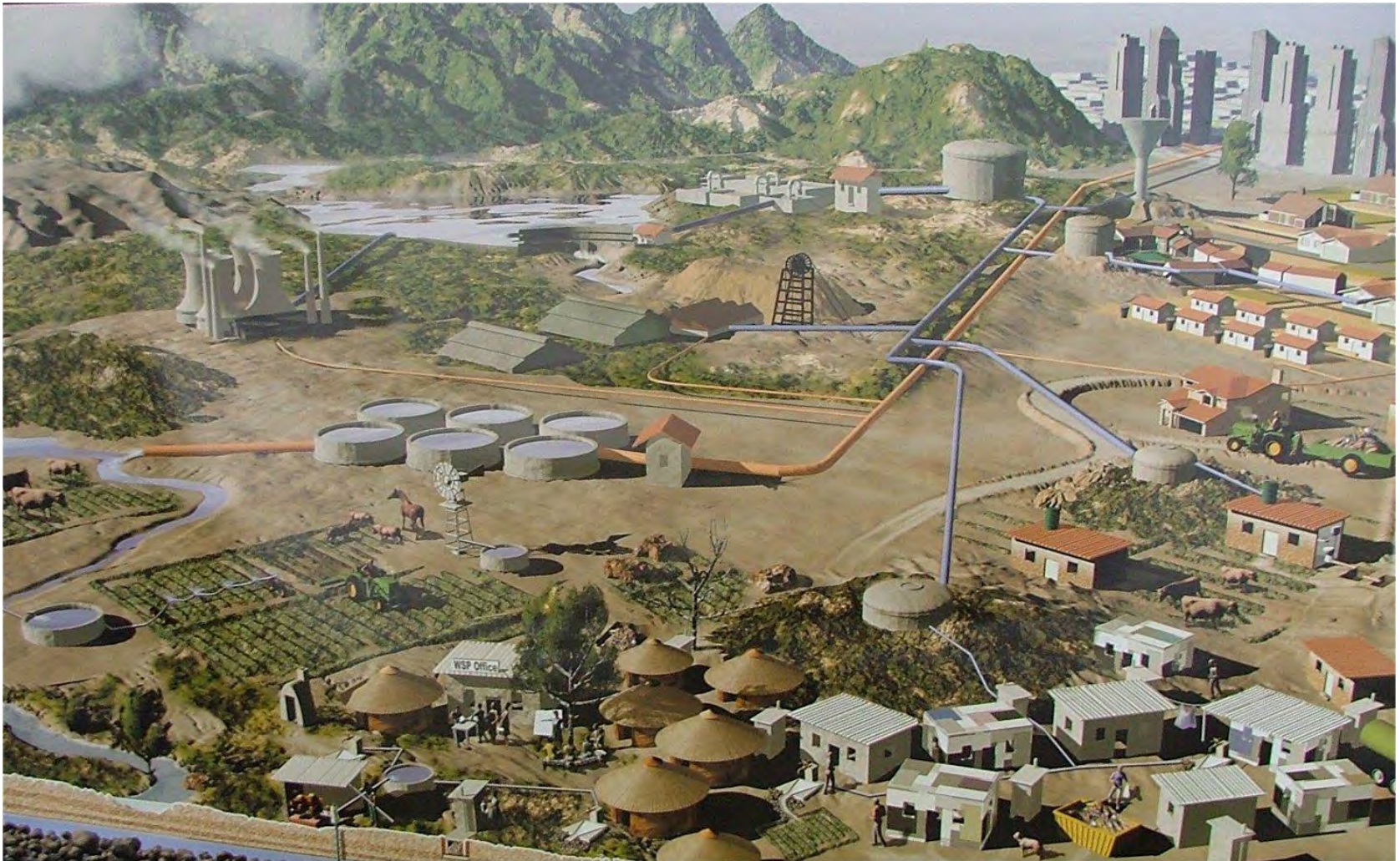


# WATER AND SANITATION TECH AND INNOVATION

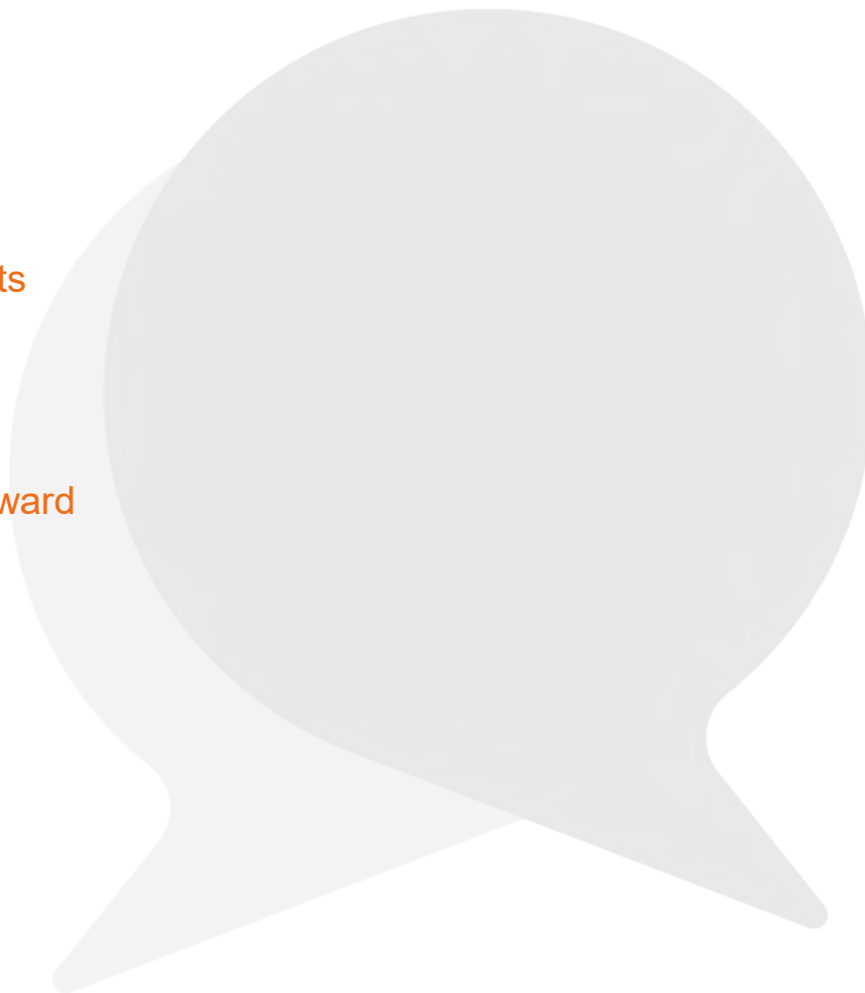
## 3<sup>rd</sup> BIO –GAS CONFERENCE

1-3 NOV DBSA

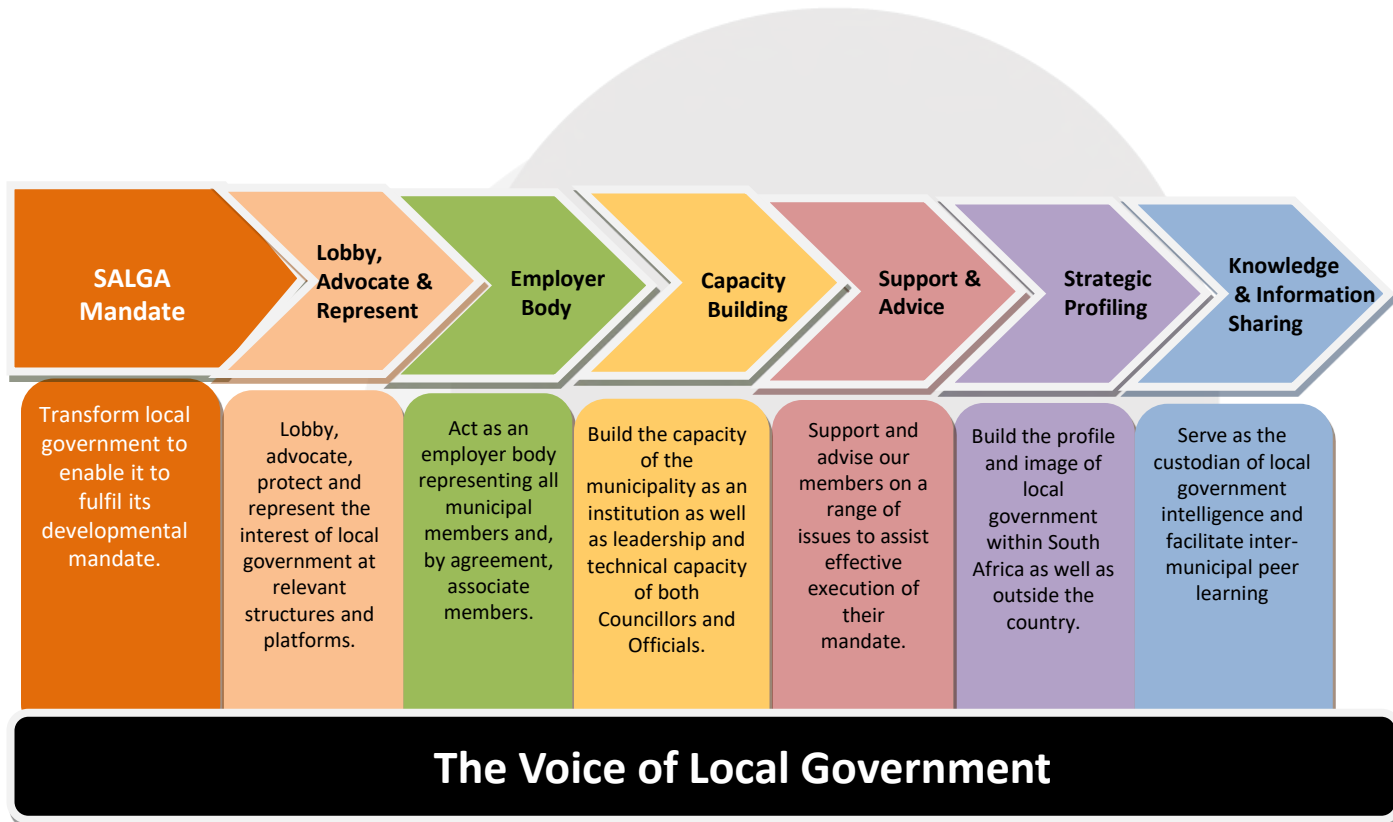


## CONTENT

- ❑ Who is SALGA
- ❑ Strategic Foresight
- ❑ Business Approach
