





DEVELOPMENT PLAN

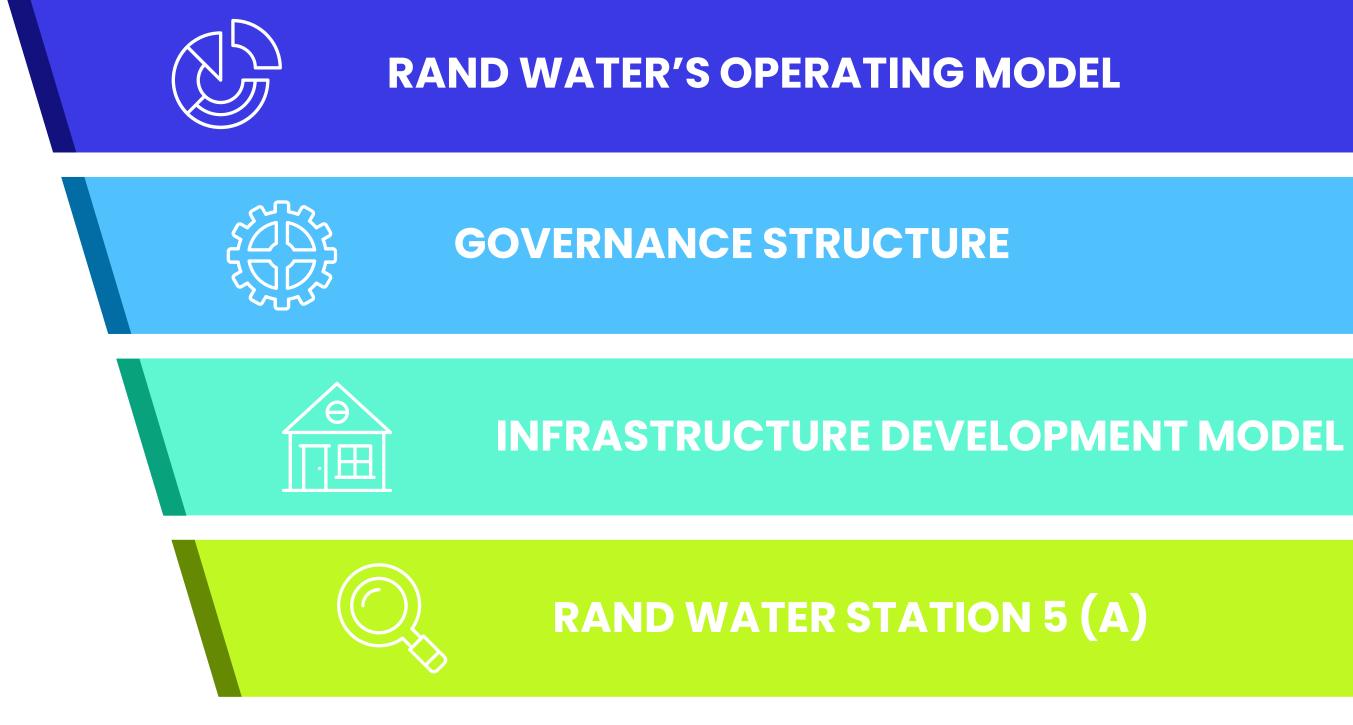
Sipho Mosai- Chief Executive

NCOP SITE VISIT 12 SEPTEMBER 2023





PRESENTATION OUTLINE











03









RAND WATER'S BUSINESS MODEL

services institutions within its service area.

Schedule 3B and 3D entities are referred to as government business enterprises.

Rand Water is self-funded does not receive budget allocation from the National fiscus. Division of Revenue Act is not applicable to Rand Water



Rand Water is a Water Board established i.t.o Chapter 6 of the WSA, Act 108 of 1997. Rand Water primary activity to provide water services to other water

Rand Water is a 3B scheduling, as stipulated in the Classification of public entities in the Public Finance Management Act.









Rand Water Business Model

Financial Sustainability

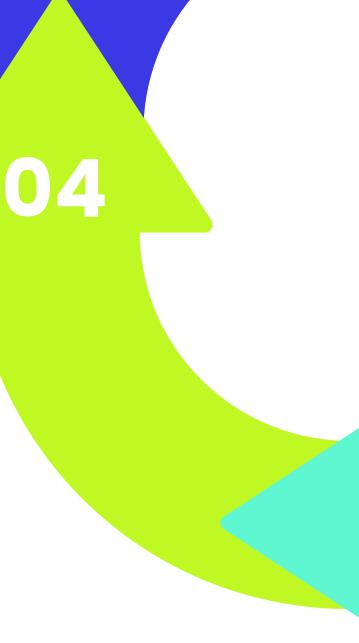
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1. Revenue

