


UNITED NATIONS
Office for Outer Space Affairs

CEU SUN 2016 OOSA Introduction and the Programme on Space Applications

Lorant Czaran
Programme Officer, United Nations Office for Outer Space Affairs

Budapest, 4th July 2016






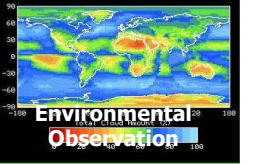
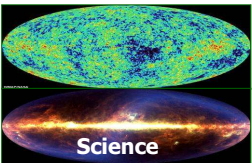


4 July 2016 United Nations Office for Outer Space Affairs 1



I. United Nations and Outer Space

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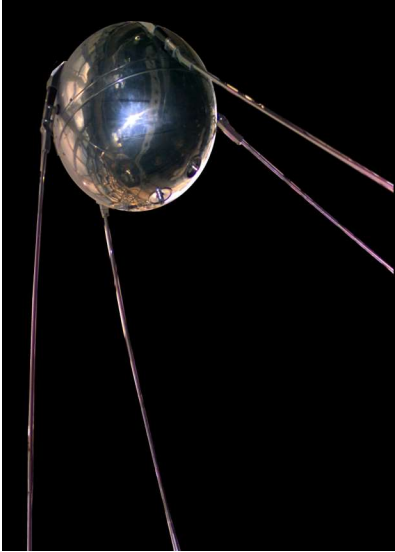
Benefits from Space Activities

 Satellite TV	 Positioning and Navigation	 Weather Forecast
 Global Communications	 Technology Development	 Environmental Observation
 Science	 Research	 Exploration

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Beginning of the Space Age

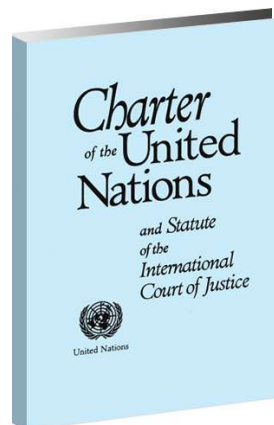
- **Launch of Sputnik-I (4 October 1957)**
- **Important questions:**
 - How to prevent the extension of the cold war arms race into outer space?
 - What should be the rules and regulations for activities in outer space?
 - How to ensure that space activities benefit all humankind?
- **Agreement that the purposes and principles of the United Nations should also apply to activities in outer space**



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United Nations and Outer Space - Mandate

- **Article 1**
 - *Maintain international peace and security;*
 - *Develop friendly relations among nations ... and to take other appropriate measures to strengthen universal peace;*
 - *Achieve international co-operation in solving international problems of an economic, social, cultural, or humanitarian character ...; and*
 - *Be a centre for harmonizing the actions of nations in the attainment of these common ends.*
- **Article 56**
 - *Take joint and separate action in cooperation with the Organization for the achievement of these purposes ...*



As cited in para. 35 of the report of the Ad Hoc COPUOS meeting (A/4141)

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Committee on the Peaceful Uses of Outer Space

- **1958: UN General Assembly resolution 1348(XIII)**
 - Outer space to be used for peaceful purposes only and to be exploited to the benefit of mankind
 - Established an ad-hoc Committee on the Peaceful Uses of Outer Space (COPUOS) as an appropriate body for international cooperation
- **1959: UN General Assembly resolution 1472 (XIV)** reaffirmed the role of COPUOS and mandated the Committee to:
 - Review international co-operation
 - Study space-related activities that could be undertaken under United Nations auspices
 - Encourage and assist with national space research programmes
 - Study legal problems which may arise from the exploration of outer space



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Committee on the Peaceful Uses of Outer Space

- Scientific and Technical Subcommittee (STSC)
- Legal Subcommittee (LSC)
- 83 Member States and >30 organizations with permanent observer status (one of the largest UN Committees)
- Decision-making based on consensus
- Reports to the Fourth Committee of the General Assembly and adopts an annual resolution on “International cooperation in the peaceful uses of outer space”



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83 COPUOS Member States

<ul style="list-style-type: none"> • Albania • Algeria • Argentina • Armenia • Australia • Austria • Azerbaijan • Belarus • Belgium • Benin • Bolivia • Brazil • Bulgaria • Burkina Faso • Cameroon • Canada • Chad • Chile • China • Colombia • Costa Rica • Cuba • Czech Republic • Ecuador • Egypt • El Salvador • France • Hungary 	<ul style="list-style-type: none"> • Germany • Ghana • Greece • India • Indonesia • Iran • Iraq • Israel • Italy • Japan • Jordan • Kazakhstan • Kenya • Lebanon • Libyan Arab Jamahiriya • Luxembourg • Malaysia • Mexico • Mongolia • Morocco • Netherlands • Nicaragua • Niger • Nigeria • Oman • Pakistan • Peru • Philippines 	<ul style="list-style-type: none"> • Poland • Portugal • Qatar • Republic of Korea • Romania • the Russian Federation • Saudi Arabia • Senegal • Sierra Leone • Slovakia • South Africa • Spain • Sri Lanka • Sudan • Sweden • Switzerland • Syrian Arab Republic • Thailand • Tunisia • Turkey • United Arab Emirates • United Kingdom of Great Britain and Northern Ireland • United States of America • Ukraine • Uruguay • Venezuela • Viet Nam
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Status as of June 2016, see <http://www.unoosa.org/oosa/en/ourwork/copuos/members/evolution.html>

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34 COPUOS Observer Organisations

