

Human Capital Development and Scientific Excellence

Opportunities for growing networks, partnerships and collaborations

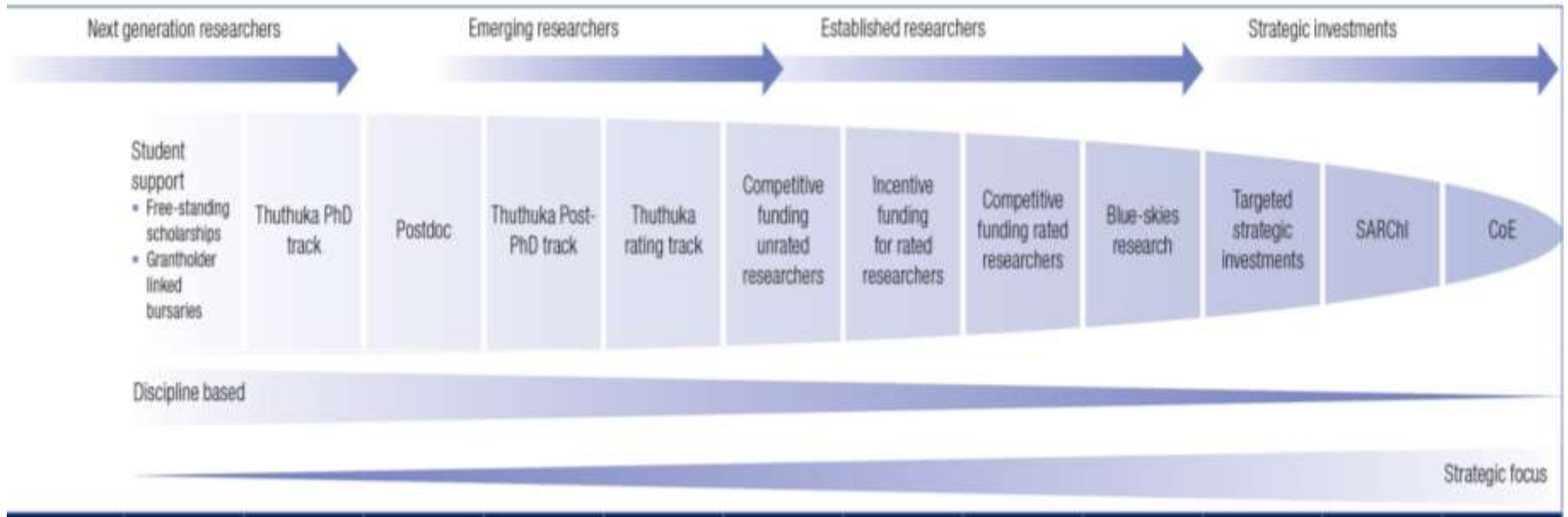
Funding instruments for research & innovation

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Human Capital Development Pipeline



