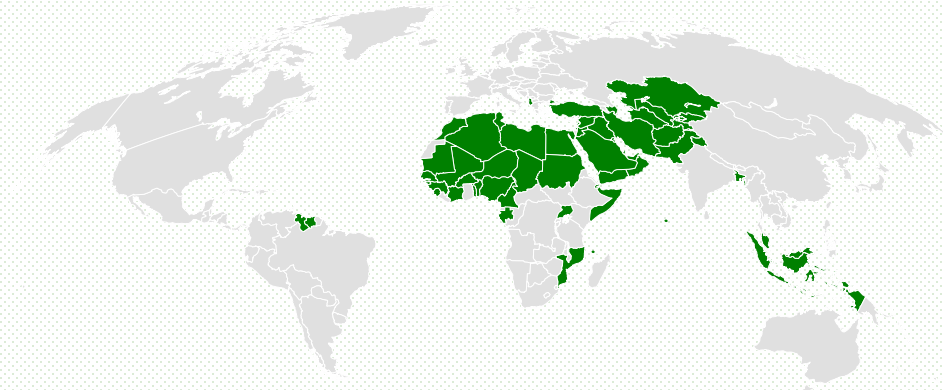




CAPACITY-BUILDING ACTIVITIES IN OIC REGION THROUGH ISNET FORA



Inter-Islamic Network on Space Sciences & Technology
Réseau Inter-Islamique Des Sciences Spatiales Et De La Technologie

الشبكة البينية الإسلامية حول علوم وتكنولوجيا الفضاء

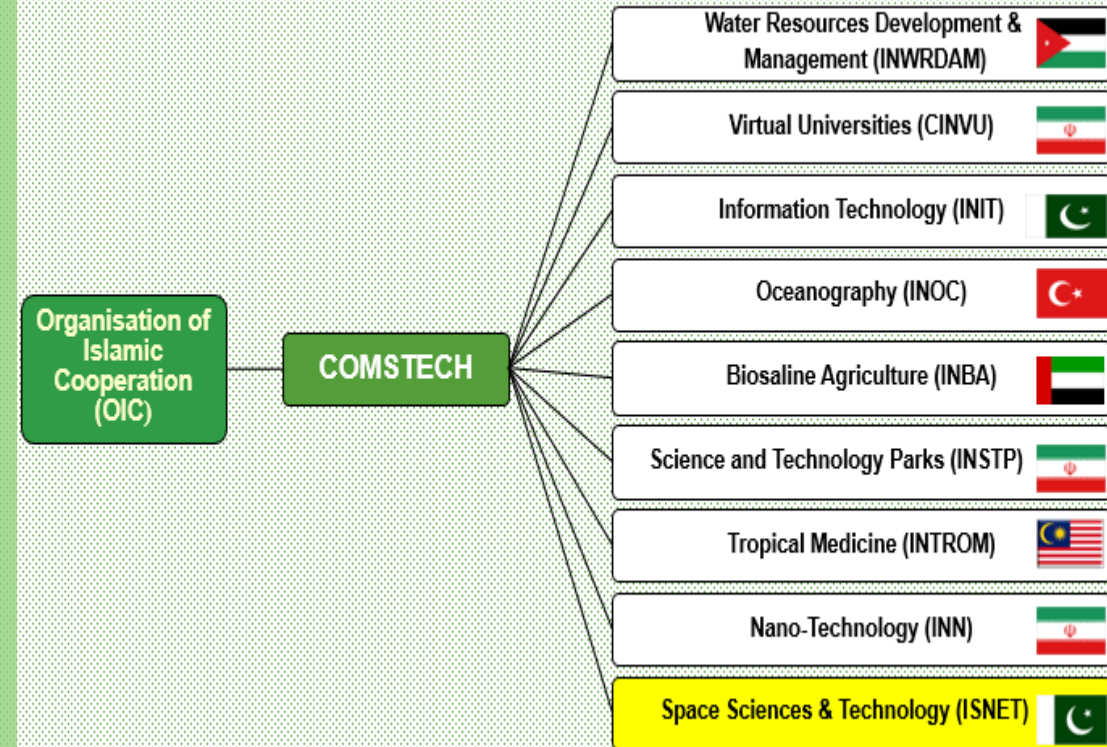
Presenter: Sadaf Sajjad; Administrator, ISNET

A decorative background consisting of several overlapping, semi-transparent, teardrop-shaped elements in various shades of green and yellow, radiating from a central point at the bottom.

