

Africa Innovation Summit Satellite Event

The Venue, Summit Place Precinct,
Menlyn Pretoria, 6 – 8 June 2018



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA







PROGRAMME

Day 1: 6 June 2018

08:00– 08:30 Registration and Arrival

Plenary Session

08:30 – 9:00

Opening session

Facilitator: Ms Mmampei Chaba

Chief Director: Multilateral Cooperation and Africa, Department of Science and Technology, South Africa

Welcome address: Dr Thomas Auf Der Heyde

Deputy Director-General: Research Development and Support, Department of Science and Technology, South Africa

Keynote Address via Video Link: Innovation and Industrialisation Challenges and Opportunities in the SADC Region

Dr Stergomina Tax

Executive Secretary
SADC Secretariat, Botswana

09:00 – 11:15

Streamed Live from AIS Kigali

Panel Discussion: 21st Century Africa: The Innovation Challenge and Opportunities

11:15 – 11:30

Tea break

Parallel Workshops

11:30 – 13:00

The Role of Techno Parks in Promoting Regional Innovation Value Chains

It is widely held that science parks/techno parks/innovation hubs play the role of 'innovation system intermediaries'. These institutions link the various actors within the innovation value chain that need to collaborate in order to achieve successful innovations which in turn impact a given industry or society through economic development and job creation. Given these characteristics, these institutions may be an interesting starting point in configuring regional innovation value chains that promote economic integration within the Southern Africa region.

Facilitator:

Mr Cecil Masoka

Director: Multilateral Cooperation
Department of Science and Technology, South Africa

Speakers:

Mr Mclean Sibanda

Chief Executive Officer
Innovation Hub, South Africa

Ms Sunita Kalan

Director: Sector and Local Innovation
Department of Science and Technology
South Africa

Ms Lovisa Kambonde

Manager: Innovation and Industrial Research
National Commission on Research, Science and
Technology, Namibia

Rapporteur: Mr Sigfried Tivana, DST

Women Technopreneurs in the Agro-Processing Sector

Empowerment for women is a pre-requisite for achieving inclusive growth. According to the United Nations' Food and Agricultural Organisation, women comprise, on average, 50% of the agricultural work force in Sub-Saharan Africa. There is a high scope for women entrepreneurship in agro-based industries. Agro-based industries are comparatively easy to establish and tend to provide income in rural areas as a result of effective and efficient utilization of local agricultural raw materials. The spurt of different activities in this sector has resulted in the creation of both forward and backward linkages which lead to the creation of economies of scale. In light of this, what can be done from a policy and financing perspective to increase the visibility of women in the agro-industry value chain at both a national and regional level.

Facilitator:

Dr Maneshree Jugmohan-Naidu

Director: Bio-Innovation
Department of Science and Technology
South Africa

Panelists:

Ms Lilitha Mahlali

Director
Ivili Loboya Wool Processing Hub, South Africa

Ms Fannie Gondwe

Executive Director: Perisha Agro and Packaging
Enterprise, Malawi

Dr Unathi Speirs

Group Chairman
AgriConsult Investment Holdings, South Africa

Rapporteur: Ms Obakeng Pitsoane, DST

**13:00 – 14:00 Networking Lunch****Parallel Workshops****14:00 – 15:30****Green Entrepreneurship and Industrialisation in Southern Africa**

Entrepreneurs are central to the success of green industrial development in Africa because economic transformation and green growth require innovation. Where incentive structures exist, green markets are emerging including for renewable energy, energy efficiency, water services, waste managements and climate smart agriculture. In the next few years, all these markets will provide a major opportunity for green industrialisation.

Facilitator:**Dr Henry Roman**

Director: Environmental Services and Technologies
Department of Science and Technology, South Africa

Panelists:**Mr Kudakwashe Ndhlukula**

Executive Director: SADC Centre for Renewable Energy and Energy Efficiency, Namibia

Ms Sumbi Mukumba Shimwambwa

Chief Executive Officer
Umwenge Green Electricity Supply Corporation Limited, Zambia

Ms Zamanzima Mazibuko

Senior Researcher: Knowledge Economy and Scientific Advancement
Mapungubwe Institute for Strategic Reflection South Africa

Dr Rethabile Melamu

General Manager: Green Economy Innovation Hub, South Africa

Rapporteur: Ms Tinyiko Ntshongwana, DST**Regional Integration in Context: Intellectual Property and Technology Transfer**

As Southern Africa seeks to position itself as a conduit to promote economies of scale and to contribute to development amongst the various countries in the region, the significance of intellectual property as a driver for innovation, investment, technology transfer and increased economic activity within the region cannot be over stated. In light of this, there is a need to find the right balance between economic profitability and regional integration through intellectual property protection and concerns about sustainable development when transferring technology.