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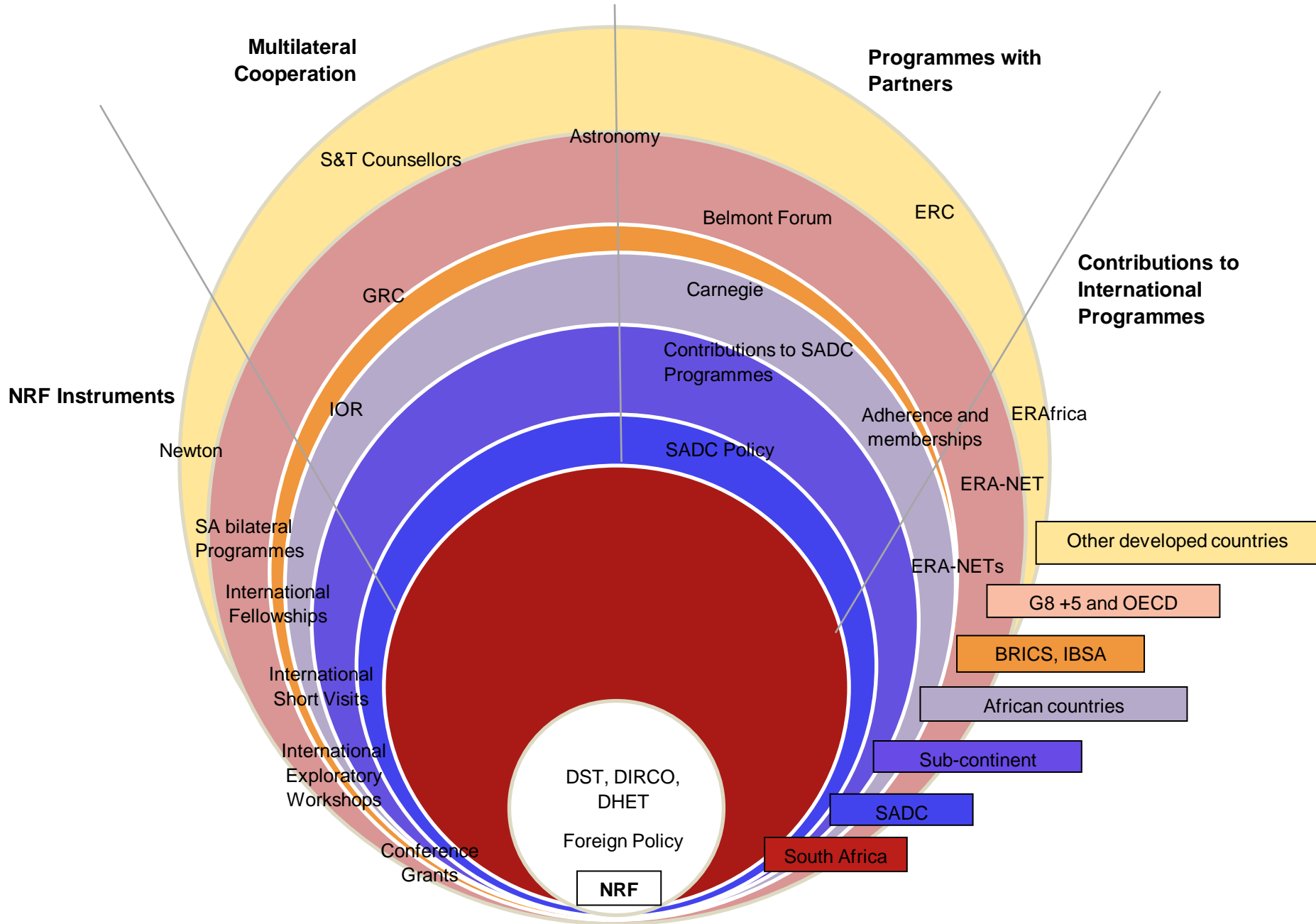


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Position of Internationalisation at the NRF

- “International Engagement”
 - Within the strategy wheel as a high level indicator of the NRF’s success from 2015 to 2020 (*Board imperative*)
 - Cross-cutter linked to many indicators
 - number of ISI publications with international co-authors, number of international engagements, access to international infrastructure ...
- Internationalisation and Mobility
 - 1 of 4 high level KPIs of the NRF

Strategic Partnership Matrix



Objectives of the IRC Directorate

1. To pro-actively contribute to the internationalisation of science and HE
2. To facilitate the generation and transfer of knowledge and technology to achieve international competitive status for South Africa
3. To enhance international science collaboration (networking), especially amongst developing economies (south-south-north collaboration)
4. To promote and support continental/regional scientific collaboration in order to contribute to socio-economic and sustainable growth on the African continent
5. To contribute to an enabling process of accessing international research opportunities
6. To contribute to the imperatives of redress and equity within the National Science System and thereby promote and support strategic human resource development as a contribution to the NSI

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1. To pro-actively contribute to the internationalisation of science and HE
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- 1. Enabling environment to internationalise the research platform**
- 2. Promote and support strategic human resource development**
- 3. Position and promote the NSI for recognition and support**
5. To contribute to an enabling process of accessing international research opportunities
6. To contribute to the imperatives of redress and equity within the National Science System and thereby promote and support strategic human resource development as a contribution to the NSI.

