

Commission on Science and Technology for Sustainable Development in the South (COMSATS)



Summary of Activities



. IIII

(1994 - 2019)

COMSATS' Member States







Summary of COMSATS' Activities

(1994 - 2019)



Commission on Science and Technology for Sustainable Development in the South (COMSATS)



Hon. Nana Addo Dankwa Akufo-Addo President of Republic of Ghana Chairperson COMSATS



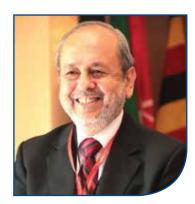
H.E. Mr. Imran Khan Prime Minister of Host Country, Pakistan



Chaudhry Fawad Hussain Federal Minister, Ministry of Science and Technology, Pakistan Chairperson Consultative Committee



Prof. Ashraf Shaalan Former President, National Research Centre (NRC), Egypt Chairperson Coordinating Council



Dr. S.M. Junaid Zaidi Executive Director COMSATS

Introduction

The Commission on Science and Technology for Sustainable Development in the South (COMSATS) was established in 1994 to help developing countries boost their pace of socioeconomic development through promotion of science and technology. The Commission launched a Network of Centers of Excellence (COEs) at the COMSATS' foundation meeting held in Islamabad in October 1994. The main purpose behind designating various Centers of Excellence was to integrate developing countries in economic, technological and social spheres and enhance their technical and human capacity towards eliminating poverty, hunger and environmental degradation. The Network comprises of top class science-led R&D and higher education institutions, representing the growing technical and human capital in the developing countries. The selected Centers serve as nodal points and are mostly engaged in the fields of Information Technology, Renewable Energy, Climate and Environmental Sciences, Chemical Sciences, and Development of Small and Medium Enterprise (SME).

The Network has so far reached 22 Centers in 27 Member countries, mainly representing Bangladesh, China, Colombia, Egypt, Ghana, Iran, Jamaica, Jordan, Kazakhstan, Korea (DPRK), Nigeria, Pakistan, Philippines, Senegal, Sri Lanka, Sudan, Syria, Tanzania, Tunisia, Uganda and Zimbabwe. The COMSATS charter requires the CoEs to help developing countries in the South build and sustain a critical mass of world-class scientists and technologists and assist them in finding S&T-based solutions to sustainability issues. The Network follows an all-inclusive framework of activities that encompasses conferences and symposia on emerging sciences, training workshops and joint research on a diverse range of subjects of scientific nature.

A brief review of the activities of COMSATS Secretariat, its focal points and Centers of Excellence are presented in this booklet. It highlights of the major events organized/ sponsored by COMSATS in its different Centres of Excellence, focal points and in collaboration with other international partner organizations towards capacity building and exchange of technical knowledge. These activities have proved greatly helpful in enhancing the scientific proficiency, knowledge and expertise of the human resource in developing countries towards meeting their development needs. While strengthening institutional capacities in partner countries, the Centers have been providing excellent opportunities to the scientists to share scientific knowledge and learn from the expertise and experiences of their counterparts.

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People's Republic of Bangladesh



Joined as Member: 13 July 1995

Affiliated Centre of Excellence Bangladesh Council of Scientific and Industrial Research (BCSIR)



COMSATS organized **three** (3) capacity-building events, in which large number of scientists/ researchers/ academicians and relevant people from public and private sectors participated.

- International Training Workshop on Science Education for Sustainable Development, Dhaka, June 27-28, 2011
- Seventeenth Mathematical Conference, Dhaka, December 22-24, 2011
- International Workshop on Nanotechnology, September 21-23, 2012, Dhaka



Since joining COMSATS Network of International S&T Centre of Excellence in 2011, BCSIR has been attending meetings of Coordinating Council regularly. Further, BCSIR is an active member of COMSATS ITRGs on Climate Change and Environmental Protection and Mathematical Modeling.



COMSATS provided financial support to **thirty nine (39)** scientists/ professionals from Bangladesh, under its research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences.

People's Republic of China

Founder Member (1994)

Affiliated Centres of Excellence International Center for Climate and Environment Sciences (ICCES) & Tianjin Institute of Industrial Biotechnology (TIB)



COMSATS organized twenty eight (28) capacity-building events in China, for scientists/researchers/ academicians and relevant people from public and private sectors participated.





ICCES being the founder member of COMSATS Network hosted two meetings of Coordinating Council in 1999 and 2008, in addition to regular active participation in council meetings. ICCES is a lead centre of International Thematic Research Groups ITRG on Climate Change and Environmental Protection. TIB - a new member of the Network, hosted the 22nd meeting of Coordinating Council (16-17 April 2019).

