

Role of APSCO in Space Cooperation in the Asia Pacific Region



- About the Organization
- Cooperative Space Activities
- International Communications



The Initial Proposition-1992

In November 1992, Asia-Pacific Workshop on Multilateral Cooperation in Space Technology and Applications was held in Beijing.

China, **Pakistan and Thailand** proposed institutionalization of the mechanism which was agreed by the participants from 16 Asia-Pacific Countries.





The Signing of Convention-2005

After a lot of preparatory work, the *Signing Ceremony of APSCO Convention* was held in the Great Hall of the People, Beijing on 28th October 2005. 8 countries from Asia-Pacific Region signed the Convention, which included **Bangladesh**, **China**, **Indonesia, Iran, Mongolia, Pakistan, Peru and Thailand**.





On June 1st of **2006**, the representative of *the Government of Turkey* signed the APSCO Convention in Beijing.

9 Signatory Countries.





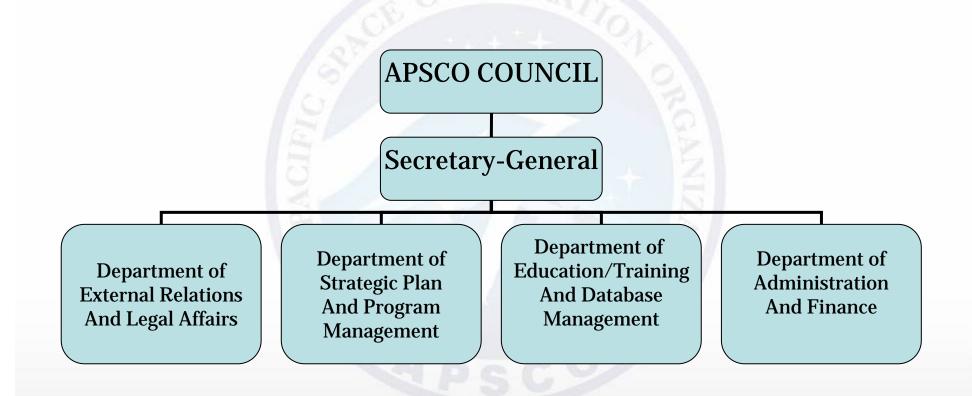


• On December 16th of 2008, the Inauguration Ceremony of APSCO was held in Beijing, China.











The Chair-board of APSCO Council

Chairman of the Council: Vice-Chairmen of the Council: Mr. Khondaker M. Asaduzaman (Bangladesh), Mr. Chen Qiufa (China), Mr. Hamid Fazeli (Iran).



Mr. Chen Qiufa (China).

Mr. Khondaker M. Asaduzaman (Bangladesh)

Mr. Hamid Fazeli (Iran) 8



The Secretariat



Secretary-General: Dr. Zhang Wei (China)

Director-General of Departments: Mr. Ahmad Talebzadeh (Iran) Dr. Maqbool Ahmad Chaudhry (Pakistan)

Mr. Tsoodol Nyamkhuu (Mongolia)

Ms. Liu Xiaohong (China)





Current Status of APSCO

International Recognition

APSCO has been granted a *permanent observer status* by the United Nations Committee on the Peaceful Uses of Outer Space (UN-COPUOS) in the 52nd Session of Committee meeting in Vienna, on 12 June 2009.





Current Status of APSCO

Host Country Agreement



Dr. Zhang Wei, Secretary-General of APSCO and Mr. Li Yizhong, Minister of Ministry of Industry and Information Technology of China signed the Host Country Agreement on 15 July 2009 in Beijing, China.



Headquarters

In November 2009, APSCO moved into its new headquarters office building in Beijing, donated by Chinese Government.







Member-States' Space Achievements Exhibition



The Exhibition of Member States' Space Achievements was held at the APSCO Headquarter in December 2009.