Global Engagement

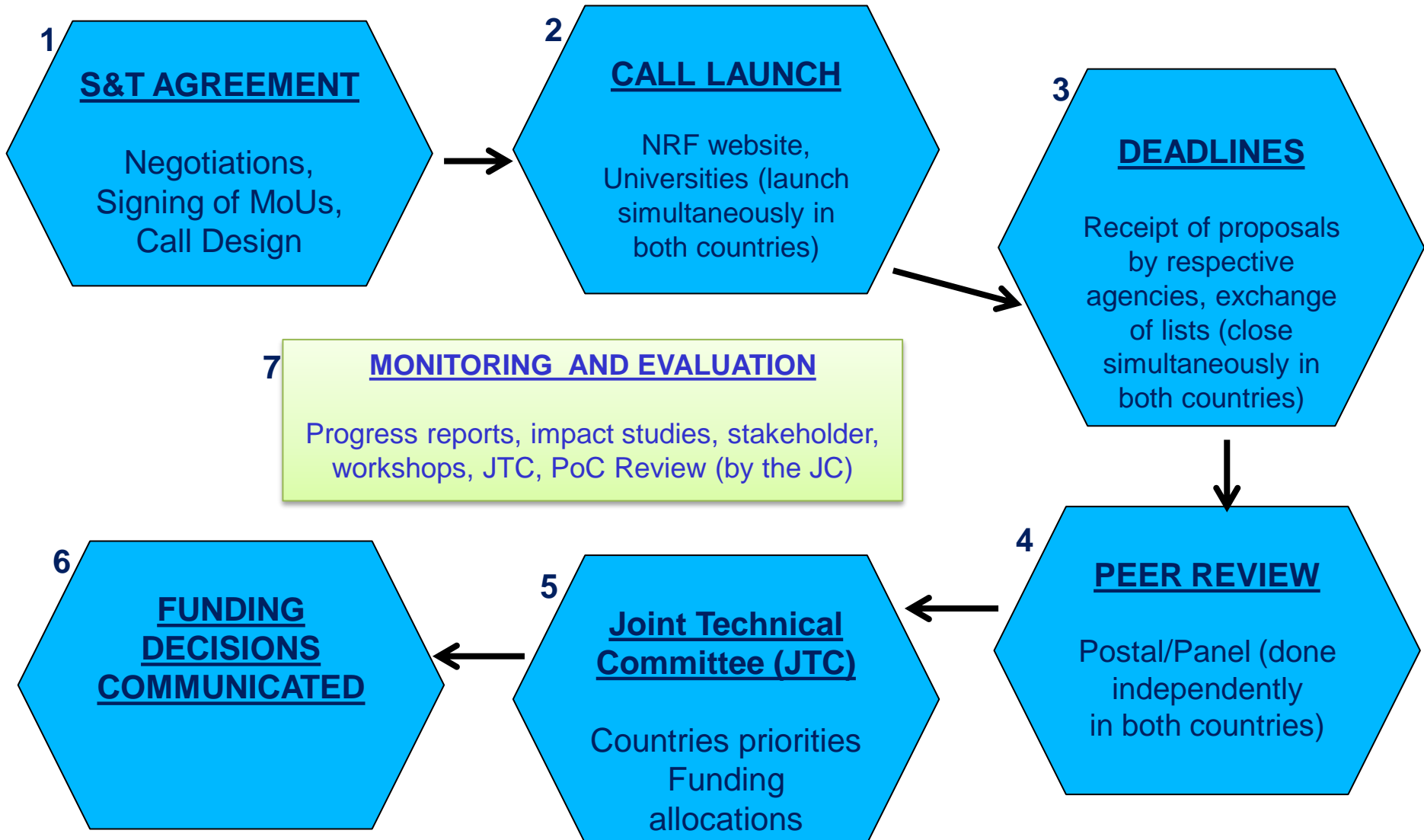


GLOBAL INITIATIVES

- A. **Newton Fund Collaboration** - United Kingdom
- B. **BRICS** - Brazil, Russia, India, China, South Africa
- C. **TWAS** - All developing countries
- D. **EraAfrica** - Africa and Europe
- E. **SKA** - United Kingdom, Netherlands, Sweden, New Zealand, Italy, India, Germany, China, Canada, Australia, Ghana, Kenya, Madagascar, Mauritius, Mozambique, Botswana, Zambia, Namibia
- F. **Science Granting Council Initiative** - United Kingdom, Canada, Burkina Faso, Cote d'Ivoire, Ethiopia, Kenya, Malawi, Mozambique, Namibia, Rwanda, Tanzania, Uganda, Zambia and Zimbabwe



Joint Call Cycle



1. Africa Cooperation Funding Instruments

the NRF's International Funding Landscape

Africa



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Why Cooperate with African Partners

- Knowledge exchange and human capital development - Ensure net flow of knowledge, capacity and resources between South Africa and the rest of the African continent
- Establish and service Africa cooperation relations and agreements with a view to strengthen the System of Innovation in SA and Africa .
- S&T partnerships - Ensure that Africa contributes to the global pool of scientific knowledge and technological innovations.