In collaboration with China, COMSATS organized an Expo in 1999 in which 46 Chinese companies participated and showcased their products: textile, medical technology, solar technology and light engineering, etc.





COMSATS provided financial support to **Sixty Six (66)** scientists/professionals from China, under its research/ study and travel grants programme to scientists/ professionals from

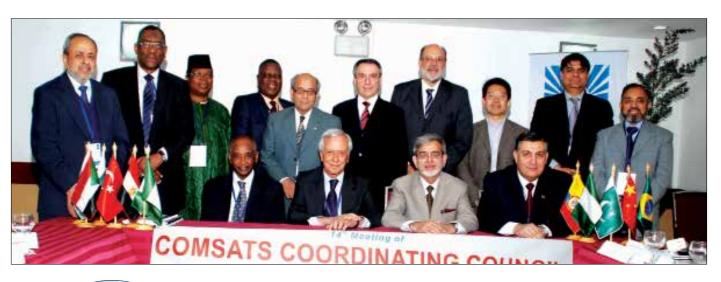
Member States for participation in international conferences.

Summary of COMSATS' Activities: 1994 - 2019

Republic of Colombia

Founder Member (1994)

Affiliated Centre of Excellence Centro Internacional de Fisica (CIF)



Colombia, being founder member of COMSATS, actively participated in the 2nd General Meeting of COMSATS held in Pakistan (2012). Since joining COMSATS Network of International S&T Centre of Excellence in 1996, CIF has participated in all meetings of Coordinating Council.

CIF hosted 14th meeting of COMSATS' Coordinating Council (2011) and has been participating in the coordinating council meeting regularly.

COMSATS provided financial support to One (1) scientists/professionals from Colombia, under its research/study and travel grants programme to scientists/ professionals from Member States for participation in international conferences.

Arab Republic of Egypt



Founder Member (1994)

Affiliated Centre of Excellence National Research Centre (NRC)



COMSATS organized **Twelve** (12) capacity-building events in Egypt. Large number of scientists/researchers/ academicians and relevant people from public and private sectors attended these events.

Some of the major events are listed below:

- International Workshop on Agro-food processing, December 3-7, 2005, Cairo
- International Workshop on Plant Biotechnology December 3-7, 2005, Cairo
- International Conference on Biotechnology, December 2006, Cairo, Egypt



NRC has been attending meetings of COMSATS Coordinating Council regularly. It hosted two meetings of the Council in 2005 and 2017.

NRC hosted a meeting of COMSATS Technical Advisory Committee (TAC) in 2005. NRC is also an active member of COMSATS ITRG on Agriculture, Food Security and Biotechnology



COMSATS provided financial support to Forty One (41)

scientists/professionals from Egypt, under its research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences.

Islamic Republic of the Gambia



Joined as Member: 17 May 2016



COMSATS organized following capacitybuilding event in Gambia:

 1st International Congress on Viruses and Vaccines in Tropical Areas, 11-12 October 2017, Sere Kunda, Gambia





Under COMSATS travel grant programme, a participant from Ministry of Trade, Gambia attended the Workshop on Metrology for Least Developed Countries (LDCs), November 26-27, 2018, Gebze Kocaeli, Turkey





Republic of Ghana

Founder Member (1994)



Affiliated Centre of Excellence Council for Scientific and Industrial Research (CSIR)



COMSATS organized **Three (3)** capacity-building events in Ghana, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated.

- National Training workshop on Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions and Small Scale Industries, 25-29 August, 2013
- Commercialization Fair for Research Scientists at CSIR-Ghana, November 18-20, 2015
- National Training Workshop on Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions, and Small Scale Industries, 12-16 October 2015



Being founder member of COMSATS Network of S&T Centres of Excellence, CSIR has been participating in the meetings of Coordinating Council. In 2013, CSIR hosted the 16th meeting of the Council.

The Government of the Republic of Ghana, being the Chairperson of the Commission hosted the 3rd General Meeting of COMSATS in 2015.

The 3rd meeting of the Consultative Committee was also hosted by the Government of Ghana in 2015.



Under COMSATS research/study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Eleven (11)** scientists/ professionals from Ghana.



Islamic Republic of Iran

Founder Member (1994)

Affiliated Centre of Excellence Iranian Research Organization for Science & Technology (IROST)

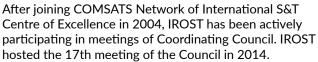


COMSATS organized **Eight (8)** capacity-building events in Iran, in which large number of scientists/researchers/ academicians and relevant people from public and private sectors participated.