Our Revenue is a function of our tariffs and Water Volumes sold

4. Infrastructure Upgrade

Purification works, Pumpstation, Reservoir and Pipeline





2. Cost / Expenditure

Raw Water, Chemicals, Electricity, Maintenance, Labour Costs

3. Surplus Bond Repayments and Refurbishment



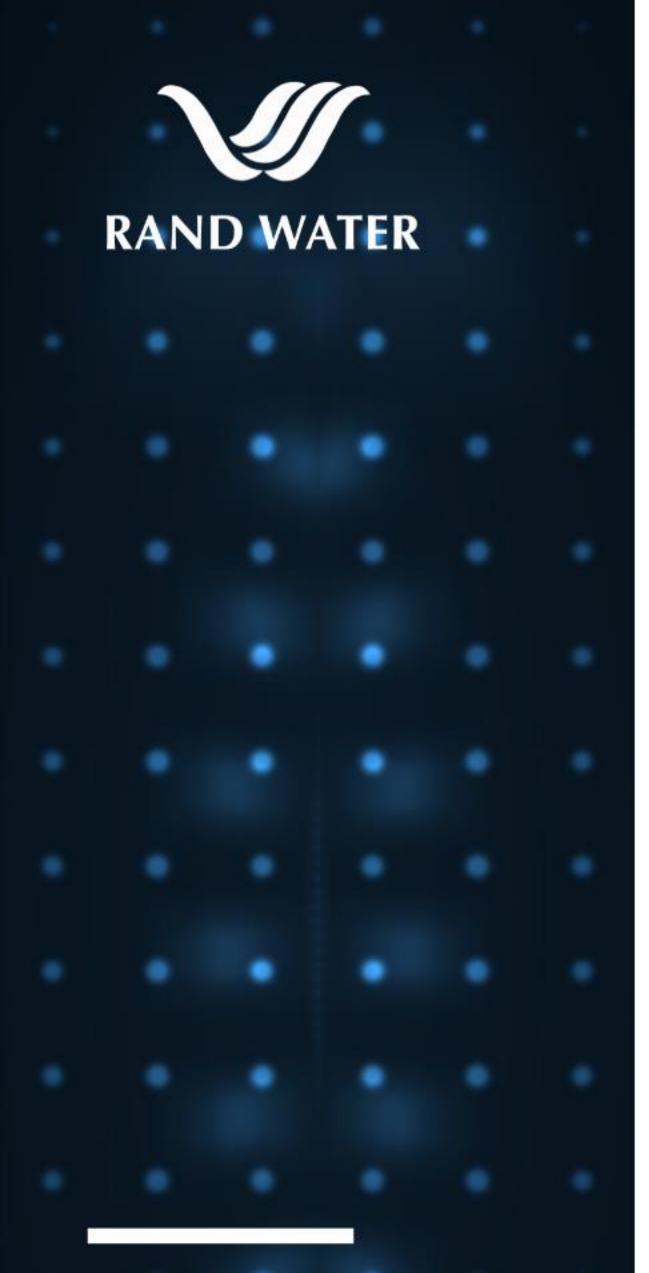




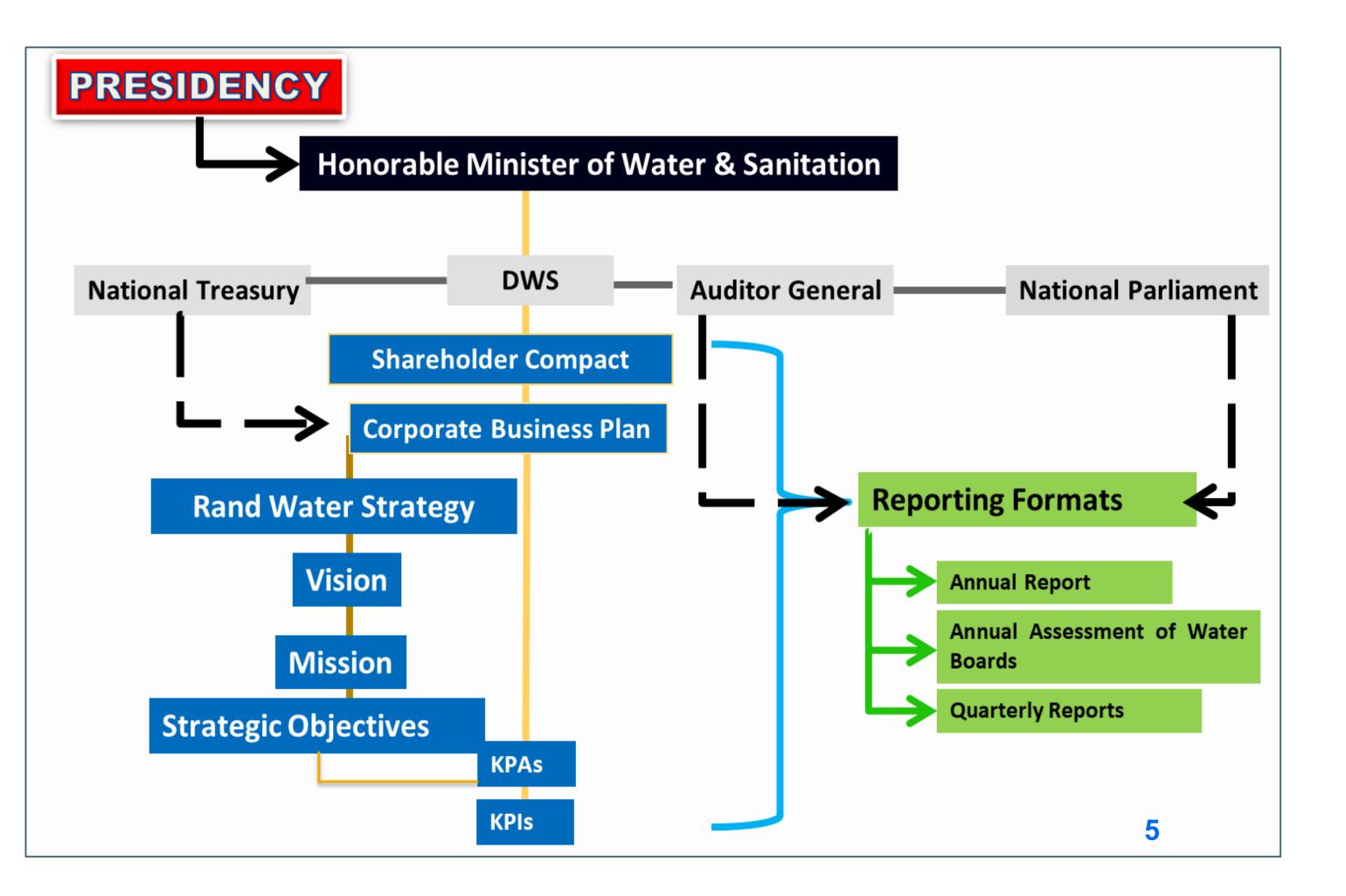
02







Finding New Ways







Rand Water Supply System

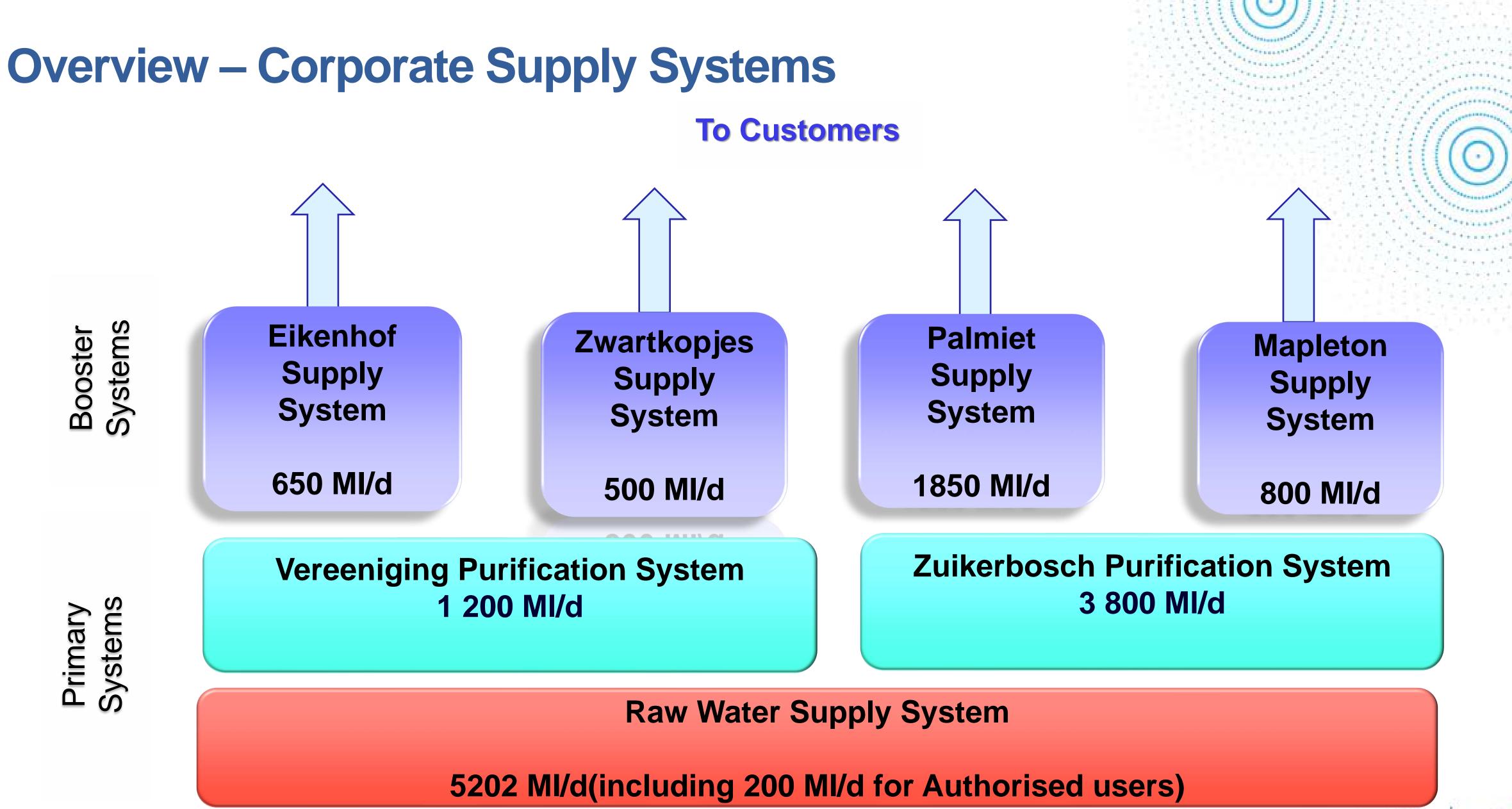












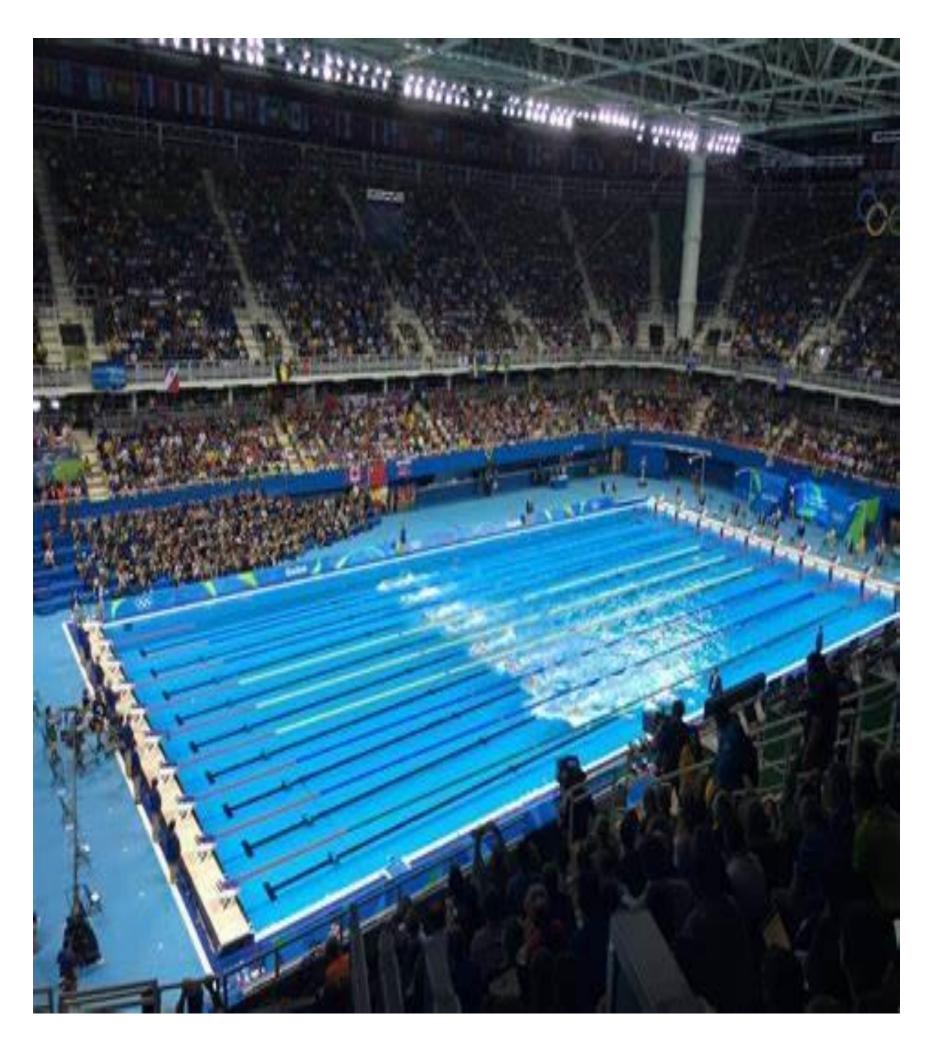






At peak Rand Water can fill (per day):

