

Wetland Research Supported by the Water Research Commission





Dr Rivka Kfir

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The Mandate of the WRC



The mandate of the WRC highlights the following functions to be carried out by the organisation:



Promoting co-ordination, co-operation and communication in the area of water research and development



Establishing water research needs and priorities



Stimulating and funding water research according to priority



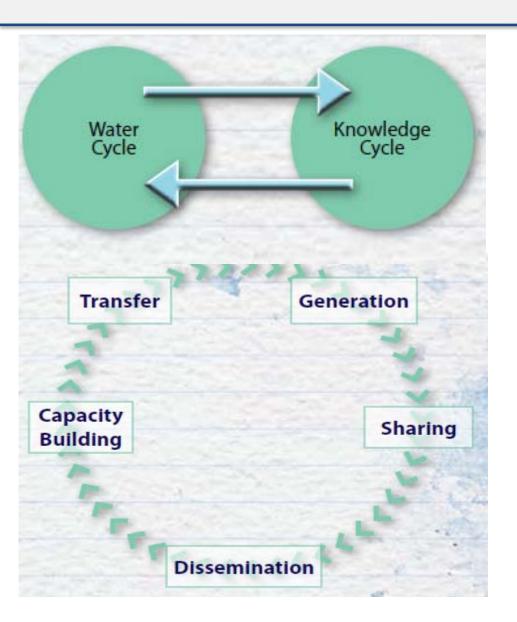
Promoting effective transfer of information and technology



Enhancing knowledge and capacity building within the water sector

The Strategic Context







- New knowledge
- Repackaged knowledge

Knowledge sharing
Knowledge dissemination
Knowledge transfer
The knowledge base
(capacity building)
Impact











Mission and Vision



Mission

The WRC is a dynamic hub for water-centred knowledge, innovation and intellectual capital.

We provide leadership for research and development through the support of knowledge creation, transfer and application.

We engage stakeholders and partners in solving water-related problems which are critical to South Africa's sustainable development and economic growth, and are committed to promoting a better quality of life for all.

Vision

To be a globally recognised leader in providing innovative solutions for sustainable water management to meet the changing needs of society and of the environment.











Overarching Goals - Impact Areas



Impact	Key Strategic Areas			
Society	_		Wat	Wa
Economy	Water resource management	Water linked ecosystems	Water use and waste management	Water utilisation in agriculture
Health				
Environment				











Knowledge Creation - Key Strategic Areas



Water Resource Management

- Water resource assessment & planning
- Impacts on water resources
- Water resource protection
- Water resource institutional arrangements

Water Linked-Ecosystems

- Ecosystem processes
- Ecosystem
 management and
 utilisation
- Ecosystem rehabilitation











Knowledge Creation - Key Strategic Areas (cont.)



Water Use and Waste Management

- Water services
- Water supply & treatment technology
- Sustainable municipal wastewater and sanitation
- Industrial & mine-water management
- Sanitation and hygiene education

Water Utilisation in Agriculture

- Food and fibre production
- Fuel wood and timber production
- Poverty reduction and wealth creation
- Resource protection and reclamation











Wetlands

environments



"Wetlands" is a term that includes a suite of ecosystems ranging from rivers, springs, seeps and mires in upper catchments areas to midlands marshes, pans and floodplains, to coastal lakes, mangrove swamps and aquatic environments

Water is the common driving force in the wetlands







The prolonged presence of water in wetlands determines both the soil characteristics and biota diversity or composition in that environment



Wetlands Services



Wetlands are important ecosystems, but they are threatened all over the world



Wetlands function like our bodies' kidneys by cleaning water; and this water treatment function is one of many services that wetlands provide (especially to the poor living in rural areas)



Provisioning Services (resources such as water, medicine and food)



Cultural Services (e.g. spiritual, recreational and aesthetic)



Regulating services (water purification, erosion and flood control etc.)



Supporting Services (nutrient cycling and soil formation)

Wetlands Research



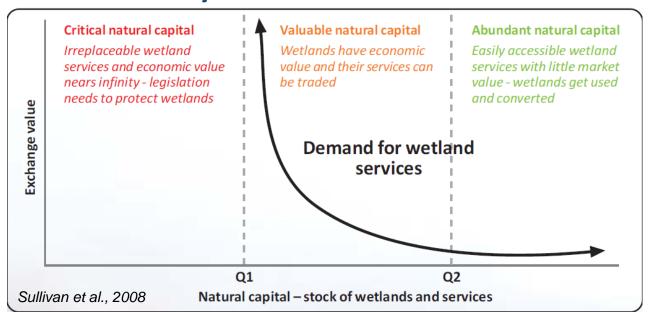
The WRC has three research thrusts that generate knowledge on wetlands (management, wise-use, protection and governance)



Ecosystems process



- Ecosystems management and utilisation
- and Ecosystems rehabilitation









Impact of WRC Wetlands Research





The WRC conducted a study to determine the IMPACT of its wetlands research in 2009/10











Financial Investment: WRC Wetlands Research



The study indicated that the WRC has invested (spent) about R50 Million between 2002-2009 (8 years)



 10% of the projects were co-funded with other institutions (stakeholders such SANBI, DWA, and DEA)



This indicates that the WRC is committed to supporting wetlands management and development.



This has been confirmed by the overall perception of the stakeholders that expressed the view that the WRC plays a key role in funding and managing wetlands research in South Africa





Projects: WRC Wetlands Research



The WRC has funded 67 projects in the past 8 years



The projects generated knowledge in:



Sustainable or Wise-use of wetlands



Protection and Management of wetlands



Policy and governance



Few projects on Resource Economics



Implementation of legislations



Biodiversity



Use of Project Reports: Knowledge Application



The WRC reports are used for variety of purposes by different people and organisations, such as:



Education and training (universities and consultancy organisations)



Policy formulation (policy makers)



Decision making and Governance support



- Environmental assessment (e.g. EIA)
- Planning.



"The WRC is held in high regard by all stakeholders and has a reputation for publishing credible research findings"



[Stakeholders views (WRC Impact study report, 2010)]

Impacts: WRC Wetlands Research



The WRC contributed in supporting social cohesion in the country by:



Involving female researchers in > 80% of the projects



55% of the researchers involved were HDIs



Each project had at least one postgraduate (MSC/PhD) student involved



The WRC research (view of stakeholders) has assisted in strengthening



Institutional arrangements



 Management (protection, development and rehabilitation)



Key Research Needs Expressed by Stakeholders



The following research needs were expressed:



Strengthen programmes addressing Resource Economics and Wise-use/livelihoods



Knowledge to enhance the Return of Biodiversity in wetlands



RSA to have a "National Wetlands Monitoring System" in order to have a systematic determination of long-term impact of wetlands interventions (use and rehabilitation)





Growing knowledge ca's water future



Thank you for your attention

