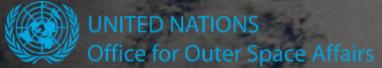
Office for Outer Space Affairs





Committee on the Peaceful Uses of Outer Space



The permanent Committee on the Peaceful Uses of Outer Space was established by the UN General Assembly in 1959 and focuses on international cooperation in the peaceful uses of outer space

- **Two subcommittees**: Scientific and Technical and Legal
- Reports to the United Nations General Assembly (a principal organ of the UN) via the GA's Special Political and Decolonization Committee (Fourth Committee)
- Meets 3 times w/ Secretariat services provided by the Office for Outer Space Affairs
- Decisions taken by consensus, giving equal negotiating power to all member States
- Discussions on the most pressing issues in the space sector



THE INTERNATIONAL COMMUNITY RECOGNIZES THE NEED TO ENSURE SPACE SUSTAINABILITY IN THE LONG TERM

Space is being used by an increasing number of States, international intergovernmental organizations and non-governmental entities.

Space debris, the increasing complexity of space operations, the emergence of large constellations and increased risk of collisions and interference with space objects may affect the long-term sustainability of outer space activities.

This has been, and continues to be, a top area of focus for the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS).

The Earth's orbital environment constitutes a finite resource

#LTSGUIDELINES #SPACESUSTAINABILITY



IN 2019 INTERNATIONAL AGREEMENT WAS REACHED ON GUIDANCE FOR THE LONG-TERM SUSTAINABILITY OF OUTER SPACE ACTIVITIES

The United Nations Committee on the Peaceful Uses of Outer Space (COPUOS) adopted, by consensus, a preamble and 21 Guidelines, demonstrating how States collaborate multilaterally to prioritize space sustainability.

The Guidelines for the Long-term Sustainability of Outer Space comprise a compendium of internationally recognized measures for, and commitments to, ensuring the long-term sustainability of outer space activities.

The preamble of the Guidelines defines the long-term sustainability of outer space activities, explains their voluntary and non-legally binding status, and shares how the guidance they provide is to be reviewed and updated.

The Guidelines
are relevant to both
governmental and
non-governmental entities.

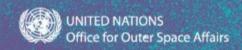
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THE GUIDELINES PROVIDE DETAILED GUIDANCE **ACROSS FOUR SECTIONS**: **A)** POLICY AND REGULATORY FRAMEWORK FOR SPACE ACTIVITIES; **B)** SAFETY OF

SPACE OPERATIONS; **C)** INTERNATIONAL COOPERATION, CAPACITY-BUILDING AND AWARENESS; AND **D)** SCIENTIFIC AND TECHNICAL RESEARCH AND DEVELOPMENT.

Committee on the Peaceful Uses of Outer Space

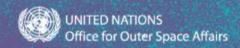


Current Working Group on the Long-term Sustainability of Outer SpaceActivities

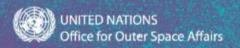
- ☐ Chair, Umamaheswaran R. (India)
- ☐ Guiding framework/TOR:
 - Identifying and studying challenges and considering possible new guidelines for the long-term sustainability of outer space activities;
 - > Sharing experiences, practices and lessons learned from voluntary national implementation of the adopted guidelines;
 - > Raising awareness and building capacity, in particular among emerging space nations and developing countries.
- □ A/AC.105/C.1/L.409 document series.
- □ Workshop, 2024



Committee on the Peaceful Uses of Outer Space

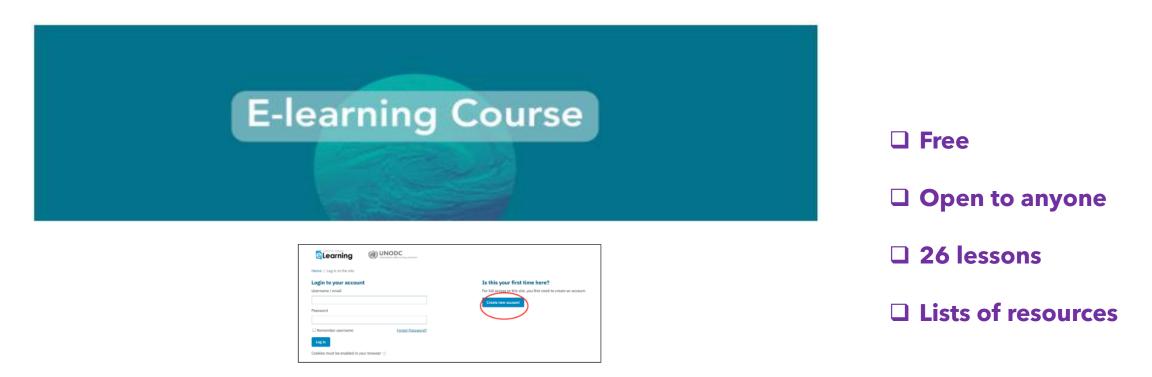


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observations
             infrastructures
        avoidance trackability servicing
         collision Safety
                             orbit
         ground Sustainability
             multiplication traffic missions
     re-entry CubeSats control air Protection
uncontrolled assessment coordination cyber
  low-Earth risk
        operations data licensing debris
     stations
                                    access
                jurisdiction nanosats
     mitigation
                accuracy
                        constellations
       astronomical
                   on-orbit
               competitive
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UNOOSA Project -

Awareness-raising and capacity-building to support the implementation of the LTS Guidelines





spacesustainability.unoosa.org

(The Project is made possible through financial support provided by the United Kingdom.)