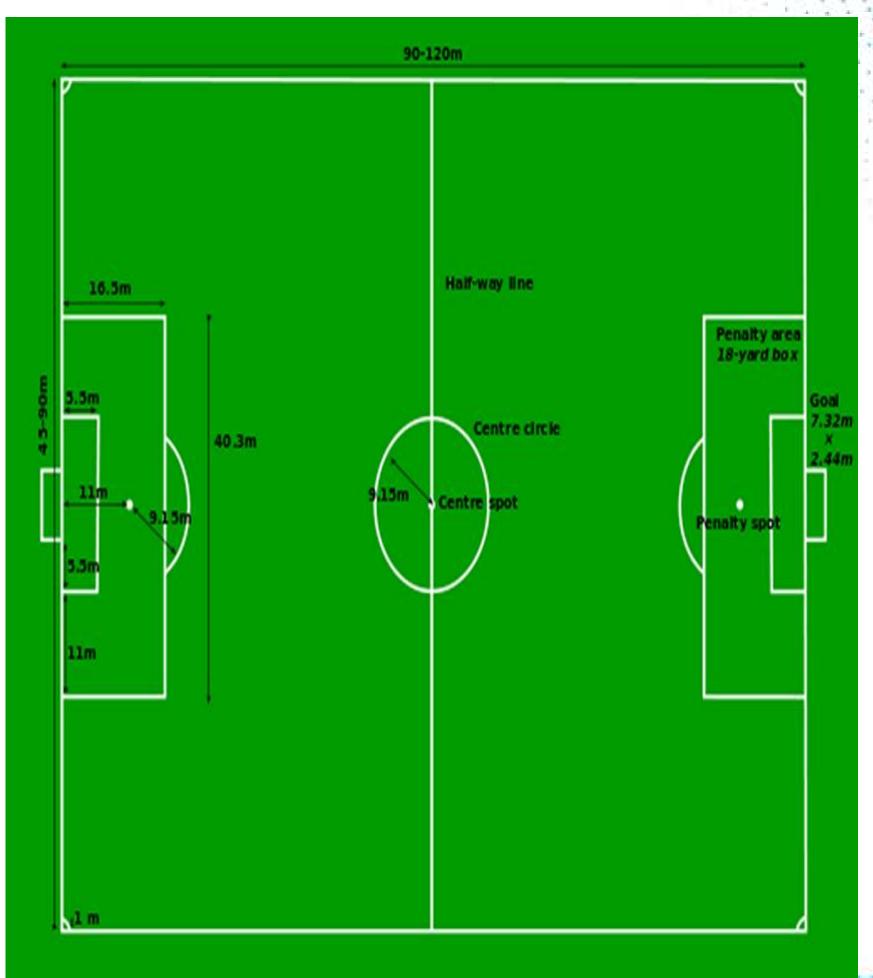
2 000 Olympic Size Swimming pools







1 000 2m deep EPL Soccer field

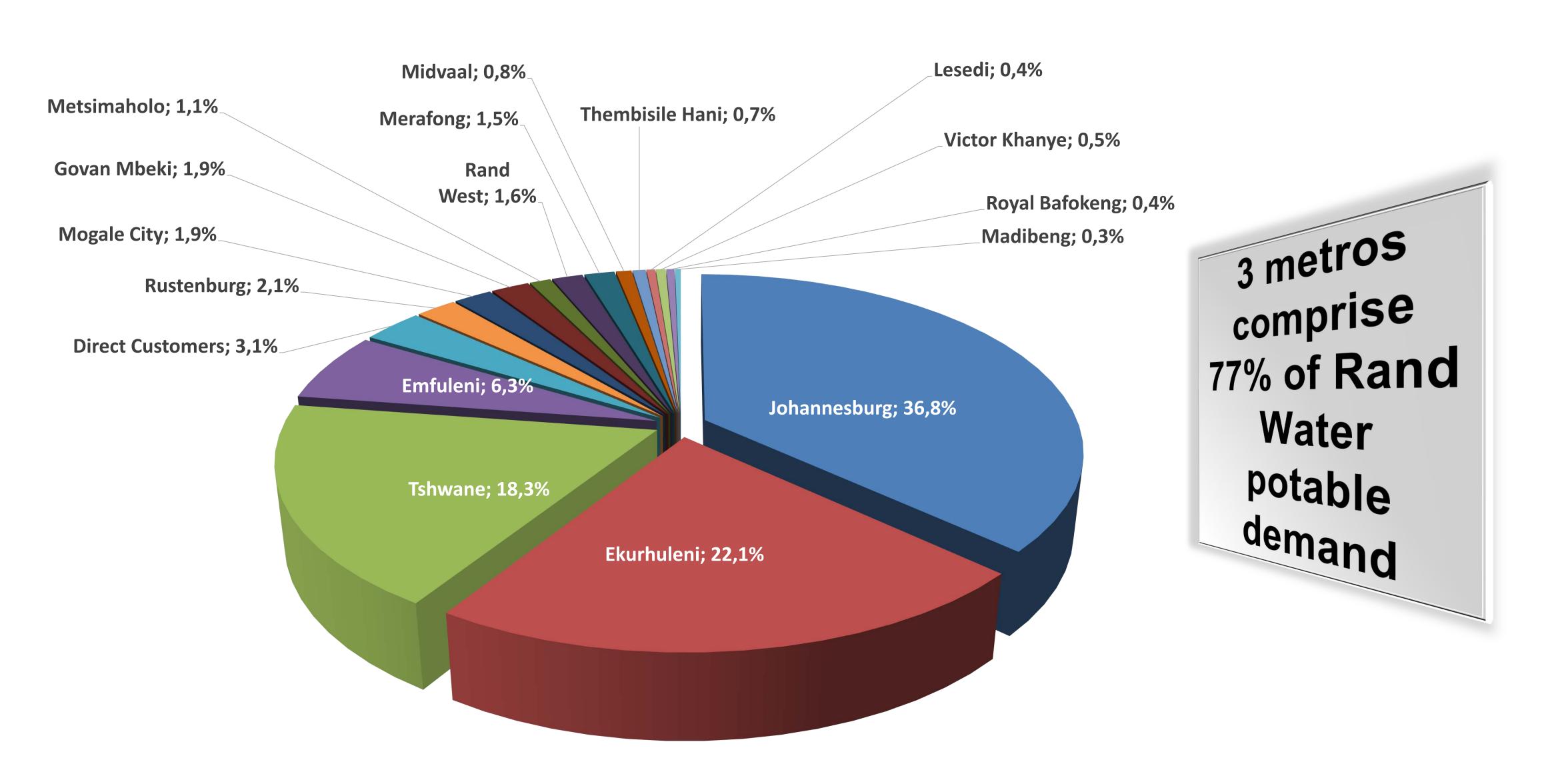


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RAND WATER

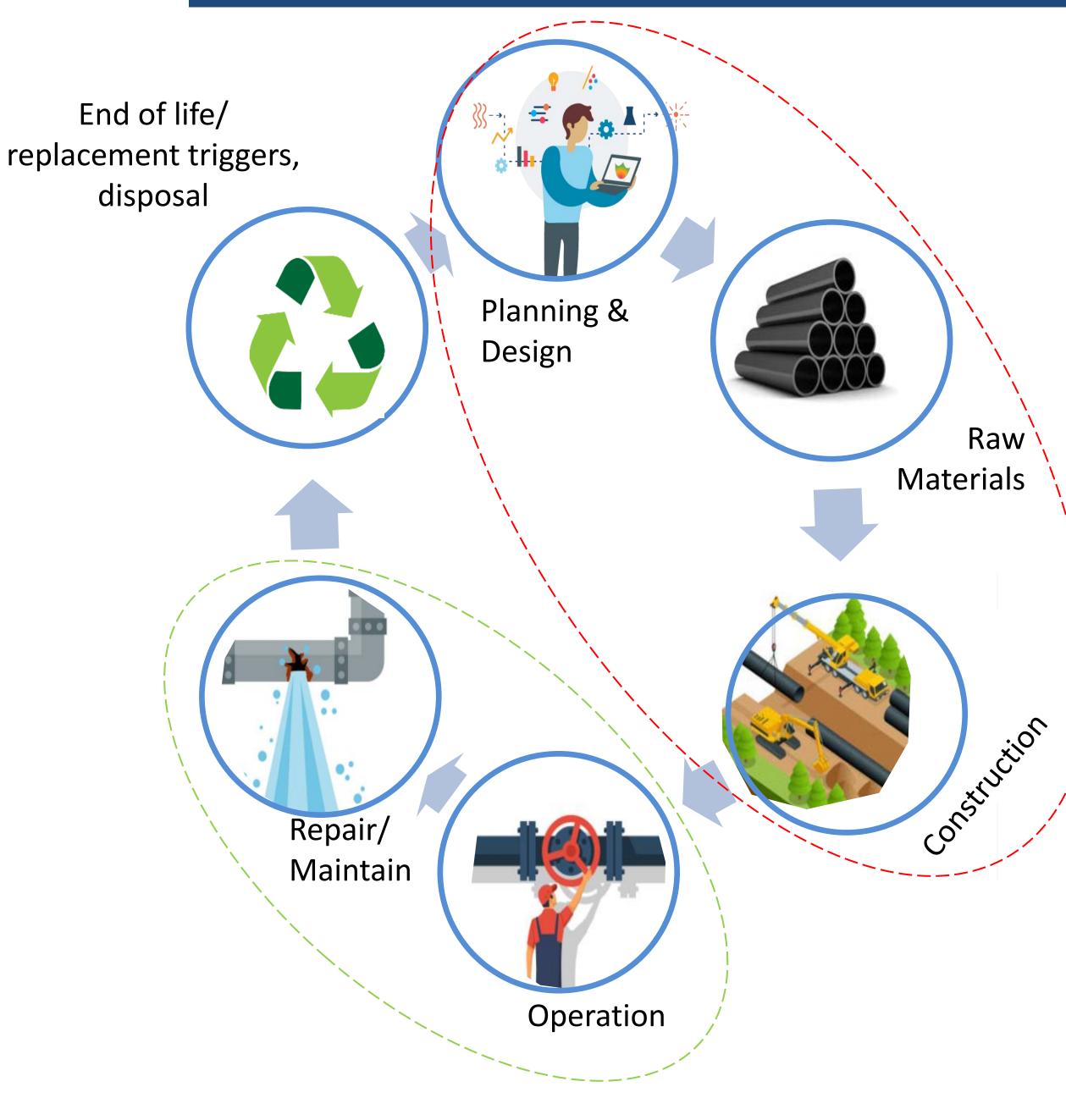


Portable Demand





Asset life Cycle Management Model



The aim is to achieve the following objectives within the three areas:

BASELINE PHASE – Master Planning, Project Planning & Capital Execution

Overall lifecycle costs are minimized through correct design, trade-offs between different lifecycle cost components and appropriate timing of lifecycle actions

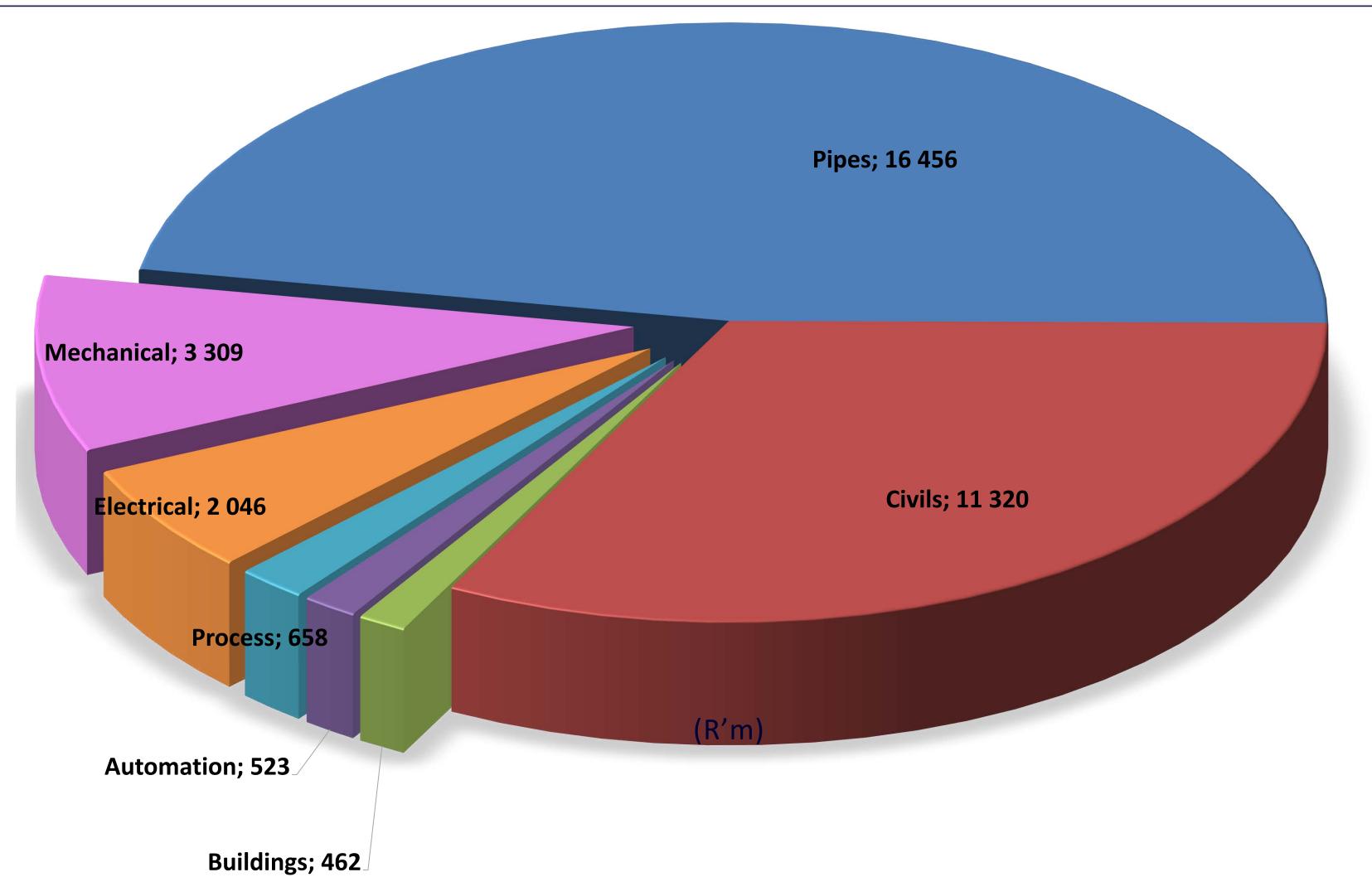
OPERATIONS AND MAINTENANCE PHASE – Operations, Maintenance and Reliability engineering Ensure that the asset (at a minimum) achieves its original design or estimated useful life

