



UNITED NATIONS
Office for Outer Space Affairs

23-25 October 2017
7th UN-SPIDER Conference, Beijing

Building Resilience through Integrated Applications - Contribution from Space

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United Nations Office for Outer Space Affairs
United Nations Office at Vienna
www.unoosa.org



Vision

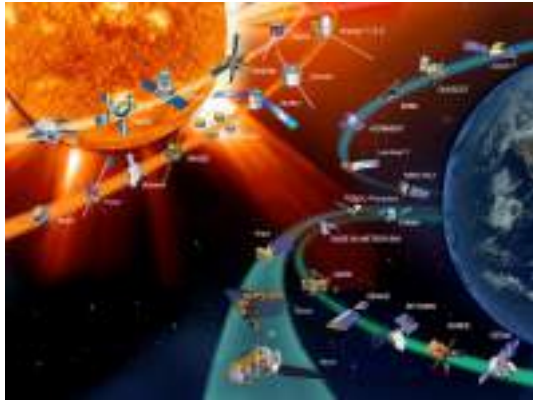
Bringing the benefits of space to humankind

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



Space technology supports our common goals to address **global challenges of the 2030 Agenda for Sustainable Development.**





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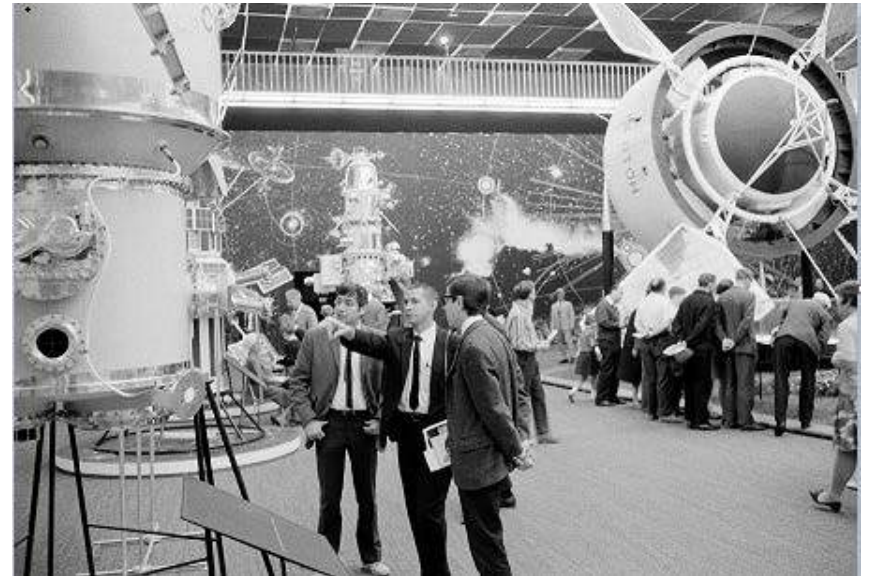
UNISPACE
+50



UNISPACE+50

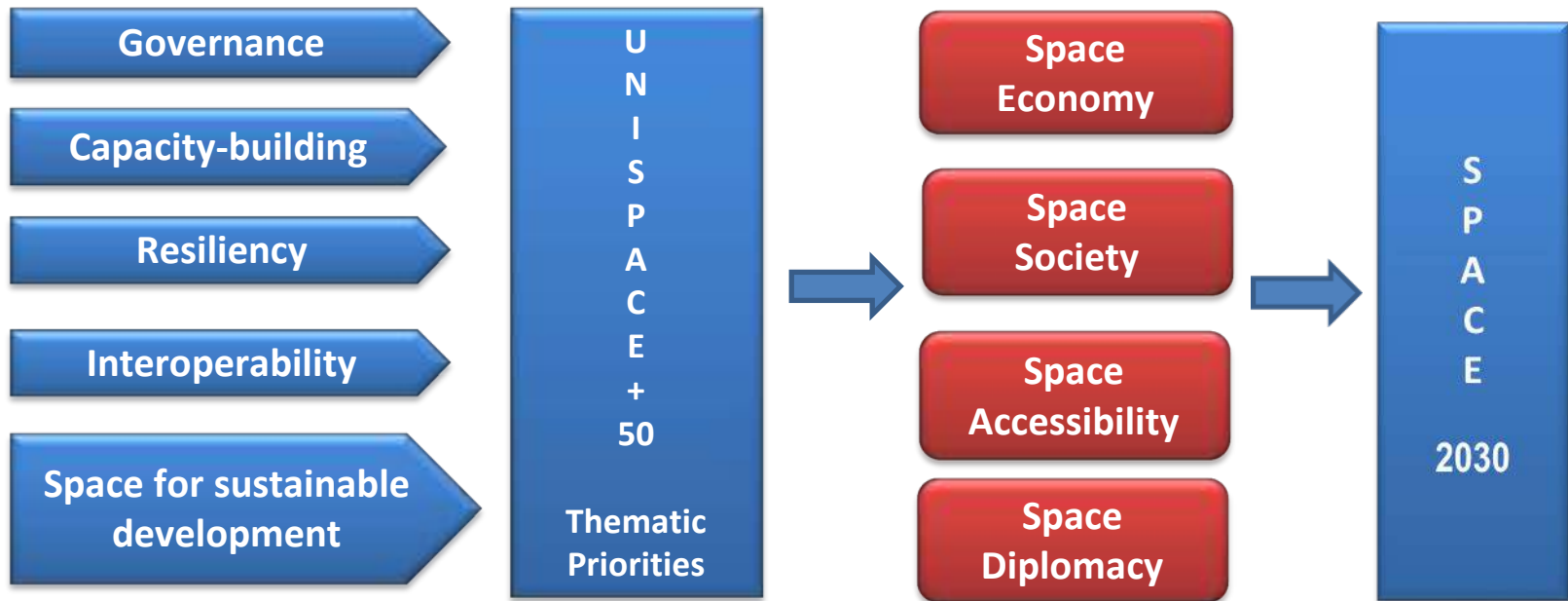
In June 2018 the international community will mark the 50th anniversary of the first UN Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE) and articulate a long-term vision for space.

