



DST / NRF CENTER OF EXCELLENCE

ACCESS

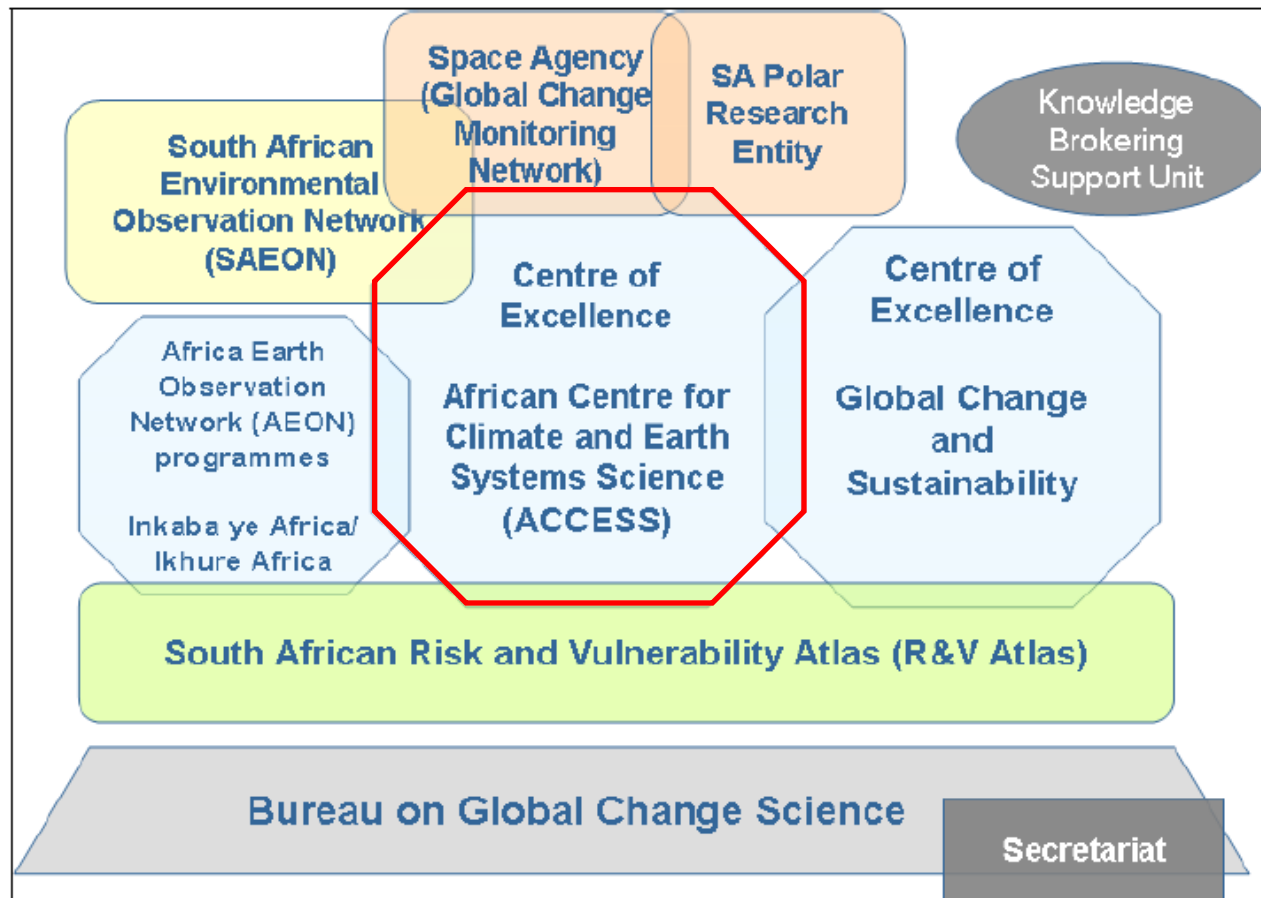
African Center for Climate and Earth Systems Science