ISNET's Brief

ISNET's Establishment

- To accelerate pace of development of S & T in OIC member States, COMSTECH formed Inter-Islamic Networks in 1987
- Each network was joined by interested OIC member States and was headed by an OIC member State that was having relatively more expertise in that particular field of science and technology
- Inter-Islamic Network on Space Sciences and Technology (ISNET) is one of the networks, with its Headquarters located in Pakistan (SUPARCO).

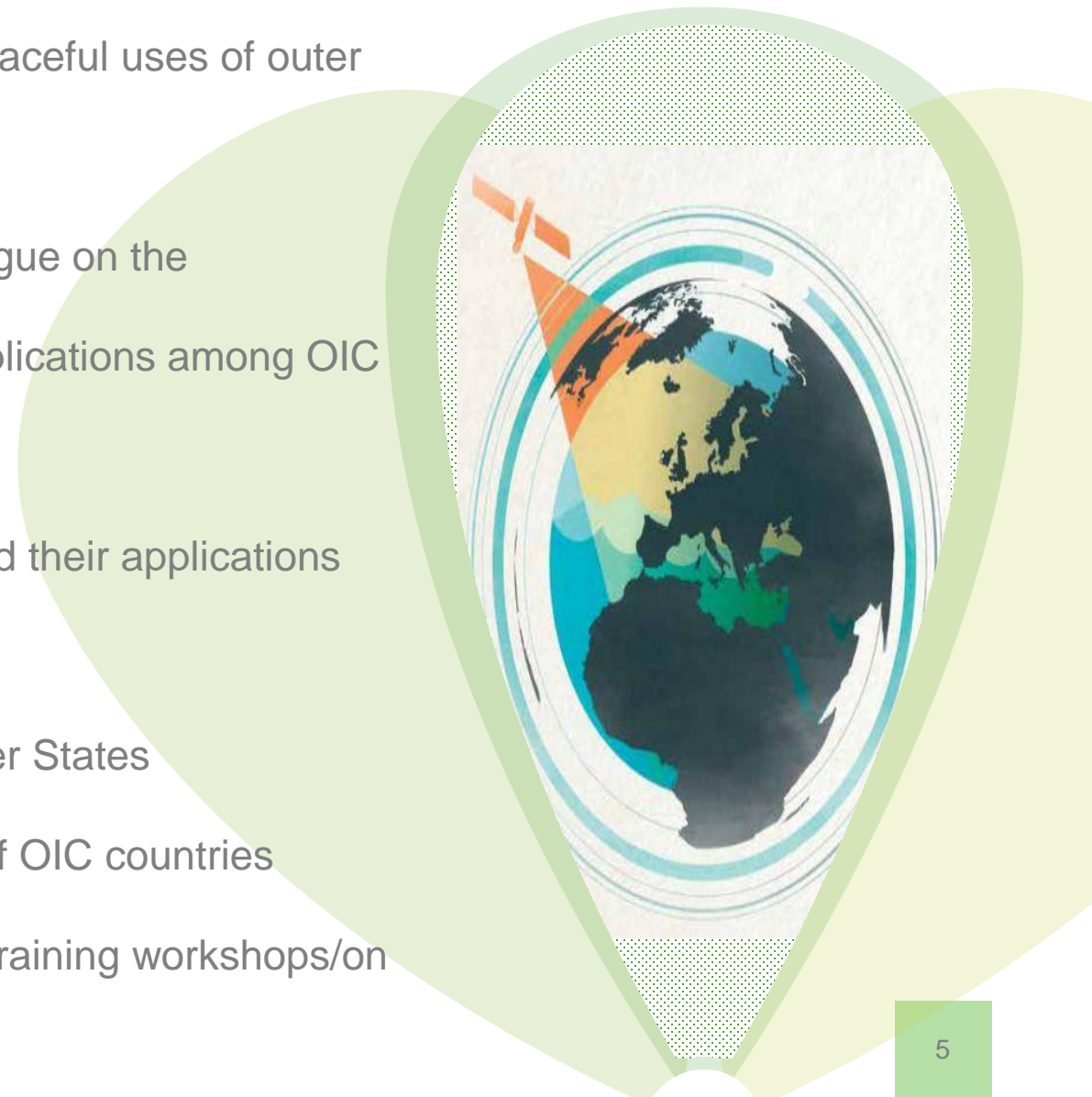


Mission