Thematic Areas

	Algeria	Angola	Egypt	Kenya	Mozambique	Namibia	Tanzania	Zambia	Tunisia
Material Science and Nanotech	Active	Active	Active	Not Active	Not Active	Not Active	Active	Not Active	Not Active
Space Sciences & Remote Sensing	Active	Active	Active	Active	Active	Active	Not Active	Active	Not Active
ICT	Active	Active	Active	Not Active	Not Active	Active	Active	Active	Active
IKS	Active	Active	Not Active	Not Active	Active	Active	Not Active	Active	Not Active
Biosciences & Biotech	Active	Active	Active	Active	Active	Active	Not Active	Active	Active
Health Sciences	Active	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Not Active	Not Active
Social Sciences & Humanities	Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active
Geosciences & Mineral Resources	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Active	Not Active
Energy	Active	Active	Active	Not Active	Not Active	Not Active	Not Active	Active	Active
Environment & Climate Change	Active	Active	Not Active	Active	Active	Active	Not Active	Not Active	Not Active
Mathematical Sciences	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Not Active
Agriculture	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Not Active	Not Active
Laser Technology	Active	Not Active	Active	Not Active	Not Active	Not Active	Not Active	Active	Not Active

2. Multilateral and Strategic Initiatives (MSI)

Researcher Links



- Internationalising South Africa's research platform
- Enhancing networking within the global science system
- Fostering collaboration in order to improve the quality of research outputs



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Researcher Links - Funding Instruments -1

1. Knowledge, Interchange and Collaboration (KIC)

Types of support

- Travel grants for Individual Researchers
- Visiting Foreign Researcher
- Africa Interaction
- Support for Local Scientific Events

2. International Council for Science Union (ICSU)

Types of support

- Travel Grants to South African researchers to participate ICSU related events
- Invited foreign speakers to participate in local ICSU-related conferences and workshops
- Support for hosting of ICSU-related events in South Africa

3. Joint Institute for Nuclear Research (JINR)

Types of support

- SA-JINR Student Practice - September of each year
- Researcher travel grants linked to the Student Practice
- Visiting Foreign Researcher

Researcher Links - Funding Instruments 1

4. Newton Fund South Africa

Types of support

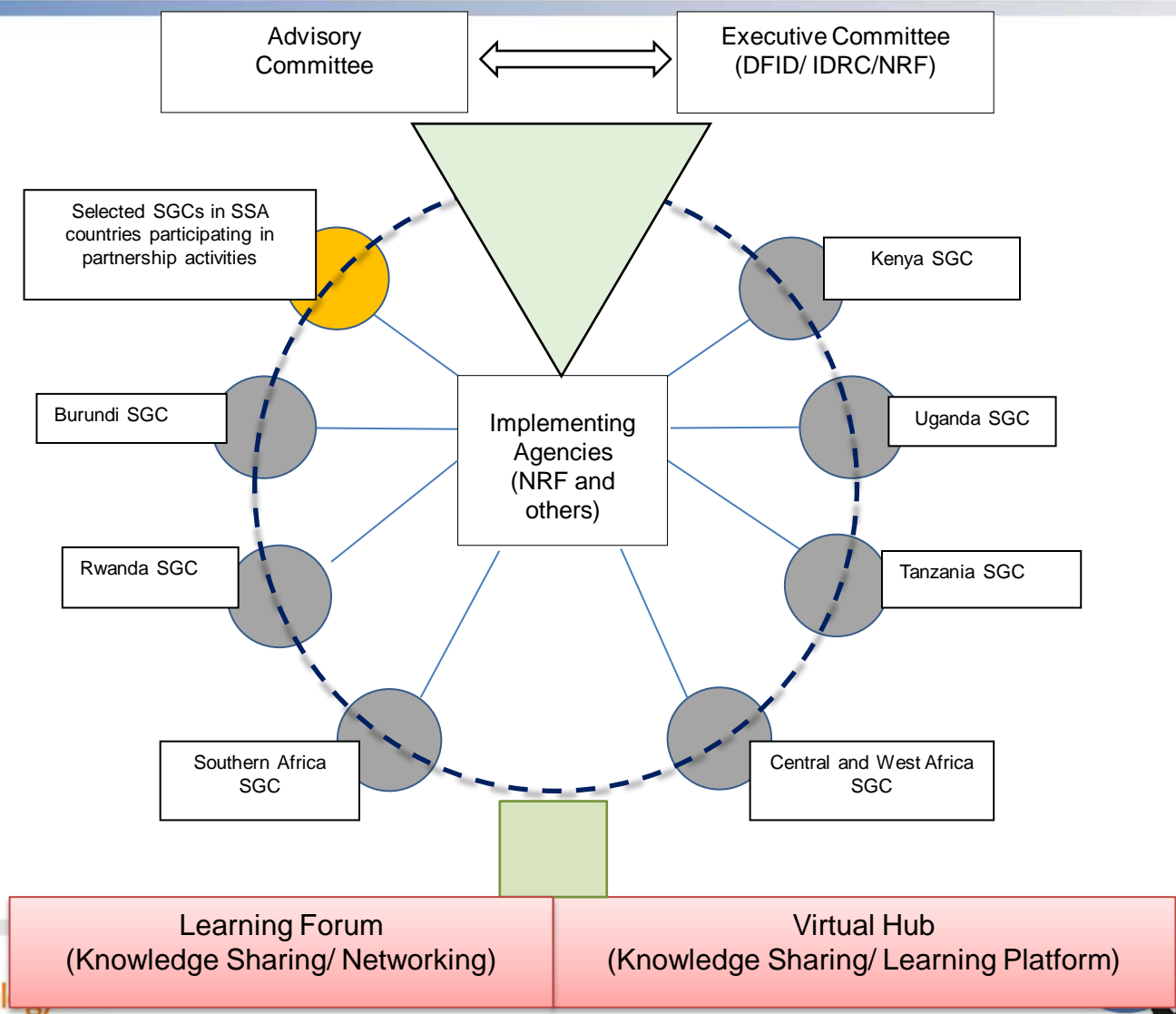
- Travel grants for Individual Researchers visiting UK
- Visiting UK Researchers
- Hosting of Scientific Events between UK and South Africa researchers