Some of the events are listed below:

- International Microelectronics Conference, October 30 -November 1, 2002, Tehran, Iran
- 3rd International Nanotechnology Festival (Iran Nano 2010), October 25-29, 2010, Tehran, Iran
- Asia G-WADI Regional Training on "Climate Change Impacts on Water Resources Management in Arid and Semi-Arid Zones", June 21-23, 2011, Tehran, Iran.





IROST is an active member of COMSATS ITRGs on ICTs and Climate Change and Environmental Protection

COMSATS has been providing research and travel grants to scientists/ professionals from Member States for participation in international conferences. COMSATS provided financial support to **Twenty Seven (27)**



scientists/professionals from Iran.

Khwarizmi International Award (KIA): COMSATS has been sponsoring 1st and 2nd prize of annual Khwarizmi International Award since 1998.

Jamaica Founder Member (1994)



Affiliated Centre of Excellence International Centre for Environmental and Nuclear Sciences (ICENS)



Being a founder member of the Network of International S&T Centres of Excellence, ICENS has been actively participating in council meetings of COMSATS. Jamaica also participated in the 2nd General meeting of COMSATS, held in Pakistan (2012).



COMSATS has been providing research and travel grants to scientists/professionals from Member States to participate in international conferences. COMSATS provided financial support to **Five (5)** scientists/professionals from Jamaica.

Some of the events are listed below:

- 15th CTWF International Symposium on Atmospheric Aerosol (September 19-24, 2016), China, and
- International Lecture Courses on Atmospheric Aerosols (September 25-27, 2016), China



Hashemite Kingdom of Jordan



Founder Member (1994)

Affiliated Centre of Excellence Royal Scientific Society (RSS)



COMSATS organized **Three (3)** capacity-building events in Jordan, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated. Some of the events are listed below:

- 2nd COMSATS-ISESCO International Workshop on 'Internet Security: Enhancing Information Exchange Safeguards', 16-20 September 2012, Jordan
- 3rd International Workshop on Applications of ICTs in Education, Healthcare and Agriculture,2016, Amman

Under COMSATS scholarships/ fellowships programme to the students from Member States at its International S&T Centres of Excellence. Jordanian student over the years availed **One (1)** scholarship at CUI-Pakistan.



Being a founder member of the Network of International S&T Centres of Excellence, RSS has been actively participating in council meetings of COMSATS.

RSS has active collaboration with COMSATS' Centres of Excellence in Pakistan, HEJRIC after signing MoU in 2004.



Under COMSATS research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences, COMSATS provided financial support to **Thirty Three (33)** scientists/professionals from Jordan.



Republic of Kazakhstan

Founder Member (1994)



Affiliated Centre of Excellence Al-Farabi Kazakh National University (KazNU)



COMSATS organized **Two**

(2) capacity-building events in Kazakhstan, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated.

- "National Training Workshop on Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions, and Small Scale Industries, 2-6 October 2017, Almaty, Kazakhstan
- 7th International Workshop on 'Internet Security: Enhancing Information Exchange Safeguards', December 19-23, 2017, Almaty





After joining COMSATS Network of International S&T Centres of Excellence, KazNU has been actively participating in Councils meeting of COMSATS.

KazNU also hosted 21st meeting of Coordinating Council in 2018.

Under COMSATS research/study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Ten (10)** scientists/ professionals from Kazakhstan.



Democratic People's Republic of Korea Founder Member 1994





Due to international political issues Democratic People's Republic of Korea could not participate in the activities of COMSATS.

Kingdom of Morocco





COMSATS organized Five

(5) capacity-building events in Morocco, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated.

Some of the events are listed below:

- Second Meeting of the IWSN Coordinators of the Scientific Thematic Groups for Enhancing Cooperation among Islamic Countries, October 18-19, 2011, Rabat
- 2nd 3-day Regional Workshop on 'National Innovation System and Intellectual Property (African Region)', 25-27 November 2014, Rabat





After joining COMSATS on 14 July 2015, Kingdom of Morocco is an active member of COMSATS and has participated in the statutory meetings of COMSATS, i.e. 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee held in Ghana in 2015.