“Promote Space Sciences, Space Technology and their Applications for peaceful purposes in OIC member countries”

Objectives

- To **collaborate and cooperate** with OIC member States in the peaceful uses of outer space
- To **exchange information**, share experiences and maintain dialogue on the developments in space science, space technology and their applications among OIC member States
- To **initiate joint projects** of space sciences, space technology and their applications among OIC member States
- To **coordinate consultancy and advisory services** among member States
- To help and assist in training to **develop the quality manpower** of OIC countries (organisation of periodic short- and long-term training courses, training workshops/on the job trainings)



ISNET



Member States



Intl' Collaboration



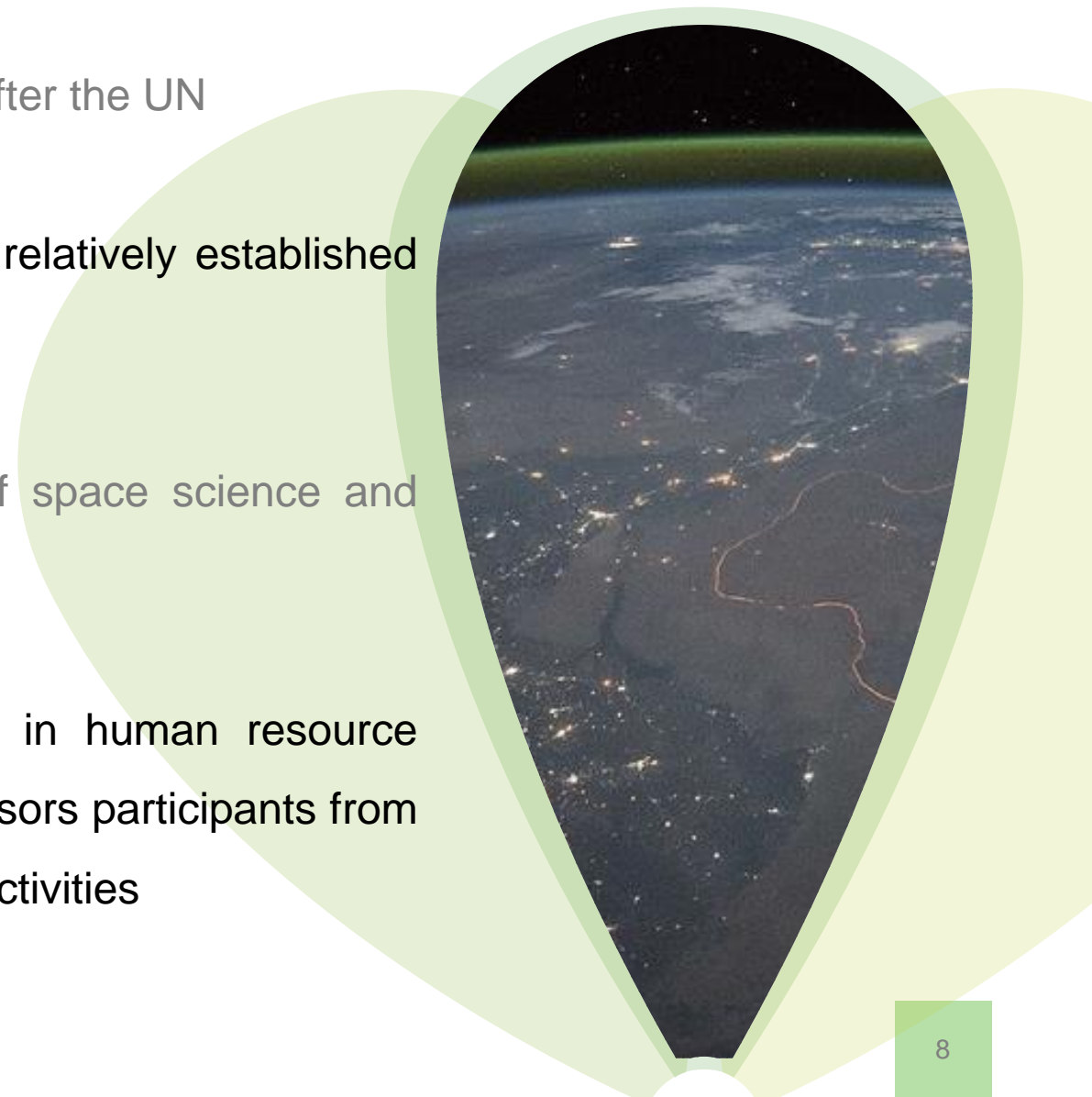
A decorative background consisting of several overlapping, semi-transparent green and yellow circular shapes that fan out from a central point at the bottom, resembling a stylized flower or a fan.

