



Promoting Space Sustainability: Awareness raising, and  
capacity building related to the  
implementation of the LTS Guidelines

## Agenda: Virtual Event 3/3 – Regulators, Policymakers March 15, 2021

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# About APSCO



- A non-profit, International, Inter-governmental organization
- Purpose is to promoting multilateral cooperation in space science, technology and applications
- China is the Host Country
- Headquarters is located in Beijing China
- Diplomatic Status in China
- 11 Members

**Full Members:** Bangladesh, China, Iran, Mongolia, Pakistan, Peru, Thailand, Turkey

**Signatory:** Indonesia (ratification in process)

**Associate Member:** Egypt (ratification in process)

**Observer:** Mexico, ISNET





Pooling up technical,  
financial and human  
resources in space



Developing and  
establishing connections



Multiplying benefits



Enhance Space  
capabilities of MS  
and Region

# APSCO Mission







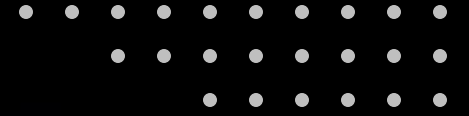
# Long-term Sustainability of Outer Space

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1. APSCO Vision 2030
  2. APSCO's Strategic Objectives
  3. Development Plan of Cooperative Activities of APSCO 2021-2030
  4. Related APSCO projects
  5. Education and Training
  6. Supporting Member States to develop legal mechanisms to address long-term Sustainability of Outer Space
  7. Connection with the LTS Guidelines
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# 1. APSCO Vision 2030

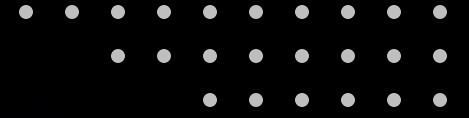


*“APSCO shall significantly enhance capability of its Member States in particular, and in the Asia-Pacific region in general, in peaceful uses of outer space, in the domains of space science, space technology and space technology applications; **by establishing the basis of cooperation through voluntary sharing of financial, technological and human resources, and leading the regional cooperation,** work with and contribute to the collective efforts of international space community toward space governance and long-term sustainability of the outer space activities.”*





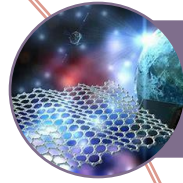
## 2. APSCO's Strategic Objectives



*“To encourage the Member States to practice towards the space governance and long-term sustainability of outer space activities that are complying with the guidelines of the United Nation’s Committee on Peaceful Uses of Outer Space (UN-COPUOS).”*



### 3. Development Plan of Cooperative Activities of APSCO 2021-2030



*Space Science and Exploration: Space environment, space weather and solar*



*Space Debris Mitigation*



*Space observation, monitoring and mitigation technologies*



*Space Debris Data Centre*



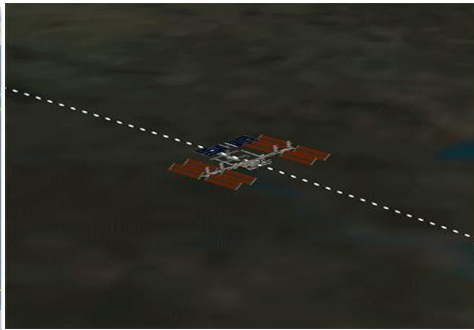
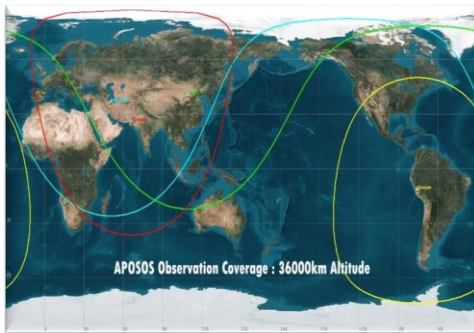
*Capacity Building on Space Debris Mitigation*



## 4. Related APSCO Projects

### 1 Asia-Pacific Ground-Based Space Object Observation Network (APOSOS)

- APOSOS consists of three 15cm telescopes installed in Peru, Iran and Pakistan
- Established in 2017
- It aims to unite the member states of APSCO to establish a global optical space observation network to track member states' space assets and interesting space objects.







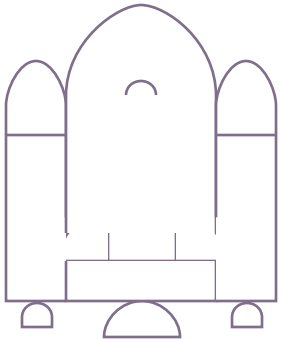
## 4. Related APSCO Projects

### 2 APSSO (The Asia-Pacific Space Science Observatories) Project

- APSSO is the second phase of the APOSOS
- 50cm telescopes will be installed in all eight member states.
- implementation time is five years from 2020 onwards
- Objectives:
  1. To establish a satellite, [space debris and NEOs search and tracking monitoring network](#) to provide APSCO member states with high-quality orbital data
  2. To establish a [data application service network](#) for data sharing, space hazard prevention and response for APSCO members
  3. To establish an [international cooperation network](#) for technical exchange and training in the field of outer space for APSCO members
  4. To establish [astronomical research and a popular science network](#) to provide a platform for the popularization of science to APSCO members.