END OF LIFE PHASE– Master Planning

Extend the life and/or capacity of the asset through selective Renewal or augmentation. Feasibilities. Could include asset disposal

Five-Year Capex Forecast (R'mil)

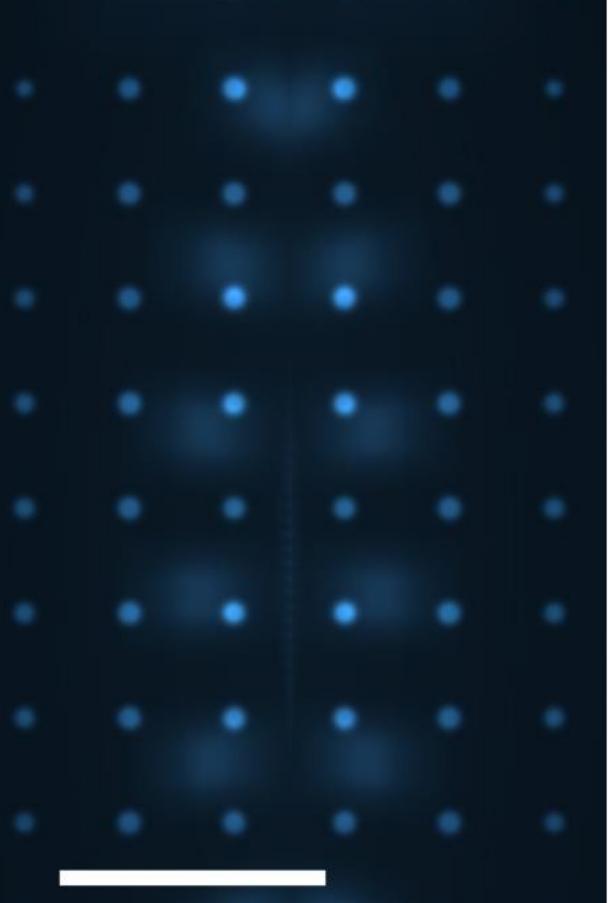
	FY2024	FY2025	FY2026	FY2027	FY202
Total for Augmentation and Renewals: (millions)	1 046	4 586	9 812	9 805	9 524
				5 year total →	34 77







RAND WATER



Finding New Ways

Vlakfontein Reservoir Launched in February 2023





Zuikerbosch System 5(A)













Introduction to System/Station 5

- growing demands,
- Zuikerbosch Station.
- current supply capacity of Rand Water.
- Construction of the scheme commenced in 2015, complete for the additional supply of 150 (ML/Day).





Through Rand Water's augmentation plans for ensuring sustainable water supply and meeting current and

Rand Water has embarked on building a completely new Water Purification Plant; Station 5 at the existing

Its main objective is to provide an additional 1 200 Million Litres/Day (ML/Day) of potable water to the





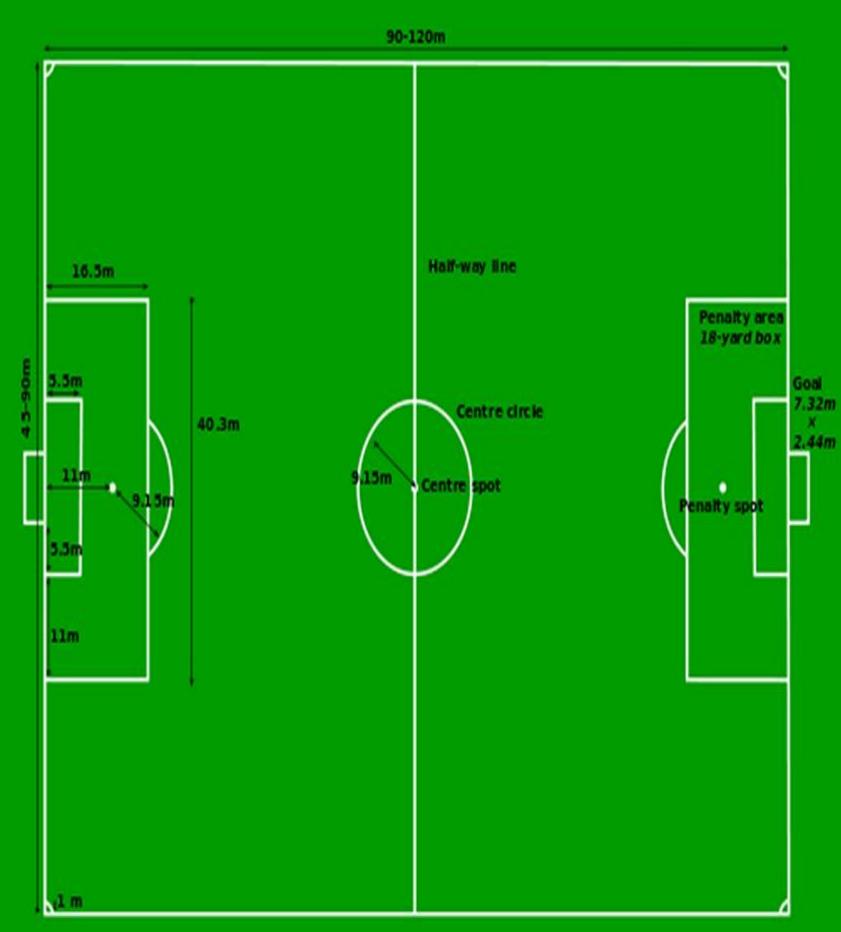
In essence we are adding :

