



UNITED NATIONS
Office for Outer Space Affairs

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PREPARATORY MEETING HIGH LEVEL FORUM

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SPACE AS A DRIVER FOR SUSTAINABLE DEVELOPMENT

Series of HIGH LEVEL FORA towards
UNISPACE +50



Since the beginning of the space age and the “**Declaration of Legal Principles Governing the Activities of States in the Exploration and Uses of Outer Space,**” in 1963 the world has changed drastically and the speed it will continue to change will be a challenges for its own in the upcoming years.



Global space cooperation can only be beneficial, and the subsequent generations of humanity will reap the benefits of the orderly conduct of space activities. All countries, whether or not they have already become active in space research, or have started to utilize space applications, can use space technology as a key to open the strongbox towards a prosperous and common future.



Signature of a partnering agreement between the Soviet Union and the US, on 17 July 1975 for the first time in history the US Apollo spacecraft actively - and manned - docked at the Soyuz spacecraft.



Source: NASA

*"When we opened this hatch
in space, we were opening,
back on Earth a new era in
the history of man."*

Tom Stafford – Apollo
Astronaut



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#WHYSPACEMATTERS

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#WHYSPACEMATTERS





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SPACE AS A DRIVER FOR SUSTAINABLE DEVELOPMENT

Series of High Level Fora towards UNISPACE +50

The **Series of High Level Fora: Space as a Driver for Socioeconomic Sustainable Development** will offer us a unique opportunity to collectively address the cross-sectoral impact of integrating **economic, environmental, social, policy and regulatory dimensions** of space in pursuance of global sustainable development.



4 PILLARS

SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY / SPACE ECONOMY

Preparatory meeting aims to:

- exchange information and raise awareness on **current space activities**;
- promote the **benefits** from space, space technology and all positive knock-on effects;
- discuss **game plans and strategies** to link space exploration as a driving force for socio economic development;
- discuss cutting-edge space technology **areas to collaborative** address global challenges
- promote **cooperation in the peaceful uses of outer space**
- start the discussion on our joint efforts towards 2018 and **UNISPACE+50**



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The acceptance and recognition of the significant changes which have occurred in the world of space activities and reflecting the increasing number of participants in the space sector at all levels





SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY / SPACE ECONOMY

Space **unites** all humans in a common and higher purpose and space excites, motivates and inspires us in so many ways.





SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY / SPACE ECONOMY

The space community is constantly learning amazing things which not only helps us here on earth and makes our daily life easier but as well prepares humanity for touching down on other planets.



Innovation from space research is influencing health and medicine, transportation, public safety, IT-Technology etc. We all are in one way or the other influenced and touched by the advances from space and this influences our daily lives.



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Equal and non-discriminatory access to outer space for all States which aims at improving life on earth, despite of a country's scientific, technological, and economic development.

- The benefits of open space data policies and practices to provide space accessibility;
- Accessibility to space-based data;
- The benefits of space accessibility towards the development of the space sector;
- Joining a global effort in the development of the global space sector for the benefit of humanity; and
- Enhancing access to space and its assets for scientific and commercial endeavours.

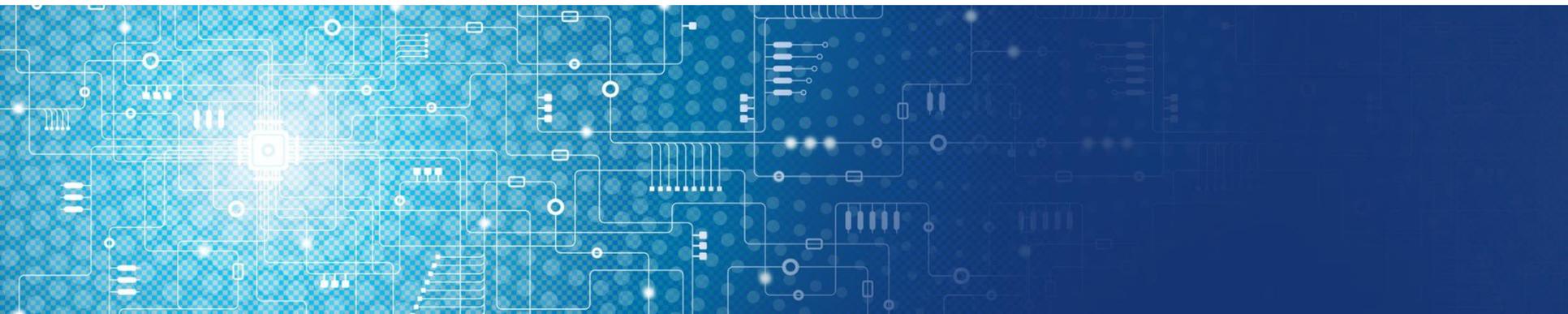


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Addressing the challenges we face today – such as **distribution of food resources, impacts of climate change** or **health concerns** – results in a growing demand to open data as these can support the mechanism to address these larger trends.