Intergovernmental Organizations

- Asia Pacific Space Cooperation Organization (APSCO)
- Association of Remote Sensing Centers in the Arab World (ARSCAW)
- Centre for Remote Sensing of the North African States (CRTEAN)
- European Organization for Astronomical Research in the Southern Hemisphere (ESO)
- European Space Agency (ESA)
- European Telecommunications Satellite Organization (EUTELSAT)
- International Mobile Satellite Organization (IMSO) previously INMARSAT
- International System and Organization of Space Communications (INTERSPUTNIK)
- International Telecommunications Satellite Organization (ITSO) previously INTELSAT

Status as of June 2016

Non-governmental Organizations

- African Association of Remote Sensing of the Environment
- African Organization of Cartography and Remote Sensing (AOCRS)
- Association of Space Explorers (ASE)
- Committee on Earth Observation Satellites (CEOS)
- Committee on Space Research (COSPAR)
- European Association for the International Space Year (EURISY)
- European Space Policy Institute (ESPI)
- Ibero-American Institute of Aeronautic and Space Law and Commercial Aviation
- Inter-Islamic Network on Space Sciences and Technology
- International Academy of Astronautics (IAA)
- International Association for the Advancement of Space Safety (IAASS)

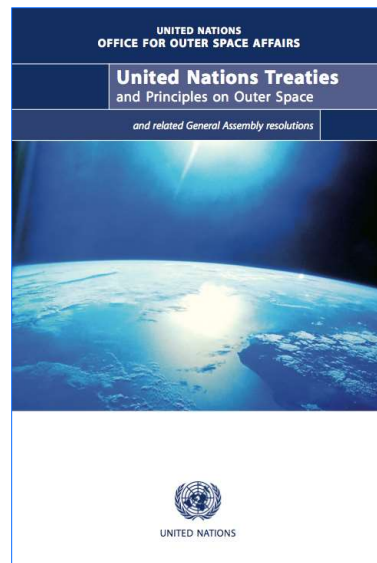
- International Astronautical Federation (IAF)
- International Astronomical Union (IAU)
- International Institute for Applied Systems Analysis (IIASA)
- International Institute of Space Law (IISL)
- International Law Association (ILA)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- International Space University (ISU)
- National Space Society (NSS)
- Prince Sultan Bin Abdulaziz International Prize for Water (SIPW)
- Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)
- Secure World Foundation (SWF)
- Space Generation Advisory Council (SGAC)
- The Planetary Society (TPS)
- World Space Week International Association (WSWA)

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COPUOS Accomplishments


- How to prevent the extension of the cold war arms race into outer space?
 - Principle of the Peaceful Uses of Outer Space
- What should be the rules and regulations for activities in outer space?
 - Outer Space Treaties
- How to ensure that space activities benefit all humankind?
 - International Cooperation
 - United Nations Programme on Space Applications



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COPUOS Current Issues



- **Scientific and Technical Subcommittee (STSC)**
 - Working Group (WG) of the Whole
 - WG on the Use of Nuclear Power Sources in Outer Space
 - WG on the Long-term Sustainability of Outer Space Activities
 - Expert Groups on space weather and global health
 - International Asteroid Warning Network (IAWN) & Space Mission Planning Advisory Group (SMPAG)
- **Legal Subcommittee (LSC)**
 - WG on the Status of United Nations Treaties on Outer Space
 - WG on the Definition and Delimitation of Outer Space
 - WG on the Review of International Mechanisms for Cooperation in the Peaceful Exploration and Use of Outer Space

Space and climate change	Disaster Management	Space debris mitigation	National space legislation
International mechanisms for cooperation	Long-term sustainability of outer space activities	Definition and delimitation of outer space	Space applications for socioeconomic development
Near-Earth objects	Global Navigation Satellite Systems	Space Weather	GGE-report

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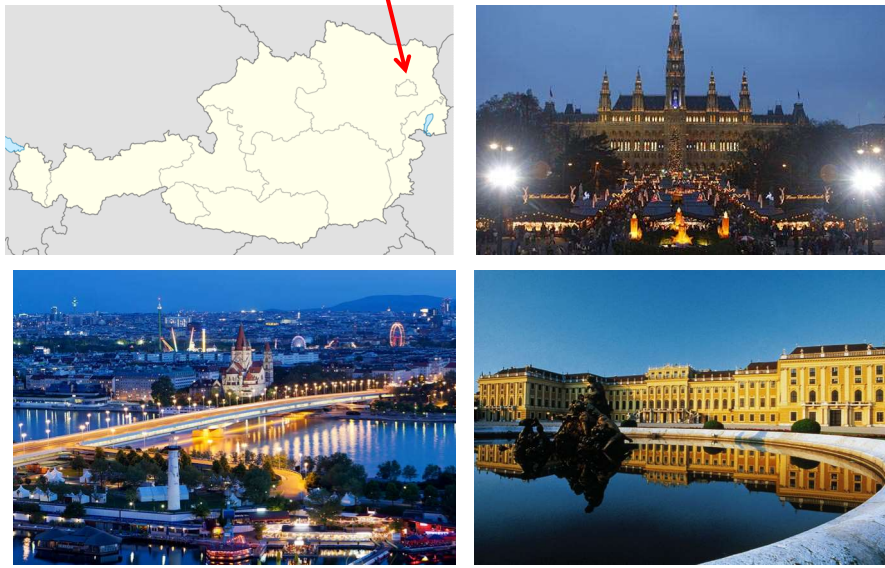
Office for Outer Space Affairs