The 1st Council Meeting of APSCO Beijing, December 17th -18th,2008





The 2nd Council Meeting of APSCO

Beijing, December 17th -18th, 2009





The 3rd Council Meeting of APSCO

Beijing, September 16th -17th, 2010





The 4rd Council Meeting of APSCO

Pattaya, January 26th -27th, 2011





The 5th Council Meeting of APSCO Beijing, September 7th -8th, 2011





Cooperative Space Activities



Fields of Cooperation

Article 6 of the APSCO Convention

- Space technology and its applications;
- Earth observation, disaster management, environmental protection, satellite communications and satellite navigation and positioning;
- Space science research;
- Education, training and exchange of scientists/technology;
- Establishment of a central data bank for development of programs of the organization and dissemination of technical and other information relating to the programs and activities of the Organization.
- Other cooperative programs agreed upon by the Member States.



Donation Ceremony of Receiving Stations of FY Satellite Data Broadcasting System (DVBS) to 7 Signatory States of APSCO by the Chinese Government held on 24 March 2006 in Beijing .







On September 6th of 2008, 30 delegates from 9 Signatory States witnessed the Launch of the Environment and Natural Disaster Monitoring Satellite (HJ-A, also named as Small Multi-Mission Satellite) at Taiyuan Lunching Center.







In December of 2008, the Commissioning of KABES/SMMS Receiving Station in Thailand.







On 21 December 2009, under the Cooperation Framework of APSCO, Center for Resources Satellite Data and Applications (CRESDA) signed an agreement with the Government of Thailand, to build the Receiving Station of SMMS in Bangkok.



SMMS cooperation



On April 1st, 2011, the Opening Ceremony of SMMS (HJ-1A) Satellite Ground Receiving Station was held in Bangkok, Thailand.

Representatives from APSCO, MIIT of China, CRESDA, MICT of Thailand attended.



APSCO Approved Projects

- (1) Spatial Data Sharing Service Platform and Its Application Pilot Project;
- (2) APSCO Applied High Resolution Satellite;
- (3) Research on Atmospheric Effects on:
 - (i) Ka Band Rain Attenuation Modeling;
 - (ii) Ionosphere Modeling through Study of Radio Wave Propagation and Solar Activity;
- (4) Asia-Pacific Ground Based Optical Space Observation System;
- (5) Applications of Compatible Navigation Terminal System;
- (6) Geostationary Communication Satellite
- (7) Communication Satellites Applications
- (8) Small Student Satellites
- (9) Research on Determining Precursor Ionospheric Signatures of Earthquakes

(10) Electromagnetic Satellite Payload for Earthquake Prediction(11) Education and Training Activities



