



5TH SADC GROUNDWATER CONFERENCE  
16 – 18 NOVEMBER 2022, WINDHOEK, NAMIBIA

GROUNDWATER: Making the invisible visible for  
socio-economic development



# From the Science to The Practice of Groundwater Management: What Should We Do Better?

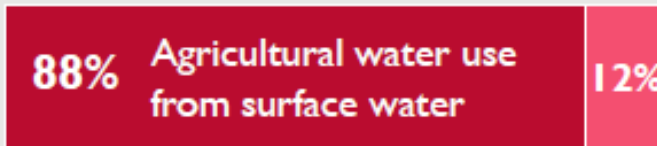
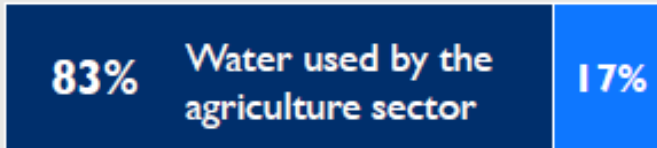
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# Recap Some Quick Facts about GW in SADC Region



**70%** of the rural population of SADC relies on groundwater as their sole source of water for domestic use



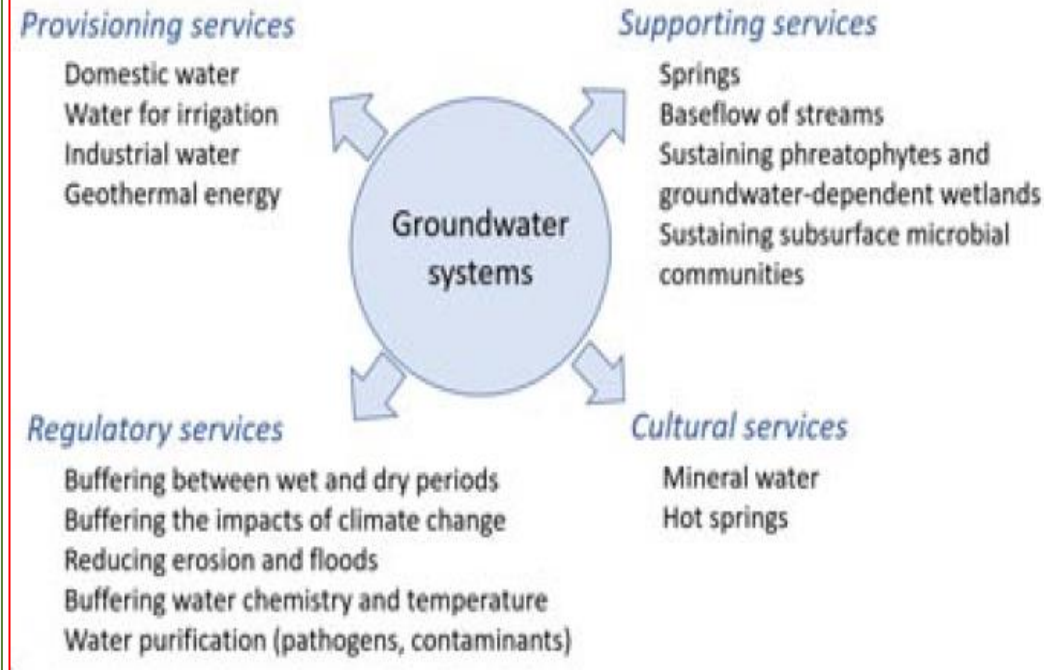
Agriculture contributes 9% to SADC's GDP

Groundwater resources are underdeveloped. **Only 1.5% of available groundwater resources are used.**