There are many great opportunities and benefits in free access to open data such as:

- **Equal distribution of changes** to broaden economic benefits and foster research and innovation
- Facilitation of **support in decision making process** on the basis of accessible and transparent data.



[UNOOSA AND SDG]



Look again at that dot. That's here. That's home. That's us. [...] There is perhaps no better demonstration of the folly of human conceits than this distant image of our tiny world. To me, it underscores our responsibility to deal more kindly with one another, and to preserve and cherish the pale blue dot, the only home we've ever known.

Carl Sagan

[UNOOSA AND SDG]



[UNOOSA AND SDG]

To understand what is happening and to be able to elaborate efficient counter-measures – we need to monitor the development, and facilitate access to reliable data. Space Infrastructure offers us this unique tool and is crucial for this purpose. International cooperation and long term planning is essential in this regard.

GOAL 17

STRENGTHEN THE MEANS OF IMPLEMENTATION AND
REVITALIZE THE GLOBAL PARTNERSHIP FOR
SUSTAINABLE DEVELOPMENT



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Space Diplomacy aims at a constructive approach to engage with others on the basis of equal footing and mutual respect, with the overall goal to address shared concerns and achieve shared objectives. Hence, we should all work together to pursue our common target and use Space Diplomacy as a vehicle to create this atmosphere of mutual trust.



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- Current international policies and practices in space;
- Attention of governments to the need for regulatory frameworks and mechanisms at national, regional and global levels;
- Role of international mechanisms for cooperation in the peaceful exploration and use of outer space;
- Aligning national policies with the need for growth and development in outer space activities;
- Processes for enhancing the long-term sustainability of outer space activities, including through transparency and confidence-building measures;
- Challenges for public private partnership (PPP) in space activities;
- Development of national space policies and regulatory frameworks.



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- Emergence of **new technologies** and increasing number of space actors at all levels;
- Identification of current and emerging **markets associated with space**;
- **Economic impact** of space activities funding on the economy in the short- and long-term;
- Economic **effect of space spin-off activities** on different sectors of society;
- **Commercial opportunities** of increasing the user base of space technology and its applications;
- **Diversification of funding** sources and resource allocation;
- Establishing **support systems** and mechanisms to enable the fostering and development of spin-off space activities;
- **Evaluation** of the impacts and trends in economic developments in relation to space activities.



SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY / **SPACE ECONOMY**

1.

SPACE ACTORS



2.

PRIVATE COMPANIES



PRIVATE COMPANIES

3.

SPACE SECTOR





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*“The space sector plays **an increasingly pivotal role** in the efficient functioning of modern societies and their **economic development**. The use of satellite technology [...] is giving rise to a growing stream of applications in such areas as air traffic control, transport, natural resource management, agriculture, environmental and climate change monitoring, entertainment and so on, which in turn are creating new downstream uses and new markets. **Space is increasingly seen as a contributing lever for economic growth, social well-being and sustainable development.**” (Space Economy at a Glance 2014, OECD)*



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SPACE SECTOR =

- + driver for exploration and knowledge,
- + a place of inventions and defining cutting edge technologies,
- + a dynamic sector as space is innovation per definition,
- + a sector with the conglomerate of the highest skills in the world
- + significant Return on Investment



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**HIGH LEVEL FORUM on
“Space as a driver for Socioeconomic Sustainable Development”
in Dubai**

**DUBAI
DECLARATION
2016**





UNISPACE+50 process





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4 PILLARS

SPACE ECONOMY / SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY

these pillars will guide our preparations towards
UNISPACE +50 and beyond



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- to touch topics around space technologies and infrastructure, aim at increasing awareness of the **benefits of space economy** for global **sustainable developments**;
- to address the **economic rationale** for space activities;
- to discuss framework possibilities for the **cooperation of private and public entities**.



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to raise the awareness of the **benefits of space technologies and space-based services** during decision making processes and among governments for a **sustainable society**.

Integrated use of space applications as well as topics around the linkages of our space technology for a sustainable treating of our planet are essential an our common way forward.



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Space Accessibility is geared towards the **benefits of open space data** policies and practices to provide access to space.

Capacity-building and education will support the **global effort** in the development of the space sector for the benefit of humanity.



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- to discuss mechanisms for **effective governance**, for the inclusion of emerging space countries;
- to increase awareness in the global development diplomacy of **the benefits of space tools** for the implementation of the **2030 Agenda for Sustainable Development**;
- to raise the awareness of **COPUOS** as the UN platform for space diplomacy and decision-making at the global level.



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“Cooperation means friendship, friendship means peace”



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THANK YOU

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