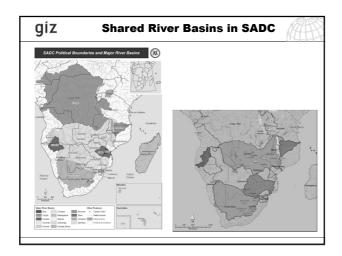
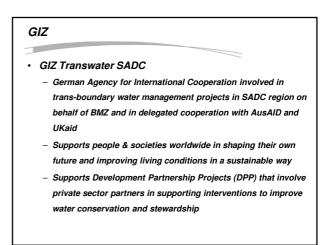
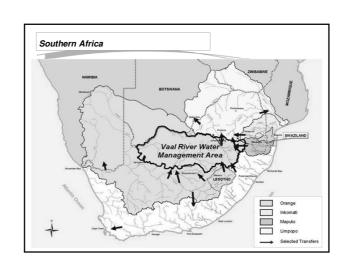


Stakeholders Stakeholders SADC ORASECOM DWA / Vaal River system Emfuleni / GIZ / Sasol Partnership Partnership model Structure Funding and implementation model







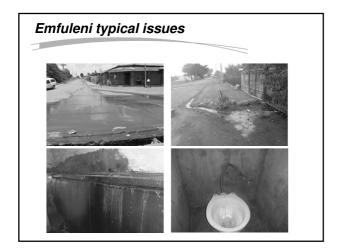


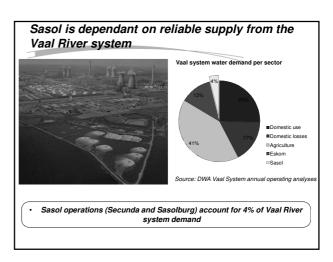
DWA and Vaal River System

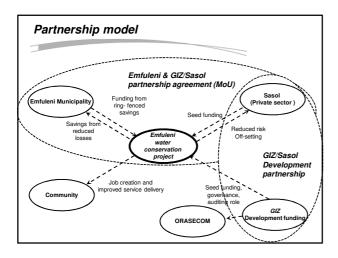
- · SA Department of Water Affairs
 - "Half water losses by 2014" Pres. Jacob Zuma
 - 15% Municipal water conservation targets
- · Vaal River System
 - Demand exceeding available yield
 - Increasing levels of pollution

Emfuleni

- · Emfuleni Local Municipality
 - Covers an area of ca. 1000 km²
 - Current population estimate 800 000
 - 160 000 Formal stands
 - 220 000 Households
- · Metsi-a-Lekoa
 - Water Services Provider unit of Emfuleni
 - 2 849 km of water pipelines
 - Uses 90 million m³ per annum of water from Vaal River
 - Supplied by Rand Water at a cost of R450 million for 2012/3







Funding model Emfuleni water statistics • 2012 water demand = 90 mil.m³/a • Targeting 15% savings= 14 mil.m³/a • Value = R70 mil./a Seed Funding • GIZ on behalf of BMZ, AusAID, Ukaid R5 million • Sasol New Energy R5 million

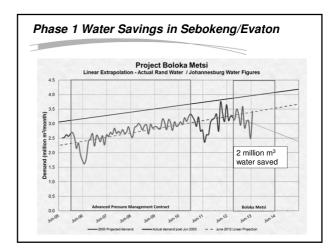
Challenges

- Achieving alignment on the primary objective (save water)
- Meeting secondary objectives while "keeping your eyes on the ball"
 - Local content vs. cost efficiency
 - Awareness vs. education
 - Revenue enhancement vs. improved service delivery
 - Realising financial savings vs. re-investment of savings
- · Management of funds
- · Different procurement systems
 - appointment of Service Providers/ contractors
- · Different approaches to governance processes
 - Lead time for decision making
- · Sustainability of results

Project Resourcing

- Trained 40 local people as Water Conservation Warriors and Assistant Plumbers;
 - Increased awareness in communities of the importance of water conservation;
 - Water Conservation Warriors have spoken to 30,000 households and provided water conservation advice;
- Plumbing teams (50 plumbers and assistants) have visited app. 60,000 households and made repairs to water supply systems





Phase 1 Financial Summary

- · Expenditure R13 million
 - Seed funding R10 million (depleted)
 - Augmented through ring-fenced savings
- · Financial savings
 - R10 million (reduced Rand Water bill)
- · Challenges
 - Monthly demand variability (m3)
 - Slow ramp-up of cumulative savings
 - Cash flows
- · Phase 2 savings projected to exceed expenditure

Benefits for Emfuleni

- · Contributing to achieving required water savings
- · Reduces the total annual water bill
- Additional savings can be used for the further improvements on the water supply system
- · Community behaviour change
- · Prepares the way for improved metering and billing



