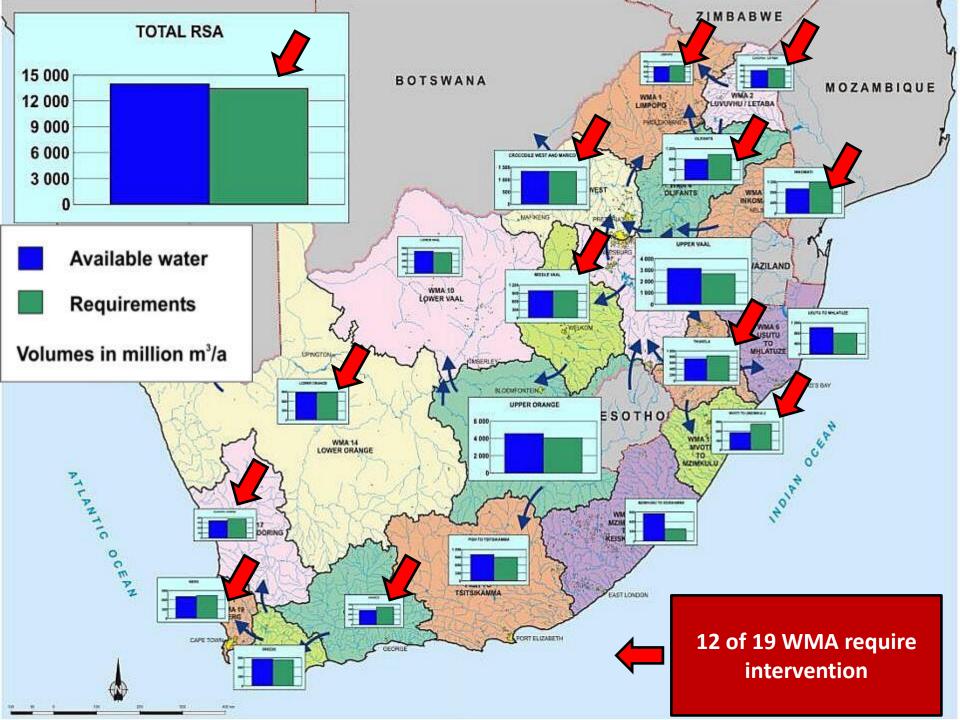
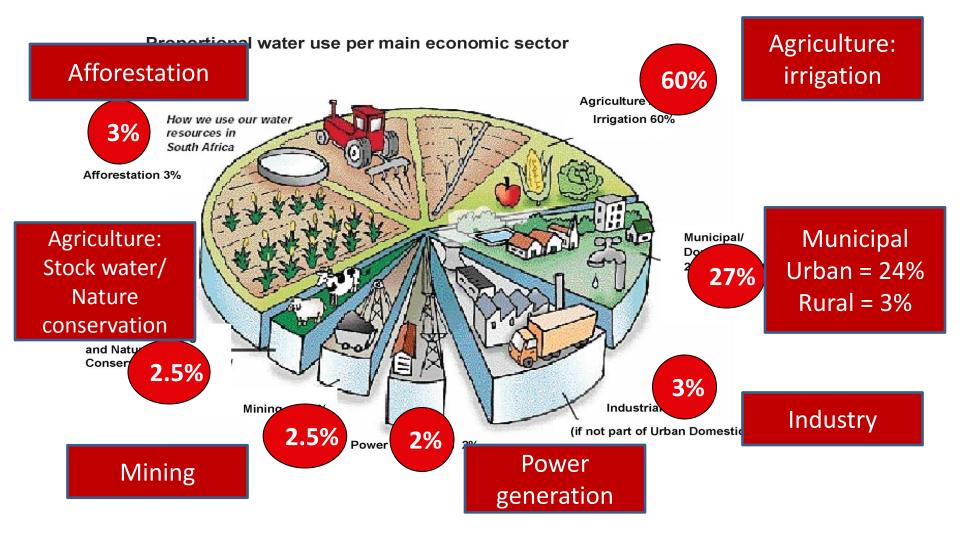
Break away session 4: The state of SA's water resources Scribes: Sylvester and Wandile Presenter: Thomas

