

Impact of Science

A 3-day Conference on the Transformative Power of Research

AESIS

NETWORK FOR
ADVANCING & EVALUATING THE SOCIETAL IMPACT OF SCIENCE

In partnership with:



National
Research
Foundation



Online, hosted from
Cape Town, South Africa

23-25 June
2021



- IMPACT OF SCIENCE -

In the past year the world has become more visibly depending on science than ever before. At the same time the credibility and legitimacy of science and the international scientific community have faced increasing battles under the troubling times of the past year. This crisis has shown light on the extended need for inclusive economic development, and effective assessment of what works and what doesn't, on top of ever growing issues such as climate change, poverty or inequality. Thus, this year's **Impact of Science** conference will focus on **The Transformative Power of Research** and brings together science impact professionals to discuss how to evaluate and increase impact of science on our global society.

With these goals in mind there is no better place to host the conference from than South Africa. Rapidly developing, working on a national impact agenda and ways to shorten the research impact cycle, and the National Research Council, universities, and many other stakeholders have been gaining skills and knowledge about how to use science for tackling problems such as the triple challenge. Initiatives for collaboration between the academic world, government, industry and society sprout from the ground, but there is still much to do. Therefore South Africa is the ideal host for our conference on the transformative power of research that will accelerate the solutions that science and society need.

This conference is featuring highly regarded and internationally recognised experts who will be discussing the contribution of their research to the quality of life and well-being. The conference expects over 350 participants from more than 30 countries. The entire event will be online, hosted from South Africa to ensure that everyone has access to the conference, regardless of the obstacles the pandemic has cost to meet in person.



Some of the themes that will be discussed:

- ◆ Advancing a research impact agenda for inclusive development
- ◆ Models, approaches for the development of a research impact agenda
- ◆ National impact evaluation frameworks,
- ◆ Demonstrating effectiveness of impact on the SDG's
- ◆ Promoting coherence about impact within the science eco-system
- ◆ Collaboration & engagement for impact of science
- ◆ The road towards evidence-informed policy making

The AESIS Network has successfully organised the annual conference '**Impact of Science**' eight times, bringing together experts such as R&D evaluators, university managers, research councils, policy makers, funders, and other stakeholders of impact. The goal is sharing, evaluating, and discussing best practices around the world on: policy strategies for societal impact, creating (long-term) alliances between stakeholders; regional, national, and international instruments for evaluating and achieving impact; current issues on i.e. public engagement, evidence-based policy, interdisciplinary approaches, and, harmonising definitions and assumptions. We are very excited to be working with our colleagues in South Africa and else where in the world to create the most valuable programme and experience for all of you who would like to learn about and contribute to science transforming the world. And we very much look forward to meeting you there!

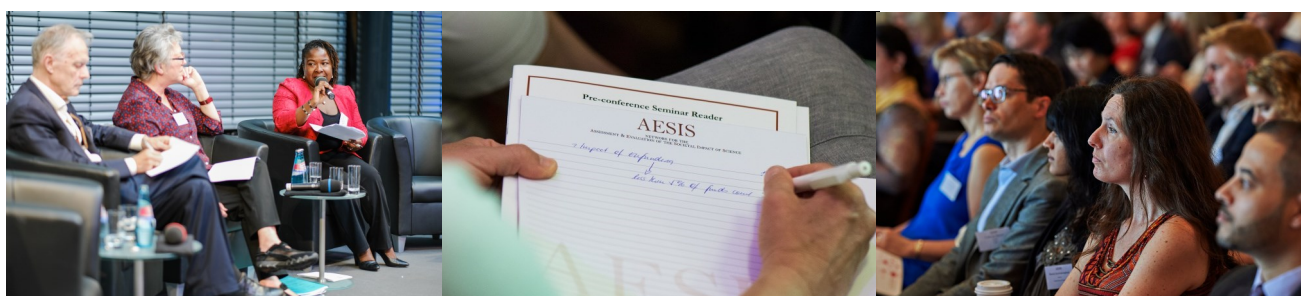
- IMPACT OF SCIENCE -

Programme Advisory Committee

Phethiwe Matutu	Group Executive of Strategy Planning & Partnerships, National Research Council, South Africa
Cheryl de la Rey	Vice-Chancellor of the University of Canterbury, New Zealand
Sue Harrison	Deputy Vice Chancellor Research & Internationalisation, University of Cape Town, South Africa
Ingrid van de Stadt	Regional Marketing Director, Elsevier, the Netherlands
Himla Soodyall	Executive Officer, Academy of Science of South Africa, South Africa
Heidi van Rooyen	Group Executive of the Impact Centre at the Human Sciences Research Council, South Africa
Harsha Dayal	Director of Research, Department of Planning, Monitoring, and Evaluation, South Africa

