









Partners: DWS Regional Office, SALGA NC, Sol Plaatjie University, Frances Baard District Municipality

Dates: 12-13 March 2024

Venue: Sol Plaatje University (South Campus)

THE WATER RESEARCH COMMISSION'S NORTHERN CAPE PROVINCIAL PARTNERSHIP SUPPORT

Strengthening provincial water and sanitation resilience through research and innovation collaboration

1. Background

In 2023, the Water Research Commission (WRC) strategy was approved for implementation with the key focus on a stakeholder centric approach that drives strategic outcomes of an innovation driven water sector and climate resilience and adaptation in South African. Several engagements took place during the year with SALGA, Sol Plaatje University (SPU), Office of the Premier and various district and local municipalities to assess specific needs for the province. Key needs identified were limited capacity and skills, limitations in water supply availability, lack of integration of climate resilience and adaptation approaches into provincial and water sector long term plans and practice, drinking water quality issues, high non-revenue water, and sanitation service management and delivery. The WRC was able to match research, development, and innovation interventions to support development in the province over the next 5 years.

Thus, the WRC will be hosting in partnership with Sol Plaatje University, DWS regional Office, and SALGA NC a roadshow in Kimberley, Northern Cape on 12-14 March 2024. This event forms part of National Water Week theme for 2024 which is "Accelerating Change" and seeks to strengthen provincial water and sanitation resilience through research and innovation. This event aims to:

- 1) Announce the strategic interventions that the WRC is supporting in NC to accelerate change in water services, research, and development.
- 2) Conduct knowledge sharing sessions on key needs identified during the pre-engagements.
- 3) Showcase and engage with NC partners on innovations and knowledge products that will support improvements in service delivery.

The WRC Provincial follow up engagement should be viewed as a platform to empower municipalities in the province with research-based tools available to solve several issues relating to water and wastewater treatment failures and non-compliance to drinking water quality standards, groundwater management to name a few. While we aim to solve the problems of today, it is also important we maintain a view of the future and plan water services with climate change in mind. Diversified approaches are required to balance water supply and demand and there is a need to explore such innovations at a municipal level. Finally, such challenging problems can only be solved through significant partnership and collaboration, and the WRC aims to play catalytic partner role with the province of Northern Cape.

ANNEXURE A

Draft Programme

THE WRC NORTHERN CAPE PROVINCIAL ROADSHOW

Partners: DWS Regional Office, SALGA NC, Sol Plaatjie University, Frances Baard District Municipality

Day 1

Date: 12 March 2024 Time: 09h00 – 16h00 Venue: TBC

Chairperson: Water Research Commission, Board Member (tbc)

Day 1

Time	Session 1					
Plenary Presentations						
ACCELERATING CHANGE THROUGH PARTNERSHIPS						
08:00 - 09:00	Registration refreshments (tea/coffee)					
09:00 - 09:10	Welcome Remarks SPU	Sol Plaatje University (Prof Crouch or representative)				
09:10-09:20	Opening Remarks WRC	Dr Jennifer Molwantwa, WRC CEO				
09:20: 09:30	Stakeholder Engagement in NC Province	Dr Valerie Naidoo, Acting GE, Stakeholder and Impact				
09:30 -09:40	WRC RDI Interventions in NC Province	Prof Stanley Liphadzi, WRC, RDI Group Executive				
09:40- 09:50	Remarks from DWS NC Regional	DWS Regional Head				
09:30 -09:40	Remarks from SALGA NC	SALGA				
09:40 - 09:50	Remarks from COGHSTA	COGHSTA				
09:50 – 10:25	Keynote Address: Office of Premier The State of Water in NC	NC Office of the Premier (TBC)/COGTA				
	Session2					
ANNOUNCEMENT OF PARTNERSHIPS TO BE ESTABLISHED IN THE PROVINCE FOR SUSTAINABILITY OF WATER AND SANITATION SERVICES						
	Facilitator: Dr Mamohloding Tlhagale,	Head: Partnerships, WRC				
	Signing ceremony	WRC & Sol Plaatje University				
1000 1015	Launch of the Arid Water Centre: Building skills and expertise at	5-year MoA				
10:30 – 10:45	local level	,				
	5-minute remarks on partnership by CEO WRC and VC SPU					
	Signing ceremony	MADC and MACA (in callaboration				
	Training to improve operations for water services (green drop,	WRC and WISA (in collaboration with MISA and DWS regional)				
10:45-11:00	blue drop, and no drop)	with MisA and DWS regionary				
	5-minute remarks by WRC CEO Dr Jennifer Molwantwa and CEO					
	WISA Mr Lester Goldman					
	Signing ceremony					
	Training: Climate tools for preparedness and planning and asset	WRC and IMESA				
11:00 – 11:15	management	VINC and IIVILOA				
	5-minute remarks by President Mr Sibusiso Mjwara and WRC					
	CEO Dr Jennifer Molwantwa (tbc)					

