

OVERSEAS BILATERAL COOPERATION



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Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA



Presentation Overview

1. Strategic context
2. Thematic focus
3. Overseas Bilateral Cooperation
4. Portfolio of Partners
5. Instruments to facilitate bilateral cooperation
6. Examples of cooperation





Strategic Context

- National Development Plan
- New Growth Path
- 10 year innovation plan
- National Research & Development Strategy
- Knowledge driven economy





National Development Plan – 2030

- plan for the country to eliminate poverty and reduce inequality by 2030 through uniting South Africans, unleashing the energies of its citizens, growing an inclusive economy, building capabilities, enhancing the capability of the state and leaders working together to solve complex problems.



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New Growth Path

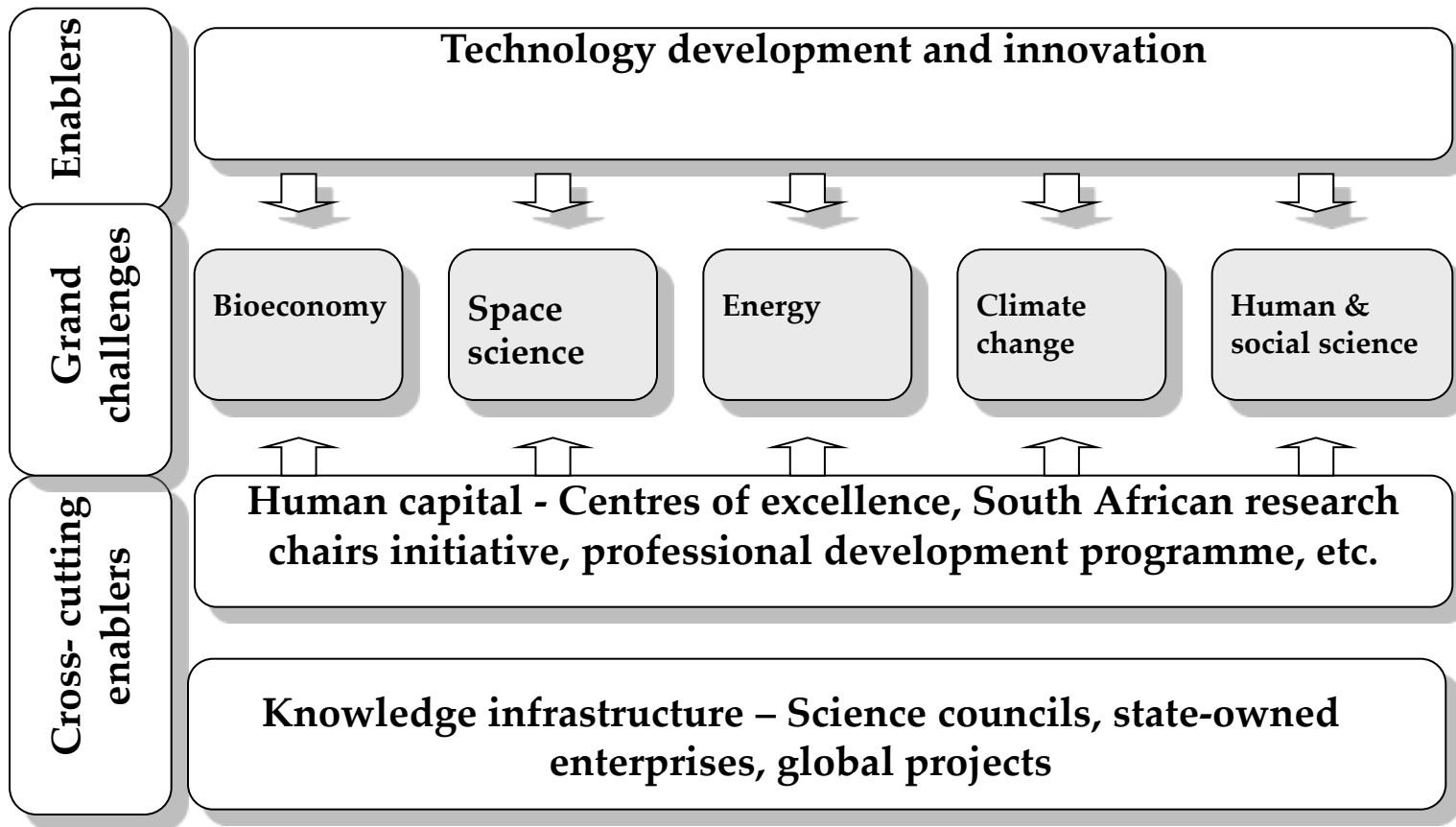
- The vision to place jobs and decent work at the centre of economic policy. It sets a target of five million new jobs to be created by 2020. It sets out the key jobs drivers and the priority sectors that we will focus on over the next few years.
- It is based on strong and sustained, inclusive economic growth and the rebuilding of the productive sectors of the economy.