Under COMSATS research/ study and travel grants programme to scientists/ professionals from Member States for participation in international conferences. For Morocco, COMSATS provided financial support to **Four (4)** scientists/ professionals. Some of the events are listed below:

- Third International Workshop on Applications of ICTs in Education, Healthcare and Agriculture, May 31-June 1, 2016, Amman, Jordan
- The International Conference on Nanomaterials & Nano Ethics December 1-3, 2011, Lahore, Pakistan



Federal Republic of Nigeria



Founder Member (1994)

Affiliated Centre of Excellence National Mathematical Centre (NMC)



COMSATS organized **Nine (9)** capacity-building events in Nigeria, in which large number of scientists/researchers/ academicians and relevant people from public and private sectors participated. Some of the events are listed below:

- COMSATS-ISESCO National Workshop on Repair and Maintenance of Scientific Equipment in Universities, Research Institutes and Small Scale Industries, May 23-27, 2016, Enugu, Nigeria
- NMC-COMSATS International Conference on "Modeling and Simulation of Climate Change and Environmental Protection", December 1-2, 2014, Abuja

Under COMSATS scholarships/ fellowships programme to the students from Member States at its International S&T Centres of Excellence, **Sixteen (16)** Nigerian students availed scholarship at CUI-Pakistan.





Being founder member of COMSATS, Nigeria actively participated in the 2nd Meeting of COMSATS Consultative Committee held in 2013. Nigeria participated in 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee, in Ghana (2015). Nigeria also hosted 1st meeting of COMSATS Consultative Committee in 2009.

Being founder member of COMSATS Network of International S&T Centre of Excellence, NMC participated in a number of Coordinating Council meetings, and hosted 12th Meeting of COMSATS' Coordinating Council in 2009 in Abuja.

Under COMSATS research/ study and travel grants programme to scientists/professionals from Member States for participation in international conferences, COMSATS provided financial support to **Twenty Six (26)**

scientists/professionals from Nigeria.



Islamic Republic of Pakistan

Founder Member (1994)

Affiliated Centres of Excellence International Center for Chemical and Biological Sciences (ICCBS) & COMSATS University Islamabad (CUI)



COMSATS organized **One Hundred** and Sixty Nine (169) capacitybuilding events in Pakistan, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated. Some of the recent events are listed below:

- 20th Sustainable Development Conference (SDC) 'Seventy Years of Development: The Way Forward', December 5-7, 2017, Islamabad
- Seminar on SDGs Implementation: The Collaboration among Universities, December 12, 2018, Islamabad, Pakistan

Under COMSATS scholarships/ fellowships programme for students from Member States at its International S&T Centres of Excellence, **Three (3)** scholarships at ICCBS-Pakistan and **One (1)** at ICCES-China were availed.





Pakistan hosted the Foundation Meeting of COMSATS in 1994. it is also hosting the Secretariat of the Commission as a founder member.

Under COMSATS research/

study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to Two Hundred and Thirty One (231) scientists/ professionals from Pakistan.







COMSATS Internet Services (CIS): Started in 1996, CIS is the pioneer Internet Service Provider (ISP) of Pakistan. Currently, it is providing services in major cities of the country, including: Islamabad, Lahore, Karachi, Peshawar, Multan, Gujranwala, Sialkot, Faisalabad, Gujrat, Sukkur, Toba Tek Singh, Hasilpur, and Okara. CIS is a diversified ISP that offers Internet as well as data and cloud computing services to corporations, government, and academic institutions.

They also work for CIS Technology Park general welfare by providing tele-health services for rural and remote areas in Pakistan. CIS' telehealth services are operational through a network of a number of telehealth clinics across Pakistan. **COMSATS University Islamabad (CUI):** CUI was established in 1998 as a flagship project and acquired the degree-awarding status from the Government of Pakistan within two years. The institution that had started from a very small facility has phenomenally grown over the years to now have impressive campuses in seven cities, including: Islamabad, Lahore, Abbottabad, Wah, Attock, Sahiwal, Vehari.

It is now among the top five academic institutions of Pakistan. Having been granted a structure of fullfledged university, COMSATS Institute of Information Technology became COMSATS University Islamabad in 2018.



COMSATS Telehealth (CTH):

Being an ardent supporter of the use of ICT for development, COMSATS pioneered the Telehealth services in Pakistan. Since its launch in 2001, COMSATS has been actively engaged in the operational, awareness raising and collaborative activities for the communities, health professionals and other stakeholders within the country. Activities of COMSATS Telehealth in Pakistan can be summarized as:

Teleconsultations(Check-ups): More than 65000 Telehealth Clinics: 16 Specialties served: General Outpatient, Cardiology, Gastroenterology, Dermatology, Psychiatry, Pediatrics and Internal Medicine Partnerships and collaborations including MoUs and agreements: 9 Capacity building events and trainings (organized or co-organized): 10 Partnerships and collaborations through MoUs and agreements: 9

Some Other Projects

- Installation of Biogas Plants for Sustainable Rural Development with support from UNESCO (1998)
- Establishment of COMSATS-COMSTECH-MTM-IT Centre, Karachi (1999)
- Establishment of TWAS and TWNSO Regional office at COMSATS Secretariat, Islamabad (2000)
- Launching of Industrial Information Network (IIN) (2001)
- COMSATS-CERN-NCP Project for Data-Grid Applications and Physics Data Analysis (2003)
- French Online Distance Learning Program (2003)
- Launching of Project on ICTs for Rural Development of the Remote and Mountainous Areas of Northern Pakistan in collaboration with International Development Research Centre (IDRC) (2004)

State of Palestine



Joined as Member: 05 October 2015

Affiliated Centre of Excellence Al-Quds University





Palestine joined COMSATS as Member on 5th October 2015. Palestine is actively involved in COMSATS activities; participated in 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee in Ghana (2015).