The feasibility study of projects by experts of MS









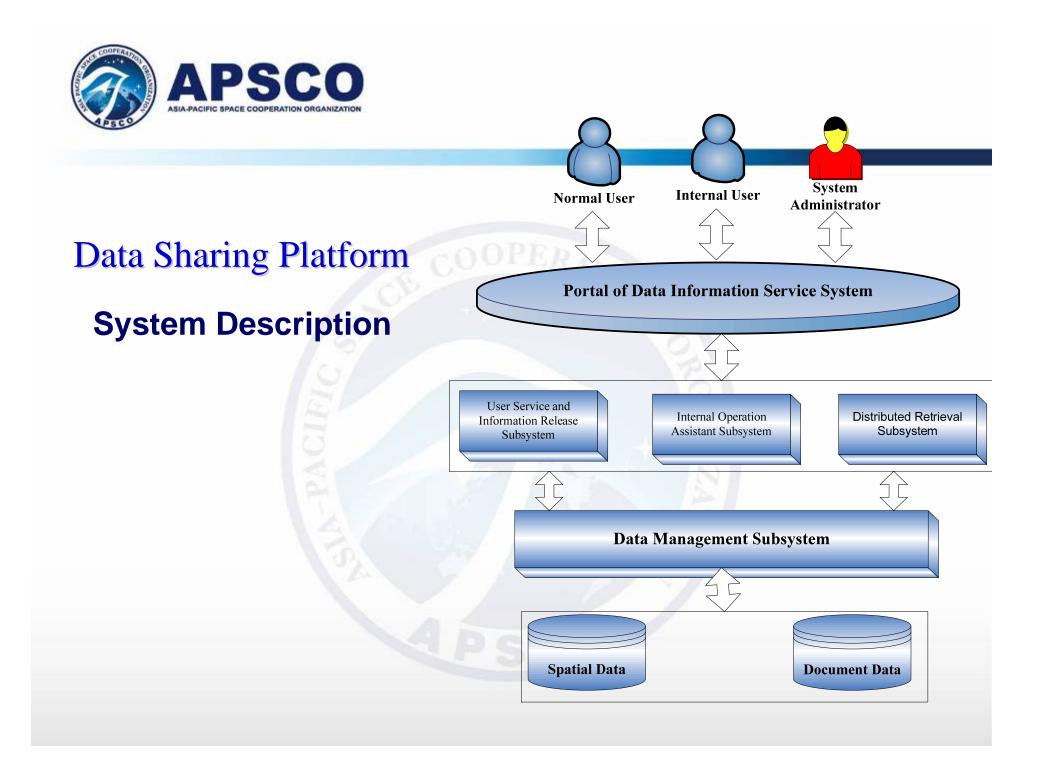
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APSCO Data Sharing Service Platform Project

On 6 May 2011, APSCO Data Sharing Service Platform and its Application Pilot Project Contract Signing Ceremony was held at APSCO Headquarters.

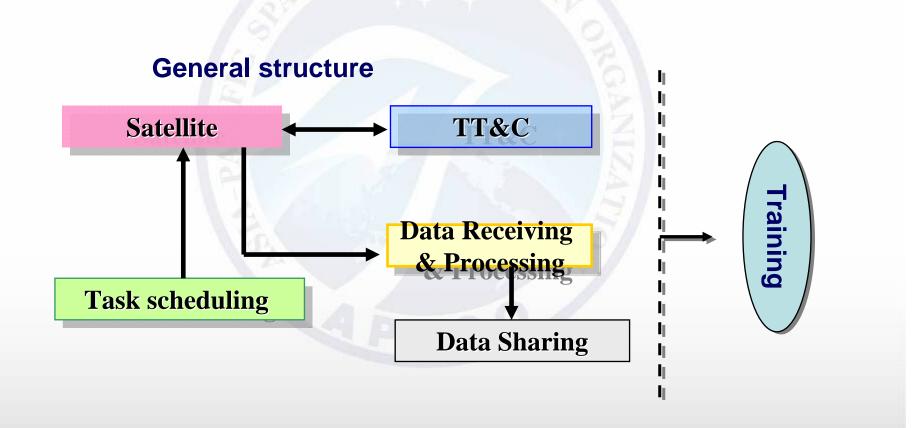






Remote Sensing Satellites (APRS)

Payload Primary: 2/8mPan/MSI+16mWFI Optional: 30mHSI



APOSOS Network Distribution of Observatory Stations





Education and Training Activities

- Training Course on Remote Sensing Technology and Applications held in May 2005 in Beijing .
- Training Course on Satellite Technology and Spacecraft Project Management held in June 2005 in Beijing.
- Training Course on Reception Stations of FY Satellite Data Broadcasting System held in July 2006 in Beijing.
- Training Course on Space Technology Applications held in 2007 in Peru.
- Nine-Month Master Program on Space Technology Applications held from 10 July 2006 to 10 April 2007 in Beijing.