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Thematic focus - Ten-year innovation plan



- Investment plan based on strategic priorities





Thematic focus

- Information and Communication Technology
- Social Science & Humanity
- Astronomy
- Health Innovation
- Urbanisation
- Environment
- Space



Examples recent S&T developments

- Bioeconomy strategy
- ICT roadmap
- Innovation (Technology innovation agency)
- National Intellectual Property Management Office (NIPMO)
- South African National Space Agency (SANSA)





Overseas Bilateral Cooperation

- Strategically develop, promote and manage bilateral relationships
- Facilitate an exchange of knowledge, capacity and resources between South Africa and its bilateral partners
- Support South African foreign policy through science diplomacy





Portfolio of Partners

- **Range of partnerships**

- **EU member countries**
- **Non-EU countries**
- **Active bilateral S&T agreements, MOU, institutional collaboration**





Instruments to facilitate bilateral S&T cooperation

- Joint research projects (research calls, exchanges, ...)**
- Flagship programs / Initiatives**
- Student opportunities (scholarships, etc)**
- Other mechanisms as agreed and implemented with partners (e.g research chairs)**
- Policy dialogues**
- Strategic workshops**
- Industry partnerships**
- Institutional collaboration**
-**





Instruments to facilitate bilateral S&T cooperation

- Joint Committee meetings
- Bi-national Commissions
- High Level Consultations





Joint R&D Calls

□ Examples of Joint R&D call themes

- France (Nanoscience/Nanotechnology, life sciences, biotechnology, energy, humanities/social sciences, astronomy)
- Switzerland (Public health and bio-medicine, biotechnology, nanotechnology and human and social sciences) (bioeconomy)
- Germany (Astronomy, bioeconomy, climate change, urbanization HCD, health innovation, social sciences and humanities)
- Norway (climate change, environment and clean energies)





Joint R&D Calls

□ Examples of Joint R&D call themes

- Italy (Astrophysics, ICT, biotechnology, new advanced materials, nanotechnology, environment and energy)
- Flanders (Climate Change, Health Innovation, Urbanisation, Environment)
- Romania (biotechnology, information communication technology; climate change, energy; applied physics, new materials and technologies, social science and the humanities (including health sciences) and space cooperation.
- UK (biomedicine, agriculture, biotechnology, environmental protection and the utilisation of natural resources)





Example - Bioeconomy & health innovation

- HIV drug Discovery from Medicinal Plants
- Analyses of Geographical Patterns of Malaria Transmission & Mortality in Africa using Bayesian Spatio-Temporal Modelling
- Molecular Mechanisms of Propionate Catabolism in *Myobacterium Tuberculosis*





Example – Social Science & Humanities

- Archiving indigenous knowledge –
 - Hoffman collection of northern Sotho Cultural Heritage





Example – Flagship project – Inkaba yeAfrica

- Earth science communities to study the Earth System in all its complexity and to provide a platform of excellence in research training and capacity-building
 - 20 subprojects involving topics such as food security & soil degradation, biodiversity, climate change adaptation, formation & effective use of mineral resources, structure and geologic history of the SA continent





Example – HCD

- Regarding human capital development - model for cooperation -Technical Institute
- The model focuses on providing training in electrical and electronic engineering
- The model offers: training in B.Tech; dual M.Tech/MSc and D.Tech/PhD degrees; and training of professionals and academic staff – from SA & partner institutions





Thank You

