



REGIONAL OFFICE FOR AFRICA

# ANNUAL REPORT 2016/17

Strengthening international science  
for the benefit of society



**INTERNATIONAL  
COUNCIL  
FOR SCIENCE**



# REGIONAL OFFICE FOR AFRICA ANNUAL REPORT 2016/2017



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# ACRONYMS

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<b>AfRP</b>	Africa Regional Platform	<b>ISSC</b>	International Social Science Council
<b>AIMS</b>	African Institute of Mathematical Sciences	<b>IUCr</b>	International Union of Crystallography
<b>AMASA-12</b>	12 <sup>th</sup> Annual Meeting of African Science Academies	<b>IUGS</b>	International Union of Geological Sciences
<b>APP</b>	Annual Performance Plan	<b>NEPAD</b>	New Partnership for Africa's Development
<b>ASSAf</b>	Academy of Science of South Africa	<b>NASAC</b>	Network of African Science Academies
<b>CSIR</b>	Council for Scientific and Industrial Research	<b>NRF</b>	National Research Foundation of South Africa
<b>DEA</b>	Department of Environmental Affairs, South Africa	<b>PCCr1</b>	1 <sup>st</sup> Pan African Conference of Crystallography
<b>DST</b>	Department of Science and Technology, South Africa	<b>PharA</b>	Pharmacology for Africa
<b>GA</b>	General Assembly	<b>SADC</b>	Southern Africa Development Community
<b>HSRC</b>	Human Sciences Research Council	<b>SDGs</b>	Sustainable Development Goals
<b>IAP</b>	Inter-Academy Partnership	<b>SFSA2016</b>	Science Forum South Africa 2016
<b>ICSU</b>	International Council for Science	<b>Sida</b>	Swedish International Development Agency
<b>ICSU EB</b>	International Council for Science Executive Board	<b>S&amp;T</b>	Science and Technology
<b>ICSU RCA</b>	International Council for Science Regional Committee for Africa	<b>STI</b>	Science, Technology and Innovation
<b>ICSU ROA</b>	International Council for Science Regional Office for Africa	<b>STEM</b>	Science, Technology, Engineering and Mathematics
<b>IMU</b>	International mathematical Union	<b>STISA 2024</b>	Science, Technology and Innovation Strategy for Africa 2024
<b>INGSA</b>	International Network on Government Science Advice	<b>UNECA</b>	United Nations Economic Commission for Africa
<b>IRDR</b>	Integrated Research on Disaster Risk	<b>UNESCO</b>	United Nations Educational, Scientific and Cultural Organisation

ICSU's Mission, Vision and Focal Areas

Message from the Chair of the Regional Committee for Africa

Regional Director's Overview

Executive Summary



# ICSU'S MISSION, VISION AND FOCAL AREAS

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## Mission

International Council for Science (ICSU) endeavours to strengthen international science for the benefit of society through mobilising knowledge and resources of the international science community. To this end, ICSU seeks to: identify and address major issues of importance to science and society; facilitate interaction amongst scientists across all disciplines and from all countries; promote the participation of all scientists in the international scientific endeavour; and provide independent, authoritative advice to stimulate constructive dialogue between the scientific community and governments, civil society, and the private sector.

## Vision and focal areas

ICSU's long-term strategic vision is for a world where science is used for the benefit of all, excellence in science is valued and scientific knowledge is effectively linked to policy making and implementation. To achieve this, ICSU identified key priorities and associated activities that focus on three areas: International Research Collaboration; Science for Policy; and Universality of Science.

## ICSU Regional Office for Africa

The ICSU Regional Office for Africa (ROA) is mandated to fulfil ICSU's mission on the African continent through promoting, facilitating and coordinating activities of the ICSU Family in the region. The Regional Office endeavours to promote the development and strengthening of science in the context of regional priorities, and to bring the scientific activities and programmes of the ICSU Family closer to the African scientists through intergraded multi-disciplinary and trans-boundary collaborative research.

# MESSAGE FROM THE CHAIR OF THE REGIONAL COMMITTEE FOR AFRICA

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In line with its core mandate, the ICSU Regional Committee for Africa (ICSU RCA) provided strategic guidance and direction to the programmes and activities of the ICSU Regional Office for Africa (ICSU ROA) in the year under review. Members of the Committee participated in the twice- annually meetings held in September 2016 and March 2017, during which they reviewed and made input to the projected programmes and activities of the Office as outlined in the Draft Annual Performance Plan(APP) and Budget for the 2016/17 financial year.

The RCA17 meeting, which was held in September 2016 in Pretoria was climaxed with a Science Seminar on the Sustainable Development Goals and Agenda 2063, organised in conjunction with the Human Sciences Research Council (HSRC) of South Africa. Two RCA members gave presentations during the seminar. The Committee had its 18<sup>th</sup> meeting in Lusaka, Zambia in March 2017, attended by most members, which also ended with a Science Seminar that was officially open by the Minister of Higher Education if Zambia.

Following up on the achievements of the previous years, which have been marked by the establishment of research consortia to develop research projects from ICSU ROA Science Plans, the Office continued to bring together scientists in the region through a number of activities. To ensure that the activities derived from the Science Plans reflect current/ emerging global and regional trends in each thematic area, it became necessary to review and update the Science Plans. The review also sought to align the Science Plans with ICSU global programmes. During the 2015/16 financial year, the Office triggered and coordinated the Science Plans review process which was carried out in two phases: an electronic consultation and a physical workshop.

With strong support from the ICSU RCA, the revised Africa Science Plans were finally published within the financial year. Under the Committee's guidance as well, another book publication of the Office titled Natural and Human-induced hazards and Disasters in Africa went through successfully.

The ICSU RCA commends the ICSU ROA for ably stemming the tide and holding the fort when its former Director, Edith Madela-Mntla left ICSU ROA in mid-June 2016, followed by Hazael Naidoo, the Administrative Assistant at the end of June 2016. The subsequent appointment of Daniel Nyanganyura



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as Regional Director; Lerato Portia Mmatloa as Administrative Assistant as well as Nomasomi Gasa as Project Coordinator for the Leading Integrated Research for Agenda 2030 in Africa (LIRA 2030) programme with additional responsibility for other core ICSU ROA activities, ensured a return to stability in the Office's staff activities.