ISNET's Capacity Building Initiatives

ISNET's Capacity Building Activities



- OIC is the second largest inter-governmental organisation after the UN
- Space programs in the OIC region are dominated by few relatively established spacefaring nations and several emerging players
- ISNET was formed with the aim to congregate efforts of space science and technology and its applications in OIC region
- Therefore, to accomplish ISNET's objectives and assist in human resource development, since its inception ISNET organizes and sponsors participants from member countries to attend its extensive capacity building activities





- * ISNET's capacity building activities are executed by conducting; hands-on trg, distance trg, conference, seminars, workshops and activities under UN Prog on Space Applications

- ** ISNET's activities were not disturbed even during COVID, as ISNET adjusted its approach and switched to distance learning programs.

- *** The activities are organized/ conducted in collaboration with its member states. Furthermore, APSCO, UN and GEO activities are also shared with ISNET member states for possible participation

ISNET's Activities at a Glance



86

Annual seminars/
workshops/meetings/
trainings/conferences



48

Distance learning activities



6

Co-sponsored conferences/
workshops under UN Prog on
Space Applications

ISNET's Activities at a Glance



450

Research Papers Presented



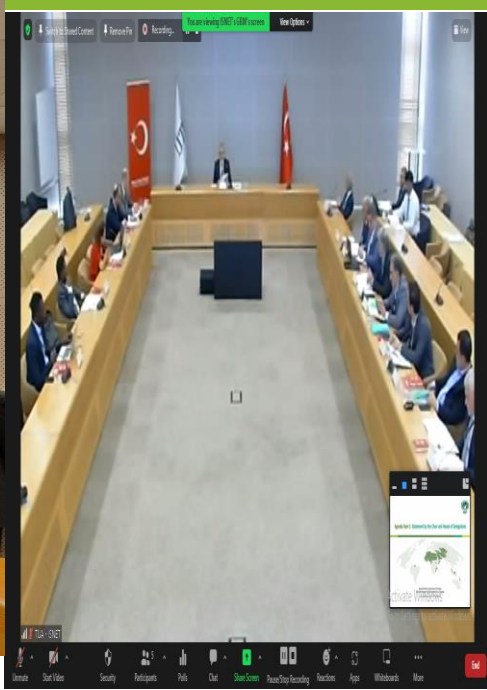
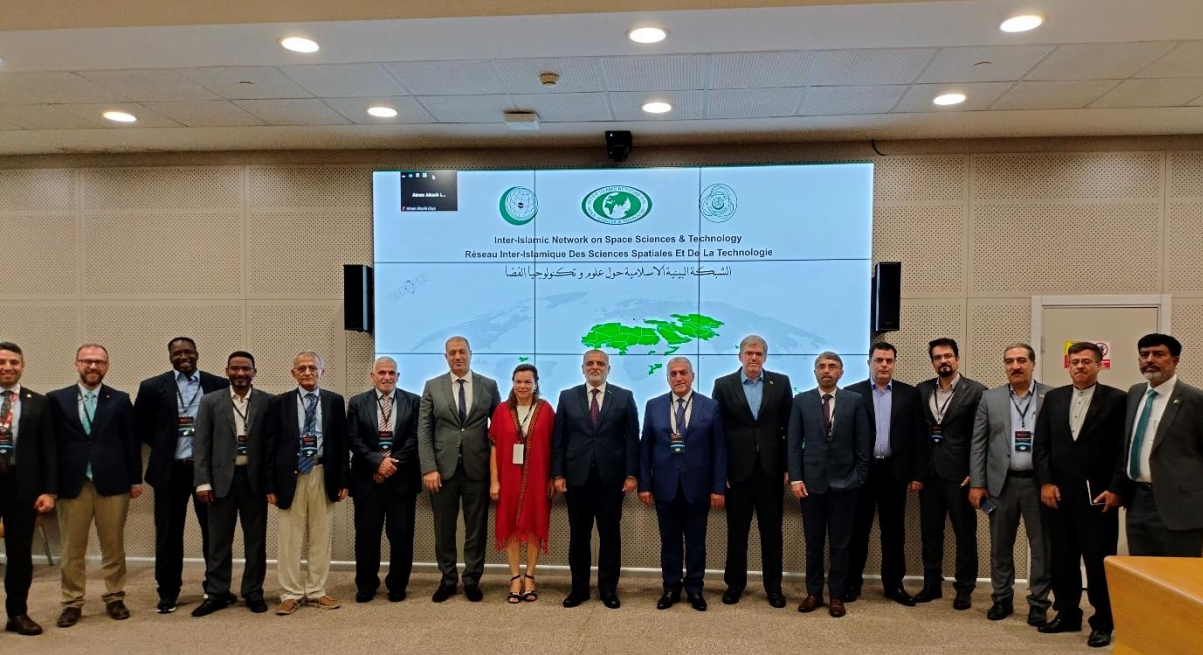
750

