



UNITED NATIONS  
Office for Outer Space Affairs

# 8th Annual UN-SPIDER Regional Support Offices Coordination Meeting

6-8 June 2017

United Nations Office for Outer Space Affairs  
United Nations Office at Vienna  
[www.unoosa.org](http://www.unoosa.org)



## Vision

***Bringing the benefits of space to humankind***

## Mission Statement

The core business of the Office is to promote

International Cooperation

in the use of outer space to achieve development goals  
for the benefit of humankind



# UNOOSA

BEIJING

BONN

VIENNA

## DIRECTOR

Ms. Simonetta  
Di Pippo

## OFFICE OF THE DIRECTOR

Ms. Natercia Rodrigues

## COMMITTEE, POLICY AND LEGAL AFFAIRS SECTION

Mr. Niklas Hedman

## SPACE APPLICATIONS SECTION

Mr. Luc St.-Pierre

PROGRAMME ON  
SPACE APPLICATIONS

UN-SPIDER

INTERNATIONAL  
COMMITTEE ON  
GLOBAL NAVIGATION  
SATELLITE SYSTEMS



# UNOOSA Partnerships

Inter alia:

- With JAXA on “Kibo Cube” project providing opportunities for small satellite deployment from ISS, targeting academic institutions in developing countries
- With CMSA on providing opportunities for developing countries to carry out research on board the forthcoming Chinese space station
- With the Centre of Applied Space Technology and Microgravity, ZARM, to provide developing countries with opportunities to conduct microgravity experiments at the Drop Tower Bremen in Germany
- With Digital Globe on providing remote sensing images for sharing with other UN system entities
- With Sierra Nevada Corporation on providing opportunities for developing countries to participate in and benefit from missions on board the Dream Chaser orbital spacecraft