The ICSU RCA continues to appreciate the involvement of the Office in several scientific initiatives with African and international partners on various projects and programmes, particularly in promoting the activities of the ICSU Family in Africa. The Committee further recognises and encourages the Regional Office's continuous engagement of African governmental bodies and policy institutions.

The on-going merger between ICSU and the International Social Science Council (ISSC) is of great interest and concern to the RCA members especially with its uncertain views and opinion on the role and strategic directions of the Regional Offices, especially ICSU ROA. The transitory nature of envisaged arrangements also seems to throw off-gear the process of search for next host for the Office when the current hosting period under ASSAf expires in March 2020.

As a Regional Committee, we pledge our resolve to harness and leverage additional support from other African governments, as well as from partners within and outside Africa, for the successful implementation of ICSU ROA's activities in the years ahead. I cannot end this address without commending and appreciating the Government of South Africa, through the DST, the NRF and ASSAf in supporting and sustaining the operations of ICSU ROA.

**Professor Samuel Babatunde Agbola**  
Chair, ICSU Regional Committee for Africa



## REGIONAL DIRECTOR'S OVERVIEW

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The activities of the ICSU Regional Office for Africa (ICSU ROA) continued growing in the 2016/17 financial year as the Regional Office was turning eleven years since it was inaugurated on 01 September 2005.

A lot was achieved in the financial year under review but the main engine driving us along the road towards success stories is our sound partnership with science, technology and innovation (STI) organizations and institutions working on sustainable growth and development in Africa as well as with the intergovernmental regional and continental bodies.

Those the Regional Office has seen staff movements during the 2016/17 financial year, the overall activities of the Office have been achieved thanks to the commitment of the staff as well as the support from main stakeholders and the ICSU Family at continental and regional levels. This has been reflected through the achievement of the planned activities of the Regional Office.

The revised versions of the four ICSU ROA Science Plans were printed in March 2017 after having gone through an extensive review process by regional scientists and an editorial process by an external editor. These documents are being shared with scientists and other stakeholders - the electronic versions are available on the Office's website. To implement the science plans, respective research consortia members and been working on developing research proposals from these documents and submit them for funding. One such proposal has benefited from the Leading Integrated Research for Agenda 2030 in Africa (LIRA2030) programme. We continue to encourage the scientists from the region to work together to develop high impact trans-disciplinary multi-institutional research project to attract both local and international funding. To this end, a process to establish regional research team has been triggered and coordinated through the African Science Plan Steering Committee. ICSU ROA is preparing guidelines for the preparation of project proposals from the science plans.

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In seeking to increase the production of high quality, integrated, solutions-oriented research on global sustainability by early career scientists on the continent during the financial year under review, ICSU ROA actively played a role in the implementation of LIRA2030, a Swedish International Development Cooperation Agency (Sida) programme that is run by ICSU in strong partnership with the Network of African Science Academies (NASAC) and the International Social Science Council (ISSC). Nine research projects have been identified for funding starting in January 2017 and ten more will be identified in the 2017/18 financial year.

Another major achievement in the year under review was the successful organization of a number of meetings that included: Mid-GA National Members and Scientific Unions' Meeting (June, 2016, Johannesburg, South Africa), where fourteen African National Members and eleven International Scientific Unions were represented as well as the Integrated Research on Disaster Risk (IRDR) and ASSAf (the host organisation of the Office); the 2nd African Future Earth Committee Meeting held in December 2016, in Pretoria, South Africa and was attended by most members of this Committee as well as the representatives from the Future Earth Global Secretariat, Future Earth Science Committee and the Department of Science and technology of South Africa; and the 3rd African Science Plans Steering Committee Meeting that was held back-to-back with the Science Plans Scoping Workshop, which were held in Maputo, Mozambique, in February 2017. The Scoping Workshop, which organised in collaboration with the Scientific Research Association of Mozambique (ICSU National Member in Mozambique), was officially opened by the Honourable Minister of Science and Technology, Higher and Technical Vocational Education of the Republic of Mozambique, Prof Jorge Nhambiu.

To get strategic guidance and direction from the ICSU Regional Committee for Africa (RCA), the 17th and 18th RCA meetings, were organised in Pretoria, South Africa, in September 2016, and in Lusaka, Zambia, in March 2017, respectively. As has been the norm to improve the visibility of ICSU and create a platform for RCA Members to interact with local scientists and government official, a science seminar was organised as a side event for each of these RCA meetings. The Zambian science seminar was officially opened by the Honourable Minister of Higher Education of Zambia, Prof Nkandu Luo.

In striving to work at the intersection of science and policy to ensure that science is integrated into international policy development, and that relevant policies take into account both scientific knowledge and the needs of science, ICSU ROA has worked with other partners to establish and support the activities of the Africa Chapter of the International Network for Government Science Advice (INGSA-Africa). A Steering Committee of INGSA-Africa was established and the Regional Office has played a leading role as the Committee's Secretariat. This initiative seeks to promote dialogue and shared understanding between the scientific community, policy makers and society more broadly.

We have also worked hand-in-glove with ASSAf, the host of the Regional Office to reach out to the African Parliamentarians through the NEPAD Offices in Midrand, South Africa; and with the government of South Africa, through the DST, to reach out to reach out to SADC. Also in the 2017.18 financial year, ICSU ROA continued working with its old and new partners in promoting and facilitating the development of STI on the continent, which included UNESCO Regional Office for Africa and United Nations Economic Commission for Africa (UNECA). In the



year under review, ICSU ROA succeeded in expanding its S&T network of implementers of its activities through expanding its database of African scientists.

The website and electronic mailing list of ICSU ROA continue being important conduits for dissemination and accessing regional (Africa) and international S&T information. During the 2016/17 financial year, the staff of ICSU ROA continued receiving invitations to many regional (Africa) and international conferences where they delivered lectures on S&T. The staff also staged exhibitions and dissemination of printed ICSU ROA documents at some selected conferences held in Africa.