- Originated as a small expert unit in the UN Secretariat to service the Ad Hoc COPUOS meeting in 1959
- Eventually transformed into the United Nations Office for Outer Space Affairs (UNOOSA)
- Relocated from New York to the UN Office at Vienna (UNOV) in 1993
- 25 staff members (scientists, lawyers, political scientists), plus several seconded staff and interns
- Offices in Bonn, Germany and Beijing, China

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Vienna, Austria



United Nations Office for Outer Space Affairs

United Nations Office at Vienna



United Nations Office for Outer Space Affairs



II. United Nations Programme on Space Applications

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UNCOPUOS



UNISPACE Conferences



**Outer Space
Treaties**



**UN Interagency
Meeting on Outer
Space Activities**



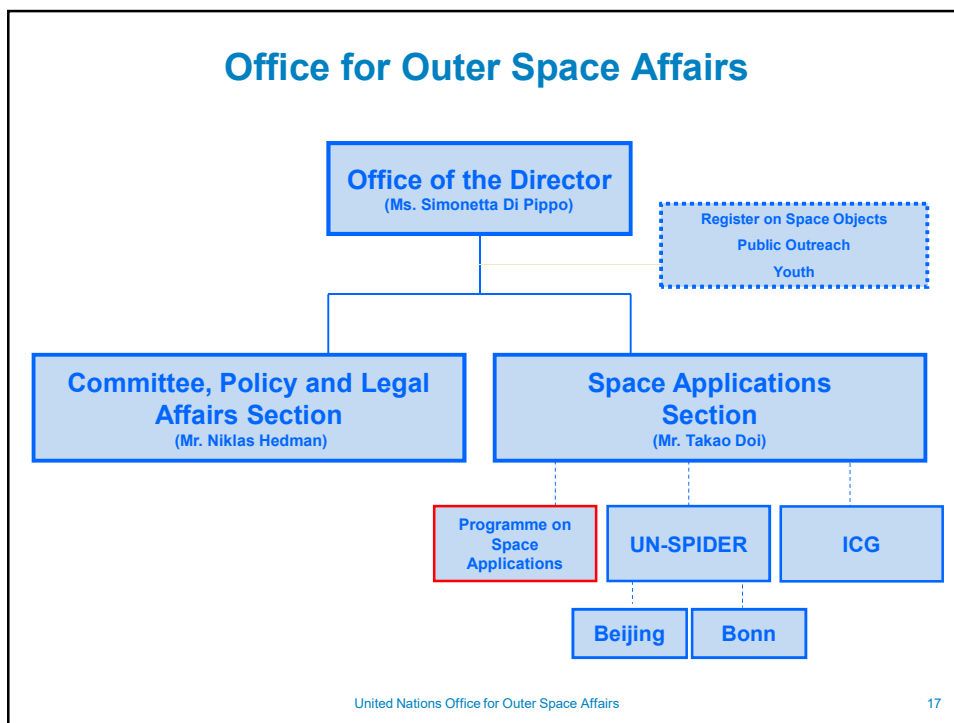
**Register of
Space Objects**



**Programme
on Space
Applications**

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United Nations Programme on Space Applications

- Established in response to recommendations of the first UNISPACE conference in 1968
- Creation of the position of the United Nations Expert on Space Applications to promote space applications
- Operational from 1971 and implemented by OOSA
- UNISPACE conferences held in 1982 and 1999 updated the mandate of the Programme

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Mandate of the Programme

<p>Promote International Cooperation</p>	<p>Support Capacity Building</p>
<p>Disseminate Information</p>	<p>Conduct Technical Advisory Services</p>

United Nations General Assembly Resolution 37/90 (§ 7), <http://www.unoosa.org/oosa/en/ourwork/psa/mandate.html>

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Implementation of the Programme

<p>Conferences and Workshops on thematic priorities:</p> <ul style="list-style-type: none"> • Biodiversity/Ecosystems • Climate Change • Disaster Management • Environmental Monitoring and Natural Resource Management • Global Health • Global Navigation Satellite Systems • Satellite Communications 	<p>Basic Space Science Initiative (BSSI)</p> <p>Basic Space Technology Initiative (BSTI)</p> <p>Human Space Technology Initiative (HSTI)</p>
<p>Support the Regional Centres for Space Science and Technology Education, affiliated to the United Nations</p>	<p>Administrate Long-Term Fellowship Programmes</p>

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Programme Activities 1971-2015



- 305 Expert Meetings/Seminars/Workshops/Conferences
- 75 countries, more than 21,000 participants
- Topics covered: COSPAS/SARSAT, Environmental Monitoring, Global Navigation Satellite Systems, Mountain Regions, Natural Resources Management, Socio-Economic Benefit, Space Law, Space Science and Technology, Tele-Health/Tele-Medicine

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III. Opportunities for Capacity Building