AESIS Advisory Board

Koenraad Debackere	Executive Director of KU Leuven Research and Development & Chairman of Board of Directors of KBC Group NV, Belgium
Beverley Damonse	Executive of Science Engagement and Corporate Relations, National Research Foundation (NRF), South Africa
Luke Georghiou	Vice-President for Research and Innovation and Professor of Science and Technology Policy at the University of Manchester, United Kingdom
Barend van der Meulen	Professor Institutional Aspects of (Higher) Education, Director CHEPS, Twente University, the Netherlands
Andrew Plume	Senior Director of Research Evaluation at Elsevier, United Kingdom
Susan Renoe	Assistant Vice Chancellor, University of Missouri & Executive Director of the NSF Center for Advancing Research Impact in Society, United States
Toby Smith	Vice President of Policy at the American Association of Universities, USA
David Sweeney	Executive Chair, Research England, United Kingdom
Paul Wouters	Dean of Social and Behavioural Sciences & former Director of CWTS, Leiden University, the Netherlands



Wednesday 23 June 2021

Times in SA Time (GMT +2)

9.30-10.00 Registration

10.00-10.30 WORDS OF WELCOME

- 10.00 Conference Chair:
Cheryl de la Rey Vice-Chancellor of the University of Canterbury, New Zealand
- 10.10 **Mamokgethi Phakeng** Vice-Chancellor of the University of Cape Town
- 10.20 **Blade Nzimande*** Minister of Higher Education, Science and Technology, South Africa

10.30-12.00 THE TRANSFORMATIVE NATURE AND ROLE OF SCIENCE IN SOCIETY

Topic description

- 10.30 **David Sweeney** Executive Chair, Research England, United Kingdom
- 10.45 **Ismail Serageldin** Founding Director of the New Library of Alexandria, Egypt
- 11.00 **Fulufhelo Nelwamondo** Chief Executive Officer, National Research Foundation, South Africa
- 11.15 **Kristiann Allen** Director of Secretariat and Executive Secretary of the International Network for Government Science Advice (INGSA)
- 11.30 **Panel & Q&A**

12.00-12.30 Break

12.30-13.45 ADVANCING A RESEARCH IMPACT AGENDA (FOR INCLUSIVE DEVELOPMENT)

**Research Infrastructures and
Mega-science**

**Enhancing Inclusive
Economic Growth**

**Transforming the Science
System (*Roundtable*)**

What infrastructures can facilitate more effective impact of science on society?

Reiner Kruecken* (*Chair*)
Deputy Director of Research,
TRIUMF, Canada

Riitta Maijala
Vice President for Research
at the Academy of Finland

Zebulon Vilakazi
Vice Chancellor of Wits University,
South Africa

Jonathan Bagger*
CEO, American Physical Society,
United States

How can science be utilised for all of society and thereby close existing gaps of inequality?

John Crowley* (*Chair*)
Chief of Section for Research,
Policy, and Foresight, UNESCO,
France

Haroon Bhorat
Director of Development Policy
Research Unit at University of Cape
Town, South Africa

Erika Kraemer-Mbula
Professor of Economics at
University of Johannesburg, South
Africa

Transforming the Fundamentals of the Science System to facilitate the impact the world needs

Derk Loorbach
Professor of Socio-economic
Transitions, Erasmus University
Rotterdam, Netherlands

Himla Soodyall*
Executive Officer,
Academy of Science of South
Africa, South Africa

Lauren Rickards
Professor in the school of Global,
Urban, and Social Studies at Royal
Melbourne Institute of Technology,
Australia

*Attendees may freely choose to join any of the **Parallel Sessions in RED**, which will contain 3 to 4 presentations and an interactive discussion or Q&A*

*Please note that the **Roundtable session in PURPLE** accept only 20 participants (pre-registration is advised) who will engage in interactive discussions guided by the invited coordinators*

More sessions on the next page

* To be Confirmed

Wednesday 23 June 2021 (continued)

Times in SA Time (GMT +2)

12.30-13.45 ADVANCING A RESEARCH IMPACT AGENDA (FOR INCLUSIVE DEVELOPMENT) (continued)

Collectively Tackling Grand Challenges

Addressing sustainable development focusing on global change and pollution

Lidia Brito (Chair)

Director of UNESCO's Regional Bureau for Sciences in Latin America and the Caribbean

Evelyn Namubiru-Mwaura

Independent Consultant and Policy Advisor, Policy Innovation, Uganda & Former director of SEI Africa, Kenya

Francesco Gardumi

Senior Researcher, Energy Systems Analysis, Royal Institute of Technology (KTH), Sweden

Developing a Regional or National Impact Policy

How can a regional policy support for science help the excellence of research and positive effect it should have on society?