We would like to register our great appreciation and gratitude to our sponsors in the 2016/17 financial year, notably, the Department of Science and Technology (DST) and the National Research Foundation (NRF) of the Republic of South Africa, and to our host, the Academy of Science of South Africa. Members of the ICSU Regional Committee for Africa, the staff members at the Regional Office and the staff at the host institution (ASSAf) deserve our sincere gratitude for the excellent work done in the 2016.17 financial year, without they support, the Office could not have achieved its targets. We are entering the new financial year of 2017/18 remaining mindful of the importance of the continued effort to utilize S&T for the benefit of society in Africa. The Regional Office's probity will always remain towards this cause for the benefit of the entire humanity.

*"Nothing in science has any value to society if it is not communicated, and scientists are beginning to learn their social obligations - Anne Roe"*

**Daniel Nyanganyura (PhD)**

Regional Director, ICSU Regional Office for Africa

# EXECUTIVE SUMMARY

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## Implementation of ICSU ROA Science plans

The publication of the revised Africa Science Plans in March 2017 rejuvenated the implementation of these Science Plans which is core to ICSU ROA's scientific activities. Both the 3rd Africa Science Plans Steering Committee Meeting and Africa Science Plans Scoping Workshop held in Mozambique in February served as platforms for relaunch of implementation activities. Project Concepts were outlined by all four Science Plan consortia to be developed into full proposals as and when required by Grant calls.

## Capacity Development

The financial support and coordinating role of the Office for the activities of the Africa Chapter of International Network on Government Science Advice (INGSA-Africa) has boosted capacity development activities on the continent. Members of the Steering Committee has through the support of ICSU ROA provided training on science advice at the Science Forum South Africa in December 2016 and the African Science Leadership Programme's mini-workshop in February 2017, both in Pretoria.

Involvement of the Office in the African Institute of Mathematical Sciences/International Mathematical Union (AIMS/IMU) Global Change Impact on Diseases and Alien Species Expansion Workshop in Muizenberg, Cape Town in May 2016, was yet another effort to promote capacity building for young scientists to equip them to contribute meaningfully to Africa's scientific development.

The Office also financially supported three early career scientists from Algeria, Rwanda and Tanzania to participate in the IUGS 35th International Geological Congress held in Cape Town, South Africa from 27 August to 4 September 2016, and make presentations on their research activities

## Publications and General Communication

The drive to improve the visibility of ICSU in Africa as well as the works of the African scientific community in the region continued through various avenues. Besides presenting ICSU programmes and activities at major regional and international events, the Office finalized the publication of its book on Natural and Human-induced Hazards and Disasters in Africa, in April 2016, in collaboration with the Human Sciences Research Council (HSRC) of South Africa. Manuscripts of other books on African Indigenous Medical Knowledge and Human Health, Food and Nutrition Security in Africa, Africa Climate Variability and Change, and Energy Technology and Utilisation in Africa were also substantially developed with some being submitted for publication.

Other traditional communication tools of the Office such as posting information at its interactive website, the electronic mailing systems, exhibition of materials at regional and international scientific events held in the region as well as public lectures were again effectively deployed to reach out to the general public on the continent.



Organisation and Governance

Scientific Activities



# ORGANISATION AND GOVERNANCE

## 1.1 Office Personnel

ICSU ROA has seen staff movements during the 2016/17 financial year. Dr Edith Madela-Mntla left the ICSU ROA in mid-June 2016, and Ms Hazael Naidoo, the Administrative Assistant, left end of June 2016. Dr Daniel Nyanganyura was requested to act in the position of Regional Director and was officially appointed in February 2017. Ms Lerato Portia Mmatloa was recruited to fill the position of Administrative Assistant in October 2016, while Ms Nomasomi Gasa was appointed in February 2017 as Project Coordinator for the Leading Integrated Research for Agenda 2030 in Africa (LIRA2030) programme in February 2017.

## 1.2 Operations

The Annual Performance Plan (APP) and Budget for 2016/17 was finalised and signed off by the relevant authorities, and submitted to the DST in July 2016.

The first draft of the 2017/18 APP and Budget was submitted and discussed during the 17th Meeting of the ICSU Regional Committee early September; the revised version with strategic input from RCA members was presented to the ASSAf Council in October 2016.

To foster good working relations with the host, regular operational meetings have been instituted to be held between the management teams of ICSU ROA and ASSAf, the first two having taken place in July and August 2016. Follow-up meetings with individual units of the Academy are also held as and when necessary to address specific items/issues. To try and align the activities of the Office with those of the host institution as well



as explore synergies, strategic meetings between ASSAf and ICSU ROA have been scheduled for every quarter.

## 1.3 ICSU Regional Committee for Africa

The reconstituted RCA has since March 2016 held two more meetings to offer strategic guidance to the projected programmes and activities of the Office. The 17th RCA meetings was held in Pretoria, South Africa, in September 2016, while the 18th RCA meeting was held in Lusaka, Zambia, in March 2017. Attendance was overall, encouraging.



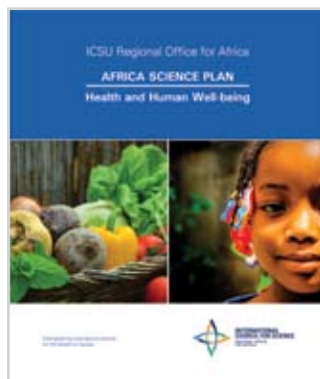
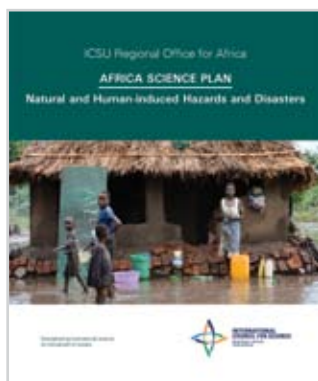
# SCIENTIFIC ACTIVITIES

## 2.1 Publications and General Communication

### 2.1.1 Publications

#### African Science Plans

The process to revise the Science Plans that commenced early 2015 culminated in the printing of the revised versions of the documents in March 2017. These documents are being shared with scientists and other stakeholders and the electronic versions are available on the Office's website.



