Space safety, security, sustainability at the global level

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27 November 2018
Ifri Conference, Brussels
92 States members of COPUOS

(1 Jan 2019)

Algeria, Benin, Burkina Faso, Cameroon, Chad, Egypt, Ethiopia, Ghana, Kenya, Libya, Mauritius, Morocco, Niger, Nigeria, Senegal, Sierra Leone, South Africa, Sudan, Tunisia

Bahrain, China, India, Indonesia, Iran, Iraq, Japan, Jordan, Kazakhstan, Lebanon, Malaysia, Mongolia, Oman, Pakistan, Philippines, Qatar, Republic of Korea, Saudi Arabia, Sri Lanka, Syrian Arab Republic, Thailand, United Arab Emirates, Viet Nam

Albania, Armenia, Azerbaijan, Belarus, Bulgaria, Czech Republic, Hungary, Poland, Romania, Russian Federation, Slovakia, Ukraine

Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Mexico, Nicaragua, Paraguay, Peru, Uruguay, Venezuela

Australia, Austria, Belgium, Canada, Cyprus, Denmark, Finland, France, Germany, Greece, Israel, Italy, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States
Current issues - COPUOS agenda:

- Space and climate change
- Space Debris
- Disaster Management
- Space and Water
- Space Law
- Long-term sustainability of outer space activities
- Space2030
- Space Policy
- Space and Global Health
- Near-Earth objects
- Global Navigation Satellite Systems
- Space Weather
- Space Security and TCBMs
Governance - developments and trends

- Space and environment/sustainable development (1999-)
- Space debris mitigation guidelines (adopted 2007)
- Registration practice resolution (adopted 2007)/national space legislation resolution (adopted 2013)
- Long-term sustainability of outer space activities (WG 2009-2018)
- TCBMs and the broader perspective of space security (2013-)
- Small satellites and space traffic management (2016-)
- Exploitation and utilization of space resources (2017-)
- Space debris remediation (2017-)
Long-term sustainability of outer space activities

• **Core thematic areas:**
  • Sustainable space utilization supporting sustainable development on Earth
  • Space debris mitigation, safety of space operations, tools to support space situational awareness
  • Space weather
  • Regulatory regimes and guidance for actors in the space arena

• Interlink with the report of the Group of Governmental Experts on Transparency and Confidence-building Measures in Outer Space Activities (A/68/189). Risk reduction notifications, inter alia, on manoeuvres that may result in risk to flight safety of other space objects; uncontrolled high-risk re-entry events; emergency situations; intentional orbital break-ups; hazards (natural)
UNOOSA & TCBMS - discharging the Secretary-General’s treaty obligations

• Maintaining the Register of Objects Launched into Outer Space (Convention on Registration of Objects Launched into Outer Space art. III)

• Disseminating information relating to outer space activities (including discovery of harmful phenomena) provided by States (Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies art. V and art. XI)

• Disseminating information relating to the recovery of “foreign” astronauts in distress and/or space objects by States within their territory and their return (Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space art. II b)

• Disseminating information relating to lunar exploration and habitation (Agreement Governing the Activities of States on the Moon and Other Celestial Bodies art. IX)
UNISPACE+50 cross-cutting areas

UNISPACE+50 thematic priorities based on the following cross-cutting areas, where COPOUS has made its major contributions (A/AC.105/1137):

- **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)
UNISPACE+50 thematic priorities

7 thematic priorities with mechanisms agreed by COPUOS:

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 – Mechanism TBD
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 process towards “Space2030”

Thematic Priorities
- Governance
- Capacity-building
- Resiliency
- Interoperability
- Space for sustainable development

UNISPACE+50

Space Economy
Space Society
Space Accessibility
Space Diplomacy

SPACE 2030

People
Planet
Prosperity
Peace
Partnership
Disaster risk reduction - Mitigation and adaptation to climate change - Linkages to sustainable development and resiliency of space based systems

• Focus: building resilient societies and aligning efforts of the Office to contribute to the Sendai Framework through UN-SPIDER programme as well as to the adaptation efforts of the Paris agreement on climate change and towards the attainment of the SDGs

• The strategy, in a form of a report under this TP will be available for the 2018 cycle of the sessions of the Committee and its Subcommittees.

• Another flagship event: UN/Germany International Conference on International cooperation towards low-emission and resilient societies, to be held in Bonn, Germany, from 22 to 24 November 2017.

TP6: International cooperation towards low-emission and resilient societies