Mahama Ouedraogo (Chair)

Acting Head of Human Resources, Science, and Technology in African Union, Nigeria

Stig Slipersæter*

Special Adviser at Research Council of Norway

Tateo Arimoto

Deputy Director General, Center for Research and Development Strategy (CRDS), Japan Science and Technology Agency (JST)

Increasing Credibility of Science (Roundtable)

What are the effects of trust in science and how can we overcome them to improve society?

Crain Soudien

Chief Executive Officer of the Human Sciences Research Council, South Africa

Roseann Runte

President and CEO of the Canada Foundation for Innovation, Ottawa Canada

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13.45-14.30 Lunch break

14.30-15.45 METHODS AND STRATEGIES FOR STIMULATING SOCIETAL IMPACT

Training and Skills for Impact

Which skills are required from individuals for impact and where should we employ facilitatory support?

Wendy Cukier (Chair)

Associate Director of Partnership, Development and Stewardship at the Future Skills Centre, Canada

Sarah Morton

Director & Co-Founder of Matter of Focus & Honorary Fellow at University of Edinburgh, Scotland

Yaye Kène-Gassama Dia*

Professor of Plant Biotechnology at Cheikh Anta Diop University, Senegal

Institutional Impact Strategy

How can you integrate impact in your institutional strategy to support your mandate for more societal wellbeing?

Buyinza Mukadasi (Chair)

Director of Research and Graduate Training, Makerere University, Uganda

Willie Pearson*

Professor of Sociology at the School of History, Technology, and Society at Georgia Institute of Technology, United States

Esther De Smet

Senior Research Policy Advisor, Ghent University, Belgium

Tracey Dickson

Associate Dean of Research Performance, College of Health and Medicine, University of Tasmania, Australia

Open Science (Roundtable)

How can the open science movement be directed towards broad engagement and more value to society?

Paul Wouters

Dean of Social Sciences & former Director of CWTS, Leiden University, the Netherlands

Sue Harrison

Deputy Vice-Chancellor for Research and Internationalisation at University of Cape Town, South Africa

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Wednesday 23 June 2021 (continued)

Times in SA Time (GMT +2)

14.30-15.45 METHODS AND STRATEGIES FOR STIMULATING SOCIETAL IMPACT (continued)

Entrepreneurship

How can and should science be made market-ready and how can you overcome the obstacles?

David Priilaid (Chair)

Head of Applied Management, University of Cape Town, South Africa

Nagla Rizk*

Founding Director of the Access to Knowledge for Development Center (A2K4D), Cairo, Egypt

Emma Salgard Cunha

Project Lead of Arts, Humanities, and Social Sciences at Cambridge Enterprise, United Kingdom

Magnus Gulbrandsen

Professor in TIK Centre for Technology, Innovation, and Culture, Oslo, Norway

Public Engagement & Co-Creation

The importance of society should not be underestimated, but how can you most effectively connect with these stakeholders?

Rasigan Maharajh (Chair)

Node Head, Department of S&T and NRF Centre of Excellence in Scientometrics and S&T and Innovation Policy, South Africa

Jenny Hasenfuss

Engagement Manager for Public and Patient Innovation at Newcastle University

Diana Sanchez-Betancourt

Senior Researcher at HSRC, South Africa

Silaporn Buasai*

Deputy Director on Social Innovation at Thailand Research Fund, Bangkok, Thailand

Technology & Innovation Organisations (Roundtable)

Connecting people and knowledge by science-industry collaboration for the wellbeing of society

Anneline Morgan*

Senior Technical Advisor for Southern Africa Network for Biosciences

Iñaki San Sebastian*

CEO of Technalia Research & Innovation, Basque Country, Spain

Alejandro Olaya Davila*

Manager at ANDI, National Business Association of Colombia

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SOCIAL PROGRAMME

(more info will follow)



* To be Confirmed

Thursday 24 June 2021

Times in SA Time (GMT +2)

09.30-10.00 Registration

10.00-10.15 WORDS OF WELCOME

10.00 Cheryl de la Rey Vice-Chancellor of the University of Canterbury, New Zealand

10.15-11.45 MODELS, APPROACHES & LESSONS FOR THE DEVELOPMENT OF A RESEARCH IMPACT AGENDA

Topic description

10.15 Chris Brink Former Vice-Chancellor of Newcastle University (UK) & Chair of the 2020 Research Assessment Exercise Group, University Grants Committee, Hong Kong

10.30 Wendy Larner President of the Royal Society Te Apārangi, New Zealand

10.45 Johann Mouton Director of the DST-NRF Centre of Excellence in STI Policy, CREST, Stellenbosch University, South Africa

11.00 NRF Speaker

11.15 Panel and Q&A

11.45-12.15 Break

12.15-13.30 RESEARCH IMPACT ASSESSMENT AND COMMUNICATION: METHODOLOGIES

Assessment Beyond
Bibliometrics

Methods & Tools for Impact
Mapping

National Impact Evaluation
Frameworks (*Roundtable*)

Which types or methods of assessment are reasonable beyond the traditional academic impact factors to evaluate impact?