These documents were revised to reflect the new developments in the global research agenda, and take into consideration the new thinking of promoting transdisciplinary collaborative research and new international programmes, especially the Future Earth initiative. The review process also took cognisance of the post Rio+20 Agenda, the Sustainable Development Goals (SDGs), and the Science, Technology & Innovation Strategy for Africa 2024 (STISA 2024).

#### Book publication

The ICSU ROA-commissioned book titled 'Natural and Human-Induced Hazards and Disasters in Africa', was published in April 2016 in collaboration with the Human Sciences Research Council (HSRC) of South Africa.



The book highlights the natural and human-induced environmental hazards which are becoming increasingly prominent in Africa as well as the factors that contribute to Africa's high vulnerability to disasters. It highlights the need for a collaborative effort of the African scientific community to develop comprehensive long-term strategies and human capacity building initiatives that will enable science to benefit society.

### 2.1.2 General Communication

As usual, the Office throughout the financial year used several avenues to reach out to the general public. This included its interactive website content, electronic mailing systems, exhibitions and presentations on its programmes and activities at regional and international scientific and/or policy events.



# SCIENTIFIC ACTIVITIES (CONTINUED)

## ICSU ROA Website

The ICSU ROA website which is part of the bigger ICSU Secretariat website is designed and managed from Paris. The Regional Office, however, regularly updates the content of this website by posting general information on its own activities, those of the ICSU Family in Africa, its partners as well as information that is relevant to the African scientific community at large.

## Electronic mailing

ICSU ROA's extensive and dynamic electronic mailing list serves as a vehicle to disseminate relevant information to its partners, stakeholders and networks as well as the ICSU Family in and outside Africa. Scientific information gathered by the Office from entities outside the continent, is in turn, made available to the African scientific community through this mailing system.

## Marketing the Office

The programmes and activities of the Office continued to be effectively marketed using its branded flyers, banners, posters and folders during organised/co-organised scientific and stakeholder workshops, conferences and seminars.

## 2.2 Events Organised

### African National Members and Scientific Unions' Meeting

The Mid-ICSU General Assembly meeting of African National Members and Scientific Unions took place from 2 to 3 June 2016 in Johannesburg, South Africa. Fourteen African National Members and eleven representatives from International Scientific Unions attended this meeting. Representatives from the

Integrated Research on Disaster Risk programme and the Academy of Science of South Africa (ASSAf) were also in attendance. The meeting deliberated upon several issues including the hosting of the ICSU ROA by ASSAf; sustaining the mandate of the ICSU ROA; composition of the ICSU Regional Committee of Africa (RCA); Science Plans review; membership expansion; communication between the ICSU Secretariat, ICSU ROA and the African ICSU representatives; Future Earth; Disaster Risk Management in Africa; Leading Integrated Research for Agenda 2030 in Africa (LIRA2030); decisions and actions of the 31st ICSU General Assembly; and participation in the extraordinary ICSU General Assembly in Norway.

### ICSU Regional Committee Meetings

The 17th and 18th RCA meetings, which were attended by most of the committee members, were held in Pretoria, South Africa, on 7 – 8 September 2016, and in Lusaka, Zambia, on 13 – 14 March 2017, respectively. Important strategic decisions about ICSU ROA's activities and budget were taken.





### Science Seminar on Sustainable Development Goals and Agenda 2063

This science seminar on Sustainable Development Goals and Agenda 2063 was held at the Human Sciences Research Council (HSRC) offices on 6 September 2016 as a side-event of the RCA17. It was organised by the in collaboration with the HSRC. The theme of the seminar was Sustainable Energy, Disaster Risk Reduction, and Global Environmental Change in Africa: Challenges and Opportunities. The ICSU ROA-commissioned book titled '*Natural and Human-Induced Hazards and Disasters in Africa*', which was published in April 2016, was launched during the science seminar.

### Science and Meteorology Seminar

A one-day science seminar on the Role of Science and Meteorology in Sustainable Development, was co-organized and host-

ed by ICSU ROA, the Zambian Ministries of Higher Education and Transport and Communication, and Mulungushi University, on 15 March 2017. It followed the 18th Meeting of the ICSU RCA held in Lusaka, Zambia. The event attracted scientists from several Zambian academic and research institutions, as well as senior government officials. The seminar provided a platform for local scientists to interact with and share best practices with the ICSU RCA members. Seminar presentations and deliberations focused on the role of science and meteorology in sustainable socio-economic development. It was officially opened by the Zambian Minister of Higher Education, Prof Nkandu Luo.

### African Future Earth Committee Meeting

The 2nd African Future Earth Committee Meeting was held on 6 - 7 December 2016, in Pretoria, South Africa, and was attended by representatives from the Future Earth Global Secretariat,

Future Earth Science Committee and the DST. The discussions were focused around the architecture of Future Earth in Africa and the Future Earth science agenda on the continent.



### Steering Committee Meetings of Africa Chapter of International Network for Government Science Advice (INGSA-Africa)

A meeting of the Steering Committee Members of the Africa Chapter of the International Network for Government Science Advice (INGSA) took place from 8 to 9 December 2016 in Pretoria as a side-event during the Science Forum South Africa 2016 (SFSA2016). The INGSA Steering Committee Members were active during the Science Forum. Supported by Dr Heide Hackmann, Executive Director of ICSU, two members, Dr M Oladoyin Odubanjo and Dr Tolullah Oni, made presentations on Defining the Principles and Guidelines of Science Advice. Dr Oni, Dr Renee Street and Christian Acemah jointly moderated a session on Science Advice in Africa: Exploring Case Studies for Contextual Capacity Building. Prof Sameh Soror, another Committee Member was a panellist of the Inter-Academy Partner-

ship (IAP) Science Talk on Supporting Africa's Commitments to Global and Regional Policy Frameworks: A New Inter-Academy Project. At the end of the Forum, INGSA was honoured with the Science Diplomacy Award SFSA2016. ICSU ROA is the Secretariat of the Steering Committee and host of the INGSA Africa Chapter.



Some members of the Steering Committee also attended the INGSA Francophone Africa capacity building workshop in Dakar, Senegal in March 2017, and the INGSA mini-workshop of the Africa Science Leadership Programme held in Pretoria.