After joining COMSATS Network of International S&T Centres of Excellence, Al-Quds University participated in 20th Meeting of COMSATS' Coordinating Council and 22nd Meeting of COMSATS' Coordinating Council.

Under COMSATS scholarships/fellowships programme to the students from Member States at its International S&T Centres of Excellence, Palestinian students over the years have availed **Two** (2) scholarships at CUI-Pakistan.



Under COMSATS research/study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Two (2)** scientists/ professionals from Palestine.

Some events are listed below:

- Third International Workshop on Applications of ICTs in Education, Healthcare and Agriculture, May 31-June 1, 2016, Amman, Jordan
- Second International Workshop on 'Application of ICTs in Education, Healthcare and Agriculture', November 23-25, 2015, Rabat, Morocco

Republic of the Philippines

Founder Member (1994)



Philippines joined COMSATS as founder member in 1994. After joining COMSATS, Philippines participated in statutory meetings of COMSATS, 2nd General Meeting of COMSATS, held in Paksitan (2012).

Philippines also participated in the 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee held in Ghana (2015).



COMSATS has been providing research/study and travel grants to scientists/professionals from Member States for participation in international conferences. COMSATS provided financial support to **Two (2)** scientists/professionals from Philippines.

Events are listed below:

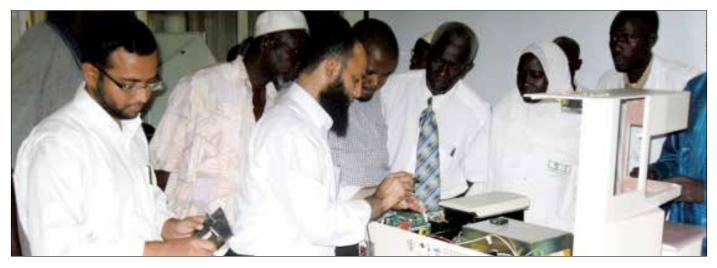
- International Scientific Spring (ISS) 2014, March 10-14, 2014, Islamabad, Pakistan
- International Workshop on Nanotechnology, September 21-23, 2012, Dhaka, Bangladesh

Republic of Senegal

Founder Member (1994)



Affiliated Centre of Excellence University Cheikh Anta Diop (UCAD)



COMSATS organized **Three (3)** capacity-building events in Senegal, in which large number of scientists/researchers/ academicians and relevant people from public and private sectors participated.

- National Workshop on Repair and Maintenance of Scientific Equipments in Teaching Research Institutions and Small Scale Industries
- International Conference on Optics and Lasers in Science and Technology for Sustainable Development, University Cheikh Anta Diop
- Seventh General Conference of the Third World Academy of Science



Senegal is an active member of COMSATS. It has been participating in statutory meetings of COMSATS, 2nd Meeting of COMSATS Consultative Committee (2013), 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee (2015)

Under COMSATS research/study and travel

grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Eight (8)** scientists/ professionals from Senegal. Some events are listed below:



- Workshop on Metrology for Least Developed Countries (LDCs), November 26-27, 2018, Gebze Kocaeli, Turkey
- Meeting on South-South and North-South Collaboration in Science and Technology: Present Scenario & Future Prospects, March 12-13, 2004, Islamabad, Pakistan

Federal Republic of Somalia

Joined as Member: 09 November 2017



Somalia joined COMSATS on 9 November, 2017.



Focal Point

H.E. Mr. Abdi Dahir Osman Minister of Education Ministry of Education, Culture and Higher Education Federal Republic of Somalia

Democratic Socialist Republic of Sri Lanka



Founder Member (1994)

Affiliated Centre of Excellence Industrial Technology Institute (ITI)



COMSATS organized **Six (6)** capacity-building events in Sri Lanka, in which large number of scientists/researchers/ academicians and relevant people from public and private sectors participated.