## 5. Education and Training



APSCO conducted the distance-training course on "Space Debris: Challenges and Mitigation Techniques" from 22 to 26 June 2020, focused on imparting knowledge to the professional in the following areas:

- Introduction to Space Debris Environment
- History of Space Debris
- Space Debris Tracking and Cataloguing
- Space Debris Challenges
- Designing for the Debris Environment
- Space Debris Mitigation Techniques



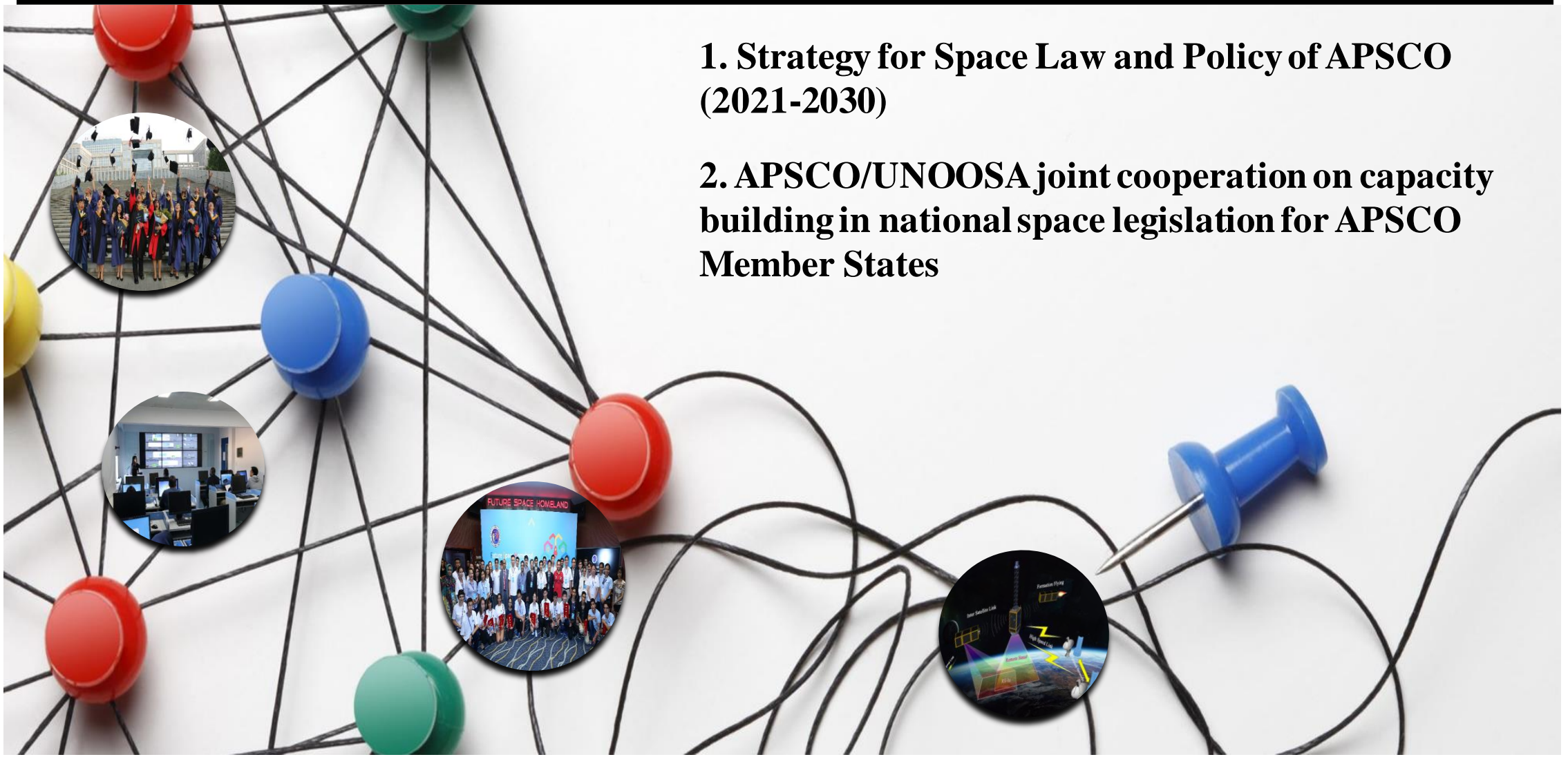




## 6. Supporting Member States to Develop Legal Mechanisms to Address Long-term Sustainability of Outer Space

**1. Strategy for Space Law and Policy of APSCO (2021-2030)**

**2. APSCO/UNOOSA joint cooperation on capacity building in national space legislation for APSCO Member States**



**Guideline A.1** Adopt, revise and amend, as necessary, national regulatory frameworks for outer space activities

**Guideline A.2** Consider a number of elements when developing, revising or amending, as necessary, national regulatory frameworks for outer space activities

**Guideline B.1**, Provide updated contact information and share information on space objects and orbital events, Paragraph 2

**Guideline B.3** Promote the collection, sharing and dissemination of space debris monitoring information

**Guideline B.6**: Share operational space weather data and forecasts

Paragraph 1,3,4,5,6,7

**Guideline B.7**: Develop space weather models and tools and collect established practices on the mitigation of space weather effects

Paragraph 1,4,6,7

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

**Guideline C.3** Promote and support capacity-building

**Guideline C.4** Raise awareness of space activities

**Guideline D.1** Promote and support research into and the development of ways to support sustainable exploration and use of outer space ,  
Paragraph.1,5

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# Connection with the LTS Guidelines



The background features a series of overlapping, three-dimensional geometric shapes, primarily cubes and prisms, rendered in a variety of colors including blue, green, orange, red, and purple. These shapes are arranged in a way that creates a sense of depth and movement, with some appearing to float above others. The lighting is soft, casting gentle shadows on the light blue background.

**looking forward to working together for a  
safe, secure and sustainable outer space!**

**THANK YOU!**