### African Science Plans Steering Committee Meeting

The 3rd African Science Plans Steering Committee meeting was held in Maputo, Mozambique on 7 February 2017 and attended by most of the Committee members. Inputs were made on the finalisation of the revision process of the African Science Plans and the roll-out of projects arising from these documents as well as plan for the Scoping Workshop.



### African Science Plans Scoping Workshop

An African Science Plans Scoping Workshop was organised in conjunction with the Scientific Research Association of Mozam-

bique in Maputo, Mozambique, from 8 to 9 February 2017. The workshop was officially opened by the Minister of Science and Technology, Higher and Technical Vocational Education of the Republic of Mozambique, Prof Jorge Nhambiu. It was attended by local scientists and senior government officials that included the Deputy Minister for Transport and Communication, and a representative of the Governor of Maputo City.



## 2.3 Events Attended

One-day workshop at the Pan-African Parliament with the Committee on Transport, Industry, Communication, Energy, Science and Technology, Midrand, South Africa, 2 August 2016

The workshop was organised by ASSAf. ICSU ROA was invited to attend on behalf of the ICSU Executive Director and the Office gave a presentation on the activities of ICSU and its Regional Offices, particularly, in Africa. Following this event, a press release was issued jointly by the DST, ASSAf, NASAC and ICSU.

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### National Research Workshop on Air Pollutant Chemistry and Emissions Management, DEA Offices, Pretoria, South Africa, 12 August 2016

The event, which explored avenues to support the effective development and implementation of air quality management policies in South Africa, was organised by the Department of Environmental Affairs of South Africa. The Regional Office's participation and intervention during the workshop highlighted the air quality issues from a regional perspective as well as how South African air pollution scientists/experts can, while fulfilling their national mandate, can impact the regional research agenda and tap into resources available in the region.

### Research and Innovation Outcomes, Science, Engineering and Technology Week, National University of Science and Technology, Bulawayo, Zimbabwe, 30 August – 3 September 2016

The main purpose of the meeting was to provide a platform for experts/scientists from Universities and Tertiary Institutions (from within and outside Zimbabwe) to share their research and intellectual outcomes on the broad theme of the exposition, the greater part of promotion of public/private sector awareness of the role of Science, Technology, Engineering and Mathematics (STEM) in development remained unattended. The participation of the Office at this meeting gave us an opportunity to meet and interact with other experts, stakeholders and partners influencing and as well as linking regional scientists to ICSU global programmes, especially the Future Earth Initiative.

### Future Earth Scoping Workshop, 14 September 2016, CSIR International Convention Centre, Pretoria, South Africa

The event, organised by the DST, brought together national scientists working on Future Earth to look at ways for mapping the Future Earth agenda in the country and the region. ICSU ROA highlighted Future Earth in Africa over the past couple of years.

## 2.4 Support for activities of the ICSU Family in Africa

In line with the Office's mandate to support activities of the ICSU Family on the continent, particularly in capacity building, it supported financially or participated in the following activities organised by members of the ICSU Family in Africa.

### African Institute of Mathematical Sciences/International Mathematical Union (AIMS/IMU) Global Change Impact on Diseases and Alien Species Expansion Workshop, 2-6 May 2016, Muizenberg, Cape Town

The main objectives of the workshop were to network communities coming from different backgrounds (biology, mathematical sciences, medicine, social sciences and global environment change) and different parts of the world, and having an interest in the study and control of epidemic diseases and invasive species, and to contribute to the training of young researchers. The Office as a partner in the organization of this workshop underscored its mandate to promote capacity building for young scientists to equip them to contribute meaningfully to Africa's scientific development.

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IUGS 35th International Geological Congress, 27 August – 4 September 2016, Cape Town, South Africa

ICSU ROA financially supported three early career scientists from Algeria, Rwanda and Tanzania who were selected to participate in the congress and make presentations on their research activities.

Pharmacology for Africa (PharfA) All Africa Congress on Pharmacy and Pharmacology in 5-8 October 2016, Muldersdrift, Gauteng

The Office supported two keynote speakers for the PharfA All Africa Congress on Pharmacy and Pharmacology in, 5-8 October 2016 at Muldersdrift, Gauteng. A representative also participated in the Congress and exhibited on our activities and programmes.



The 1st Pan African Conference of Crystallography (PCCr1) held 6 – 10 October 2016 in the city of Dschang, Cameroon

The Conference, which was organised by the IUCr, aimed at bringing together African crystallographers, mineralogists, solid state and structural scientists to increase the awareness for crystallography and improve the educational opportunities for African researchers and students of all levels. The Office supported the event and presented during the Conference.





### Sixth African Platform and Fifth High Level Meeting on Disaster Risk Reduction (AfRP), 22-25 November 2016, Mauritius

The representative of the Office made a panel presentation on LIRA2030 and exhibited on its other programmes and activities. He also granted interview to the Mauritian National Television on the programmes and activities of ICSU and its Regional Office for Africa, particularly in Disaster Risk Reduction.

### Grant Calls

ICSU ROA circulated the ICSU grant call to the ICSU family in Africa and has provided support (in writing) for six proposals submitted (in response to the call) as collaborative efforts involving a number of the Unions.

The first LIRA2030 call was circulated and the Office was involved in the evaluation process of the pre-proposals where 35 out of the 176 submitted pre-proposals were selected. ICSU ROA plays an important role in the implementation of LIRA2030 on the continent and is a member of the Programme Management Team as well as ex-officio member of the LIRA2030 Programme Advisory Committee.

## 2.5 Activities with the ICSU Secretariat and other Regional Offices

### 2.5.1 ICSU Meetings

#### The meeting of the International Scientific Unions of ICSU, 12 - 13 April 2016, Paris, France

The 32 international Scientific Union Members had a particular focus on how ICSU Unions can contribute to activities such as Future Earth, and on how regionally-based networks can best contribute to the global activities being undertaken by ICSU and the Unions. The participation of the Office during this meeting brought the regional perspective and the vital information for the development of the framework of the Future Earth Africa. This also saved a platform the Office to interact with the Union members and explore ways of involving them in regional activities/projects.