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Programme Activities 2016

Activity	Location, Date
UN/Costa Rica Workshop on Human Space Technology	San José, Costa Rica 7-11 March 2016
UN/India Workshop on the Use of Earth Observation Data in Disaster Management and Risk Reduction; Sharing the Asian Experience	Hyderabad, India 8-11 March 2016
UN/Kenya Workshop on Space Technology and Applications for Wildlife Management and Protecting Biodiversity	Nairobi, Kenya 27-30 June 2016
UN/Austria Symposium on Integrated Space Technology Applications for Sustainable Development in Mountain Regions	Graz, Austria 12-14 September 2016
UN/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits	Guadalajara, Mexico 23-25 September 2016
UN/Nepal Workshop on the Applications of Global Navigation Satellite Systems	Kathmandu, Nepal 5-9 December 2016
UN/Islamic Republic of Iran Workshop on the Use of Space Technology for Dust Storm and Drought Monitoring in the Middle East Region	Tehran, Iran 5-9 November 2016
UN/United Arab Emirates High Level Forum: Space as a Driver for Socio-Economic Sustainable Development	Dubai, United Arab Emirates 20-24 November 2016

See <http://www.unoosa.org/osa/en/ourwork/psa/schedule/schedule.html>

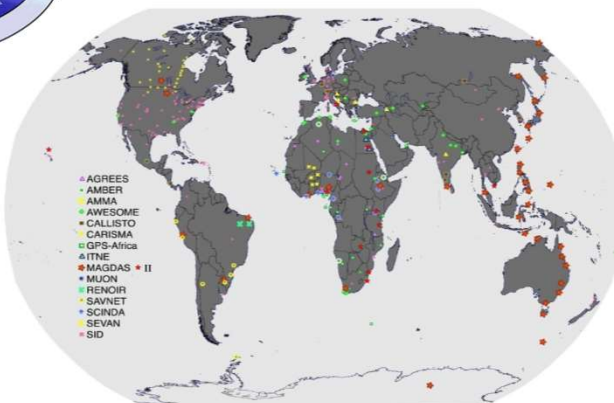
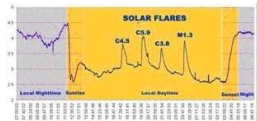
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Basic Space Science Initiative (BSSI)



- Int. Space Weather Initiative (2010-2012)
- Coordination of ISWI Instrument Networks
- Deployment and operation of 14 ground-based, world-wide instrument networks



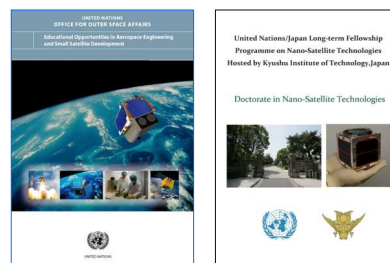
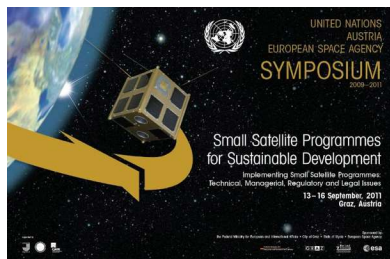
<http://www.unoosa.org/osa/en/ourwork/psa/bssi/index.html>

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Basic Space Technology Initiative (BSTI)

- **Objective:**
 - Support capacity building and international cooperation in basic space technology development, particularly in the field of small satellite development
- **Projects:**
 - Annual international space technology symposiums
 - Long-term fellowship programme
 - Space engineering education curriculum



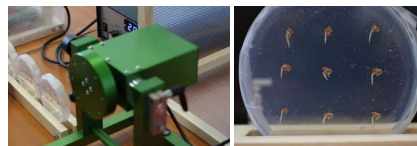
<http://www.unoosa.org/oosa/en/ourwork/psa/bsti/index.html>

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Human Space Technology Initiative (HSTI)

- **Objectives:**
 - Create awareness among Member States on the benefits of human space technology and its applications;
 - Promote international cooperation in human space flight and space exploration-related activities;
 - Support capacity-building in microgravity research and education
- **Projects:**
 - Zero-Gravity Instrument Project (ZGIP)
 - Drop Tower Experiment Series (DropTES)
 - KiboCube – Satellite Deployment from ISS



<http://www.unoosa.org/oosa/en/ourwork/psa/hsti/index.html>

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Kibo-CUBE Launch Opportunity



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COPUOS 2016 ▾

Our Work > Programme on Space Applications > HSTI > International Cooperation > KiboCUBE

The United Nations/Japan Cooperation Programme on CubeSat Deployment from the International Space Station (ISS) Japanese Experiment Module (Kibo) "KiboCUBE"

BACKGROUND

The United Nations Office for Outer Space Affairs (UNOOSA) and the Japan Aerospace Exploration Agency (JAXA) are pleased to announce the *United Nations/Japan Cooperation Programme on CubeSat Deployment from the International Space Station (ISS) Japanese Experiment Module (Kibo) "KiboCUBE"*.

KiboCUBE is the dedicated collaboration between UNOOSA and JAXA in utilizing the ISS Kibo for the world. KiboCUBE aims to provide educational or research institutions from developing countries of United Nations membership with opportunities to deploy, from the ISS Kibo, cube satellites (CubeSats) which they develop and manufacture.