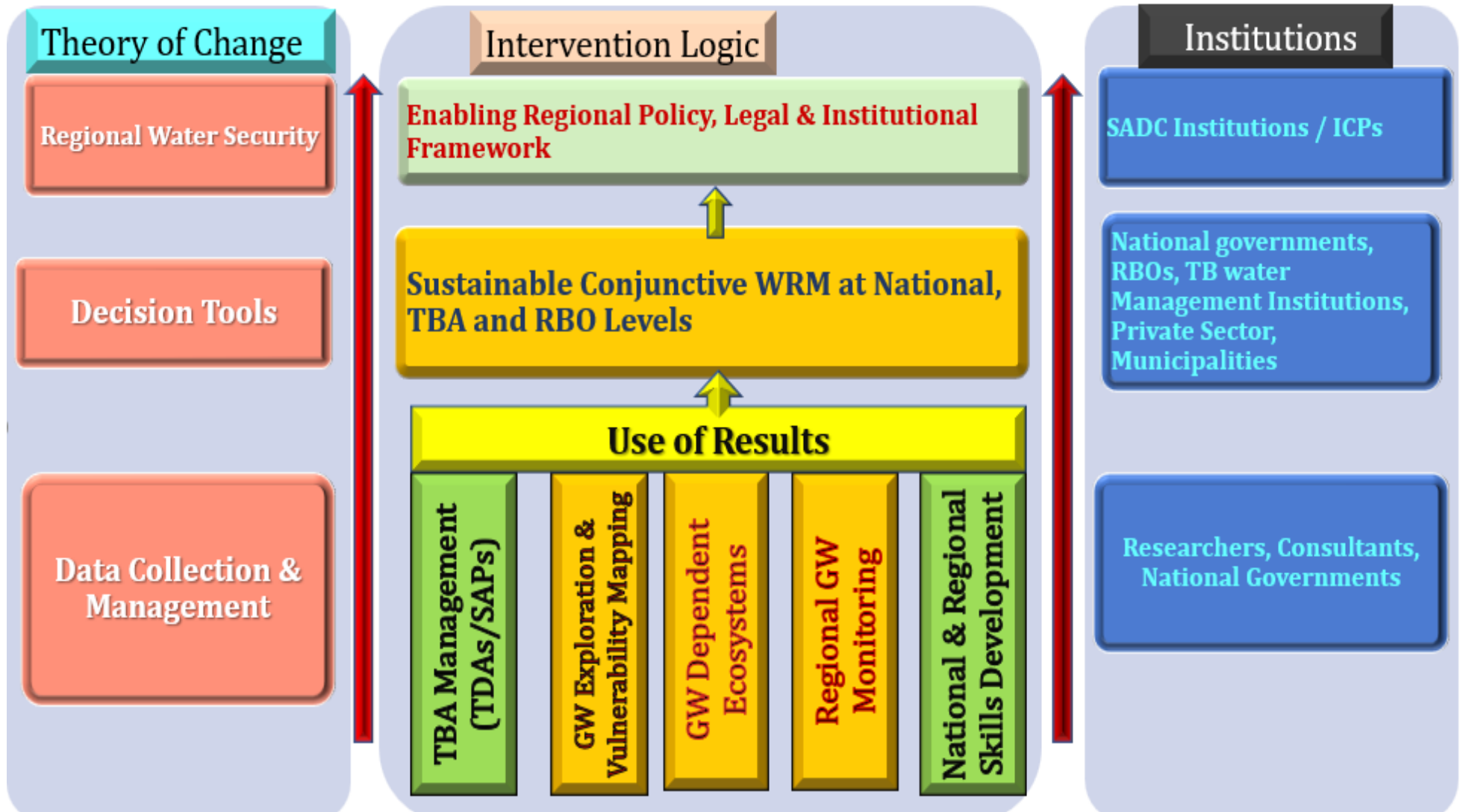
**Dependence on groundwater will continue to increase** in urban and rural areas as climate change and contamination from human activities continue to affect the availability of surface water resources.