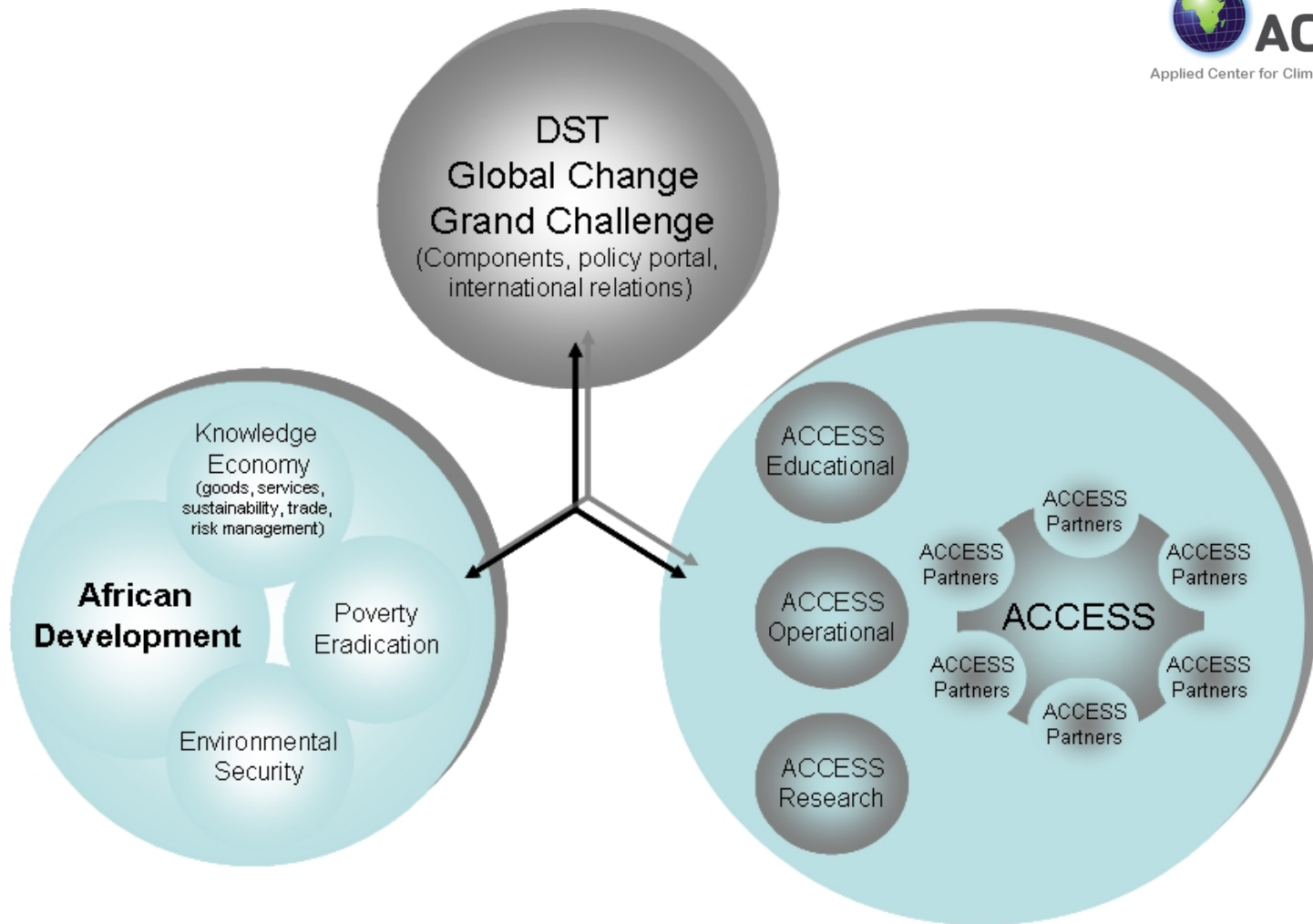
Dr Neville Sweijd (CSIR)