# Transforming our world: 2030 Agenda For Sustainable Development





## Current issues - Space agenda today:



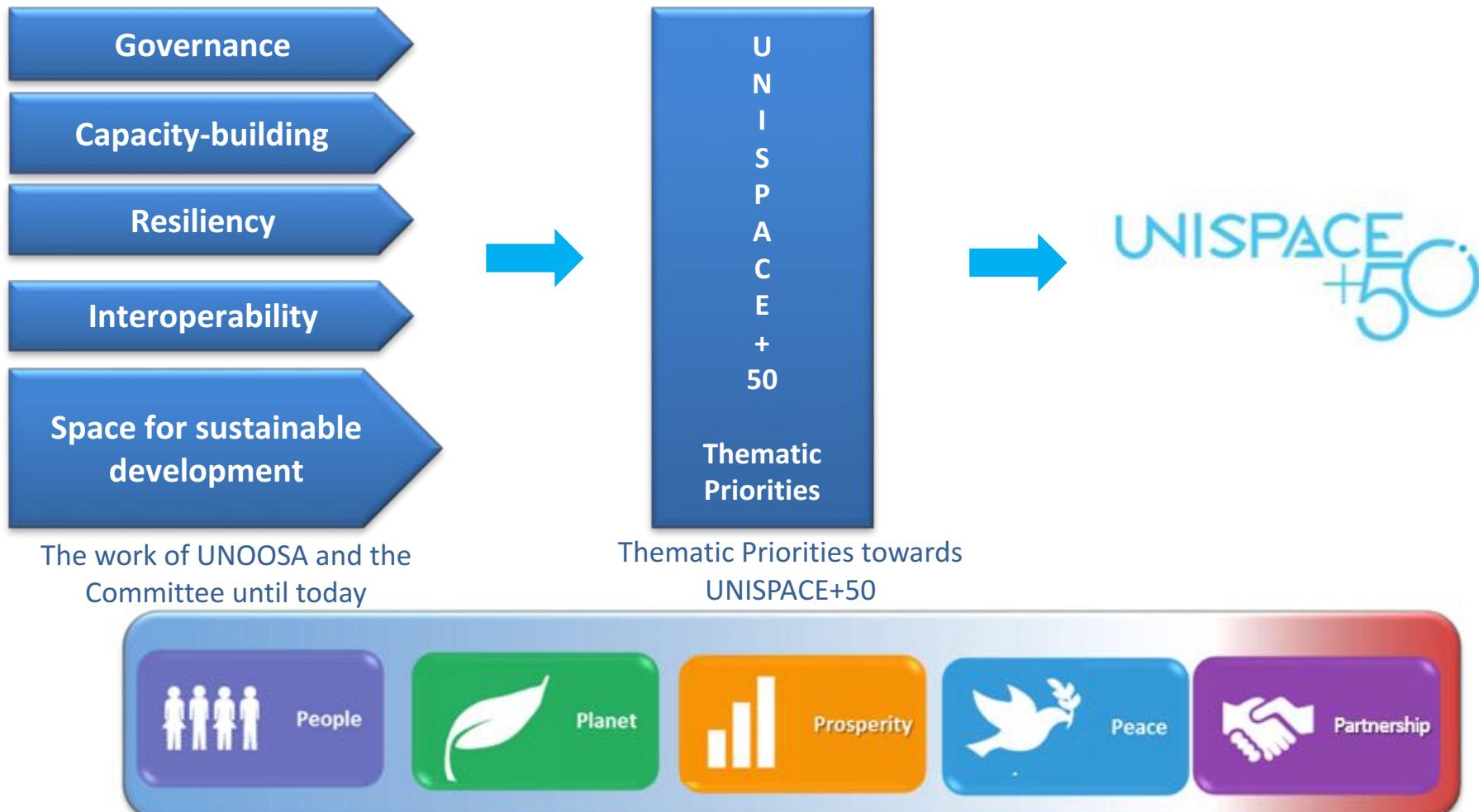


UNITED NATIONS  
Office for Outer Space Affairs

UNISPACE  
+50



# UNISPACE+50: The Process and beyond





# UNISPACE+50: The Process and beyond

UNISPACE  
+50

Space Economy

Space Society

Space Accessibility

Space Diplomacy



S  
P  
A  
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E  
  
2030

4 Pillars to guide our  
discussions towards the  
future of space



# UNISPACE+50 Thematic Priorities

with mechanisms agreed by COPUOS in 2016:

1	Global partnership in space exploration and innovation	Action Team with MS
2	Legal regime of outer space and global space governance: current and future perspectives	LSC WG on Treaties in coordination with WG on LTS
3	Enhanced information exchange on space objects and events	WG TBD at STSC 2017
4	International framework for space weather services	STSC EG on Space Weather
5	Strengthened space cooperation for global health	STSC EG on Space and Global Health
6	International cooperation towards low-emission and resilient societies	UNOOSA
7	Capacity-building for the 21st Century	UNOOSA



# Four Pillars

**Space Economy**

1. Development of space-derived economic benefits.

**Space Society**

2. Evolution of society and societal benefits stemming from space-related activities.

**Space Accessibility**

3. All communities using and benefitting from space technologies.

**Space Diplomacy**

4. Building partnerships and strengthening international cooperation in space activities.



# Space Accessibility

## Space Accessibility

“Space accessibility”, including its subset “data accessibility”, refers to all user communities and decision-makers being able, on an equal basis, to benefit from and use space technologies and space-based data.

- Enhanced access to space and its assets for scientific and commercial endeavours
- More open and free access to space-based data and information
- Capacity-building and consequent improvement in developing countries using space science and technology, their applications and services
- Tools and platforms to facilitate access to space and exchange of data and information
- More attention by governments to regulatory and legislative actions
- Human access to space on a global scale and open to everyone.