Training Course on: Data Processing and Applications on Remote Sensing Satellites May 11-22, 2009, Beijing





Training Course on GNSS and its Applications

June 4-22, 2010, Beijing Co-sponsored by Ministry of Industry and Information Technology (MIIT) of China organized by Peking University





Education and Training Activities

Master Program on Space Technology Application (MASTA 2008, 2010 and 2011) for APSCO Member States supported by Beihang University





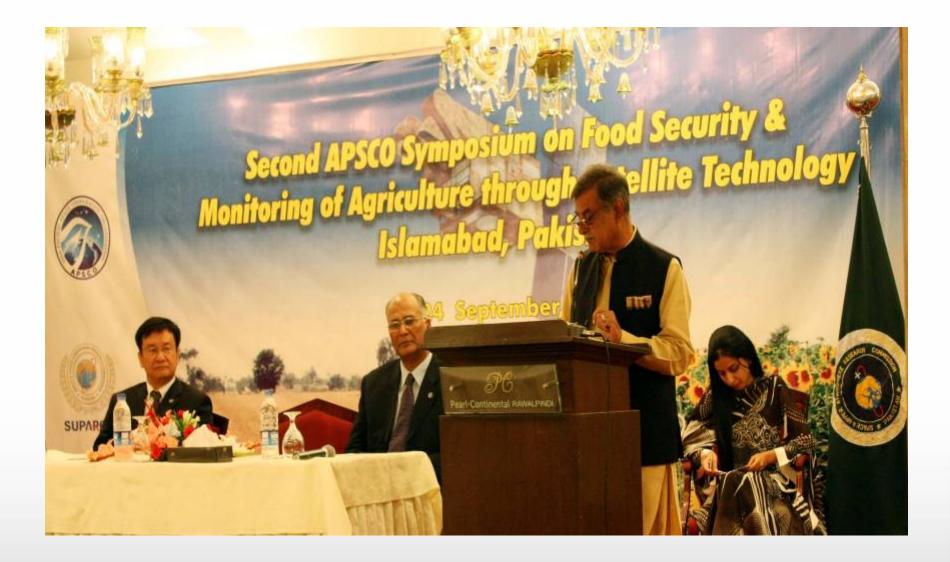


The First International Symposium on Space Cooperation for the Asia-Pacific Region July 20-24, 2009,Thailand













APSCO THIRD INTERNATIONAL SYMPOSIUM ON EARTH QUAKE MONITORING AND EARLY WARNING BY USING SPACE TECHNOLOGY 亚太空间合作组织第三次国际研讨会-空间技术在地震监测及早期预警的应用

13-15 September 2011, Beijing Friendship Hotel, Beijing, China 2011年9月13至15日,北京友谊宾馆,中国

主办单位/Organizer: 至太空间合作组织/Asia-Pacific Space Cooperation Organization (APSCO) 中华人民共和国工业和做单化部/Ministry of Industry and Information Technology (MIIT) of the Paople's Republic of China





More activities in near future

- Development Plan for Cooperative Activities of APSCO
- Training and Education Center of APSCO
- Asia-Pacific Research Center of Space Law
- UN/ESCAP Secretariat of Drought and Flood Disaster Early Warning Program





APSCO Orientation Tour

- On 12 January 2009, 13 relevant countries' diplomats were invited for a visit of APSCO facilities and briefing.
- Ambassador of Bangladesh, Columbia and Ukraine honored this event.
- Diplomats from Japan, Korea, Brazil also attended the event.
- All countries are welcome to join APSCO and its activities!











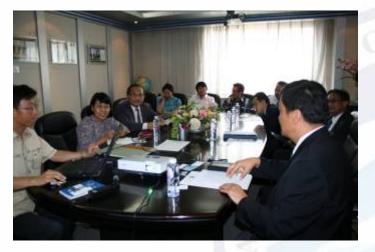
Ukraine National Space Agency Delegation headed by Mr. O. Zinchenko visited APSCO, on 14 April 2009.



During June 13-14, 2009, Dr. Zhang Wei paid a visit to SUPARCO in <u>Pakistan</u>.