In the lead-up to 2018, UNOOSA aims to drive debate on the role of space science and technology in fostering global development.





UNISPACE+50 Process





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



UNISPACE+50: The Process and beyond



Space Economy

Space Society

Space Accessibility

Space Diplomacy



S
P
A
C
E

2030

4 Pillars to guide discussions
towards the future of space



Sendai Framework for Disaster Risk Reduction

Climate Change Agreement (COP21)

Sustainable Development Goals

The UN-SPIDER Programme

- UN-SPIDER Team
- Network of Regional Support Offices (RSOs) (21)



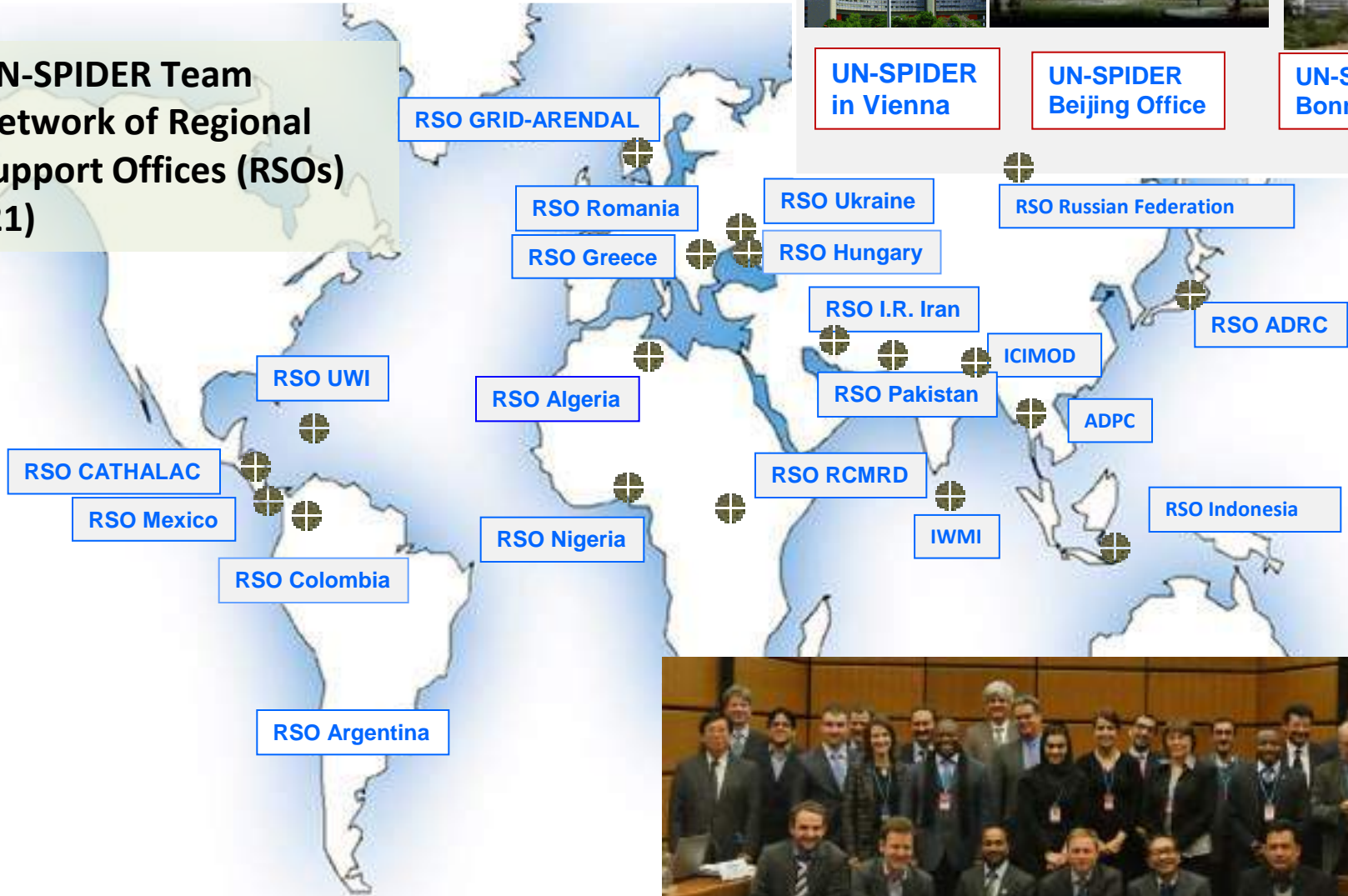
UN-SPIDER in Vienna



UN-SPIDER Beijing Office



UN-SPIDER Bonn Office



Network of Regional Support Offices





Technical Advisory Support

- Over **55 countries** supported
- 34 national Technical Advisory Missions
- **Over 350 recommendations**





Capacity building and institutional strengthening efforts

Tasks conducted



Curriculum on Remote Sensing for Emergency Response



Database of training opportunities and training material



SOPs and Recommended Practices developed for institutional strengthening



Training courses conducted in Asia, Africa, Latin America and the Caribbean



Institutional Strengthening Missions conducted to many countries



UN-SPIDER Outreach & Awareness Raising efforts

Awareness
Raising Efforts



Newsletters, Monthly
Updates and other
publications



Social media



Participation in events
organised by partners



UN-SPIDER Knowledge
Portal



International Conferences,
Regional Expert Meetings



UN-SPIDER - contribution to Sendai Framework since 2015

- UN-SPIDER organised **Working Session on Earth Observation and High Technology to Reduce Risks at 3rd World Conference in Disaster Risk Reduction in Sendai**
- Launched **Global Partnership on Space Technology Applications for Disaster Risk Reduction (GP-STAR)**
- **Technical advisory missions and follow up activities** addressing implementation of **Sendai Framework**
- **Conferences and regional workshop** addressed specific topics of Sendai Framework
- Contribution in **ISDR's regional and global events**



UN-SPIDER - Contribution to UNISPACE+50

(Sendai Framework, COP21 Climate Change Agreement and SDGs)

- Strong linkage to **thematic priorities 4, 5, 6 and 7** of UNISPACE+50