480 Olympic Size Swimming pools





250 2m deep EPL Soccer field









2. Station 5: Scope of Work

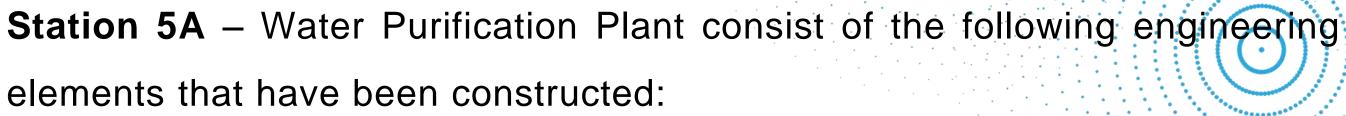
The Entire scheme has been phased into Two Sections:

- Station 5A with a water supply capacity of 600 Million Litres/Day (Megalitres- ML/Day). Currently in execution phase and to be commissioned in phases. First phase is adding 150 ML/d immediately via ZB-System 3 Engine Room Station. Second phase as it relates to the 450 ML/D balance capacity is projected to be commissioned over time.
- Station 5B also meant to supply another 600 Million Litres/Day (Megalitres- ML/Day). This Project will be advertised in the market within the next six months and is planned to be commissioned by 2030.

- A Raw Water Abstraction Pipeline that feeds Station 5A from the Zuikerbosch Forebay / Intake Dam.
- An array of Chemical dosing plants (Lime, Poly, Silica and Organic for coagulation & flocculation).
- Horizontal flow sedimentation tanks with desludging bridges for settling and removal of precipitates/dirty particles.
- A Carbonation Bay pH Correction and or stabilisation with Carbon Dioxide
- A Filter Plant that consist of rapid gravity sand filters for removal of suspended matter

- A Chlorine Disinfection Plant for elimination of pathogenic organisms
- A Reservoir and Pump Engine room for pumping potable water to consumers
- And the outgoing pipelines connecting to the distribution network