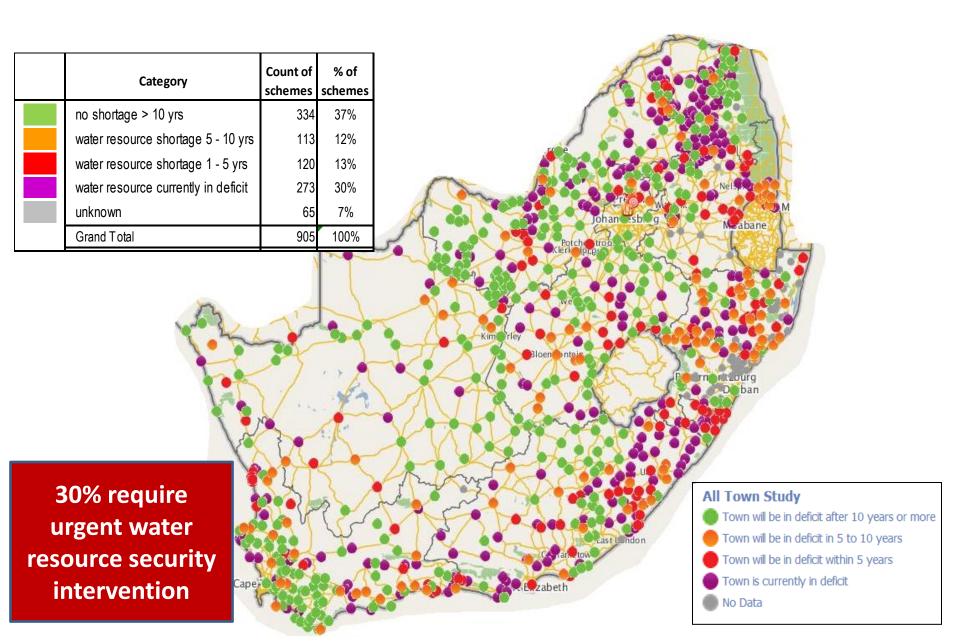
The state of SA's water resources

- Quantity and quality
- Do we have enough water resources?



Water Use per economic sector





Issues

- We need to balance the water quality and quantity management
- Water resources should be packaged to reflect the different types of sources (water mix) and one can use: (a) Ground water (b) Surface water (c) Desalination (d) Reuse
- How are we dealing with sanitation issues?

- Artificial recharge
- Land use (spatial planning) as part of the water planning process
- Small rural dams needs to be considered
- Community participation and partnership needs to be strengthen between DW&S and advocacy groups
- Stakeholder engagements should form part of the IDP activities across different municipalities

- We need to have long term water plan that would form part of the economic development activities
- Planning and infrastructure should be aligned with the NDP agenda
- We need to have a catchment management strategy

- Licensing delays, especially for domestic use
- Water quality from the municipalities, mines and other water users
- Monitoring information/data you cannot manage if you do not know what you have. If you cannot monitor, then you guess to make decisions
- Storage capacity where are the dams and where are the people? Do we have enough?

- Water demand management non revenue water
- Unlawful water use
- Legislation synchronisation now that we have sanitation added to water
 - 5 years strategy period, e.g. NWRS is short considering the period of review and consultation
- Capacity critical skills shortage across all sectors
- WMIs realignment never finalised
 - Institutional arrangement uncertainty
- Climate change ready for crisis?

Short - Term Intervention

- (a) Water availability
 - Verification and Validation we have to know what is available, who has how much.... so that we can do the WAR, Compulsory licensing, etc., CMAs are waiting...
 - Licensing for domestic water access being delayed we need to accelerate the allocation licensing . Might also depend on the V/V.
 - WCWDM Fix the leaks to conserve water.
- Water quality dilution and blending for salinity currently; for example, *E coli* from dysfunctional WWTWs.
- Institutional arrangements for effective water resource management
 - give CMAs their functions
 - Dep't should settle on a functional structure
 - Stakeholder engagement

Medium -Term Intervention

- Climate change adaptation
- Resource operation rules
- Water quality salinity/Ecoli etc
- AMD treatment regional
- Capacity building use the various academies
- Succession planning for the staff
- Information gathering put systems in place to ensure data/information gathering

Medium - Term Intervention Cont...

- Development of management intervention plans for the reconciliation strategy
- Implementation of legislation on the defaulting municipality
 - Use of capable institutions to help
- Infrastructure siltation reducing capacity of storage systems; Desilting needed
- Science/ Policy interface should be encouraged
- WMIs at the catchment level should take care of water allocation problems
- WMIs should be made to come up with management plans to ensure efficient and collaborative WRM

Medium - Term Intervention Cont...

- 300 000 subsistence & smallholder farmers need water allocation
- 500 000ha needs to expanded
- We're targeting 15% physical reduction of water loss

Long - Term Intervention

- Storage we need to create additional storage capacity
- Policies regarding water quality should be imposed
- Ecological infrastructure
- Water resource protection
- Human capacity development
- Water Management Plans should become legal requirements
- Enhancement of current penalties needs to be increased.

Long - Term Intervention Cont...

- We need to have long term water plan that would form part of the economic development activities
- Planning and infrastructure should be aligned with the NDP agenda
- We need to have a catchment management strategy
- There should be a follow up discussion