- <http://www.unoosa.org/oosa/en/ourwork/psa/hsti/kibocube.html>
- **Call Deadline: 31 March 2016**



Deployment of a CubeSat from the ISS. Photo: NASA/JAXA

Our Work

- Secretariat of COPUOS
- Programme on Space Applications
 - PSA News
 - Expert on Space Applications
 - Fellowships
 - Schedule of Activities
 - BSSI
 - BSTI
 - HSTI
 - International Cooperation
 - KiboCUBE
 - Outreach
 - Capacity-Building
 - JSP
 - PROPTES
 - Thematic Priorities
 - Regional Centres
 - Publications
 - Reports

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Regional Centres, affiliated to the United Nations

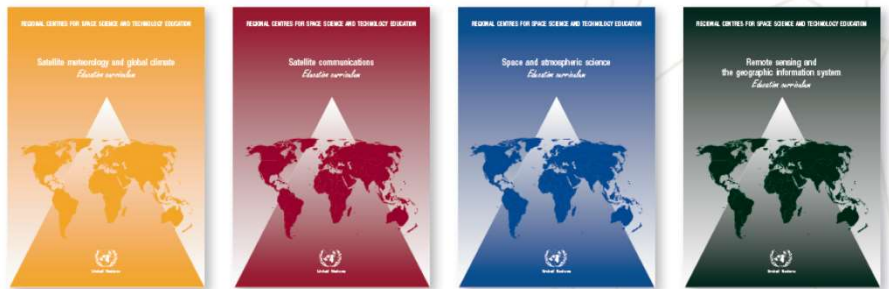







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United Nations Education Curricula



- Remote Sensing and Geographical Information Systems
- Satellite Communications
- Satellite Meteorology and Global Climate
- Space and Atmospheric Sciences as well as data management
- Global Navigation Satellite Systems
- Space Law
- Space Engineering (under development)

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International Committee on GNSS (ICG)

- Global Navigation Satellite Systems (GNSS) and their applications are overarching, enabling space technologies
- ICG Membership is open to GNSS providers or users of GNSS services
 - 9 nations and the European Community
 - 15 organizations (UN system entities, IGOs, NGOs)
- Regular ICG meetings
 - Adopted the ICG Work Plan and Terms of Reference
 - Established a Providers Forum
- <http://www.unoosa.org/oosa/en/ourwork/icg/icg.html>



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UN-SPIDER

- United Nations Platform for Space-based Information for Disaster Management and Emergency Response
- Ensure that all countries and regional and international organisations have access to and develop the capacity to use all types of space-based information to support the full disaster management cycle
- Building on existing capabilities
- <http://www.un-spider.org>

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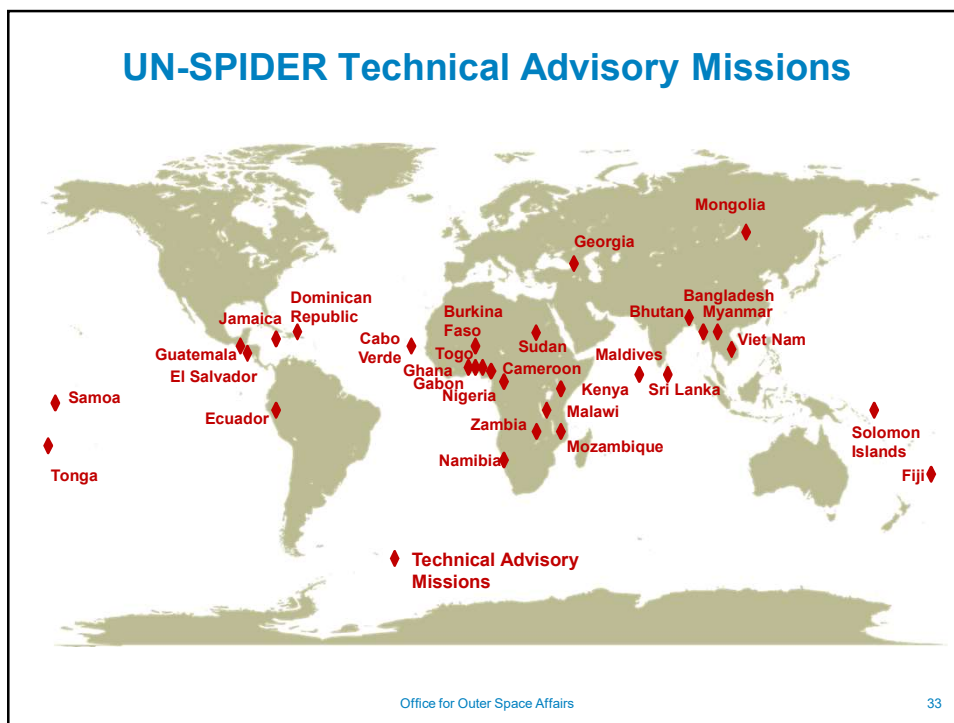
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UN-SPIDER Network of Regional Support Offices