UNOOSA Project -

Awareness-raising and capacity-building to support the implementation of the LTS Guidelines





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13 CLIMATE



14 LIFE BELOW WATER











ASTRO

ACCESSING SPACE



TREATY RESOURCES ONLINE

















UNOOSA Project -

Awareness-raising and capacity-building to support the implementation of the LTS Guidelines

Stakeholder Study Report

Awareness-raising and capacity-building related to the implementation of the Guidelines for the Long-term Sustainability of Outer Space Activities (LTS Guidelines)

Stakeholder Study Report

May 2022





"Legal certainty is one of the best incentives that a Member State can offer to its space sector."

"First, we need to build the bridge between the benefits of space and the daily needs of the citizens."



UNOOSA Project -

Awareness-raising and capacity-building to support the implementation of the LTS Guidelines

- 2 Event series
- **☐** Diverse experts
- □ Peer-to-peer exchanges
- □ Showcase implementation examples and discuss gaps

Awareness-raising and capacity-building related to the implementation of the LTS Guidelines Project

> Event 3, Section C 12 June 2023, 2 p.m. CEST

INTERNATIONAL COOPERATION, CAPACITY-BUILDING AND AWARENESS

> Guidelines for the Long-term Sustainability of Outer Space Activities: Section (

Panelists

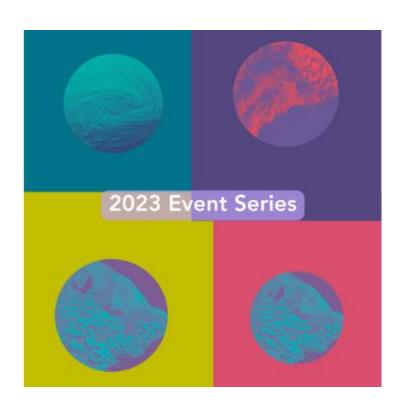
- Moderator: Moriba Jah, Co-Founder and Chie ntist Privateer Space
- · Fariz Outamazirt, Expert in Satellite Communications Value-Added Services Algerian Space Agency
- Gina Petrovici, Law and Policy Advisor German Aerospace Center (DLR)
- Milind Pimprikar, Chairman CANEUS International
- Rosa Jesse, Senior Editor European Space Agency (ESA)

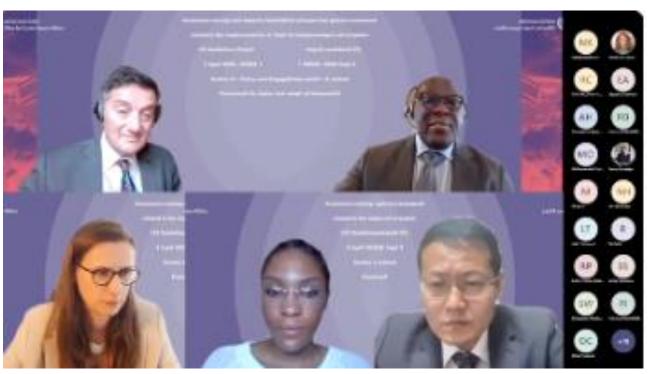




UNOOSA Project

Awareness-raising and capacity-building to support the implementation of the LTS Guidelines





A.1 Adopt, revise and amend, as necessary,
national regulatory frameworks for outer space activities
A.2 Consider a number of elements when developing,
revising or amending, as necessary, national regulatory frameworks for
outer space activities

POLICY AND REGULATORY FRAMEWORK FOR SPACE ACTIVITIES

Gui<mark>delines for the Long-t</mark>erm Sustainability of Outer Space Activities: Section A

A.3 Supervise national space activities

A.4 Ensure the equitable, rational and efficient use of the radio frequency spectrum and the various orbital regions used by satellites

A.5 Enhance the practice of registering space objects



#LTSGUIDELINES #SPACESUSTAINABILITY

C.1 Promote and facilitate international cooperation in support of the long-term sustainability of outer space activities

C.2 Share experience related to the long-term sustainability of outer space activities and develop new procedures, as appropriate for information exchange

INTERNATIONAL COOPERATION, CAPACITY-BUILDING AND AWARENESS

Guidelines for the Long-term
Sustainability of Outer Space Activities: Section C

C.3 Promote and support capacity-building

C.4 Raise awareness of space activities

#LTSGUIDELINES

B.1 Provide updated contact information and share information on space objects and orbital events

B.2 Improve accuracy of orbital data on space objects and enhance the practice and utility of sharing orbital information on space objects

8.3 Promote the collection, sharing and dissemination of space debris monitoring information

B.4 Perform conjunction assessments during all orbital phases of controlled flight

B.5 Develop practical approaches for pre-launch conjunction assessments
B.6 Share operational space weather data and forecasts



Guidelines for the Long-term
Sustainability of Outer Space Activities: Section B

B.7 Develop space weather models and tools, and collect established practices on the

B.8 Design and operation of space objects regardless of their physical and operational characteristics

B.9 Take measures to address risks associated with the uncontrolled re-entry of space objects

B.10 Observe measures of precaution when using sources of laser beams passing through outer space



#LTSGUIDELINES #SPACESUSTAINABILITY

D.1 Promote and support research into and the development of ways to support sustainable exploration and use of outer space

SCIENTIFIC AND TECHNICAL RESEARCH AND DEVELOPMENT

Guidelines for the Long-term
Sustainability of Outer Space Activities: Section D

D.2 Investigate and consider new measures to manage the space debris population in the long term



#LTSGUIDELINES #SPACESUSTAINABILITY



Thank you for your attention.