





## **Presentation Outline**

- Research focus
  - Organising frameworks
  - Research programmes
- Funding instruments and opportunities
  - DST managed
  - External funding and support





## **GC Research Plan**



- ✓ Key principles underlying GCRP include:
  - √ Adopts a systems approach;
  - √ Trans/inter and multi-disciplinary approach to research;
  - ✓ Recognition of SA's advantageous geographical location of being surrounded by three oceans that influence the climate system of the region
- ✓ 4 knowledge areas and 18 research themes, with specific research questions



## A

#### Understanding a changing planet

- Observation and monitoring
- 2 Dynamics of the oceans around southern Africa
- 3 Dynamics of the complex internal earth system
- 4 Linking the land, air and sea
- 5 Improving model predictions at different scales

## Reducing the human footprint

- Waste-minimisation methods and technologies
- 2 Conserving biodiversity and ecosystem services
- 3 Institutional integration to manage ecosystems and ecosystem services
- 4 Doing more with less

#### C Adapting the way we live

- 1 Preparing for rapid change and extreme events
- 2 Planning for sustainable urban development in a South African context
- 3 Water security for South Africa
- 4 Food and fibre security for South Africa

## Innovation for sustainability

- 1 Dynamics of transition at different scales – mechanisms of innovation and learning
- Resilience and capability
- 3 Options for greening the developmental state
- 4 Technological innovation for sustainable socialecological systems
- 5 Social Learning for sustainability, adaptation, innovation and resilience

## A

#### Understanding a changing planet

- 1 Observation and monitoring
- 2 Dynamics of the oceans around southern Africa
- 3 Dynamics of the complex internal earth system
- 4 Linking the land, air and sea
- 5 Improving model predictions at different scales

## Reducing the human

footprint

- Waste-minimisation methods and technologies
- 2 Conserving biodiversity and ecosystem services
- 3 Institutional integration to manage ecosystems and ecosystem services
- 4 Doing more with less

# **C**Adapting the way we live

- 1 Preparing for rapid change and extreme events
- 2 Planning for sustainable urban development in a South African context
- 3 Water security for South Africa
- 4 Food and fibre security for South Africa

## Innovation for sustainability

- 1 Dynamics of transition at different scales – mechanisms of innovation and learning
- 2 Resilience and capability
- 3 Options for greening the developmental state
- 4 Technological innovation for sustainable social-ecological systems
- 5 Social Learning for sustainability, adaptation, innovation and resilience



## **Key programmes & initiatives**





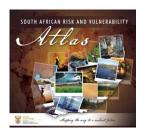


Applied Center for Climate & Earth Systems Science











RVSC

FBIP

ESSFP

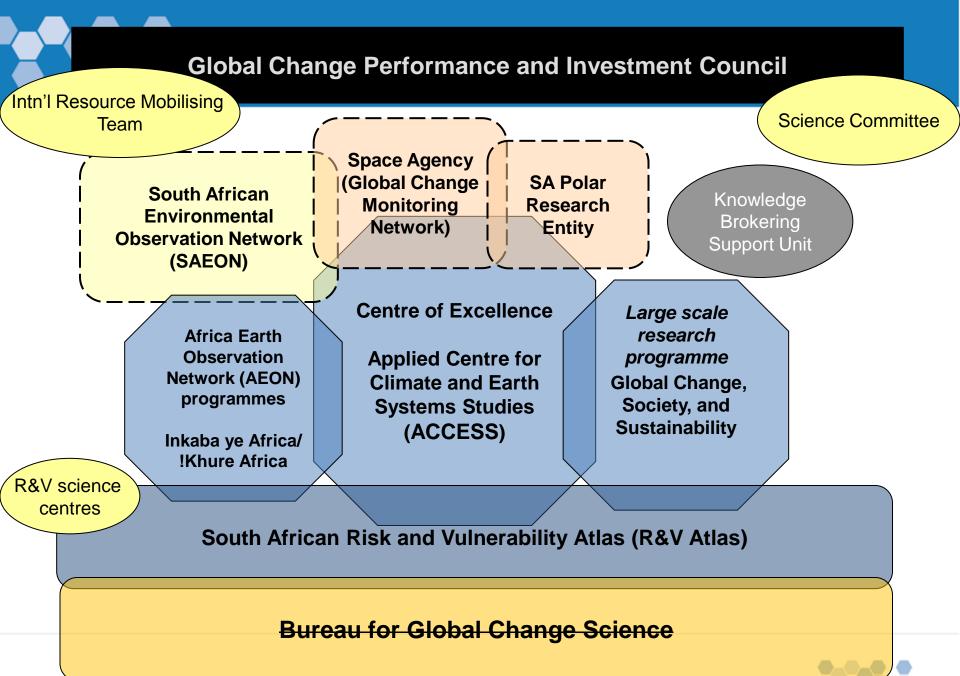


SADC STI-IFCC 2020

FUTURE EARTH HORIZON 2020

**OTHERS** 





## Funding Instruments & opportunities

- Funding covers research, HCD and infrastructure
- SARChI Five (UCT, RU, NMMU; WITS); R3m/annum
- COE 11 (ACCESS); R 8-10m
- Bursaries High-end skills; SARChI linked, targeted (programme linked) or free standing
- Infrastructure Research facilities; SARIR (SA Marine and Coastal Research Infrastructure); programme linked
- Researchers support mobility; training; participation in international collaborative research; research grants





## **Thank You**