The methods and tools that have already been developed for assessing the societal impact of science

How can an overarching impact strategy help improve the value of science for society?

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Eric Jensen (*Chair*)

Assistant Professor in Sociology,
Warwick University, United
Kingdom

Sibylle Studer (*Chair*)

Project Leader at Swiss Academy of
Arts & Sciences, Switzerland

Marta Wroblewska

Chief Expert at National Centre for
Research and Development, Poland

Harsha Dayal

Director of Research Department
of Planning, Monitoring, and
Evaluation, South Africa

Nelius Boshoff

Chairperson at Centre for Research
on Evaluation of Science and
Technology, South Africa

Igor Campillo

Director of Euskampus Fundazioa,
Basque Country, Spain

Alan Paic

Senior Policy Analyst at OECD,
France

David Dooghe

Strategic Advisor & Researcher,
Environmental Planning Strategy &
Policy, TNO, Netherlands

NRF Delegation

More sessions on the next page

Thursday 24 June 2021 (continued)

Times in SA Time (GMT +2)

12.15-13.30 RESEARCH IMPACT ASSESSMENT AND COMMUNICATION: METHODOLOGIES (continued)

Impact Assessment for Effectiveness	The Role of AI, Big data & other Technical Developments	Demonstrating Effectiveness of Impact on SDG's (<i>Roundtable</i>)	
<p><i>How to assess societal impact to make it more effective for research and funding institutions</i></p> <p>Barend van der Meulen (<i>Chair</i>) Professor of Institutional Aspects of (Higher) Education, University of Twente</p> <p>Heidi Van Rooyen Group Executive of the Impact Centre at the Human Sciences Research Council, South Africa</p> <p>Pauline Tay Deputy Director Innovation and Enterprise/Strategy, National Research Foundation, Singapore</p>	<p><i>Developments in technology has created multiple opportunities, but also obstacles for impact. What is the best approach?</i></p> <p>Katrine Weisteen Bjerde* (<i>Chair</i>) Director of Research Services, UNIT, Norway</p> <p>Albert Ko Director of Lingnan Entrepreneurship Initiative, Hong Kong</p> <p>Rachel Adams Chief Research Specialist, African Histories of Technology, Human Sciences Research Council (HSRC), South Africa</p>	<p><i>How can we best assess the most effective way to employ science for grand challenges such as the SDGs?</i></p> <p>Simon Kerridge Director of Research Services at the University of Kent</p> <p>Margaret Biggs* Chairperson of International Development Research Centre, Ottawa, Canada</p>	<p><i>Attendees may freely choose to join any of the Parallel Sessions in RED, which will contain 3 to 4 presentations and an interactive discussion or Q&A</i></p> <p><i>Please note that the Roundtable session in PURPLE accept only 20 participants (pre-registration is advised) who will engage in interactive discussions guided by the invited coordinators</i></p>

13.30-14.15 Lunch break

14.15-16.00 CLOSING PLENARY

14.15	Carlos Henrique de Brito Cruz	Senior Vice President, Research Networks, Elsevier
14.35	AESIS	Presenting the Recommendations from parallel sessions
14.55	<u>Interactive Closing Panel</u>	
	Cheryl de la Rey (<i>Chair</i>)	Vice-Chancellor of the University of Canterbury
	Mlungisi Cele	Acting Chief Executive Officer, National Advisory Council on Innovation, South Africa
	Carlos Henrique de Brito Cruz	Senior Vice President, Research Networks, Elsevier, Brazil
	Yuko Harayama	Executive Director of International Affairs at RIKEN, Japan
	Willie Pearson*	Professor of Sociology at the School of History, Technology, and Society at Georgia Institute of Technology, United States
15.45	Closing remarks by Cheryl de la Rey	

At the start of the debate the audience can vote between 8 to 10 questions or statements.

The top 3 will be debated by the panel members.