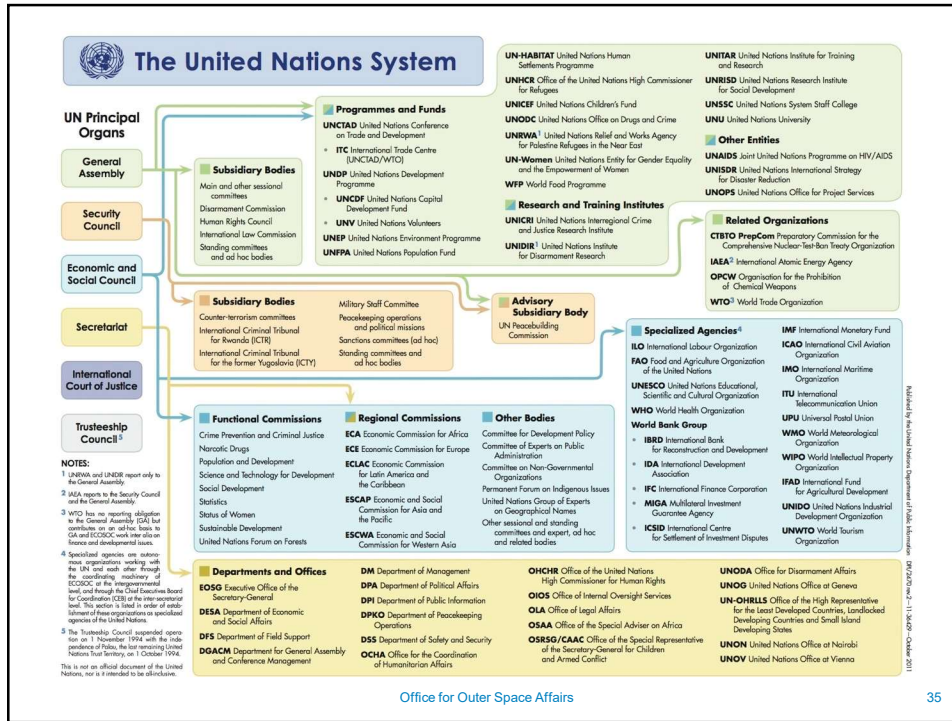
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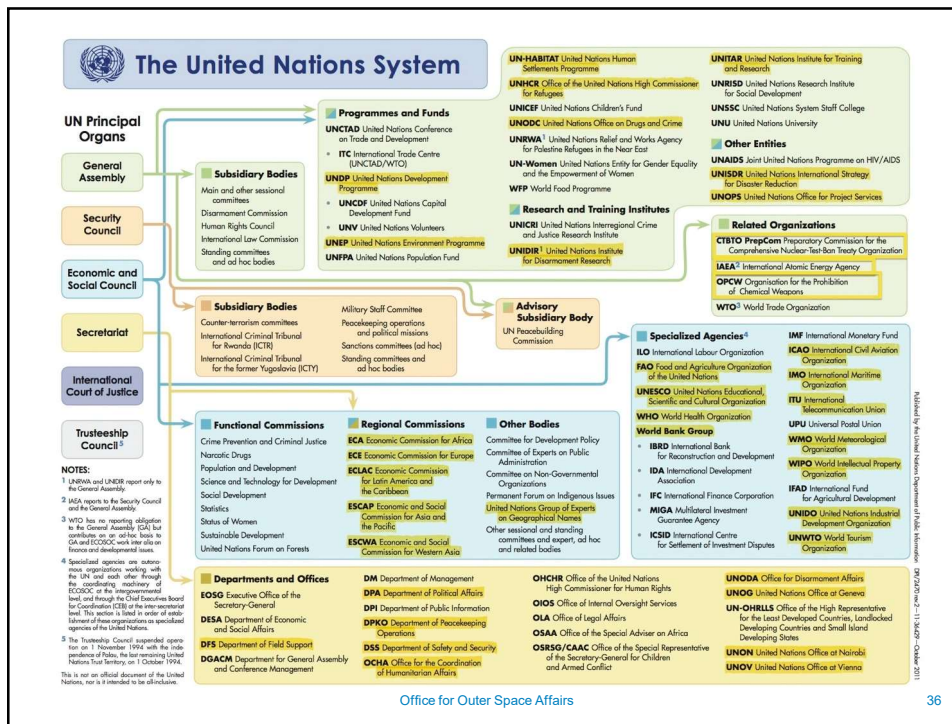


IV. Outer Space in the United Nations System: UN-Space

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Examples of Space Applications Use in the UN

United Nations Entity	Space-related Activities
Department of Peacekeeping Operations (DPKO)	Establishment of GIS units in major United Nations Peacekeeping Missions, base mapping
International Strategy for Disaster Reduction Secretariat (ISDR)	PreventionWeb (www.preventionweb.net), Hazard and vulnerability profiles
Office for the Coordination of Humanitarian Affairs (OCHA)	ReliefWeb (www.reliefweb.int), End-user support for disaster response (ICT kits)
United Nations Office on Drugs and Crime (UNODC)	Illicit Crop Monitoring Programme
Food and Agriculture Organization of the United Nations (FAO)	GeoNetwork, AsiaCover, AFRICOVER Land Cover Mapping and Global Land Cover Network (GLCN), Global Terrestrial Observing System (GTOS), Advanced Real Time Environmental Monitoring Information System (ARTEMIS)
International Civil Aviation Organization (ICAO)	World Area Forecast , Aircraft emergency locator systems in coordination with COSPAS-SARSAT, Global Navigation Satellite System (GNSS) for navigation, Frequency spectrum issues in coordination with ITU and IMO
International Maritime Organization (IMO)	Maritime navigation, Satellite communications
International Telecommunications Union (ITU)	Radio regulations governing the use of the radio-frequency spectrum and satellite orbits, Telecommunications and remote sensing for disaster management

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Examples of Space Applications Use in the UN

United Nations Entity	Space-related Activities
United Nations Educational, Scientific and Cultural Organization (UNESCO)	UNESCO Space Education Programme, World Climate Research Programme (Intergovernmental Oceanographic Commission of UNESCO)
World Health Organization (WHO)	Health Mapping Project
World Meteorological Organization (WMO)	WMO Space Programme and the space-based Global Observing System (GOS)
World Bank Group	Co-financing of space applications-based projects, Environmental monitoring, project assessments, GFDRR
Economic and Social Commission for Asia and the Pacific (ESCAP)	Regional Space Applications Programme (RESAP)
International Atomic Energy Agency (IAEA)	Safety of space nuclear power sources (NPS)
Office of the United Nations High Commissioner for Refugees (UNHCR)	Refugee Camp Mapping
World Food Programme (WFP)	Vulnerability Analysis and Mapping (VAM)
United Nations Institute for Training and Research (UNITAR)	Operational Satellite Applications Programme (UNOSAT)
CTBTO (Preparatory Commission)	Global Communications Infrastructure