Scientists and researchers
benefitted through financial
sponsorship



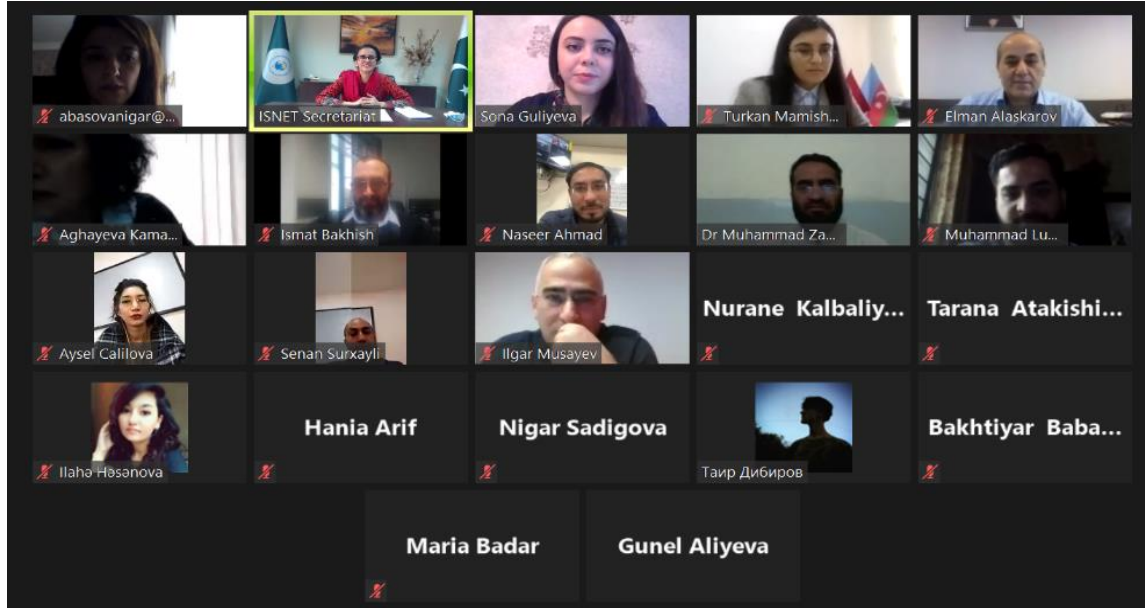
4000

Professionals and students
attended the seminars and
workshops





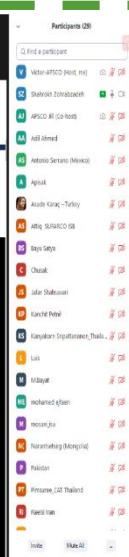
ACTIVITIES DURING COVID-19 SCENARIO



Assignment:
Designing a communication constellation for APSCO Member States

Determine the number of satellites in each plane:

5 satellites in one orbit plane 7 satellites in one orbit plane 10 satellites in one orbit plane



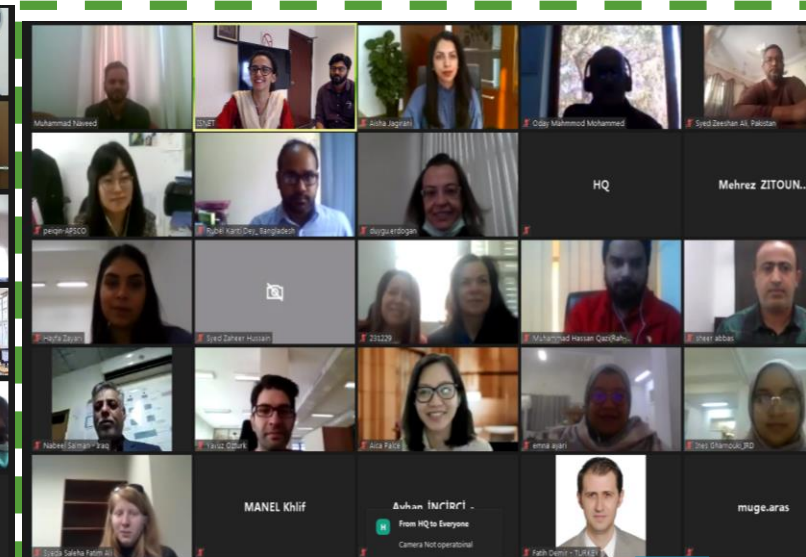
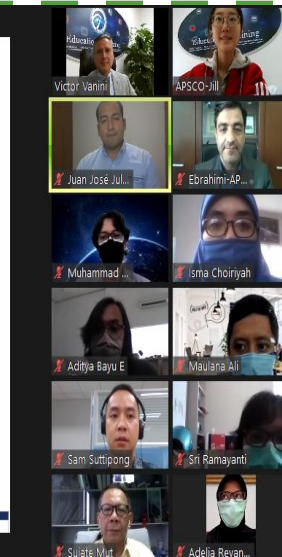
APSCO

AGENCIA ESPACIAL DEL PERU

Distance Training Course 2020 for APSCO Members States

"Introduction to Satellite Power Systems"