## Towards UNISPACE+50: **A series of High-level Forums (HLF2017)**

- 2<sup>nd</sup> High Level Forum: **Space as a driver for socio-economic sustainable development**
- Dates: **6-9 November 2017**
- Venue: **Dubai, UAE**
- **Platform** for dialogue under the Forum's 4 pillars of **space economy, space society, space accessibility and space diplomacy** among representatives of governments, international organizations, industry, the private sector, academia and civil society



**RECOMMENDATIONS for UNISPACE+50**



## TP 6: Objectives

- a. Define **synergies** between climate change mitigation efforts, disaster risk reduction and global development and reducing emissions by replacing carbon energy with renewable energy.
- b. Develop a **road map** for enhanced resiliency of space-based systems and the affiliation of existing and future Earth observation, global navigation satellite system and telecommunication constellations for disaster risk reduction and climate change monitoring and mitigation.
- c. Improve **integrated space applications** approaches and the **interoperability** of space-based systems and ground/in situ systems.
- d. Provide **requirements to new developers** for coverage in geographical areas not sufficiently monitored or applications that need further development.
- e. Identify **governance and cooperation mechanisms** to support this objective.

**UNOOSA is the mechanism to develop and propose a roadmap for TP6**



## UN-SPIDER+10 and TP6

- Making UN-SPIDER outcomes and impacts more visible by consolidating the network of RSOs and consider new partnerships;
- GP-STAR;
- Knowledge Portal more service oriented and emphasis may be given on online services;
- Incorporate the use of space-based information in protocols and workflows used by national institutions;
- Continue capacity building efforts worldwide by establishing a network of training institutions, efforts to train the trainers, providing elaborate guidelines for trainers, raise awareness amongst private enterprises including insurance sector;
- Continue on-going efforts on early warning with efforts targeting adaptation; and
- Consider regional and trans-boundary approaches.



## TP 6: Events

- Meeting with COSPAR, 21-22
- UN/Germany International Conference on International cooperation towards low-emission and resilient societies, to be held in Bonn (Germany), 22 to 24 November 2017
- UN/China International Conference on Space-based Technologies for Disaster Risk Reduction: the role of space technology in supporting indicators to monitor global targets of Sendai Framework, 23-25 October 2017
- UNOOSA will be involved in COP23, hosted at the headquarters of the UNFCCC



## TP 7: Objectives

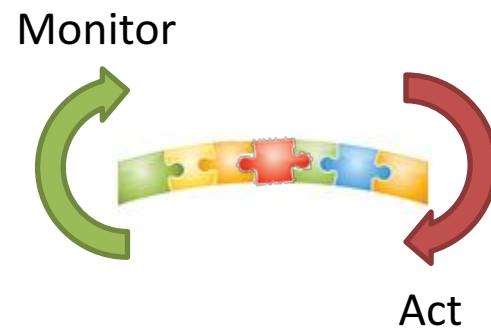
- a. Define **new innovative and effective approaches** to overall capacity-building and development needs as a fundamental pillar of global space governance.
- b. **Strengthen** comprehensive **capacity-building and outreach** activities of the Office for Outer Space Affairs.
- c. **Develop infrastructure** for cross-sectoral and integrated applications, with combined scientific, technical, legal and policy outputs.
- d. **Enhance existing partnerships and forge new ones** to strengthen and deliver targeted capacity-building and technical advisory activities based on needs assessments.
- e. **Promote efforts** to encourage science, technology, engineering and mathematics **education**, especially for women in developing countries.

**UNOOSA is the mechanism to develop and propose a roadmap for TP7**



# SDP/SSC and TP7

**Space for Development Profile**  
Identifying Space Capabilities in a Country



## RESULTS



**Space Solutions Compendium**  
Giving Solution to Needs



SOLUTIONS

*Understanding needs is half the job of meeting them*



## TP 7: Events

- Meeting with COSPAR already held (21-22 May in UNOV premises)
- UN/Austria Symposium on Access to Space: Holistic capacity-building for the 21 century, in Graz (Austria) from 3 to 7 September 2017
- UN/Russian Federation Workshop on Human Capacity-Building in Space Science and Technology for Sustainable Social and Economic Development, in Samara (Russia) from 30 October to 2 November 2017
- UN/South Africa Symposium on BSTI "Small Satellite Missions for Scientific and Technological Advancement", 11-14 December 2017
- UN Expert Meeting on Space for Women, in New York (USA) from 4 to 6 November 2017



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# THANK YOU

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United Nations Office at Vienna

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