# WE NEED TO ANSWER THE QUESTION – GROUNDWATER FOR WHAT?

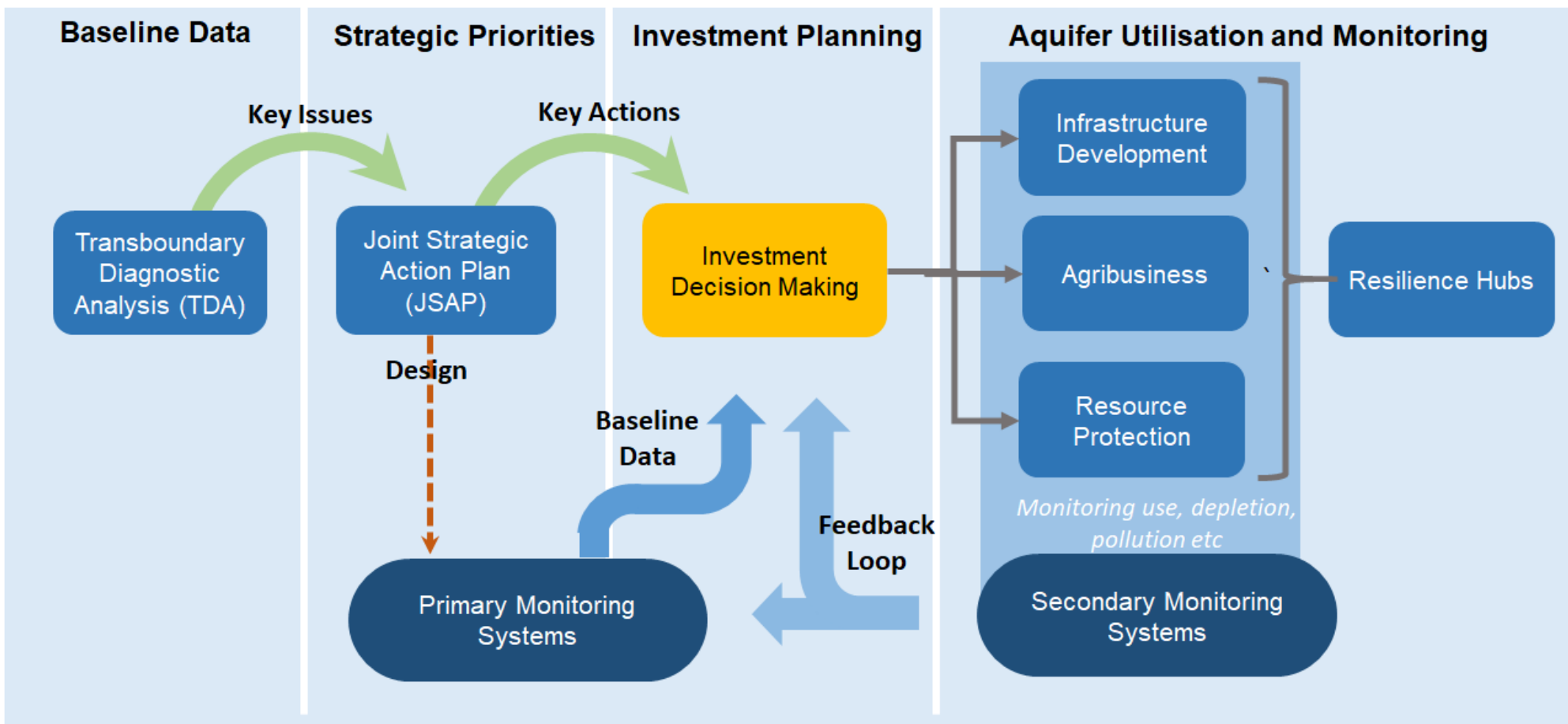
## ATTAIN SDGs



# FROM DATA TO KNOWLEDGE



# FROM KNOWLEDGE TO SUPPORT SOCIO-ECONOMIC DEVELOPMENT



# ELEMENTS TO BETTER GROUNDWATER MANAGEMENT PRACTICE

## Institutional Strengthening

- National Focal Groups
- RBOs
- Skills Dev. Young Professionals
- CB Tools & Guidelines
- Communities



Integrated approach  
to improve the  
practice of  
groundwater  
management using  
science

## Enabling Instruments

- Guidelines
- Frameworks
- Manuals
- PLI – Bylaws, regulations, etc

## Strengthened Decision Support Systems

- GW Data collection & management
- Research
- Knowledge Management



## Improved Infrastructure

- Access for Community livelihoods
- Monitoring Groundwater use



# Quick Uptake Research Areas

1. Groundwater Assessments/Diagnostic Analyses
2. Aquifer Development Plans
3. Appropriate technologies for groundwater abstraction, monitoring and protection.- energy efficient infrastructure, desalination, pollutants removal, recharge, etc
4. Surface/Groundwater numerical modelling
5. Establishment and operationalization of transboundary groundwater governance arrangements
6. Groundwater projects packaging and financing models e.g. WEFE nexus, Conjunctive Use, Climate funds, MAR, etc
7. Time series groundwater data collection, information generation and dissemination as well as establishment of databases, information systems and decision support systems
8. Mainstreaming GESI in the entire value chain for GW development and management

THANK YOU VERY MUCH  
ZIKOMO KWAMBILI  
ASANTENI SANA  
MUITO OBRIGADO