Peruvian Air Force Capt. / Eng. Juan José Julca Yaya



Scope

Space Sciences

- Astronomy & Astrophysics
- Space Weather
- Geomagnetism

Space Applications

- RS & GIS Applications
- Water resource management
- Food security
- Environment & climate change
- Disaster management & mitigation
- Natural resource management
- Use & exploitation of satellite-based Optical, SAR and GIS applications for sustainable development

Projects on Space Applications

Satellite Remote Sensing Based Water Resource Mapping

UAV based Digital Farming for Enhanced Productivity & Food Security

Training on geomagnetic and ionospheric data acquisition, processing and analysis techniques

Geo-Spatial Crops Monitoring for Decision Support to Regional Food Security

Satellite Remote Sensing based Land Degradation Mapping/ Land Use Land Cover Mapping

Land Change Modeling based on Satellite Remote Sensing

Establishment of Total Electron Content (TEC) & Ionospheric Scintillation Monitoring Network under the framework of ISNET

Capacity Building Initiatives





ISNET'S OUTSTANDING AWARD PROGRAM ON IMPLEMENTING SDGs

through Space Science and Technology

GET A CHANCE TO WIN CASH PRIZE WORTH

\$ 2,000/- **\$ 1,500/-** **\$ 1,000/-**

LAST DATE FOR SUBMISSION IS

10TH FEB 2022

Apply now on
https://docs.google.com/forms/d/e/1FAIpQLSewlv_St18n1orenwzBETg_BG9Lc9X2OGIWoYDhtdyCKHnrg/viewform

For further details do visit
<https://isnet.org.pk/pages/implementing-SDGs-through-space-science-technology.asp>

SUSTAINABLE DEVELOPMENT GOALS

ISNET'S OUTSTANDING AWARD PROGRAM ON IMPLEMENTING SDGs

through Space Science and Technology

WINNERS

2nd

Dr. Suhab bin Farhan
 from SUPARCO, Pakistan,
 Proposal Title: "Investigating the Impacts of Climate Change on Water Resources and Cryosphere Dynamics in Upper Indus River Basin, North Pakistan"

1st

Ms. Sona Guliyeva
 from Azercosmos, Azerbaijan,
 Proposal Title: Practical experience and vision towards achieving SDGs through geoinformation technologies

3rd

Dr. Najam Naqvi
 from Institute of Space Technology, Pakistan, Proposal Title: "Space Education & Research Lab: An Initiative of Institute of Space Technology, Islamabad"

SUSTAINABLE DEVELOPMENT GOALS

SPACE-SDGs

Space Education & Awareness Drive was live.
 Published by آل مانی نقوی - October 4 at 3:00 PM

Webinar on Contributions of "Women in Space"

Organized by: Space Education & Awareness Drive (SEAD) of Pakistan Space & Upper Atmosphere Research Commission (SUPARCO) in Collaboration with Inter Islamic Network on Space Science & Technology (ISNET)

#WSW2021 #SpaceWebinar #women #womeninspace #Women #space #OICISNET #ISNET #SpaceEducation #wsw21pakistan #wsw21 #WSWPakistan #SEAD #seadpakistan #SEADPakistan #WSW #WSWA #SUPARCO #spaceweek #worldspace #worldspaceweek #worldspac... See More

World Space Week ASSOCIATION 2021

Webinar on Contributions of WOMEN IN SPACE

Organized by: Space Education & Awareness Drive (SEAD) of Pakistan Space & Upper Atmosphere Research Commission (SUPARCO) in collaboration with Inter Islamic Network on Space Science & Technology (ISNET)

