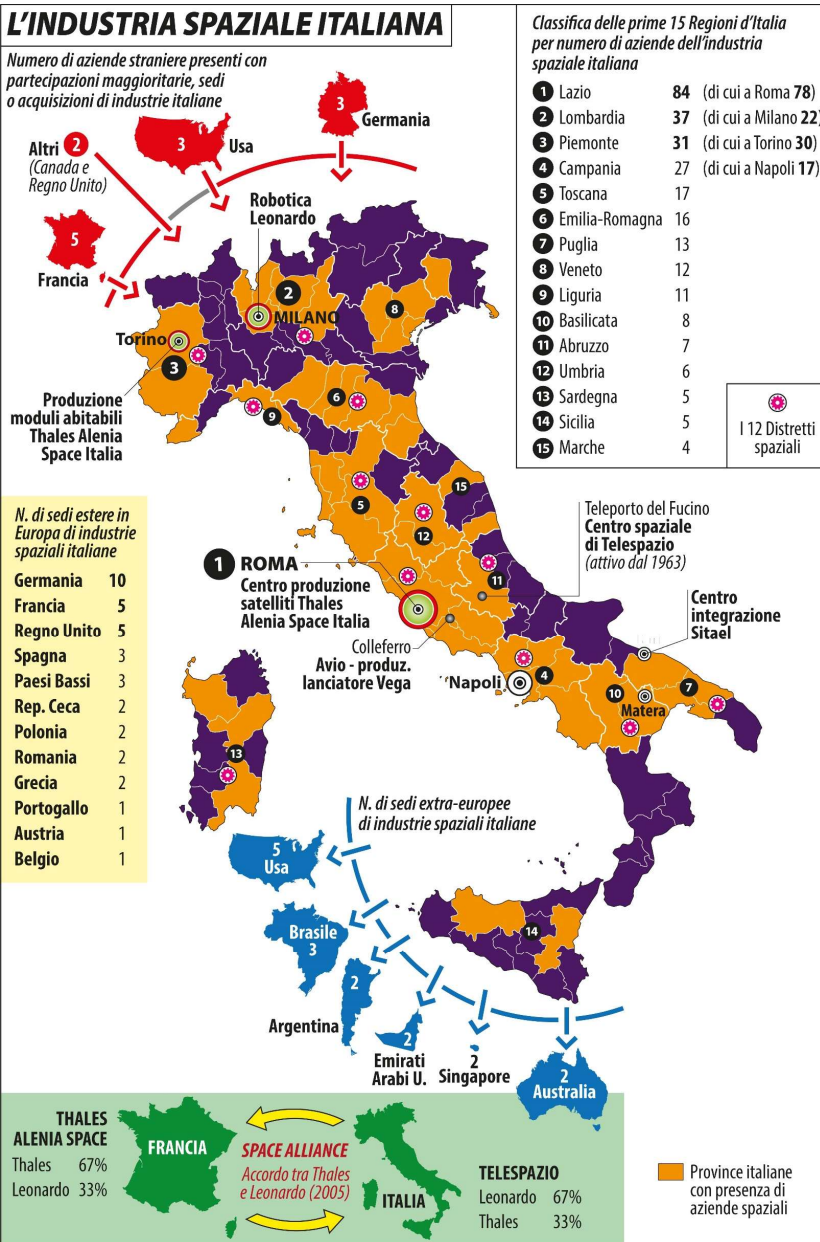


THE ITALIAN SPACE ECOSYSTEM

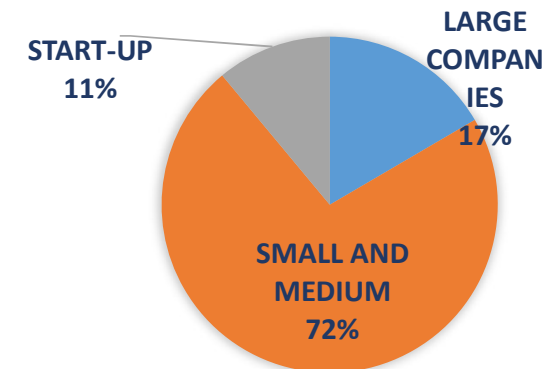


Italian Space Industry
on line Catalogue
<https://italianspaceindustry.it/>

DISTRIBUTION OF ITALIAN SPACE INDUSTRY



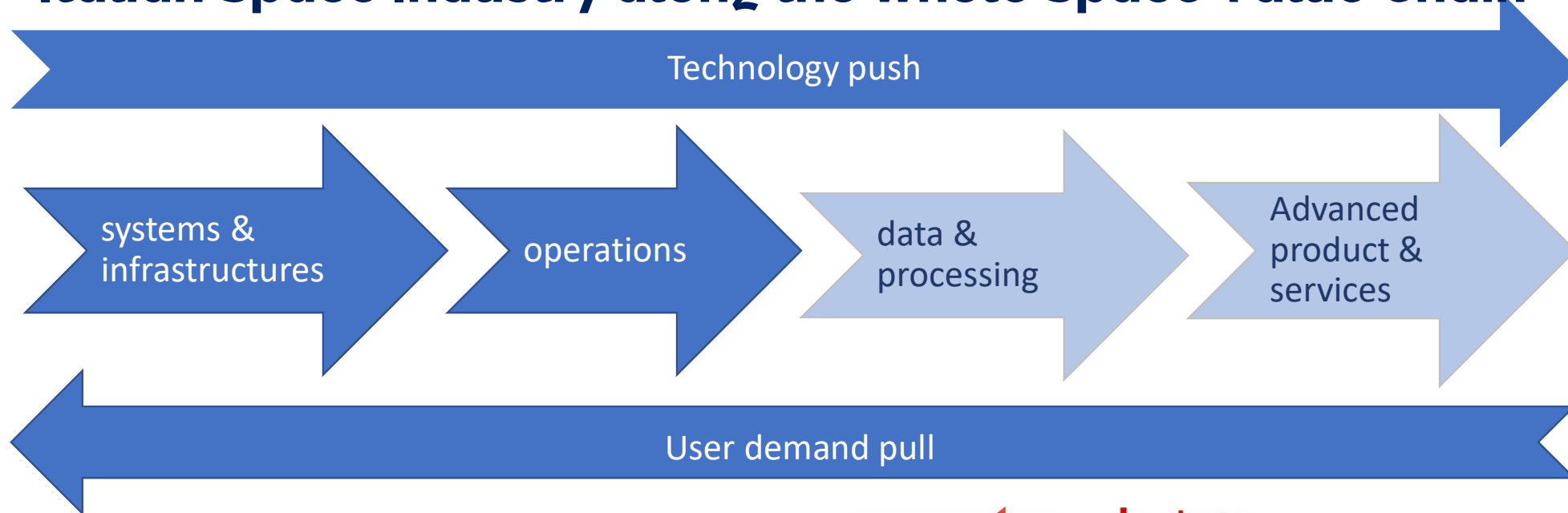
- Regional **Clusters** of concentration
- **Extensive commercial relationships around the world**
 - ✓ Top left: countries of origin of foreign companies
 - ✓ Bottom left: extra-European locations (shares/branches)
- 5 ASI/ESA Business Incubation Centres
- Large System Integrators, small system integrators, payload integrators, mid-caps, small/micro companies, start-ups