On 1st September 2009, LAPAN Delegation from<u>Indonesia</u> visited APSCO.

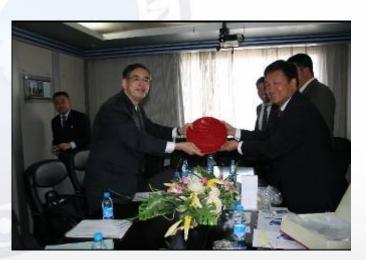


Technical visits arranged by APSCO.



On October 19 of 2009, APSCO received a delegation from JAXA, which was headed by Vice President Mr. Yukihide Hayashi.









On 29 October 2009, ESA Deputy Director General for Earth Observation and Director of ESRIN Dr. Liebig visited APSCO





During November 8-11, 2009, Dr. Zhang Wei attended UN/APSCO/IRAN workshop on Space Law "Role of Space Law in the Development and Strengthening of International and Regional Cooperation of States in the Peaceful Exploration and Use of Outer Space "in Tehran.









APSCO Delegation visited LAPAN, Indonesia during December 1-6, 2009.





APSCO meets with UN-ESCAP



On February 1, 2010, Mr. Xuan Zengpei, Director of ICT and Disaster Risk Reduction Division of United Nations Economic and Social Commission for Asia and the Pacific (UN/ESCAP) and Mr. Wu Guoxiang, Chief of Space Application Section of ICT (UN-ESCAP) visited APSCO.



APSCO Delegation Visits South America

During March 2010, APSCO delegation visited Peru, Chile and Brazil respectively and held discussions with government officials and space authorities of these countries on membership and possible participation of these countries to join APSCO projects.





APSCO SIA-PACIFIC SPACE COOPERATION ORGANIZATION International Communications

 On 24th of September, 2010, APSCO delegation visited ESA Headquarters and met with the ESA Director General Mr. Jean-Jacques Dordain.







The International Astronautic Federation (IAF) Congress of 2010 was held in Prague, Czech Republic during September 27 to October 1.

MEET WITH NASA





During October 2010 APSCO delegation visited TUBITAK UZAY, TUBITAK and Istanbul Technical University in Turkey.





During October 2010 APSCO delegation paid a visit to National Space Agency of Ukraine and YUZHNOYE in Ukraine.









The Federal Space Agency of Russia Representatives from Beijing Office visited APSCO on 25th October 2010.





UN-OOSA Director Visited APSCO

Dr Mazlan Othman, Director, UN-Office for Outer Space Affair visited the APSCO Headquarter on 9th, Nov, 2010 and met with Secretary General and International Staffs of APSCO and discussed future cooperation.





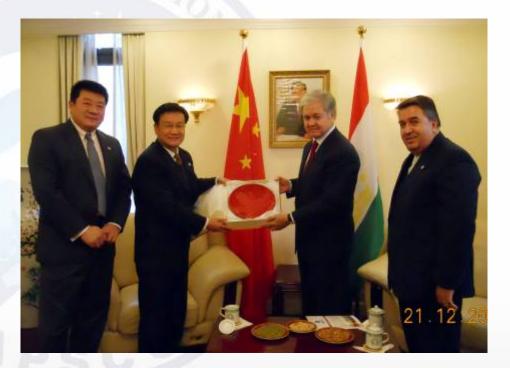
APSCO 2011 New Year Reception





APSCO Visited Tajikistan Embassy

 On December 21, 2010, APSCO visited Tajikistan Ambassador in Beijing.





Leiden University visits APSCO



On January 12, 2011, Prof. Tanja Masson-Zwaan, President of International Institute of Space Law and Deputy President of School of law of Leiden University, visited APSCO Headquarters in Beijing.