- Specific contribution to **thematic priority 6**: International cooperation towards low-emission and resilient societies
- SPIDER+10 Conference and its recommendations
- **Conference in Beijing – Building resilience through integrated applications, 23-25 October 2017, Beijing, China**
- Thematic priority 6 Flagship event in Bonn: **United Nations/Germany International Conference on International Cooperation Towards Low-Emission and Resilient Societies, 22-24 November 2017, Bonn, Germany**
- **UN-SPIDER 2030 Strategy aligning to Space2030**



UNISPACE+50: The Process and beyond





Goal 1. End poverty in all its forms everywhere

- 1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters
- 1.5.1 Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population
- 1.5.2 Direct economic loss attributed to disasters in relation to global gross domestic product (GDP)
- 1.5.3 Number of countries that adopt and implement national disaster risk reduction strategies in line with the **Sendai Framework for Disaster Risk Reduction 2015-2030**
- 1.5.4 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national disaster risk reduction strategies



UN-SPIDER 2030



Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

- 11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations
- 11.5.1 Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population
- 11.5.2 Direct economic loss in relation to global GDP, damage to critical infrastructure and number of disruptions to basic services, attributed to disasters
- 11.b By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels
- 11.b.1 Number of countries that adopt and implement national disaster risk reduction strategies in line with the **Sendai Framework for Disaster Risk Reduction 2015-2030**
- 11.b.2 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national disaster risk reduction strategies



UN-SPIDER 2030



Goal 13. Take urgent action to combat climate change and its impacts

- 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries 13.1.1 Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population
- 13.1.2 Number of countries that adopt and implement **national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030**
- 13.1.3 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national disaster risk reduction strategies