- ❑ Implemented Projects
- ❑ Opportunities
- ❑ Suggested Way Forward

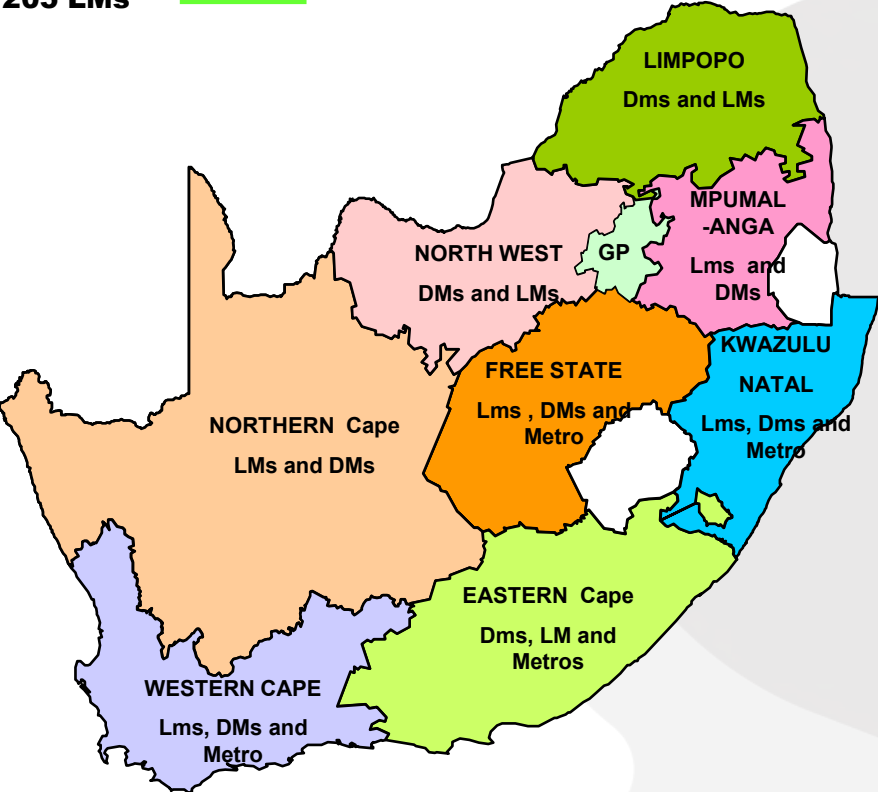
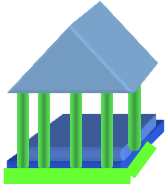