1,088 People Reached

463 Engagements

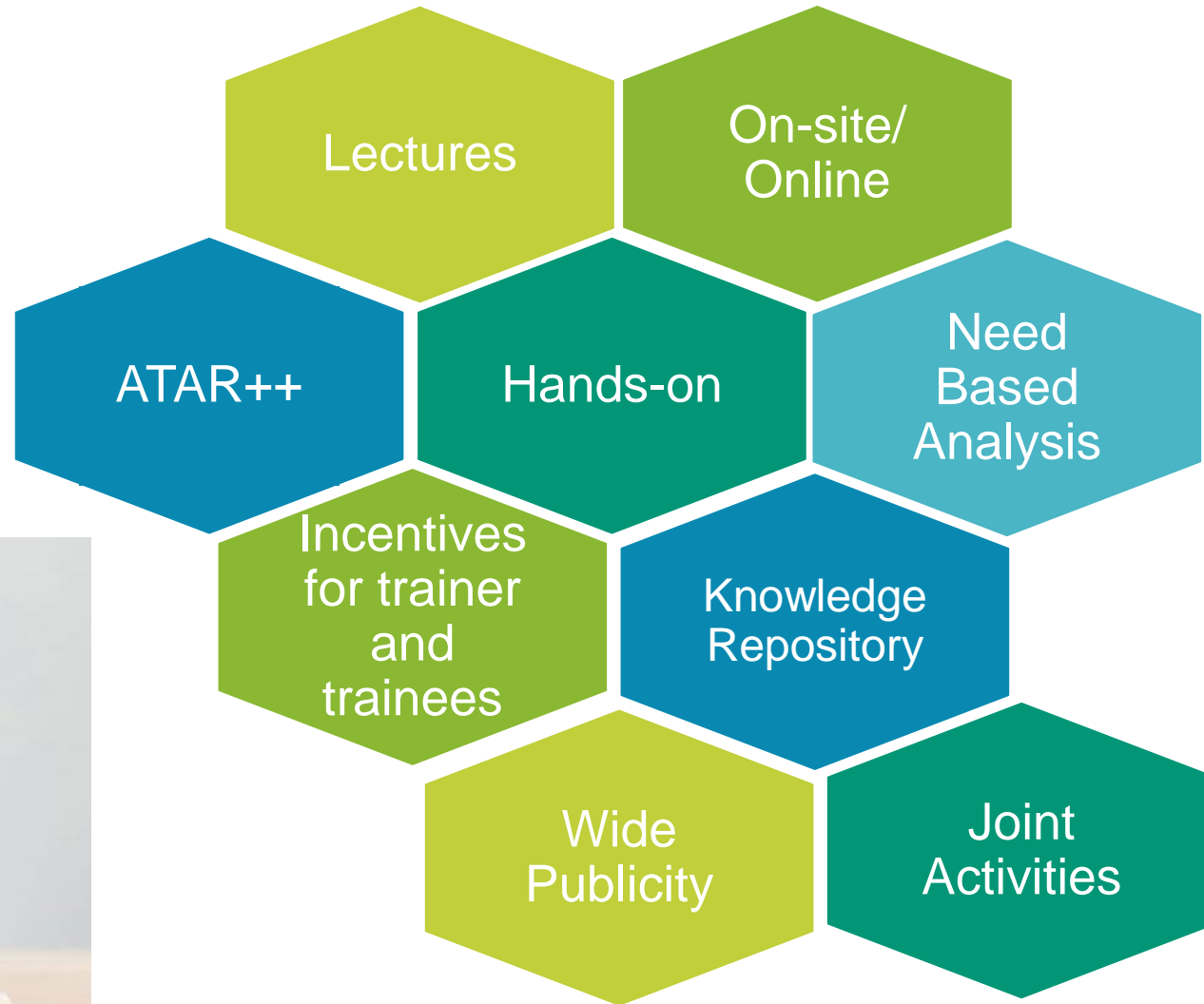
Boost Post



Tools/methods Applied



Tools/methods Applied





Challenges

Challenges

Inadequate
funds

Dual
participation of
OIC states in
space
initiatives

Duplication of
efforts





Lessons Learned

Lessons Learned

- All initiatives to work together and find common interests and foster cooperation therein
- For ownership of participating member states, focus should be on cooperation rather than competition
- Commitment of member states is essential
- Critical to ensure follow-up after the conduct of the activity
- Activities should eventually be aimed to achieve a bigger goal i.e. research based project/studies





THANKS

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 www.facebook.com/OICISNET/

