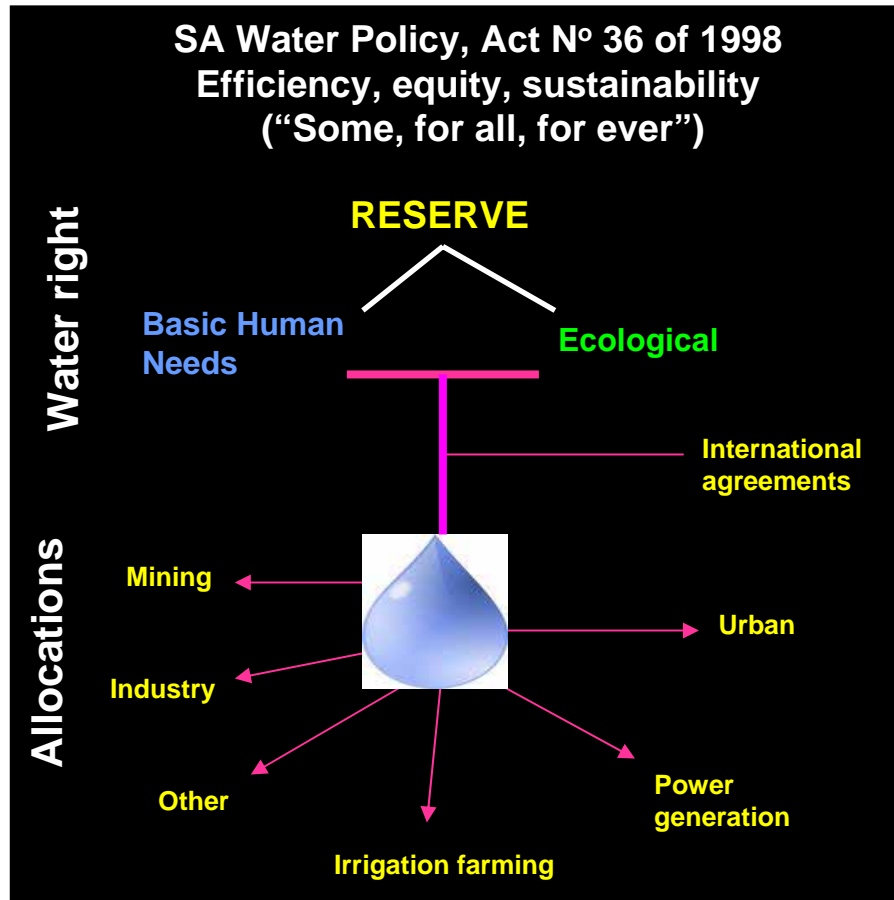




Application and Testing of a Strategic Adaptive Management System for Freshwater Protection

Project Leader:
Craig McLoughlin
craigm@sanparks.org

Background:



Unpredictable, scarce water resource

System 'Complexity'
social-ecological-economic

'Command-and-control' management ✗

'Learning-by-doing' approach ✓

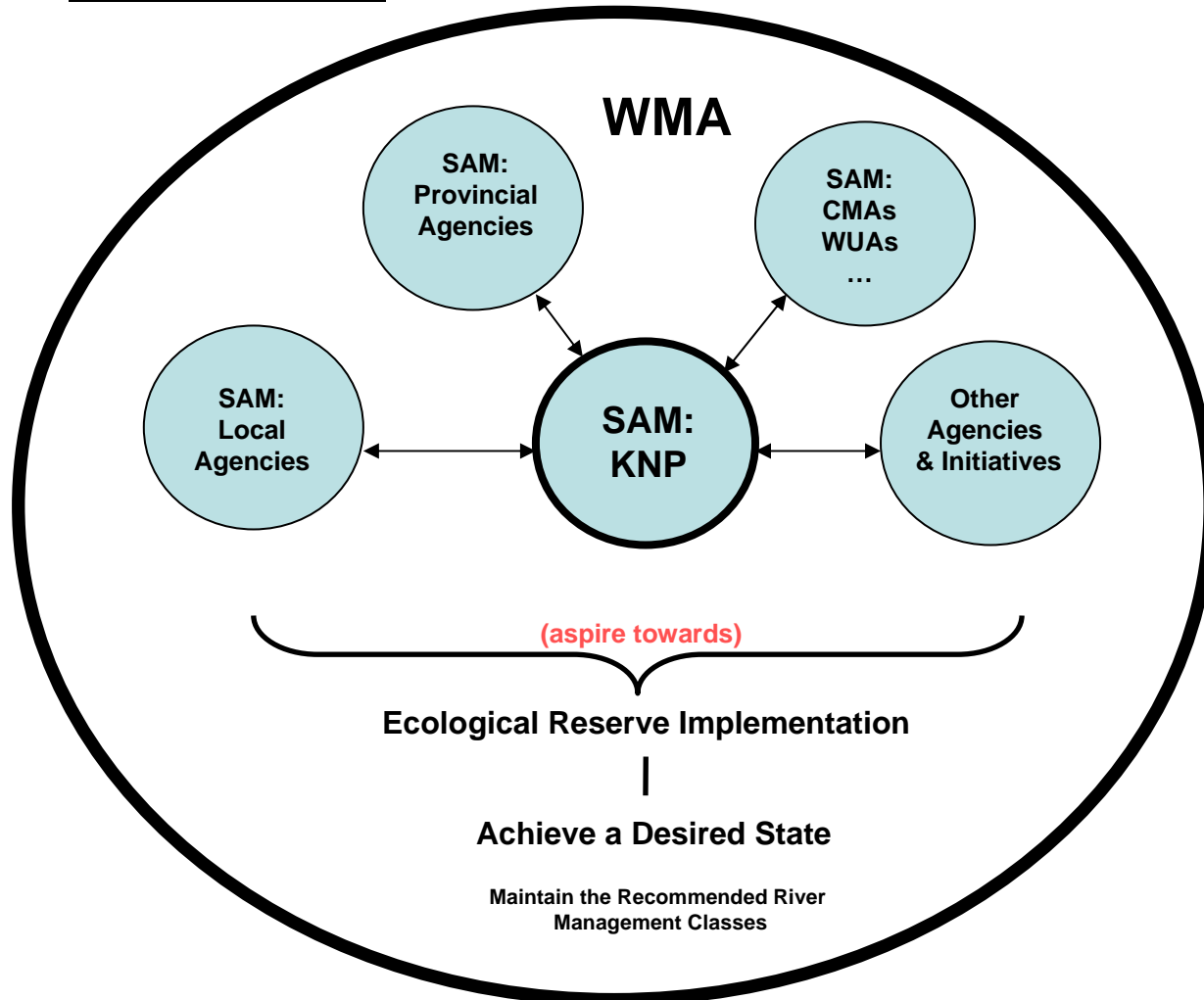
STRATEGIC ADAPTIVE MANAGEMENT (SAM)
(SANParks)



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Project Leader:
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Objectives:





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Three core SAM components:-

Research

Water in the Landscape Objective
To develop an integrated understanding of the hydrological processes and dynamics (including soil, surface water) and its links with terrestrial systems, and to manage the natural biodiversity as an integral component of the landscape and resources of water resources (surface or subsurface water), rivers, streams, wetlands and floodplains.

Research Objectives
To understand the complex ecological and hydrological processes and the role that water plays in restoring ecological services and resilience in the context of the landscape and to develop strategies to manage water in a way that supports ecological resilience and the landscape in a way that supports ecological resilience.

High level water objectives

Objective	Priority
Water quantity	High
Water quality	High
Water security	High
Water sustainability	High
Water ecosystem health	High
Water resilience	High
Water governance	High
Water equity	High
Water efficiency	High
Water safety	High
Water security	High
Water sustainability	High
Water ecosystem health	High
Water resilience	High
Water governance	High
Water equity	High
Water efficiency	High
Water safety	High

Management

Monitoring

Kariso Crocodile River



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**A SANParks initiative, in collaboration with
Centre for Water in the Environment - SAEON - Fluvius Environmental**

3 year project



Funded by Water Research Commission

Job Opportunity:- SANParks Junior Scientist Programme (MSc/PhD)