## OUR REASON FOR EXISTENCE



# SOUTH AFRICAN MUNICIPALITIES

**257 Munics**  
**8 metros**  
**44 DMs**  
**205 LMs**



## COMMUNITY SURVEY 2016

Provincial **Municipal**

### Population

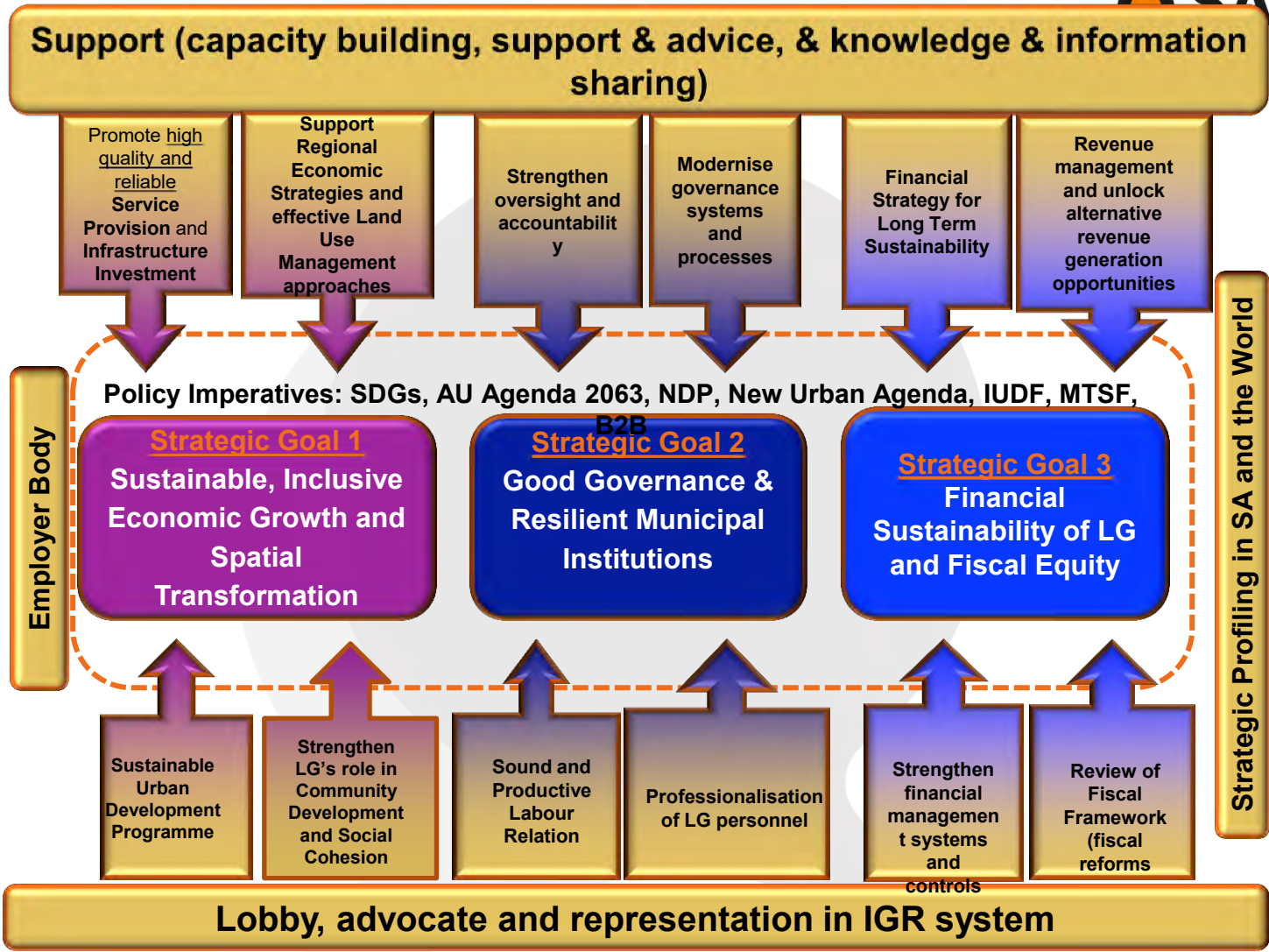
GAUTENG	13.4M	
KWAZULU-NATAL	11.1M	
EASTERN CAPE	7.0M	
WESTERN CAPE	6.3M	
LIMPOPO	5.8M	
MPUMALANGA	4.3M	
NORTH WEST	3.7M	
FREE STATE	2.8M	
NORTHERN CAPE	1.2M	