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UN Coordination of Outer Space Activities



- Originated as a Sub-Committee on Outer Space Activities of the Administrative Committee on Co-ordination in 1974
- Annual Inter-Agency Meeting on Outer Space Activities (UN-Space)
- Participation of up to 26 UN entities
- Bi-annual Report of the UN Secretary General and other special reports
- See <http://www.unoosa.unvienna.org>

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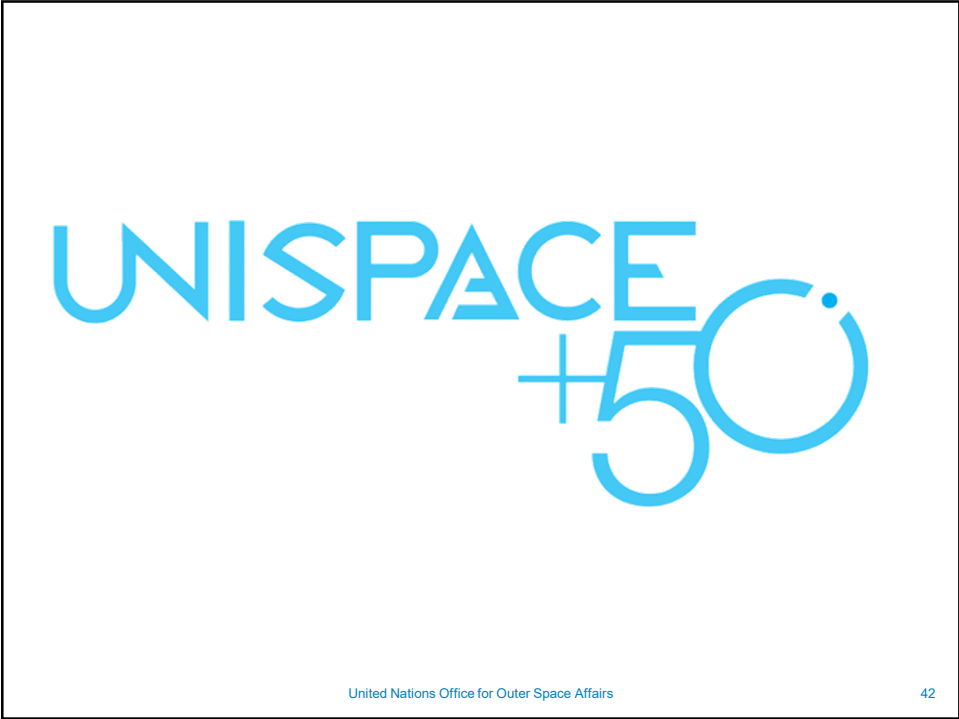
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Special Reports of UN-Space

Year	Document	Topic
2015	A/AC.105/1091	Space for global health Special report of the Inter-Agency Meeting on Outer Space Activities on the use of space science and technology within the United Nations system for global health
2013	A/AC.105/1042	Space for agriculture development and food security Special report of the Inter-Agency Meeting on Outer Space Activities on the use of space technology within the United Nations system for agriculture development and food security
2011	A/AC.105/991	Space and climate change Special report of the Inter-Agency Meeting on Outer Space Activities on the use of space technology within the United Nations system to address climate change issues
2009	A/AC.105/941	Space benefits for Africa: contribution of the United Nations
2005	A/AC.105/843	New and emerging technologies, applications and initiatives for space-related inter-agency cooperation

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Towards UNISPACE+50 in 2018

2018 marks the 50th anniversary of the first UN Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE), held in Vienna in 1968

Committee on the Peaceful Uses of Outer Space (COPOUS) decided in June 2015 to use this milestone anniversary to renew and strengthen its mandate as a **unique platform for interrelationship between major space faring nations and emerging space nations**, supported by the UN Office for Outer Space Affairs (**UNOOSA**)



@UN Photo

➤ **UNISPACE+50 will articulate a long-term vision for Space**

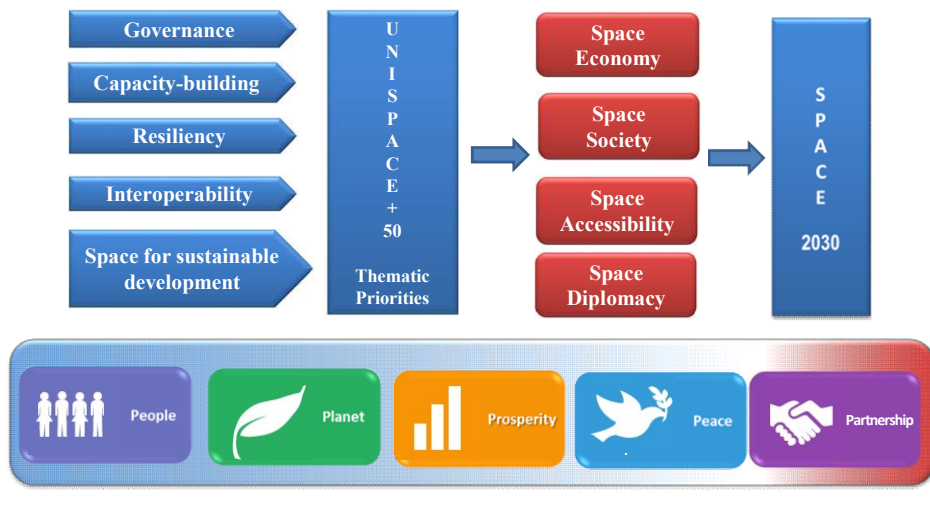
2018 UNISPACE+50 will:

