

Suggested Research Issues for Future Collaboration

- **Role of the Southern Oceans in the global climate change models and reducing uncertainties in regional climate change scenarios**
- **Sustainability Science and the dynamic Social-Ecological-System in developing economies.**
- **The implications of change to Cyanobacterial blooms driven by multiple factors such as change in temperature and nutrient regimes**



Suggested Research Issues for Future Collaboration

- Membrane ultra-filtration and the use of nanotechnology – research and development project on developing cheaper and more efficient membranes
- Energy and water
 - Food security-biofuels
 - Carbon footprints of the water industry
 - Energy from waste
 - Energy efficient water and waste treatment plants

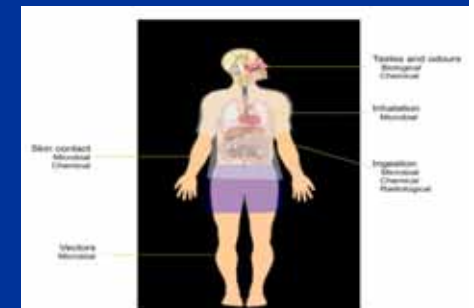


Suggested Research Issues for Future Collaboration

- **Water economic – developing methodologies to value the value of water using economic terms which will allow improved decision making i.e. value of water for the ecosystem, human health, industry, agriculture.**
- **Collaborative policies and strategies that allow for jointly achieving regional development goals & avoiding looming potential of conflict over water resources**

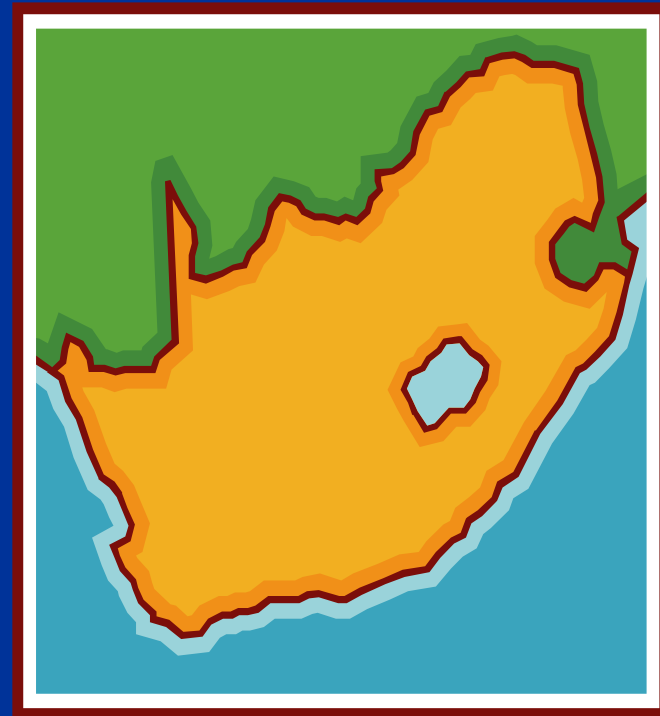
Suggested Research Issues for Future Collaboration

- **Water quality and the immune system – prevalence of diseases i.e. too clean? too dirty?**
 - Epidemiology studies poor and affluent communities
 - The immune compromised
 - Use of wastewater, urine for irrigation
- **Using deciduous human milk-teeth as a metric of human health risk within a population that has had chronic exposure to heavy metal and/or radionuclide contamination arising from the legacy of mine water management practices**



Suggested Research Issues for Future Collaboration

- **Researching new approaches for water management and the provision of water services**
 - **should the developing world follow current practices used by the developed world? are these practices offer a best case scenario?**
 - **can we collaborate and build an innovative, cost effective models, strategies, technologies for Africa?**



Suggested Research Issues for Future Collaboration

■ Remote Sensing

- More accurate mapping of water use, using high resolution satellite images
- Groundwater quantification – to improve ground water use confidence
- Land degradation monitoring and sediment loads

Suggested Research Issues for Future Collaboration

- Way forward
- EU-Africa - theme specific workshops to further identify projects
- Develop a process and a framework for collaboration
- Funding mechanisms
- ????????????????