#### ICSU Executive Board, 14 – 15 April 2016, Paris, France

The participation of the Office in the EB meeting kept the Regional Office abreast with the activities of ICSU at global and regional levels as well as gave the Office an opportunity to present the activities of ICSU ROA to the Executive Board.

#### Joint Extraordinary General Assembly of ICSU and ISSC, 24 October 2016, Oslo, Norway

The main purpose of the Extraordinary ICSU-ISSC General Assembly was to discuss issues pertaining to the future relationship between ICSU and ISSC, following the recommendation of the respective executive bodies to merge the two organisations. The Office was represented at this meeting.





## 2.6 Activities with other Partners and Networks

ICSU ROA continued to strengthen its relationships with its traditional partners and networks, while establishing new ones, over the 2016/17 financial year.

### Human Science Research Council (HSRC)

The much-awaited co-publication of a book on Natural and Human-Induced Hazards and Disasters in Africa by ICSU ROA and HSRC finally took place in April 2016. This book was formally launched during the Science Seminar co-hosted by the two organisations as part of the ICSU RCA17 meeting in September 2016.

The Office also collaborated with the HSRC and other partners in successfully organising the 6th edition of the African Unity for Renaissance Conference and Africa Day Exposition in May 2016 in Pretoria.

### The Network of African Science Academies (NASAC)

The Office continued to strengthen its working relationship with NASAC, where NASAC was identified and entrusted with the responsibility to manage the Sida grant awarded to ICSU. The

Office entered into a formal Memorandum of Understanding with NASAC to give effect to this arrangement.

## 2.7 Strategic Partnerships

Our relationship with our strategic partnerships continued to grow during the 2016/17 financial year as we worked together in reaching out to the scientific community within and outside the continent.

### Academy of Science of South Africa (ASSAf)

Our collaboration with ASSAf, our host, received a greater impetus over the financial year. The Office was afforded the opportunity to give a presentation on behalf of the ICSU Executive Director on the activities of ICSU and ICSU ROA at a one-day workshop organised by ASSAf at the Pan-African Parliament with the Committee on Transport, Industry, Communication, Energy, Science and Technology in Midrand, South Africa on 2 August 2016. At the invitation of ASSAf, personnel from the Office participated in the 12th Annual Meeting of African Science Academies (AMASA-12) held in Johannesburg in November 2016. ASSAf was also invited to make a presentation on Big Data at a Science Seminar held as part of the 18th ICSU RCA meeting in Zambia in March 2017.



# CAPACITY BUILDING

## The Department of Science and Technology (DST), South Africa

The DST remained the main funder of ICSU ROA in the financial year ended .

## The Swedish International Development Agency (Sida)

The long-term partnership between ICSU ROA and Sida received a further boost in the 2016/17 financial year following the approval and award of a grant for the ICSU proposal on “Building Capacity for Integrated Research on Global Sustainability in Africa” towards the end of the last financial year. Implementation of the commenced in earnest in the new financial year with the take-off of the revised programme titled “Leading Integrated Research in Africa Agenda 2030” (LIRA2030) described elsewhere in this report.

The Office, continued to interact with national governmental institutions and intergovernmental bodies in the 2016/17 financial year to ensure that policies and decisions on the continent are developed and implemented on a foundation of science-based evidence.

## Southern African Development Community (SADC)

The Joint Meeting of Ministers Responsible for Education and Training and Science, Technology and Innovation, 28 – 30 June 2016, Gaborone, Botswana. The main purpose of the meeting was to finalise documentation and submit them for consideration by SADC Ministers responsible for Education and Training, Science, Technology and Innovation. The participation of ICSU ROA during this meeting will gave us an opportunity to work with Member States, experts and other partners in reviewing the progress on the implementation of the SADC STI and Indus-



trialisation Strategies as well as give us an opportunity to give inputs to the SADC Regional Indicative Strategy in relation to Education and Training and Science, Technology and Innovation.

## 2.8 Database of Scientists, Academic and Research Institutions

The database of African researchers as well as research and academic institutions continues to grow with each new scientist contact during our numerous engagements. The databases of scientists, both young and established, and stratified according to the four Science Plan thematic areas, are also expanding substantially as more experts get identified through networking activities. We remain hopeful that this will bring much needed skills and expertise for the betterment of promoting research that will benefit society in Africa as well as provide scientific evidence for rational policies in African countries.

## 3.1 LIRA2030

The first grant call resulted in 9 research projects being funded for 2017 and 2018. A second call which was issued in February 2017, received 140 pre-proposals, 33 of which were selected and invited to attend the transdisciplinary training workshop, which will take place in August 2017 in Kampala, Uganda.

Financial Report

Conclusion

Annexures



# FINANCIAL REPORT

## ANNUAL FINANCIAL STATEMENT

FOR THE YEAR ENDED 31 MARCH 2017

The financial resources and expenditure of ICSU ROA during 2016/2017 are summarised below:

	31 March 2017	31 March 2016
<b>INCOME RECEIVED</b>		
Department of Science and Technology		2,000.00
ICSU Secretariat	1,192,710	1,014,235
Swedish International Development Cooperation Agency - Sida	2,131,714	151,379
Publication income	8,160	-
<b>NRF CONTRIBUTION</b>	4,943,120	2,455,658
<b>UNCOMMITTED FUND FROM PREVIOUS YEAR</b>	3,913,870	2,724,269
<b>FUNDS AVAILABLE FOR THE YEAR</b>	12,189,574	8,345,541
<b>TOTAL EXPENDITURE</b>	8,271,492	432,250
	<b>2843.848</b>	<b>1,275.851</b>
Audit fees	19,380	19,950
Bank charges	437	-
Catering and refreshments	3,091	894
Cleaning services	57,586	-
Computer consumables	7,482	2,440
Conference fees	673,671	356,457
Consulting fees	24,000	-
Contract workers	64,497	-
Editorial fees	-	2,980
Postage and courier	5,821	420
Information and technology services	40,718	73,868
Insurance	24,105	-
Lanyards	1,600	-
Layout and design	39,200	-
License fees	12,361	-
Office expense	25,836	-
Printing and publications	183,288	23,748
Rent - office	311,262	122,937
Staff recruitment Staff training	78,919	-
Stakeholders/partners support	32,816	6,936
Stationery	141,801	24,000
Telephone	2,434	2,585
Travel and accommodation	17,181	-
	1,076,362	637,924
<b>SALARIES</b>	5,421,945	3,141,848
<b>CAPITAL EXPENSES</b>		
Computer and equipment	5,699	14,552
Petty cash		580
	<b>3,918,082</b>	<b>3,913,870</b>

# CONCLUSION

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A lot of water passed under the bridge during the year under review. All in all, the Office stood resolute and pursued its programmes and activities very appreciably, the challenges notwithstanding.