5. DST/NRF Conference Fund

Types of support

- Global conferences of more than 1 000 participants
- Grants are limited to a maximum of R2 mill. per conference (and a minimum of R250 000);

Strengthening Science Granting Councils in SSA



Southern African Systems Analysis Centre (SASAC)

Overall objective

- Strengthen systems analysis capacity in South Africa;
- Conduct research on common problems/challenges that require holistic and multifaceted approach;
- Increasing the participation of students and experts in policy related decision making.

Global Research Council (GRC) Regional meeting

16-18 November 2015, Namibia <http://ncrstna.wix.com/grcafrica>



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NCRST
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ON RESEARCH SCIENCE & TECHNOLOGY



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3. Overseas cooperation

Science and Technology Agreement between SA and Sweden

- **23 Nov 1999**: DST entered into an Agreement with the Swedish Ministry of Education.
- The NRF and the Swedish International Development Cooperation Agency (SIDA) were selected as the implementing agencies for this Agreement (which funded about 196 joint research projects).
- **13 Apr 2015**: NRF signed a new Agreement with the Swedish Foundation for International Cooperation in Research and Higher Education (STINT). Main objectives of this Agreement are to:
 - collaborate through the funding of joint research projects in all academic disciplines for scientific advancement of both countries;
 - have joint seminars, workshops and networking events; and
 - contribute meaningfully to research capacity development.
- The first joint call for proposals was launched recently and both Agencies have committed to fund seven joint projects over three years (2016 – 2018).

NRF/Embassy of Sweden Nobel Inspired Lecture Series

The NRF in collaboration with the Embassy of Sweden in Pretoria have committed to jointly host, on an annual basis, the Nobel Inspired Lecture Series.

The Lecture Series was launched in 2014 and annually brings together prominent researchers and students (both undergraduate and postgraduate) in the fields of Economic Sciences, Medicine/Physiology, Physics, Chemistry, Peace and Literature for an event coinciding with the announcement of the Nobel Laureates.

The Lecture Series aims to:

- acknowledge research excellence in South Africa and Sweden and celebrate the long-standing friendship between the two countries; and
- link both the South African and Swedish efforts to bridge the divide between science and community and help society to relate to how science, research and technology impact on day-to-day lives as well as future generations.

Strategic direction: Co-investment in Africa



- Bi- and Multilateral agreements
- ★ Agency-to-agency collaboration or special projects
- ★ Both Agency-to-agency collaboration and special projects

Strategic direction: IRC Granting

- Call schedule – (NRF system)
 - Increased turnaround time
 - Cluster call.
- Ad-hoc funding
 - Exception
 - Only online; phasing of mobility calls
 - Approaches only through DAs
 - Double approaches to DST – systems aligned
- Project leaders
- Institutional/ own contributions
- Collaborative applications
- Equity, diversity and institutional spread
- Africa focus
- Constructive engagements with stakeholders

Thank you



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