Some of the events are listed below:

- 16th Asian Symposium on Medicinal Plants, Spices and other Natural Products (ASOMPS XVI), December 12-14, 2018,
- Colombo, Sri Lanka
 1st Sri Lankan Asian Network of Research on Anti-diabetic Plants (ANRAP) Regional Seminar on "Herbal Approaches in Combating Diabetes and Common Tropical Diseases, January 17-19, 2018, Kandy Sri Lanka



Being a founder member, Sri Lanka participated in the 2nd General Meeting of COMSATS, 2nd Meeting of COMSATS Consultative Committee, 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee, Ghana.

After joining COMSATS International S&T Centres of Excellence, ITI participated in all meetings of Coordinating Council and hosted 18th Meeting of COMSATS' Coordinating Council in 2015.

ITI is also very active member of COMSATS' ITRG on 'Climate Change and Environmental Protection'.

Under COMSATS research/ study and travel grants programme to scientists/ professionals from Member States for participation in international conferences. For Sri Lanka, COMSATS provided financial support to **Forty Five (45)** scientists/professionals.



Republic of the Sudan

Joined as Member: 14 September 1999



Affiliated Centre of Excellence Industrial Research and Consultancy Centre (IRCC)



COMSATS organized **Ten (10)** capacity-building events in Sudan, in which large number of scientists/researchers/ academicians and relevant people from public and private sectors participated.

- 2nd International Conference on 'Agriculture, Food Security and Biotechnology', October 17-19, 2016, Khartoum, Sudan
- National Training workshop on Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutes and Small Scale Industries, August 18-22, 2013, Khartoum, Sudan

Under COMSATS scholarships/ fellowships programme, **Two** (2) students from Sudan studied at CUI-Pakistan.



After joining COMSATS, Sudan has been actively participating in statutory meeting of COMSATS; 2nd General Meeting of COMSATS (2012), 2nd Meeting of COMSATS Consultative Committee (2013), 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee (2015).

Being a member of COMSATS Network of International S&T Centres of Excellence, IRCC has been participating in council meetings.

IRCC is also member COMSATS' ITRGs on ICTs and 'Agriculture, Food Security, and Biotechnology



Under COMSATS research/ study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Thirty Seven (37)**

scientists/professionals from Sudan.



Syrian Arab Republic

* *

Joined as Member: 20 November 1996

Affiliated Centre of Excellence Higher Institute for Applied Science and Technology (HIAST)



COMSATS established I.T. Institute in Syria which was jointly inaugurated by the then President of Pakistan, Gen. Parvez Musharraf and President of Syria, Bashar al-Assad

COMSATS organized **Five** (5) capacity-building events in Syria, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated.

Under COMSATS scholarships/fellowships programme to the students from Member States at its International S&T Centres of Excellence. Syrian students over the years availed **13** scholarships at CUI-Pakistan.



Being a member of Network of International S&T Centres of Excellence, HIAST has been participating in coordinating council meetings of COMSATS.

Under COMSATS research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences, COMSATS provided

financial support to **Fourteen** (14) scientists/professionals from Syria. Some of the events are listed below:

- The International Conference on Nanomaterials & Nano Ethics, December 1-3, 2011, Lahore, Pakistan
- International Seminar on Physics in Developing Countries, July 27-28, 2005, Islamabad, Pakistan



United Republic of Tanzania

Founder Member (1994)

Affiliated Centre of Excellence Tanzania Industrial Research and Development Organization (TIRDO)



COMSATS organized 4th International Workshop on 'Internet Security: Enhancing Information Exchange Safeguards' October 19-23, 2014, Dar es Salaam, Tanzania



After joining COMSATS, Tanzania participated in the 2nd General Meeting of COMSATS (2012). TIRDO is an active member of COMSATS' ITRG on 'Natural Products Sciences', COMSATS' ITRG on ICTs and ITRG on 'Mathematical Modeling'.

COMSATS donated 'Adiabatic Bomb Calorimeter' to Tanzania Industrial Research and Development Organization (TIRDO), Tanzania, to support TIRDO in its endeavour to build the capacity of its laboratory. Equipment was manufactured by PCSIR Laboratory Complex, Lahore, Pakistan

To promote academic excellence, COMSATS has a scholarships/ fellowships programme to the students from Member States at its International S&T Centres of Excellence of Tanzanian student availed a scholarship at CUI-Pakistan.



Under COMSATS research/study and travel

grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **Nine** (9) scientists/professionals from Tanzania. Some of the events are listed below:

 Workshop on Metrology for Least Developed Countries (LDCs), November 26-27, 2018, Gebze Kocaeli, Turkey



Republic of Tunisia

Founder Member (1994)

Affiliated Centre of Excellence Water Research and Technologies Centre (CERTE)



COMSATS organized **Five (5)** capacity-building events in Tunisia, in which large number of scientists/ researchers/academicians and relevant people from public and private sectors participated.