RAND WATER

Zuikerbosch WTW Systems



KLIPPLAATDRIFT

















Chemical Dosing Plant





Flocculation and Sedimentation



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Filtration Process





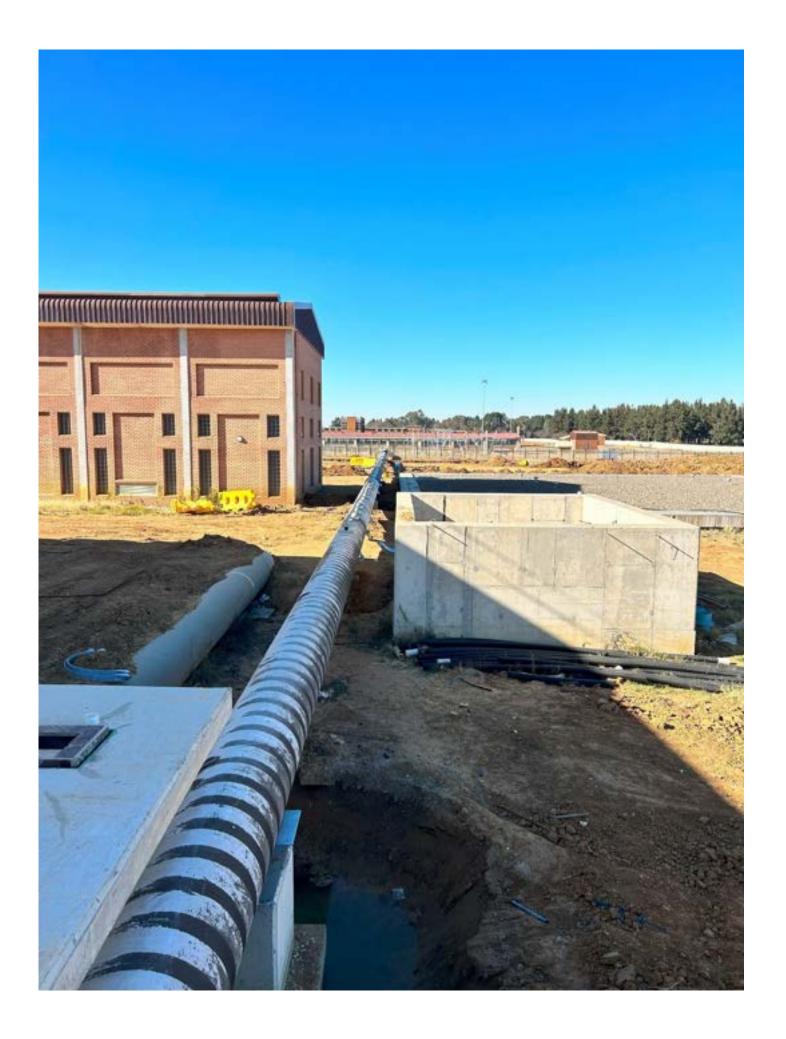






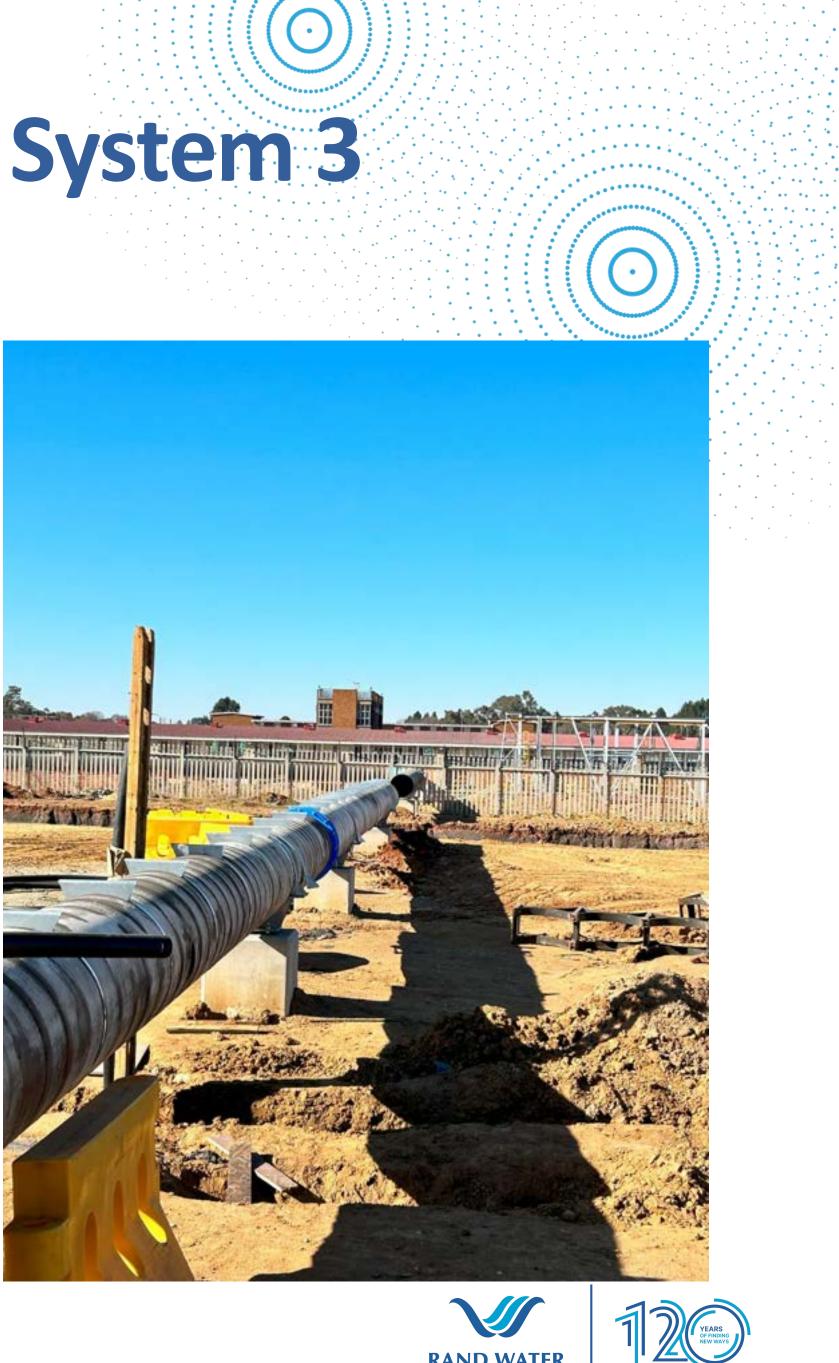


Potable Water Transfer Line from ST5 to System 3













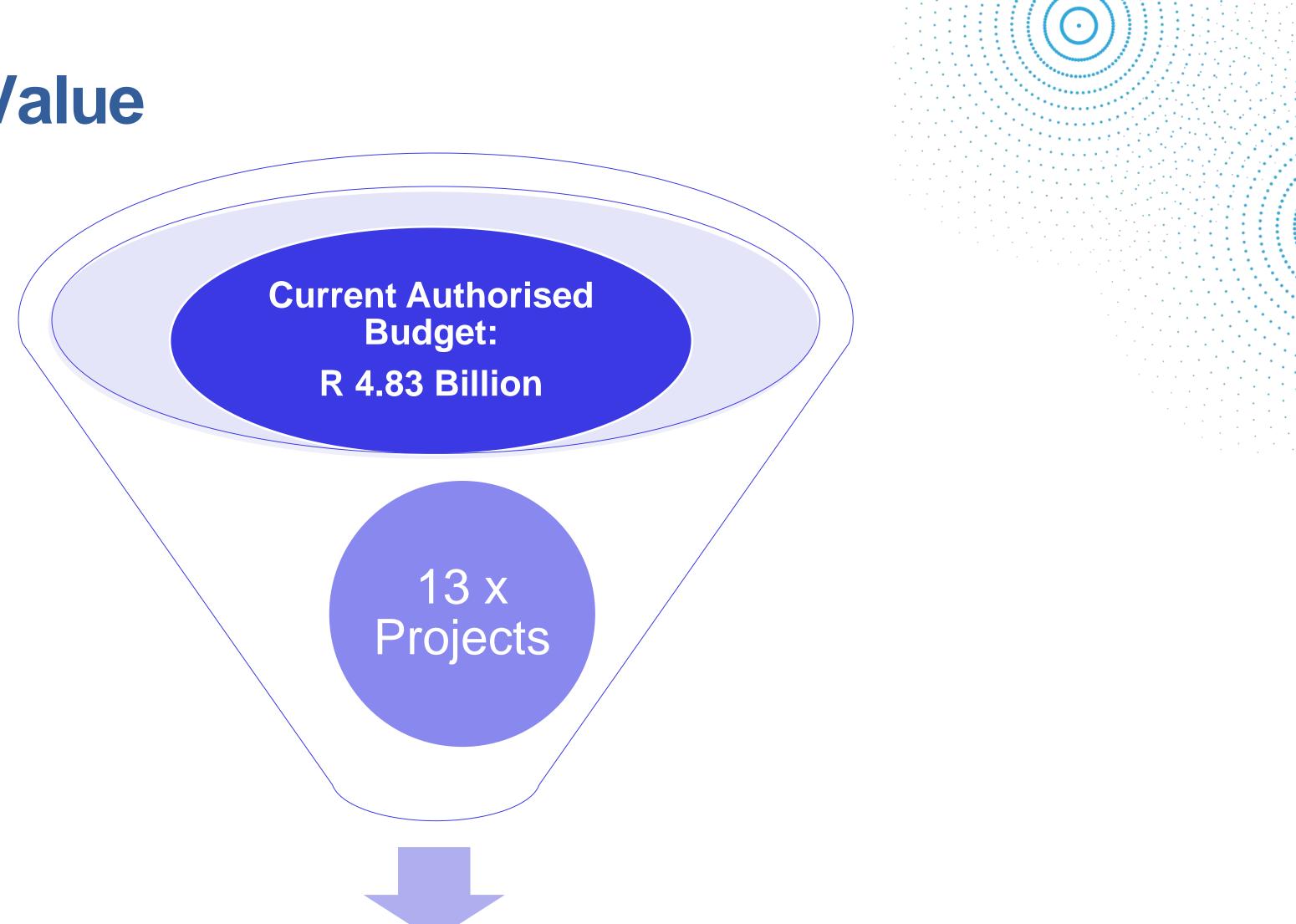


Sludge Handling and Pumping Station





Station 5: Project Value



Overall Percentage Complete: 100% Actual Expenditure To date: R 4.17 Billion











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