16.00 End of the conference day

* To be Confirmed

Friday 25 June 2021

Times in SA Time (GMT +2)

09.30-10.00 Registration

10.00-10.15 WORDS OF WELCOME

10.00 Cheryl de la Rey

What did we achieve on the first days and how does it relate to the last day's programme?

10.15 PROMOTING COHERENCE ABOUT IMPACT WITHIN THE SCIENCE ECO-SYSTEM

Topic Description

10.15 **Juliet Gerrard** Chief Science Advisor, Office of the Prime Minister, New Zealand

10.30 **Ernest Aryeetey** Secretary-General of the African Research Universities Alliance (ARUA) and former Vice-Chancellor of the University of Ghana

10.45 **Toby Smith** Vice President for Policy at the Association of American Universities, USA

11.00 **Daya Reddy** President of International Science Council, South Africa

11.15 Panel and Q&A

11.45-12.15 Break

12.15-13.30 COLLABORATION (STRUCTURES) & ENGAGEMENT FOR IMPACT OF SCIENCE

Mass Media & Communication

Academic-Business Relations for Innovation

Addressing local community challenges (Roundtable)

The opportunities and challenges of (social) media as a bridge between science and society

How to improve the long-term relation between business and science and make sure there is broad positive impact

About why community engagement is crucial in producing excellent and usefull research

Paul Manners (Chair)
Founding Director, National Co-ordinating Centre for public engagement, UK

Heidi Kinunnen (Chair)
Deputy Head at Helsinki University, Finland

Malgorzata Drewnicka
President of the Management Board at Malopolska Regional Development Agency, Poland

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Ger Hanley
Founder Write Fund, Republic of Ireland

Teketel Yohannes*
Academic Vice President of the Addis Ababa Science and Technology University, Ethiopia

Isabel Casimiro
President of CODESRIA, Mozambique

Dariusz Aksamit
President of the Association of Science Advocates, Poland

Ian Wright
Deputy Vice-Chancellor of Research and Innovation, University of Canterbury, United Kingdom

Marina Joubert*
Senior Researcher, Stellenbosch University, South Africa

More sessions on the next page

* To be Confirmed

Friday 25 June 2021 (continued)

Times in SA Time (GMT +2)

12.15-13.30 COLLABORATION (STRUCTURES) & ENGAGEMENT FOR IMPACT OF SCIENCE (Continued)

Building towards Evidence-Informed Policymaking

Using evidence based decision making for policy makers to make a well-informed joined decision for the population

David Goldston (*Chair*)

Director of MIT Washington Office, United States

Sibongile Muthwa*

Vice-Chancellor Nelson Mandela University, South Africa

Ashraf Bakr Al-Shareef

Consultant in Monitoring and Evaluation (M&E) and the institutionalization of RBM, Egypt

Madiagne Diallo*

Director of Planning and Studies at the Economic, Social, and Environmental Council of Sénégal

Sustainable Cross-border Cooperation

How can we bridge borders and connect institutions to build long-term collaborations for a science-based future

Ben Ku (*Chair*)

Associate Professor at the Hong Kong Polytechnic University

Getachew Engida*

Co-president of the China-Africa Leadership Development Institute, Tsinghua University

Sioux McKenna

Professor & Director of the Centre for Postgraduate Studies at Rhodes University, South Africa

Alejandro Olaya Davila*

Manager at ANDI, National Business Association of Colombia

Transdisciplinary Approaches for Excellence (*Roundtable*)

Excellence and impact can (often) be increased by interdisciplinary approaches in science, so how can we increase that?

Alice Rajewsky

Head of Sector for Humanities at the European Research Council

Sibylle Studer

Project Leader at Swiss Academy of Arts & Sciences, Switzerland

Nelson Torto

Permanent Secretary, Ministry of Tertiary Education, Research, Science and Technology, Botswana

Katherine Amato

Biological Anthropologist & Assistant Professor at Northwestern University, Illinois, United States

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13.30-14.15 Lunch break

14.15-16.15 RECOMMENDATIONS FOR THE SOUTH AFRICAN SCIENCE SYSTEM, AND BEYOND

14.15 Ranking the Recommendations

14.45 Audience - Remaining Questions and Debates

15.00 Closing panel

Cheryl de la Rey (*Chair*) Vice-Chancellor of the University of Canterbury

Beverley Damonse Group Executive: Science Engagement and Corporate Relations, National Research Foundation, South Africa

Isabel Casimiro President of CODESRIA, Mozambique

David Goldston Director of MIT Washington Office, United States

Nelson Torto Permanent Secretary, Ministry of Tertiary Education, Research, Science and Technology, Botswana

Daya Reddy President of International Science Council, South Africa

16.00 Closing remarks

16.15 Closing reception