Manager: Coasts and Oceans Competence Area

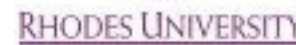
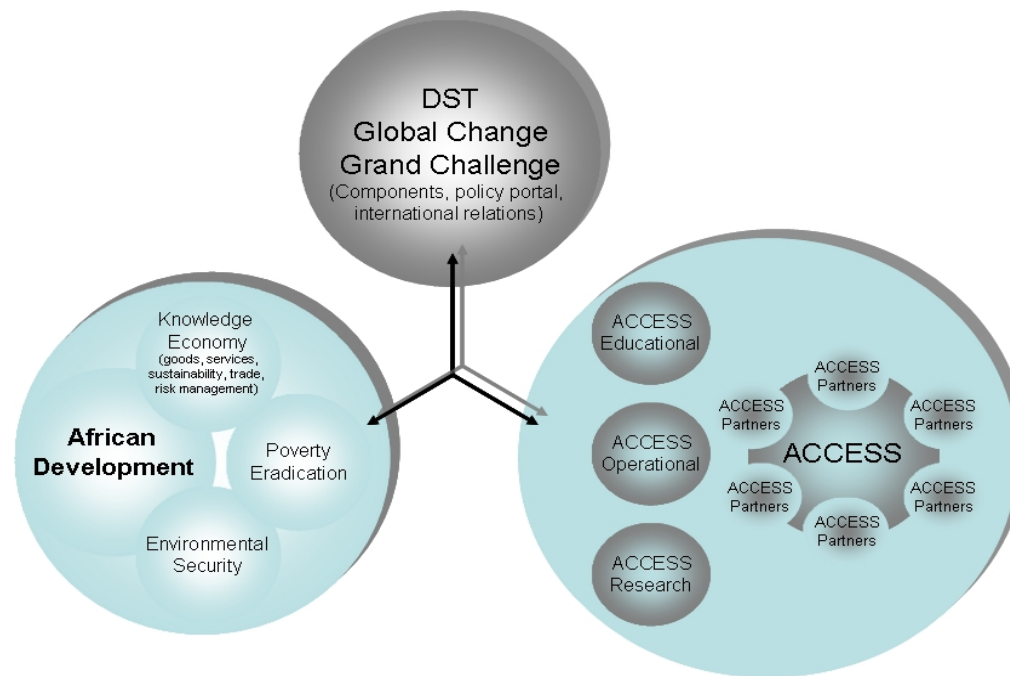
INNOVATION TOWARDS A KNOWLEDGE-BASED ECONOMY Ten-Year Plan for South Africa (2008 – 2018)