Facilitator:**Ms Lungelwa Kula**

Deputy Director: National Intellectual Property Management Office, South Africa

Panelists:**Dr Saudin Mwakaje**

IP Lawyer
University of Dar-Es-Salaam, Commission for Science and Technology (COSTECH), Tanzania

Dr Brian Mphahlele

Group Executive: Business Development and Innovation
South African Nuclear Energy Corporation South Africa

Mr Malesela Lekoto

Executive Manager: Legal Services Technology and Innovation Agency, South Africa

Rapporteur: Ms Refilwe Mashigo, DST**15:30 – 16:00****Key messages of the day and wrap-up****Ms Mmampei Chaba**

Chief Director: Multilateral Cooperation and Africa Department of Science and Technology South Africa

17:30 – 20:00**Cocktail Presentation Session: Perspectives on Innovation in the SADC Region**

The innovation presentation will serve as a platform for innovators and entrepreneurs to present their perspectives on innovations that address societal challenges. Presenters will present an object that represents innovation and explain why their innovation is unique. Learners from high schools, university students, technopreneurs and innovators will be expected to present a product that promotes the use of science, technology, engineering and mathematics (STEM) in addressing societal challenges.

Facilitator:**Ms Refilwe Mashigo**

Assistant Director: Africa Multilateral Cooperation Department of Science and Technology South Africa

Mr Stella Gonye

Founder: Chengi Advanced Deflouridation Technology, Zimbabwe

Mr Letsogile Kennedy

Founder: Eco-Hub, Botswana

Ms Palesa Mahlangu

Director
Tech Savvy Kids, South Africa

**Mr Kaveto Tjatjara**

Director
World View Technology, Namibia

Cocktail dinner will be served from 18:30

Day 2: 7 June 2018

08:30 – 09:00 Registration and Arrival

09:00 – 10:30 Streamed Live from AIS Kigali
21st Century African Cities

10:30 – 11:15 Bridging the Regional Innovation Financing Gap

Acknowledging the importance of innovation in addressing development problems is not enough. In this regard, addressing the innovation financing gap is crucial and requires careful consideration for adopting a differentiated approach in addressing the diverse financing requirements of technology entrepreneurs as they move through the various phases of the innovation value chain.

Facilitator:**Dr Vincent Nowaseb**

General Manager: Innovation and Technology Development, National Commission on Research, Science and Technology, Namibia

Panelists:**Ms Bongiwe Beja**

General Manager
Silulo Business Incubator, South Africa

Ms Tanya van Lil

Chief Executive Officer: Southern African Venture Capital and Private Equity Association
South Africa

Mr Ilary Lindy

Lead Expert
Southern Africa Innovation Support Programme
Namibia

Mr York Zucchi

Chief Coffee Drinker
SME Movement, South Africa

Mr Tendai Mazhude

mLab – Southern Africa, South Africa

Rapporteur: Ms Tinyiko Ntshongwana, DST

11:15 – 11:30 Tea break

Parallel Workshops

11:30 – 13:00 Synergising Trade and STI Policy for Industrialisation and Economic Integration

The risks of ignoring the relationship between trade and STI policy are significant, including the curtailment of technological change, stunted transfer of regionally developed technology, slow industrialization and inhibited economic integration. By reflecting on what should be a mutually reinforcing interface between trade and STI policy, the SADC region and all the relevant public and private partners will need to be better equipped in developing informed and effective strategies to address common challenges across the region, more especially in a rapidly changing technological and trade landscape.

Facilitator:**Mr Joseph Senona**

Director: Africa Bilateral Cooperation
Department of Science and Technology
South Africa

Panelists:**Mr Thabang Mamaru**

Lead: Knowledge Generation
Trade and Invest Africa
Department of Trade and Industry, South Africa

Prof Amos Saurombe

Professor of International Economic Law
Department of Mercantile Law
University of South Africa, South Africa

Mr Thembelani Nhlabatsi

Senior Science Officer
Ministry of Information Communication and Technology, Swaziland

Rapporteur: Mr Sigfried Tivana, DST

**Opportunities for Industrialisation in the Water, Energy and Food Nexus**

Water, food and energy security are not only interlinked but are also essential for achieving sustainable economic growth and human wellbeing. Activities in one sector can influence and possibly constrain economic growth and industrial development in the other sectors. Water and Energy are essential catalysts for industrialisation while agro-processing, as a manufacturing sub-sector, presents opportunities for the development of food agro processing industries.