The revision and publication of the Africa Science Plans was one landmark achievement which will push further the Office's scientific agenda, moving into the following financial year. The successful organisation of the 3rd Africa science Plans Steering Committee Meeting and Africa Science Plans Scoping Workshop in Mozambique towards the of the financial year has given much impetus to project proposal development and Science Plan implementation activities by scientists from the various consortia. Many project concepts have been outlined to be developed into full proposals in response to calls.

As usual the Office will continue to build on its growing list of strategic partnerships, funding agencies and networks to enhance scientific collaboration.

# ANNEXURES

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## Annexure A: Office Personnel

Name	Position
<b>Dr Edith Madela-Mntla</b> (up to June 2016) (South Africa) <a href="mailto:e.mntla@icsu-africa.org">e.mntla@icsu-africa.org</a>	Regional Director
<b>Dr Daniel Nyanganyura</b> (since February 2017) (Zimbabwe) <a href="mailto:d.nyanganyura@icsu-africa.org">d.nyanganyura@icsu-africa.org</a>	
<b>Dr Richard Glover</b> (Ghana) <a href="mailto:r.glover@icsu-africa.org">r.glover@icsu-africa.org</a>	Programme Specialist
<b>Mr Bongani Mahlalela</b> (South Africa) <a href="mailto:b.mahlalela@icsu-africa.org">b.mahlalela@icsu-africa.org</a>	Communications Officer
<b>Ms Hazael Naidoo</b> (up to June 2016) (South Africa) <a href="mailto:h.naidoo@icsu-africa.org">h.naidoo@icsu-africa.org</a>	Administrative Assistant
<b>Ms Lerato Mmatloa</b> (since October 2016) (South Africa) <a href="mailto:l.mmatloa@icsu-africa.org">l.mmatloa@icsu-africa.org</a>	
<b>Ms Nomasomi Gasa</b> (South Africa) <a href="mailto:nomasomi@icsu-africa.org">nomasomi@icsu-africa.org</a>	Project Coordinator

# ANNEXURES (CONTINUED)

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## Annexure B: Composition of the ICSU Regional Committee for Africa

### Statutory Members of ICSU Regional Committee for Africa

**Prof Samuel Babatunde Agbola**

(Chair)  
Urban & Regional Planning University of  
Ibadan  
PO Box 26970 Ibadan, Nigeria  
[babatunde.agbola@gmail.com](mailto:babatunde.agbola@gmail.com)

**Prof Joseph Kanyanga (Vice Chair)**

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**Prof Samuel Ayonghe**

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**Dr Cherkaoui El Moursli**

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**Prof Jacques André NDIONE**

Facilité du SAHEL, Direction de  
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**Prof Francine Ntoumi**

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**Prof Inês Raimundo**

Eduardo Mondlane University  
Maputo, Mozambique  
[inesmacamo@gmail.com](mailto:inesmacamo@gmail.com)

### Ex-Officio Members of ICSU Regional Committee for Africa

**Prof Roseanne Diab**

Executive Officer  
Academy of Science of South Africa  
Pretoria, South Africa  
[roseanne@assaf.org.za](mailto:roseanne@assaf.org.za)

**Dr Heide Hackmann**

Executive Director, ICSU  
5, rue Auguste Vacquerie  
75116 Paris, France  
[heide.hackmann@icsu.org](mailto:heide.hackmann@icsu.org)

**Prof Cheryl de la Rey**

Vice Chancellor and Principal  
University of Pretoria  
Pretoria, South Africa  
ICSU EB Liaison  
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**Dr Daniel Nyanganyura**

Regional Director  
ICSU Regional Office for Africa  
Pretoria, South Africa  
[d.nyanganyura@icsu-africa.org](mailto:d.nyanganyura@icsu-africa.org)

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## Annexure C: ICSU Family in Africa

### Annexure C1 - ICSU National Members in Africa

<b>Angola</b>	Foundation of Science and Development (Member since 2010)
<b>Botswana</b>	Botswana Institute of Technology Research and Innovation (Member since 2006)
<b>Burkina Faso</b>	Centre National de la Recherche Scientifique et Technologique (Member since 1981)
<b>Cameroon</b>	Cameroon Academy of Sciences (Member since 1999)
<b>Côte d'Ivoire</b>	Académie des Sciences, des Arts, des Cultures d'Afrique et des Diasporas Africaines (Member since 1992)
<b>Egypt</b>	Academy of Scientific Research and Technology (Member since 1925)
<b>Ethiopia</b>	Ethiopian Science and Technology Agency (Member since 2006)
<b>Ghana</b>	Ghana Academy of Arts & Sciences (Member since 1961)
<b>Kenya</b>	Kenya National Academy of Sciences (Member since 1980)
<b>Lesotho</b>	Department of Science and Technology (Member since 2007)
<b>Malawi</b>	National Research Council of Malawi (Member since 2006)
<b>Mauritius</b>	Mauritius Research Council (Member since 2005)
<b>Morocco</b>	Centre National de la Recherche Scientifique et Technique (Member since 1925)
<b>Mozambique</b>	Scientific Research Association of Mozambique (Member since 1999)
<b>Namibia</b>	Ministry of Education: Directorate of Research, Science and Technology (Member since 2008)
<b>Nigeria</b>	Nigerian Academy of Science (Member since 1963)
<b>Rwanda</b>	Kigali Institute of Science and Technology (Member since 2006)
<b>Senegal</b>	Association des Chercheurs Sénégalais (Member since 1993)
<b>Seychelles</b>	Seychelles Centre for Marine Research and Technology (Member since 1983)
<b>South Africa</b>	National Research Foundation (Member since 1919)
<b>Sudan</b>	National Centre for Research (Member since 1974)
<b>Swaziland</b>	National Research Council (Member since 1993)
<b>Tanzania</b>	Tanzania Commission for Science and Technology (Member since 2004)
<b>Togo</b>	Chancelleries' des Universités du Togo (Member since 1993)
<b>Uganda</b>	Uganda National Council for Science and Technology (Member since 1995)
<b>Zambia</b>	Zambia Academy of Sciences (Member since 2006)
<b>Zimbabwe</b>	Research Council of Zimbabwe (Member since 1989)