Some of the events are listed below:

- 3rd International Conference on Advanced Oxidation Process for Sustainable Water Management, November 2-4, 2017, Hammamet Tunisia
- Third 3-day Regional Consultative Workshop on National Innovation System and Intellectual Property (Arab Region), October 5-7, 2015, Tunis, Tunisia



Tunisia participated in the 2nd General Meeting of COMSATS (2012). After joining COMSATS Network of International S&T Centres of Excellence, CERTE is actively participating in coordinating council meetings of COMSATS. CERTE is also member of COMSATS' ITRG on 'Natural Products Sciences'.



Under COMSATS research/ study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to **One (1)** scientist/ professional from Tunisia.

C

 2nd Meeting of COMSATS Technical Advisory Committee, November 15 2017, Trieste, Italy

Summary of COMSATS' Activities: 1994 - 2019

Republic of Turkey

Joined as Member: 31 August 2012



Affiliated Centre of Excellence The Scientific and Technological Research Council of Turkey (TUBITAK)



COMSATS organized Nine

(9) capacity-building events in Turkey for the benefits of scientists/ researchers/academicians and relevant people from public and private sectors.

Some of the recent events are listed below:

- Workshop on Metrology for Least Developed Countries (LDCs), November 26-27, 2018, Gebze Kocaeli, Turkey
- Fifth International Workshop on 'Internet Security: Enhancing Information Exchange Safeguards', September 14-18, 2015, Ankara, Turkey



After joining COMSATS as member, Turkey participated in the 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee (2015)

MAM-Turkey is an active member of COMSATS Network of International S&T Centres of Excellence. MAM has participated in all Council meetings after joining the Network.

MAM also hosted the 15th Meeting of COMSATS' Coordinating Council in 2012. MAM joined COMSATS' ITRG on 'Natural Products Sciences' and participated in all meetings of the Group.





Under COMSATS research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences, COMSATS provided financial support to **Six** (6) scientists/professionals from Turkey..

Republic of Uganda Founder Member (1994)





Uganda is the founder member of COMSATS. After joining COMSATS, Uganda has participated in 2nd Meeting of COMSATS Consultative Committee (2012), 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee (2015), in Accra, Ghana.



Under COMSATS research/study and travel grants programme to scientists/ professionals from Member States for participation in international conferences, COMSATS provided financial support to 8 scientists/professionals from Uganda.

Some of the events are listed below:

- Workshop on Metrology for Least Developed Countries (LDCs), November 26-27, 2018, Gebze Kocaeli, Turkey
- 2nd 3-Day Regional Workshop on National Innovation Systems and Intellectual Property (African Region), November 25-27, 2014, Rabat, Morocco
- International Training Workshop on "Extreme Weather and Climate Events, July 14-23, 2013, Beijing, China
- International Workshop on Nanotechnology in the Edge of Convergence November 24-27, 2011, Selangor, Malaysia
- 10th CAS-TWAS-WMO FORUM: International Training Workshop on Regional Climate Change and Its Impact Assessment, September 26-29, 2011, Beijing, China

Republic of Yemen Joined as Member: 06 November 2018



Yemen has recently joined COMSATS on 6 November, 2018.



Focal Point

Prof. Dr. Hussein Basalamah Minister Ministry of Higher Education and Scientific Research Sana'a, Republic of Yemen

Republic of Zimbabwe



Founder Member (1994)



After joining COMSATS, Zimbabwe has been regularly participating in statutory meetings of COMSATS, 2nd General Meeting of COMSATS (2012) in Islamabad, Pakistan, 3rd General Meeting of COMSATS and 3rd Meeting of COMSATS Consultative Committee in Accra, Ghana.

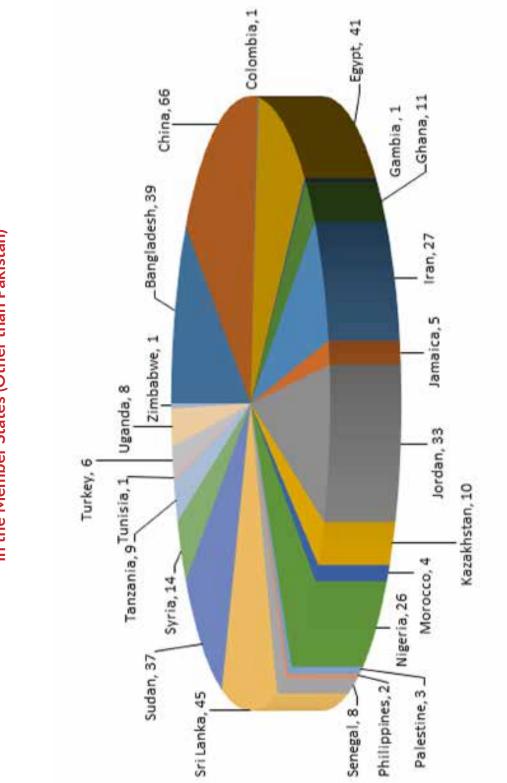
Under COMSATS research/study and travel grants programme to scientists/professionals from Member States for participation in international conferences, COMSATS provided financial support to One (1) scientist/professional from Zimbabwe for participation in the Foundation Meeting of COMSATS' Thematic Research Group on Climate Change and Environmental Protection, Novermber 20, 2010, Beijing, China