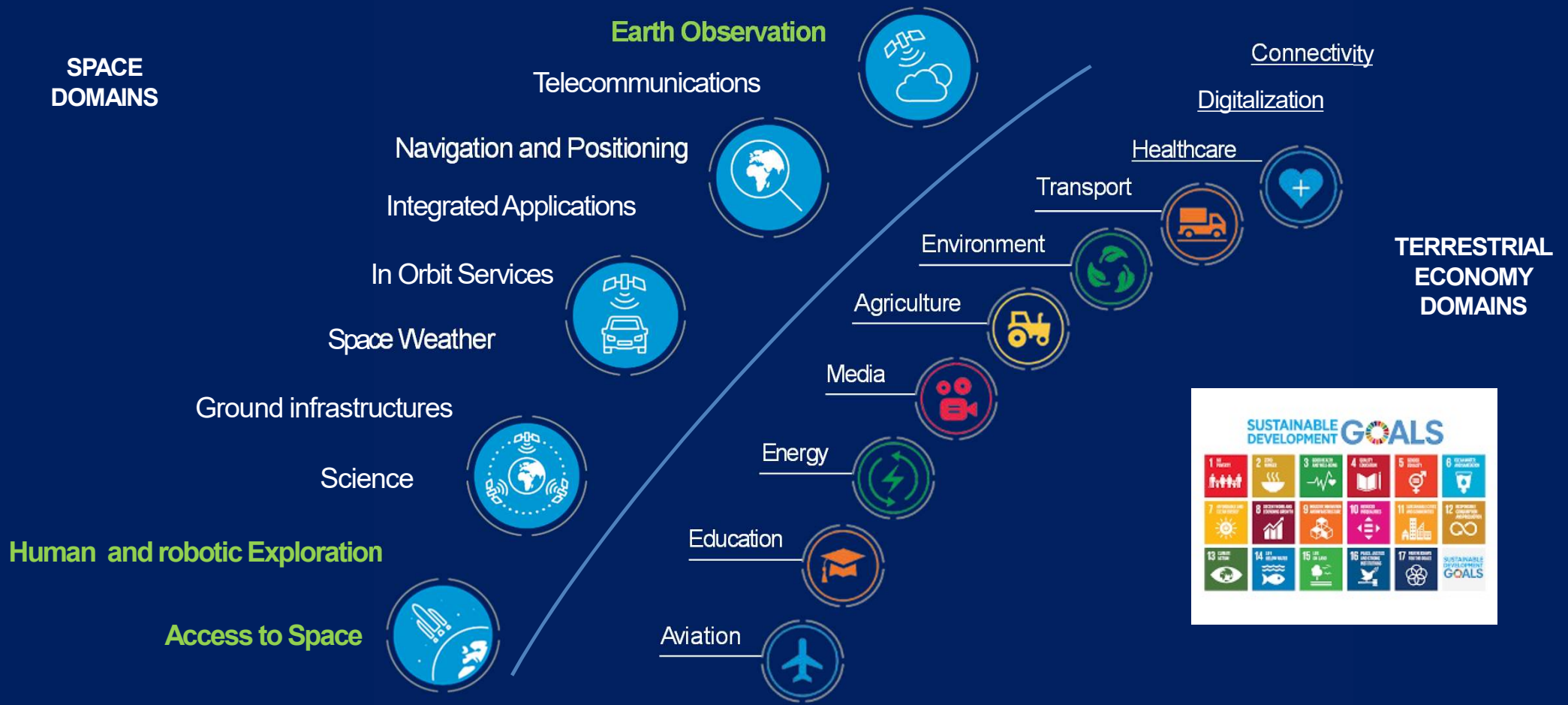
presence of space companies

Italian Space Industry Companies dimension

Italian Space Industry along the whole Space Value Chain



ITALIAN SPACE VALUE CHAIN FOR SOCIETAL CHALLENGES





Office for Space Technology
& Industry, Singapore



The ASEAN-Italy Cooperation Initiative on Space and Smart Technologies

Framework: “ASEAN-Italy Development Partnership: Practical Cooperation Areas 2022-2026”

Partners:

- ASI: proposer and leader
- ASEAN Secretariat: COSTI and SCOSA
- OSTIn Singapore: co-leader



Objectives of the ASI Initiative:

- To create **long term and structured links and partnerships** between the Italy and ASEAN space business and scientific communities
- To support and nurture the blossoming space ecosystem in the ASEAN region

This is the very **first collaboration in high tech and Space** between the ASEAN Secretariat and Italy, and also the first with a European country





Office for Space Technology
& Industry, Singapore



ASEAN Italy Cooperation Initiative on Space and Smart Technologies

Beneficiaries

Primarily **start-ups from ASEAN Member States** and other space-related enterprises and/or research organization/government agencies.