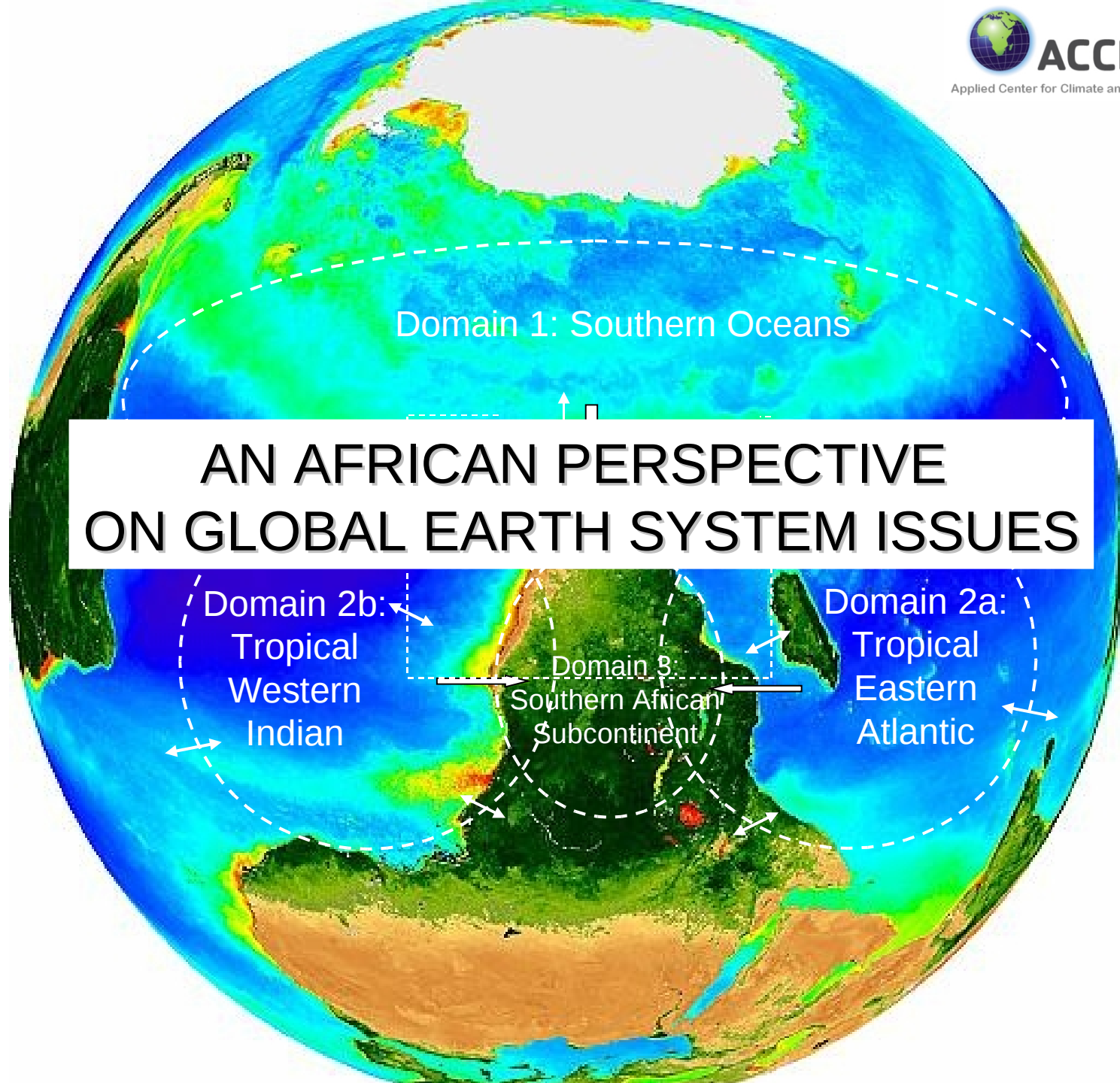
DST 10-yr Global Change Research plan and Architecture