11:15 -11:30	Multilateral agreement - MoA signing ceremony(tbc)	SALGA and CoGHSTA (tbc)			
11:30 - 11:45	Closure of plenary by Chair of WRC Board (tbc)	Dr Rethabile			
11:45 - 12:00	Networking				
12:00: 13:00	Lunch				
Session 3 Knowledge Transfer Workshops – Parallel sessions					
	Improving efficiency in the delivery of water and sanitation services (revenue collection, tariffing, and asset management)	Mr Jay Bhagwan, WRC and DWS Technical			
13:00 – 14h00	Water availability – groundwater as alternative source, water supply quality and pollution monitoring.	Dr Shafick Adams, WRC Executive Manager and tbc			
	Building resilience in water use in agriculture sector and possible RDI interventions.	Prof Sylvester Mpandeli, WRC			
14:00 – 14h30	Tea Break				
	Planning and decision support tools for extreme weather events (droughts and floods) – hydrogeological perspectives, water	Mr Wandile Nomquphu, WRC/ Dr			
14:30 – 15:30	resource monitoring tools and climate change solutions	Brilliant Petja			
14:30 – 15:30	resource monitoring tools and climate change solutions Water quality management and its significance - water reuse and recycling and contaminants				
14:30 – 15:30	Water quality management and its significance - water reuse	Brilliant Petja			

Day 2 continued......

Day 2

Draft Agenda

AN INNOVATION DRIVEN WATER SECTOR

Date: 13th March 2024 |Time: 09:00 -15:30 SAST

Chair: Mamohloding T or Virginia Molose or Manjusha Sunil

Item No.	TIME	DESCRIPTION	PARTICIPANT			
		SESSION 1				
	Opening Plenary: An Innovation Driven Water Sector					
1	08:00 – 9:00	Registration and refreshments				
2.	09:00 - 09:10	Welcome remarks	Chair			
3.	09:10 - 09:40	WRC Innovations Database overview and testbed partnerships	Dr Manjusha Sunil (WRC)			
4.	09:40- 09:55	Introduction of tech pitches	Chair			
	09:55 -10:20	Tea Break				
		INNOVATION TECHNOLOGY DEMONSTRATION				
		Session 2 10:30 – 12:30				
Each in		d as follows: To pitch for 10 minutes on their technology and participants can then engage at th	e pitch session and at individual Support provided by Dr Shafick Adams and Dr			
	T		Manjusha Sunil, WRC			
1.	LookseeDo – digital twins for remote operations and training					
2.	HydroBLU – machine learning for increasing accuracy of borehole drilling					
3.	Aquatrip for non-rev					
Full Recycling Toilets and Sludge beneficiation technologies			Support provided by Dr Valerie Naidoo and Ednah Mamakoa, WRC			
4.	Piloting a modified a	ctivated sludge process with zero sludge production (Vaal University of				
5.	Clear full reticulation	toilet				
6.	New Generation recy	cling toilet				
		Lunch break. 12:20 to 13:30				
		Session 3 13:30 – 15:30				
Water efficient Sanitation innovations and pour flush concepts.		Mr Jay Bhagwan, and Ednah Mamakoa, WRC				
7.	Envirosan					
8.	Loo Afrique					
Agricultural Management innovations		Prof Sylvester Mpandeli, WRC				

9.	Bag innovation Technology and relevant smart agriculture knowledge products	
10.	Agang Bokamoso Farms (AB Farms)	
	Closing remarks: CEO WRC or delegated rep (tbc)	
	Afternoon tea/coffee	