UN-SPIDER 2030



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United Nations International Conference on Space-
based Technologies for Disaster Risk Reduction -
"Building Resilience through Integrated Applications"



Policy and institutional arrangements

Disaster management strategy/law
Geospatial policy
National Spatial Data Infrastructure

Multiple stakeholders
Data providers

National level
Regional level
International level



Policy and institutional arrangements

Space data

In-situ data

Hazard
Exposure
Vulnerability

Multiple data source (in-situ, space, aerial etc.)
Data scattered at difference locations

Integration of technologies
Methods/tools

Decision making
Local
National
Regional



Policy and institutional arrangements

Space data

In-situ data

Risk assessment

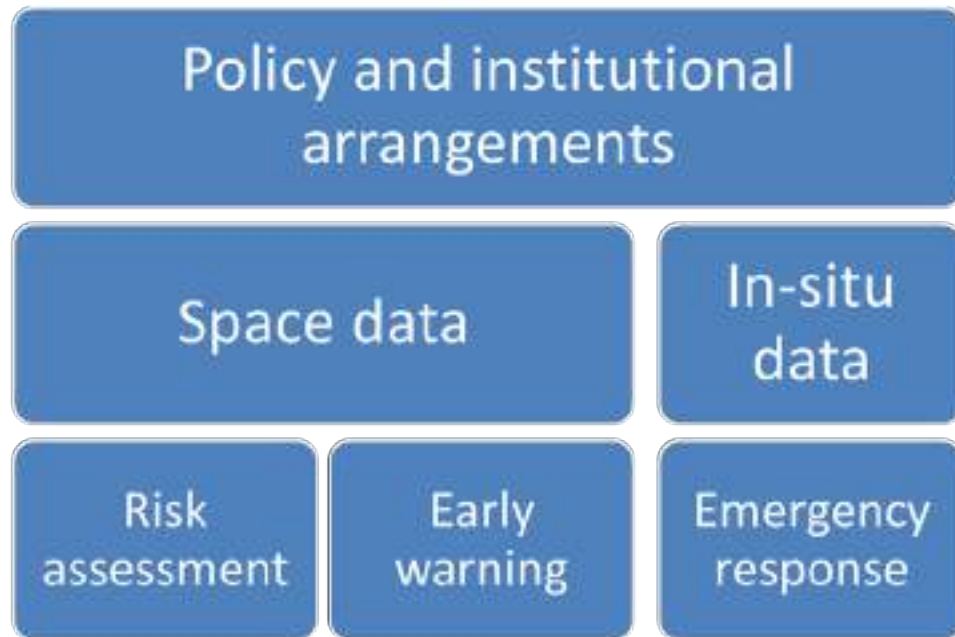
Early warning

Emergency response



United Nations International Conference on Space-based Technologies for Disaster Risk Reduction

"Building Resilience
through Integrated
Applications"





Conference overview

Overview

	23 October 2017	24 October 2017	25 October 2017
Morning	08:30 Registration 09:00-09:30 Opening session 9:30-10:00 Group photo 10:00-11:00 Key note speeches China , UNOOSA 11:00-12:30 Session 1 Plenary	09:00-10:30 Session 2 Plenary continues 11:00-12:30 Session 2 breakout (Parallel sessions 2.1 and 2.2)	09:00-10:30 Session 4 Plenary 11:00-11:30 Session 5 Plenary 11:30-12:30 Concluding session
Lunch	12:30-14:00 Fusion Court Cafe, 1st floor	12:30-14:00 Fusion Court Cafe, 1st floor	12:30-14:00 Fusion Court Cafe, 1st floor
Afternoon	14:00-15:30 Session 1 breakout (Parallel sessions 1.1 and 1.2) 16:00-17:30 Session 2 Plenary	14:00-15:30 Session 3 Plenary 16:00-17:30 Session 3 Breakout (Parallel sessions 3.1 and 3.2)	Institutional visit
Evening	Reception by Ministry of Civil Affairs of People's Republic of China		Training participants move to <u>Beihang</u> University campus



VIENNA



Luc St-Pierre



Shirish Ravan



Lorant Czarán



Ahmed Osman



Stefan Kienberger

BONN



Juan Carlos Villagran

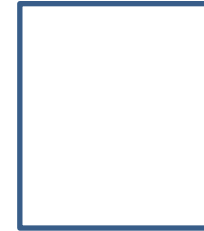


Radu Botez



Joachim Post

BEIJING



Head of the
Office
(recruitment
ongoing)



Tang Tong



Jiayi Sun



Emma Yuan Gao



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THANK YOU

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United Nations Office at Vienna

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