The South Africa I know, the home I understand



**THE  
STRATEGIC FORESIGHT  
OF SALGA 2017 -2022**





# OUR BUSINESS APPROACH

# Subscribe to Sustainable Development Goals and Targets



**President of SALGA and the United Cities of Local Governments**



## Our Approach

- ❑ Identification of common municipal infrastructure service delivery challenges and find solutions through **research**
- ❑ Identify **training opportunities** to support municipal infrastructure service delivery
  - Accredited Course
  - Collaborate with Municipal Institute of Learning (MILE)
- ❑ Facilitate **knowledge sharing and lessons** learning from innovations by others and by municipalities themselves
  - ❑ City Water Managers and Energy and Electricity Forums respectively
- ❑ Policy lobbying and advocacy to create a **conducive environment** for municipal infrastructure service delivery
  - Currently SALGA is engaging National Treasury in the reconfiguration of LG infrastructure grant system to enable local government to deliver services in a more sustainable manner

## Our Partners



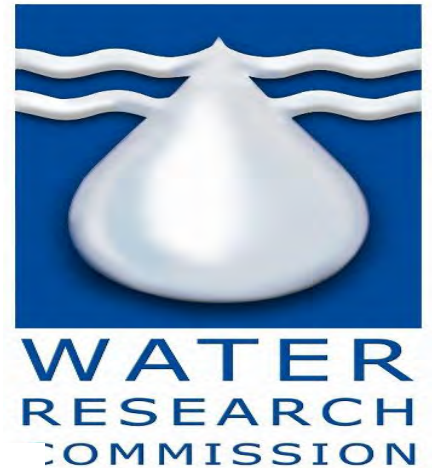
Government of the Netherlands



german  
cooperation

DEUTSCHE ZUSAMMENARBEIT

Implemented by:



Science and Technology  
Water and Sanitation



water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA



SOUTH AFRICAN LOCAL  
GOVERNMENT ASSOCIATION

**SALGA**

*Inspiring service delivery*



# IMPLEMENTED PROJECTS AND CAPACITY BUILDING



Energy Generations from water supply- Water Research Commission



Pour Flush Toilet – It uses 1-2 Litres of Water

**Building on the gains,  
Harnessing  
the knowledge and Replication**



Sludge to Energy: City of Joburg



Dewats Plant – EThekweni

# Capacity Building

- ❑ Infrastructure Skills Development Grant
- ❑ Annually Department of Science and Technology (DST) in collaboration with Hitachi exposes municipal engineers to Japan on Water Management and Technological Innovations
  - ❑ This is a two months scholarship that seeks to achieve the following:
    - ❑ Expose municipal engineers to water management in Japan
    - ❑ Learning exchange between the two Countries on good practices
    - ❑ Technological and Innovation exposure
    - ❑ Ploughing back the lessons learned back in South Africa
    - ❑ SALGA in collaboration with DST is exploring expanding a similar with other Countries