- **Take stock of the contributions of the three UNISPACE conferences** (UNISPACE I, held in 1968, UNISPACE II, held in 1982 and UNISPACE III, held in 1999) to global space governance;
- Consider the development of **stronger space governance** and supporting structures at all levels, taking into account the 2030 Agenda for Sustainable Development and the new sustainable development goals;
- Consider **international mechanisms & frameworks**, which are reflective of an evolving and more complex space agenda that includes the **broader concept of space security**, the **expanding commercial space sector** and the **long-term sustainability of outer space activities**;
- Consider **mechanisms and processes for resiliency and interoperability**, such as in the field of **disaster risk reduction**, taking into account the Sendai Framework for Disaster Risk Reduction 2015-2030, and other coordination efforts, such as relating to the **near-Earth object impact threat** and **space weather**;
- Consider **mechanisms and platforms for space cooperation and coordination** at the international, regional, interregional and national levels towards stronger space governance and global partnerships.

As a blueprint towards Space 2030, UNISPACE+50 aims to:

- Define its outputs, taking into account **the evolving and complex Space agenda. Broader concept of space security. Expanding commercial space sector. Space exploration.**
- **Engage all key stakeholders in the space arena**, including governmental and non-governmental actors, commercial sector, civil society, young generation and public at large
- Build synergies with the outcomes **of the key UN Summits in 2015, the 2030 Agenda for Sustainable Development, the Sendai Framework for Disaster Risk Reduction 2015-2030 and the outcomes of the 2015 Paris Climate Summit (COP21)**

UNISPACE+50 Process



UNISPACE+50 Process

- 2016: COPUOS and its Subcommittees (Scientific and Technical, and Legal) will define UNISPACE+50 **thematic priorities** based on the following **cross-cutting areas**, where **COPOUS** has made its major contributions:
 - **Space governance** (UN treaties and principles on outer space, COPUOS guidelines GA resolutions on outer space)
 - **Capacity-building** (in the use of space science and technology and their applications for the benefit of all countries)
 - **Resiliency** (disaster risk reduction, near-Earth objects, space weather)
 - **Interoperability** (including work done by the International Committee on Global Navigation Satellite Systems (ICG) and other current and new coordination mechanisms, such as IAWN, SMPAG)
 - **Space for sustainable development** (efforts by the Committee and its member States as well as UNOOSA to meet the 2030 Agenda for Sustainable Development)

UNOOSA works towards UNISPACE+50 deliverables under 4 pillars:

SPACE ECONOMY / SPACE SOCIETY / SPACE ACCESSIBILITY / SPACE DIPLOMACY

- These pillars will guide our preparations towards **UNISPACE +50** and beyond
 - A series of **High-level Fora “Space as a Driver for Socioeconomic Sustainable Development”** will address deliverables under these 4 pillars
- **States and space community** at large are invited to actively engage in this process

KEY DATES

- 2016: **20 – 24 November 2016**: 1st High Level Forum “Space as a driver for socioeconomic sustainable development”, Dubai, United Arab Emirates
- 2017: 2nd HLF
- 2018: 3rd HLF

2018: UNISPACE+50: 18-29 June 2018
High-level events (18-19 June) and opening 20 June

www.unoosa.org

UNISPACE Conferences

- **UNISPACE I (1968)**
 - Establishment of the United Nations Programme on Space Applications
- **UNISPACE II (1982)**
 - Expansion of the mandate of the UN Programme on Space Applications
 - Establishment of the Regional Centres for Space Science and Technology Education, affiliated to the United Nations
- **UNISPACE III (1999)**
 - Establishment of the United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)
 - Establishment of the International Committee on Global Navigation Satellite Systems (ICG)
 - International Charter Space and Major Disasters
 - Establishment of the Space Generation Advisory Council (SGAC)

UNISPACE+50

- In 2015 the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS), adopted the **UNISPACE+50 initiative**
- UNISPACE+50 will be held in 2018 and seeks to **develop stronger space governance and supporting structures at all levels**, building on the **2030 Agenda for Sustainable Development**
- UNISPACE+50 will consider ways and means for **strengthening the role of UNOOSA and COPUOS** within the United Nations system and the global space community
- It prioritises improved governance, capacity-building, resilience, interoperability of systems and space for sustainable development.

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Path Towards UNISPACE+50

- UNISPACE+50 to be prepared through a series of High Level Fora on the theme “Space as a Driver for Socio-Economic Sustainable Development” to be held 2016-2018
- Four Pillars will guide the preparation of UNISPACE+50:
 1. Space Economy
 2. Space Society
 3. Space Accessibility
 4. Space Diplomacy
- Thematic Priorities for UNISPACE+50 have been identified
- “Fiftieth anniversary of the United Nations Conference on the Exploration and Peaceful Uses of Outer Space: the Committee on the Peaceful Uses of Outer Space and global space governance” (A/AC.105/C.1/2016/CRP.4)
- See <http://www.unoosa.org/osa/en/ourwork/unispaceplus50/index.html>

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Thank you for your attention!



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