

The European Union's Seventh Framework Programme (FP7)

Opportunities for SA-French Collaborations in the Environment Theme

Ms René Le Roux

SA NCP for the Environment



SA's R&D Activities

Global Change Grand Challenge addresses issues of:

- Understanding a complex regional system- the emphasis will be on
 - understanding the **processes and drivers** of change in both the **biophysical** and **social** domains
 - understanding **system resilience** will be a major area of interest and
- Adaptive responses within a complex regional system- the focus on the effective application of existing and new knowledge to **meet societal needs** and to **build resilience** of the interconnected system in support of societal benefits



***Tropospheric ozone
budget***

***Atmospheric
pollution
chemistry***

***Ocean-
atmospheric-
interactions***

**Atmospheric
system**

***Physical
Oceanography
and Climate variability***

***Climate change,
Sustainable
agricultural and Water
resources***

***Mitigation and
Adaptation
Strategies***

*Climate change
and Biodiversity/
Ecosystem
functioning*

*South African
Biosystematics
Initiative: South
African Tree of Life*

*Sustainability
studies*

Terrestrial systems

*Biome-based
research*

- *Arid zone ecology*
- *Fynbos ecology*
- *Grassland science*
- *Thicket range
ecology*
- *Forestry science*

*Urban/rural
processes*

*People and
Ecosystem services*



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***Catchment
management***

***Biological
organisms as
indicators of
ecosystem health***

Freshwater systems

***Water and
Wastewater
technology***

***Water
pollution (and
human health)***

***Water supply
and Sanitation
technology***



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***Ecosystem
functioning***

***Ecosystems and
Change***

***Marine
biotechnology***

**Marine and
Coastal
systems**

***Fisheries
management***

***-Stock
assessments***

-Allocations

-Co-management

-Compliance

Marine aquaculture



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FP7 THEMES

- **Climate Change, Pollution and Risks**
- **Sustainable Management of Resources**
- **Environmental Technologies**
- **Earth Observation and Assessment Tools**

**SOUTH AFRICAN ENVIRONMENTAL
OBSERVATION NETWORK
(SAEOSS)**

SICAs relevant to Africa (3rd Call)

- **ENV.2009.1.1.5.1 Climate change predictions in Sub-Saharan Africa (east to west), quantification of impacts and assessment of adequate adaptation measures**
- **ENV.2009.1.2.1.2 Methods to quantify the impacts of climate and weather on health in developing low income countries**
- **ENV.2009.2.1.3.2 Desertification process and land degradation**
- **Area 6.4.1.4 Developing capacity building activities in the domain of Earth Observation in the new EU countries and in the developing countries**



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Other topics (not specifically SICCA)

- **ENV.2009.2.2.1.1 Options for Ecosystem-based management- marine environment**
- **ENV.2009.3.1.1.1 Adaptation of water supply and sanitation systems to cope with climate change**
- **ENV.2009.4.1.3.1 Contribution to observing systems for environment and health monitoring and modelling**
- **ENV.2009.2.2.1.4 Integrated Coastal Zone Management (*in SA: estuarine research*)**



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Further information: contact

SA NCP: Reneé Le Roux

renee@nrf.ac.za

Tel: +27 12 481 4056