Facilitator:**Dr Rebecca Maserumule**

Chief Director: Hydrogen and Energy
Department of Science and Technology
South Africa

Panelists:**Prof Muthoni Masinde**

Drought Protection Tool
Central University of Technology, South Africa

Dr Ereck Chakauya

Network Manager: Southern Africa Network for Biosciences (SANBio), South Africa

Dr Mamohloding Tlhagale

Head: International Cooperation and Partnerships, Water Research Commission, South Africa

Rapporteur: Ms Zamanzima Mazibuko, MISTRA

13:00 – 14:00 Networking Lunch

Parallel Workshops

14:00 – 16:00

Innovation Tours:

1. Innovation Hub (Pretoria)
2. CSIR: Bio-Manufacturing Industry Development Centre (Pretoria)
3. Tshimologong Precinct (Johannesburg)

Day 3: 8 June 2018

07:30 – 08:00 Registration and Arrival

**08:00 – 09:30 Streamed Live from AIS Kigali
Institutions and Systems that Drive Innovation**

09:30 – 10:45

**Panel Discussion: Fostering Synergies
between Innovation and Industrialisation:
Institutional Mechanisms and Capacities.**

Facilitator:**Dr Chamunorwa Togo**

General Manager: Innovation, Sectors and Industry Development
Innovation Hub, South Africa

Panelists:**Mr Patrick Krappie**

General Manager: Strategic Partnerships
Technology and Innovation Agency, South Africa

Mr Nokwazi Moyo

Project Coordinator
United Nations Industrial Development
Organisation, South Africa

Prof Fiona Tregenna

South African Research Chair in Industrialisation
University of Johannesburg, South Africa

Ms Rachel Sibande

Chief Executive Officer and Founder
MHub, Malawi

Rapporteur: Ms Tinyiko Ntshongwana, DST

10:45– 11:00 Tea break

Plenary Session

11:00 – 12:00

Pitching Session

- Technopreneur
- Technopreneur
- Technopreneur
- Technopreneur

Facilitator:**Mr Daan du Toit**

Deputy Director-General: International
Cooperation and Resources
Department of Science and Technology
South Africa



12:00 – 13:00

Networking Lunch

Closing Plenary Session: TIA Seminar

13:00

Welcome

13:05

New Hybrid Instruments to Finance Innovation

The purpose is to discuss the design of financial instruments to increase risk and return sharing when financing innovation. The talk will provide ideas and elements for policy makers in the innovation systems in terms of how to design and structure new financial instruments to fund innovation, with a focus on hybrid structures. The talk will also include practical experience at Finep, Brazil's national innovation agency.

Mr William Respondovesk, Finep, Brazil

Speaker Biography

William Respondovesk is currently working at the Office of Finep's President, supporting him in strategic analysis and in the development of new products and financial instruments, including hybrid mixing grants, loans and equity. William was previously the manager of the airspace, defence and security department, has private sector experience in management consulting and has worked in countries such as Argentina, Angola, Portugal, Zambia and Singapore. He holds a BSc in Mechanical Engineering from the State University of Campinas and an MSc in Science and Technology Policy (with distinction) from the University of Sussex.

14:00

Private Sector Investment in Sub-Saharan African Electricity Infrastructure

Sub-Saharan Africa (excluding SA) is the most electricity deprived region in the world, yet electricity capacity growth rates over the last 40 years have been restricted, meaning that much needed economic transformation cannot happen. The private sector remains reluctant to invest in electricity infrastructure, citing governance concerns. The talk will examine the low levels of private sector investment from the perspective of electricity governance and its contribution to negative uncertainty or risk.

Mr Julian Gregory, University of Sussex, UK

Speaker Biography

Julian Gregory is attached to the Science Policy Research Unit at the University of Sussex. His PhD research focuses on increasing private sector investment in sub-Saharan African electricity infrastructure. He is also a research fellow on a pilot project for "Capability building for Infrastructure delivery", which is focused on how to develop the supporting capabilities for infrastructure development, within sub-Saharan Africa. Before returning to academia, Julian spent 23 years working in various parts of the financial markets in the UK and Australia. He has an MSc in Science and Technology Policy (with distinction) from the University of Sussex.

14:55

The Relationship between Foresight and Policy-Making

Foresight is a systematic and participatory future-looking process to gather and assess intelligence and form a collective vision to inform decision-making now to address future challenges, with science and technology an important component. The talk will present an assessment of the relationship between foresight and policy-making in the UK to determine what factors have contributed to the success of foresight for policy-making in the current Foresight Programme, and why. The talk will also briefly discuss the current National Foresight Initiative which seeks to inform the Department of Science and Technology's Decadal Plan.

Mr Garth Williams, Technology Innovation Agency, South Africa

Speaker Biography

Garth Williams is Research Specialist: Intelligence at the Technology Innovation Agency. He has worked previously at the Department of Science and Technology in advanced manufacturing technology policy and strategy, at Mintek in several roles and in the private sector. Garth has an MSc (Eng) in Materials Engineering from the University of Cape Town and an MSc in Science and Technology Policy (with distinction) from the University of Sussex.

15:30

Closing Session

Mr Daan du Toit

Deputy Director-General: International Cooperation and Resources
Department of Science and Technology
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