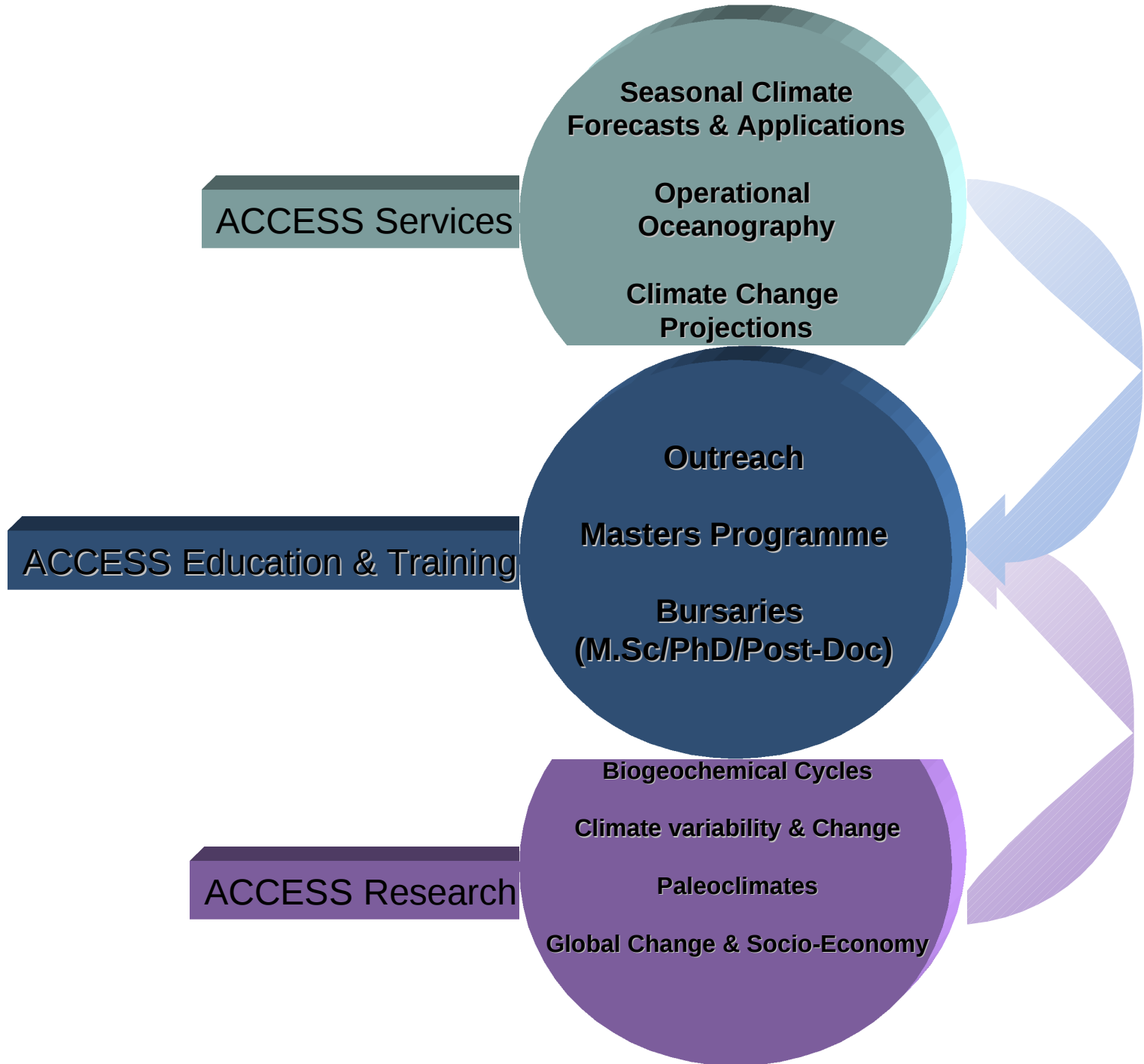




ACCESS is a “development through science” programme, addressing regional needs, by developing capacity to engage regional and global environmental challenges, and maximising the advantage of our unique social and natural assets.







Climate Change is a serious problem and poses many challenges - we need an equitable and appropriate response.

Climate Change is not the only threatening problem facing humanity, now or in the future – especially in the developing world.

Climate Change presents opportunities and there is still hope for a better future for all (but we can't be complacent).

Sub-Saharan Africa is in a unique developing world position to lead in this regard.

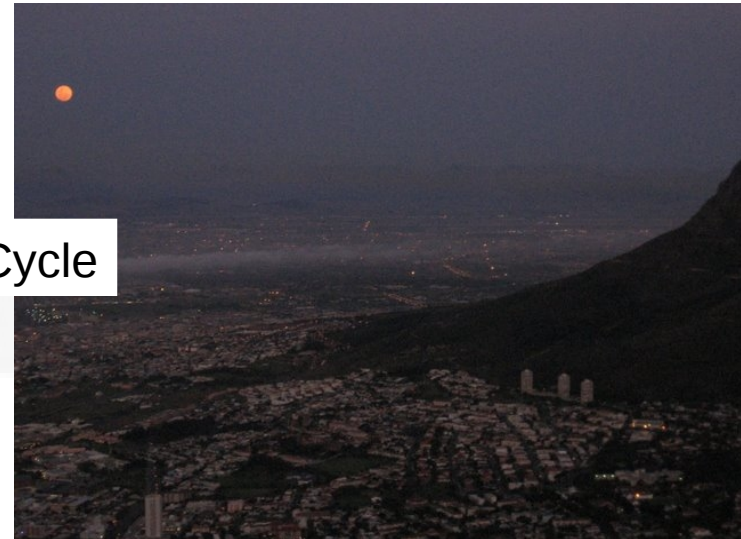
WHAT CAN YOU DO ?