Minister of MIIT of China Visits APSCO Headquarter

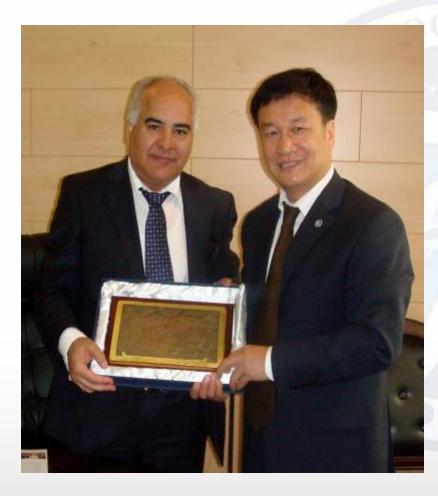
On February 17, 2011 H.E. Miao Wei, Minister of Industry and Information Technology (MIIT) of China visited APSCO and greeted APSCO Staff.

As the host country, Chinese Government will fulfills its due obligations in a highly responsible way and provide more supports to assist the smooth operation of APSCO





APSCO visited Tajikistan



Invited by the President of the Academy of Sciences of the Republic of Tajikistan Prof. Mamadsho ILOLOV, the delegation of APSCO headed by Dr. Zhang Wei, visited Tajikistan from May 14th to 19th, 2011.



APSCO delegation visited KAZCOSMOS



From June 28-29, 2011 APSCO delegation visited National Space Agency of Kazakhstan (KAZCOSMOS) and held constructive discussion with its Chairman and former Cosmonaut Mr. Mussabayev Talgat Amanggeldyevich. Both sides expressed willingness in future cooperation and exchanges.



APSCO in 2011 IAF Congress



APSCO exhibited its major events in the most prominent space event, the IAF Congress in October 2011. APSCO became better known to the space community of the world.



APSCO visited Malaysia



3 member delegations of APSCO visited Malaysia ANGKASA and National Remote Sensing Agency from October 17 to 19, 2011.



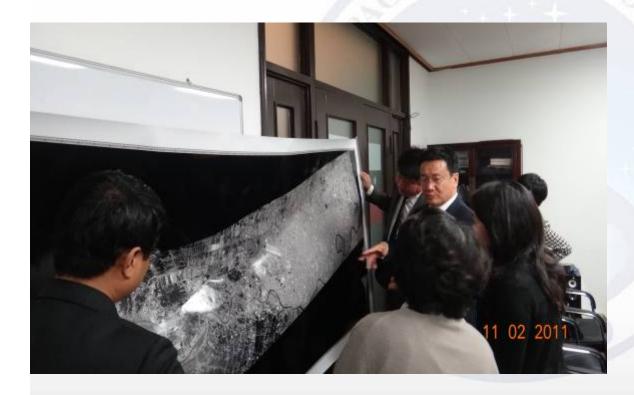
APSCO Delegation Attended the Reception in Turkish Embassy



On 28th October, 2011, APSCO delegation participated in the Reception hosted by the Embassy of the Republic of Turkey . During this Reception, Dr. Zhang Wei, the Secretary-General of APSCO, presented the image map of the city of Van which was taken by BJ-1 Satellite shortly after the earthquake in Turkey. This image was also sent to the Civil Affairs Department of the Republic of Turkey via internet for the purpose of disaster relief.



APSCO Presented Post-Flood Image to the Royal Government of Thailand



On November 2nd 2011, APSCO delegation visited the Royal Thai Embassy in Beijing. During his visit, Dr. Zhang Wei presented the satellite post-flood image of disaster-affected area to the Royal Government of Thailand, being taken by BJ-1 Satellite



Organization Expansion



- Regional space agency;
- Region oriented space programs for social and economical benefit;
- Member country capacity building and data sharing;
- Pooling of human and financial resource;
- Sharing of infrastructure and avoid duplications;
- Supplement to other regional mechanisms such as APEC, SCO, APRSAF, ASEAN and ESCAP;
- All countries in Asia Pacific are invited to join APSCO!



Thank You!

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