Activities (July-October 2024):

The Initiative is divided into 2 segments :

- **Virtual segment** (July-Sept 2024) : Lectures of experts and business testimonials
- **On site segment:** Full Participation to the International Astronautical Conference + Italian Space Industry Study Tour and B2B meetings





Office for Space Technology & Industry, Singapore



On Line Segment Virtual lectures results insight

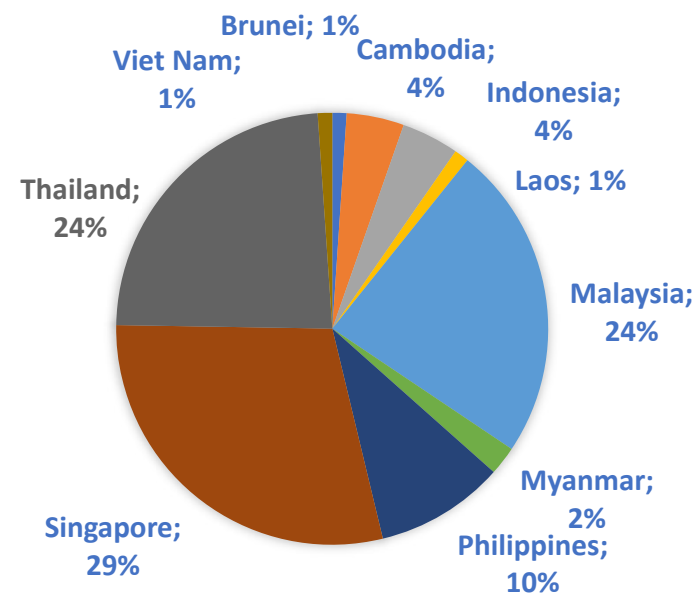
Topics

- Digital engineering and the 4th Industrial Revolution
- Telecommunications
- Artificial Intelligence
- EO data, applications and benefits for ASEAN
- Micro- and Nano-Satellites
- Space and Sustainable Development Goals
- Cyber Security in Space Domain
- Satellite Navigation and Positioning
- New Space Economy and Innovation
- Big data including digital twins

IT Business Testimonials

- Thales Alenia Space Italia
- Stellar Project
- IngeniArs
- E-Geos
- Tyvak International
- University of Bari and Planetek
- Leonardo
- Arca Dynamics
- Apogeo Space

PARTICIPANTS COUNTRIES OF ORIGIN



Ministry of Foreign Affairs and International Cooperation



On Site Segment in Italy – October 2024

- Selection of 11 people: 9 representatives from ASEAN MS + 2 ASEC representatives (**40% women, 64% companies**)
- Participation to the International Astronautical Conference 2024 in Milan
- **Italy Space Industry Study Visit Tour**





Office for Space Technology
& Industry, Singapore



On Site Segment IAC 2024 and Italy Space Study Visit Tour

Italy Study Visit Tour: technical visits, discussions and share of experiences – mix successful stories of Italian New Space companies and well consolidated companies with excellent capabilities recognized at international level

Milan:

- Politecnic of Milan
- D-Orbit
- Leaf Space

Turin

- Argotec Space Smart Factory
- Thales Alenia Space Italia
- Altec
- Tyvak International

Rome

- Telespazio, e-Geos and Leonardo
- Thales Alenia Space Italia Rome site
- AVIO





- Now working on the follow-ups/next editions:
 - Joint research projects
 - Investigating support in some of the priorities of the ASEAN agenda: i.e. start-ups, decarbonization, climate shift, environmental fragilities...
- The International Space Forum at Ministerial level, an initiative that ASI, in collaboration with the International Astronautical Federation (IAF), yearly organize around the world in different regions, will be held in one ASEAN country in 2025





Agenzia Spaziale Italiana



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