Focal Point

Hon. Prof Amon Murwira Minister Ministry of Higher and Tertiary Education, Science and Technology Development Harare, Republic of Zimbabwe

Sponsorships Provided by COMSATS to Scientists/Researchers from COMSATS Member States to participate in Capacity Building Activities (Other than the host country, i.e. Pakistan)

| Country | Numbers of Sponsorships | Amount (\$) |
|-------------|-------------------------|-------------|
| Bangladesh | 39 | 39,094 |
| China | 66 | 86,533 |
| Colombia | 1 | 2,686 |
| Egypt | 41 | 62,327 |
| Gambia | 1 | 1,465 |
| Ghana | 11 | 14,575 |
| Iran | 27 | 22,159 |
| Jamaica | 5 | 12,762 |
| Jordan | 33 | 30,828 |
| Kazakhstan | 10 | 8,243 |
| Morocco | 4 | 3,923 |
| Nigeria | 26 | 37,781 |
| Palestine | 3 | 3,610 |
| Philippines | 2 | 3,015 |
| Senegal | 8 | 8,937 |
| Sri Lanka | 45 | 33,383 |
| Sudan | 37 | 36,063 |
| Syria | 14 | 10,739 |
| Tanzania | 9 | 12,126 |
| Tunisia | 1 | 740 |
| Turkey | 6 | 4,570 |
| Uganda | 8 | 10,707 |
| Zimbabwe | 1 | 1,162 |
| Grand Total | 398 | 447,429 |

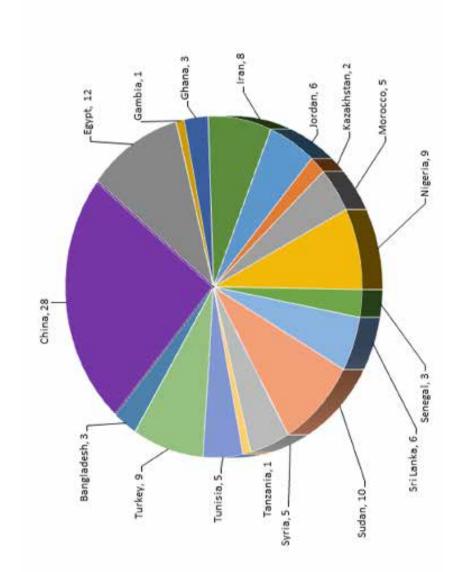




Capacity Building Activities Organized/Sponsored by COMSATS in the Member States (Other than Pakistan)

| Country | No. of Events | Amount (US\$) |
|-------------|---------------|---------------|
| Bangladesh | 3 | 13,967 |
| China | 28 | 96,571 |
| Egypt | 12 | 60,028 |
| Gambia | 1 | 5,499 |
| Ghana | 3 | 12,253 |
| Iran | 8 | 16,168 |
| Jordan | 6 | 25,014 |
| Kazakhstan | 2 | 17,881 |
| Morocco | 5 | 36,649 |
| Nigeria | 9 | 33,442 |
| Senegal | 3 | 9,986 |
| Sri Lanka | 6 | 10,872 |
| Sudan | 10 | 42,187 |
| Syria | 5 | 27,485 |
| Tanzania | 1 | 11,688 |
| Tunisia | 5 | 28,671 |
| Turkey | 9 | 31,712 |
| Grand Total | 116 | 480,072 |

Capacity Building Activities Organized/Sponsored by COMSATS in the Member States (Other than Pakistan)



Centres of Excellence







CSIR-Ghana





CUI-Pakistan



UCAD-Senegal



Agrobiologia Embrapa Agrobiologia-Brazil





IROST-Iran



KazNU-Kazakhstan





ITI-Sri Lanka





CERTE-Tunisia



ICCES-China







NMC-Nigeria



AQU-Palestine



IRCC-Sudan









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