# ANNEXURES (CONTINUED)

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## Annexure C2 - ICSU National Scientific Associates in Africa

<b>Madagascar</b>	Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (Member since 1970)
<b>Tunisia</b>	Université Tunis El Manar (Member since 1931)

## Annexure C3 - ICSU Scientific Unions in Africa

Committee on Data for Science and Technology  
International Centre for Genetic Engineering and Biotechnology  
International Geographical Union  
International Mathematics Union  
International Union for Physical and Engineering Sciences in Medicine  
International Union of Biological Sciences  
International Union of Food Science and Technology  
International Union of Forest Research Organisations  
International Union of Geodesy and Geophysics  
International Union of Geological Sciences  
International Union of History and Philosophy of Science and Technology  
International Union of Psychology  
International Union of Pure and Applied Chemistry  
International Union of Pure and Applied Physics  
International Union of Toxicology  
The International Union for Quaternary Science  
The International Union of Basic and Clinical Pharmacology

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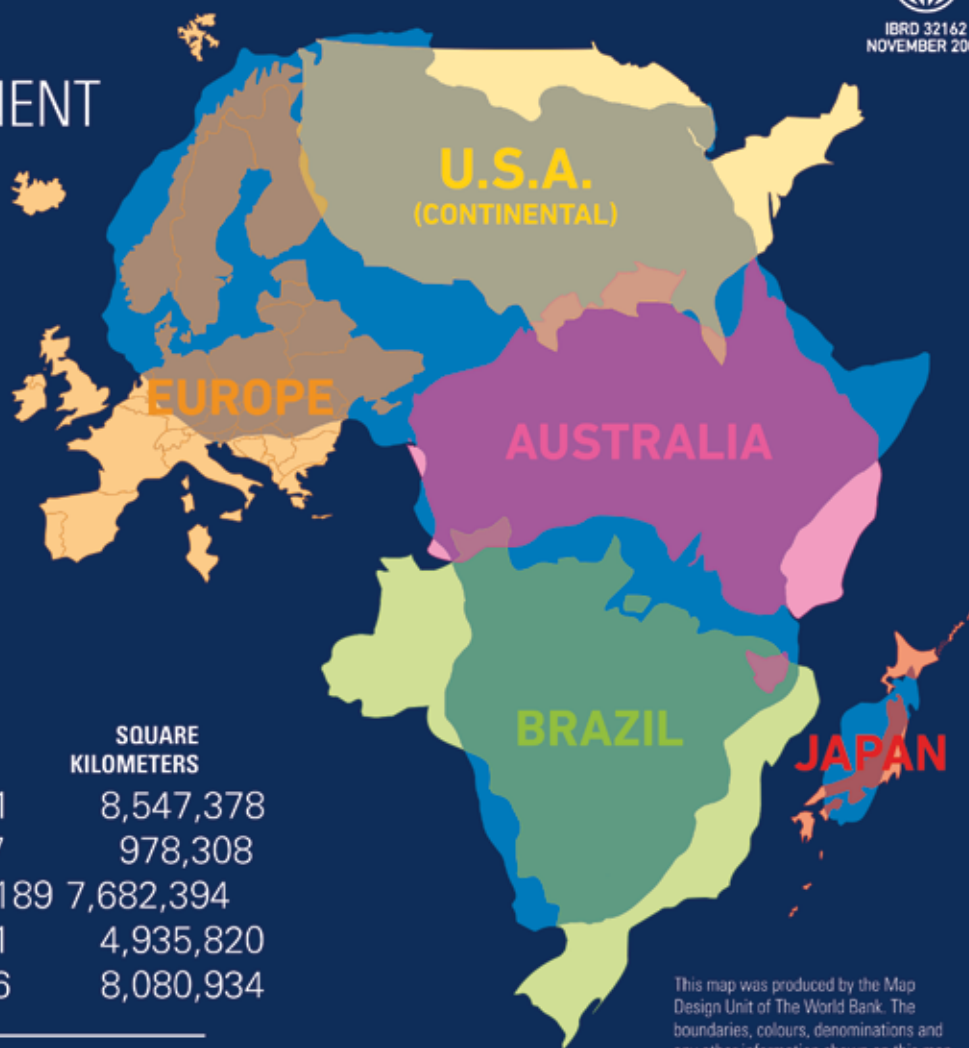


## NOTES



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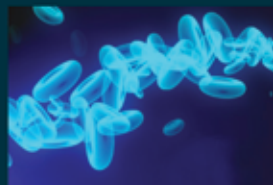
# SIZE OF THE AFRICAN CONTINENT COMPARED TO OTHER LAND MASSES



	SQUARE MILES	SQUARE KILOMETERS
BRAZIL	3,300,161	8,547,378
JAPAN	377,727	978,308
AUSTRALIA	2,966,189	7,682,394
EUROPE	1,905,731	4,935,820
U.S.A. (Continental)	3,120,066	8,080,934
<b>TOTAL</b>	<b>11,669,874</b>	<b>30,224,835</b>
<b>AFRICA</b> (including MADAGASCAR)	<b>11,715,721</b>	<b>30,343,578</b>

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Strengthening international science  
for the benefit of society



**INTERNATIONAL  
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REGIONAL OFFICE  
FOR AFRICA

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Ms Nomasomi Gasa, Ms Lerato Mmatloa, Dr Edith Madela-Mntla