**OPPORTUNITIES**

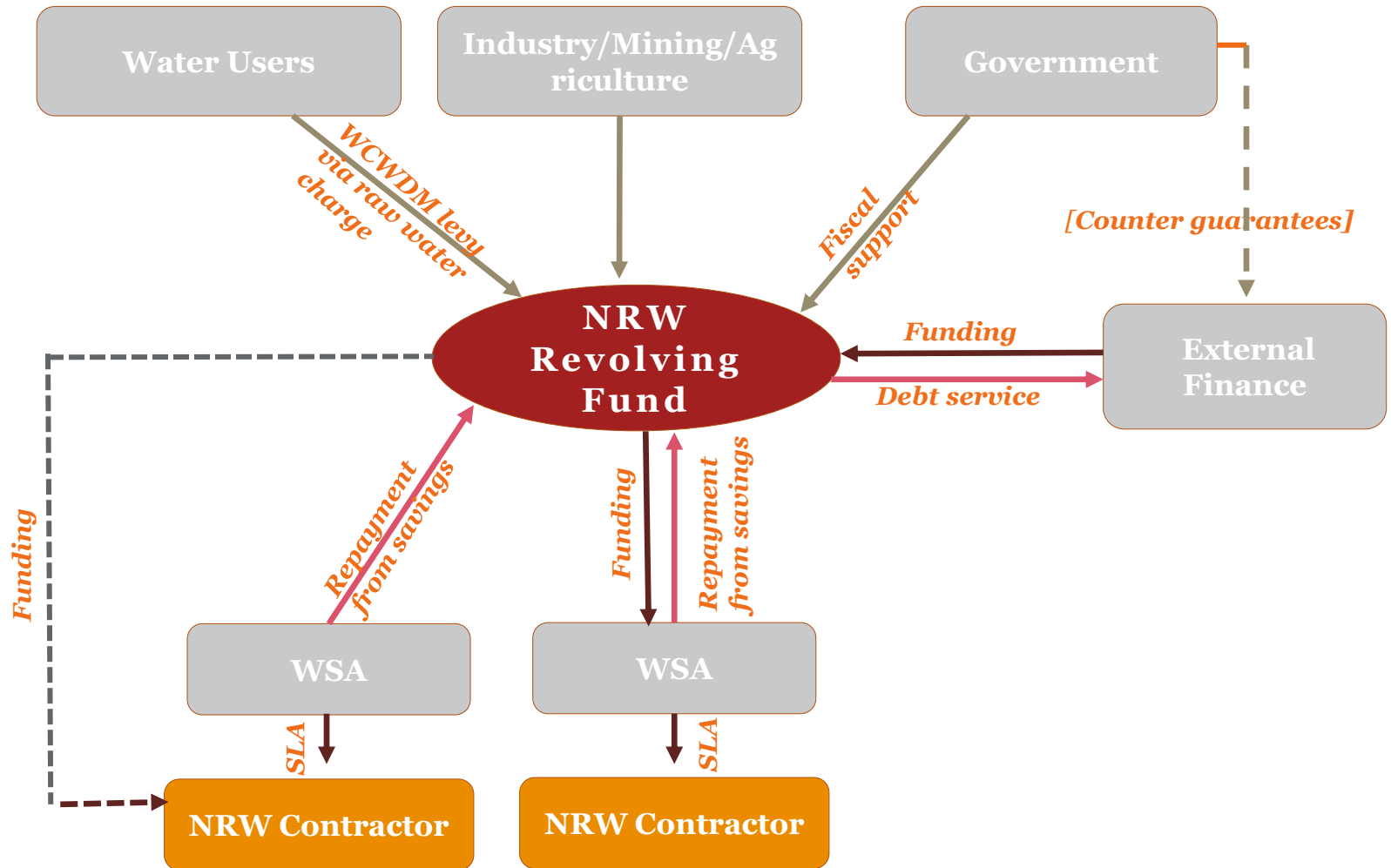
# About SWPN

## Partners

- *Formal multi-stakeholder partnership recognised in the National Water Resources Strategy 2 (2013)*
- *Develops collective action to improve water security*
- *Carries out:*
  - 1. Analysis*
  - 2. Convening*
  - 3. Project Development*
  - 4. Project Scaling*



# NRW fund structure



## Example of Funding on Water Services - Transfers available for Water and Sanitation Infrastructure and Operations in 2016/17

Over R40 billion was transferred for W&S in LG in 2016/17:

R53 billion (R21.2 billion: W&S)

10% of LGES (R2.1bn) is for maintenance funding for W&S

### Municipal Infrastructure Grant

R14.9 billion

(about R7.3 billion is for water and sanitation)

### Regional Bulk Infrastructure Grant

R5.3 billion

(66% indirect allocation)

### Urban Settlements Development Grant

R10.8 billion

(50% is for informal settlement upgrading)

### Water Services Infrastructure Grant

R3.1 billion



# TECH AND INNOVATION PLATFORM

## Various platforms

### **WEIR**

Water engineer inspire programme:  
Training, skills development, knowledge exchange

### **R&D Agenda**

Coordination  
platform for  
regional and  
national R&D  
initiatives

### **WADER**

Water  
technologies  
demonstration  
programme for  
emerging  
technologies

### **Streamliner**

Facilitating  
(inter)national  
established  
technology into  
SA water sector

### **Water technology Forums**

Platform to  
coordinate,  
prioritize and  
share results

Interfacing with  
other sectors &  
national level

### **Test beds**

Facilities to test new technologies

# SOME SUGGESTED WAY FORWARD

- Strategic Level
  - Strengthen relations and collaboration with key stakeholders
    - Locally and Internationally
  - Define and understand the Regulatory, Policy and Market
  - Research Development and Innovation
  - Sustainability should be at the core of what we do
    - Infrastructure Development and Management
  - Inter(National) Training and Development
- Project level
  - Document success of Bio Gas Projects – knowledge sharing and evidence based
  - Opportunities for Project Initiation and uptake at a municipal level

# THANK YOU



**William Moraka**  
[wmoraka@salga.org.za](mailto:wmoraka@salga.org.za)  
**012 369 8056**  
**082 308 5519**