- Ensure that change is anticipated – implement adaptive, flexible, informed management in our institutions and governance structures.
- Build diversity and contingencies into policy.

We are currently mal-adapted to variability and change (particularly among the poor)



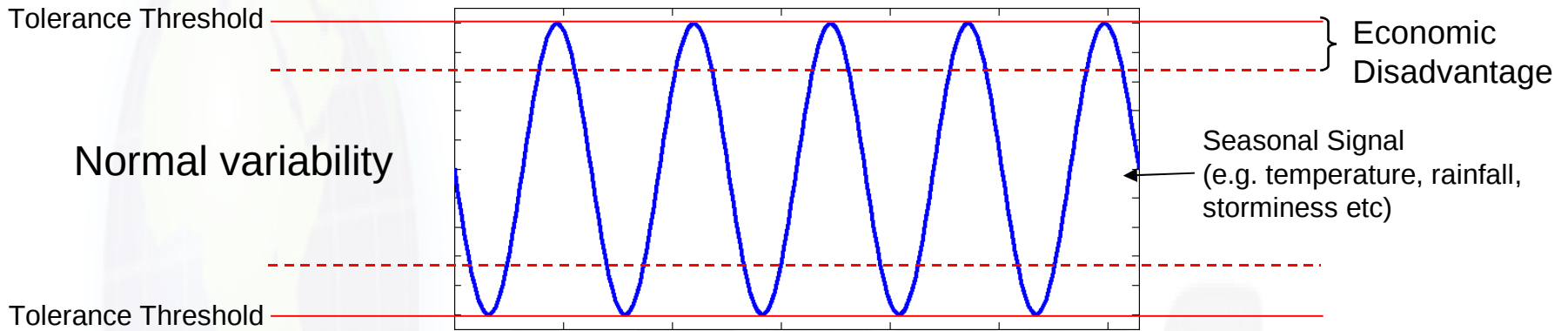
Daily Cycle



Annual Climate Cycle



We are currently mal-adapted to variability and change (particularly among the poor)



Poor environmental management / building in harms way / shifting baselines / generational amnesia

RUNOFF



STORM SURGE



FLOODING



Just plain stupid....



Poor people have fewer resources with which to cope with natural variability and change

Prevalent diseases with climate / poverty related aspects:

Malaria

Cholera

Diarrhoea

Pneumonia

(Red Cross Children's Hospital / HIV & Nutrition /
Infant Mortality in the Western Cape)



Poor people have less resources with which to cope with natural variability and change

WHAT CAN YOU DO ?

- Eradicate Poverty
- Improve environmental management



We need to improve knowledge & understanding of earth systems and the impact of change (in order to forecast scenarios more accurately).

What are

What is

There are

How can

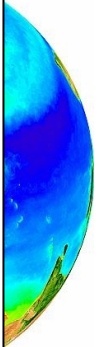
What is

How do
socio-econ

ies ?

WHAT CAN YOU DO ?

- Support home grown research



WHAT CAN YOU DO ?

- Use our CC response to address all society's ills in an integrated manner (with an emphasis on education).
- Ensure that an equitable and environmentally responsible development policy is implemented.

THIS IS WHAT **ACCESS** AIMS TO CONTRIBUTE TO....

WHAT CAN YOU DO ?

- Promote and support our continental programme

Thank you and good luck!