

Water Security in the Overberg

Agulhas Biodiversity Initiative (ABI)

AGM

25 September 2019

Lesley Richardson

With acknowledgement to Louise Stafford

The Nature Conservancy



Cape Town's Demand is Predicted to Outstrip Water Supply by 2021



**GREATER CAPE TOWN WATER FUND (GCTWF) BUSINESS
CASE:
Assessing the Return on Investment for Ecological Infrastructure Restoration**

GCTWF – Public & Private Partnership



LEVI STRAUSS & CO.

STEERING COMMITTEE



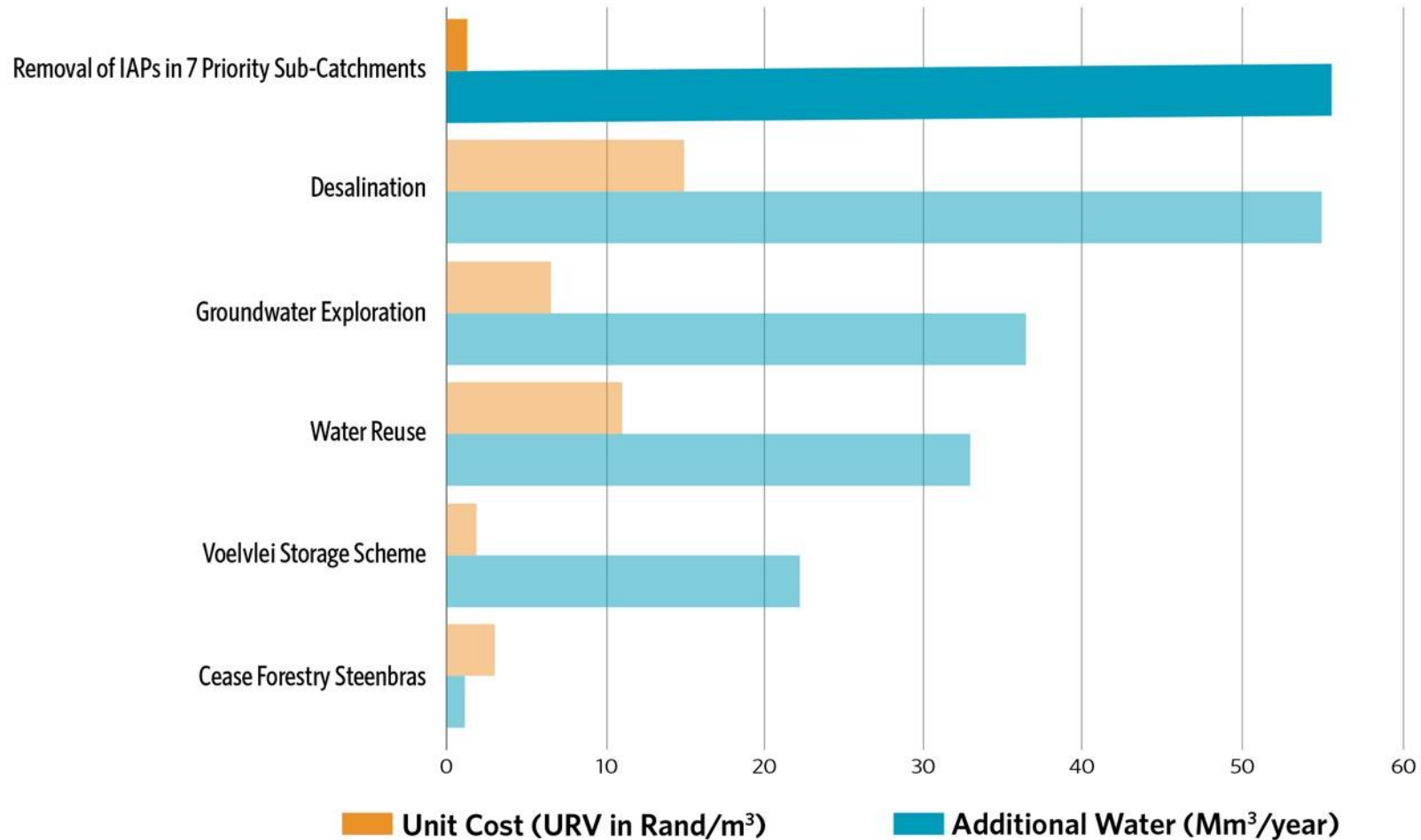
PUBLIC PARTNERS



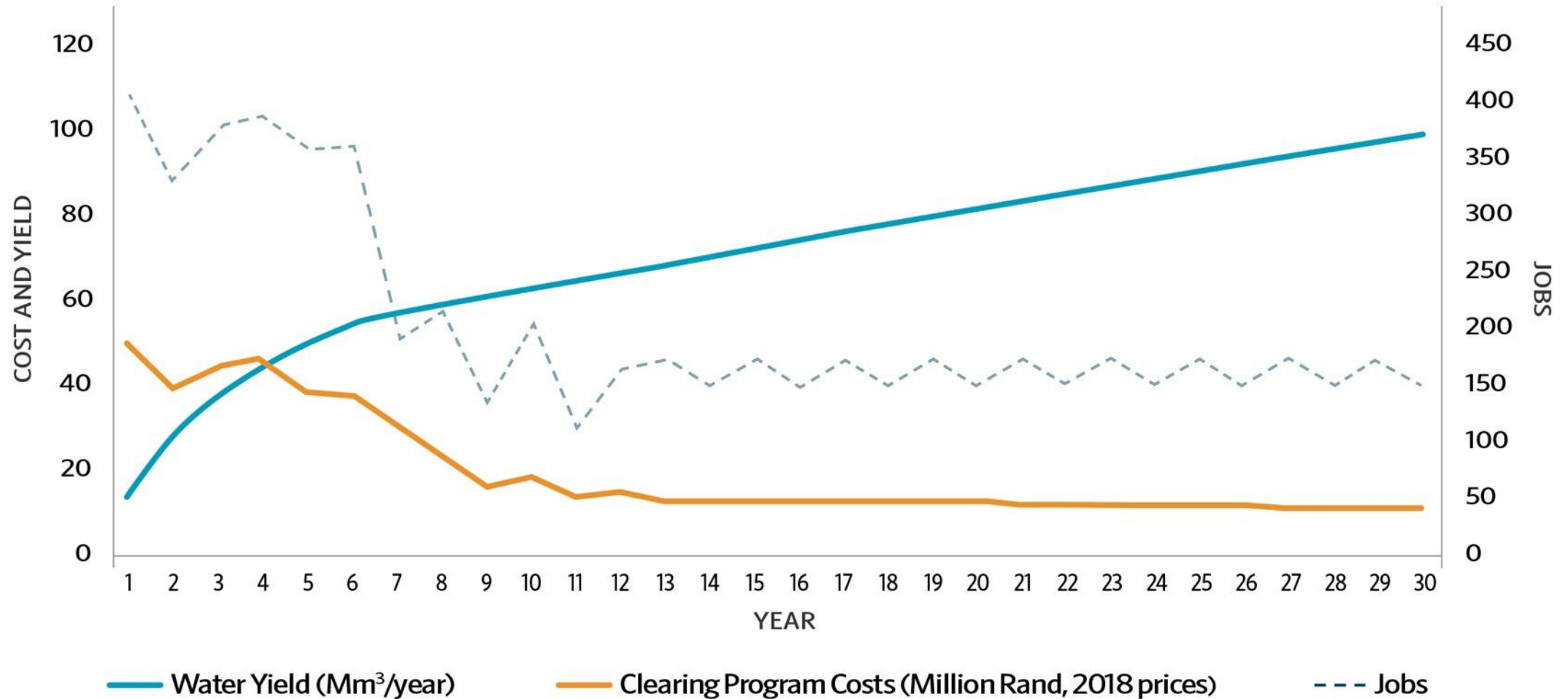
GCTWF | **Two-Thirds of Sub-Catchments are Invaded by Alien Plants**



CATCHMENT RESTORATION INCREASES WATER SUPPLY AT THE LOWEST UNIT COST



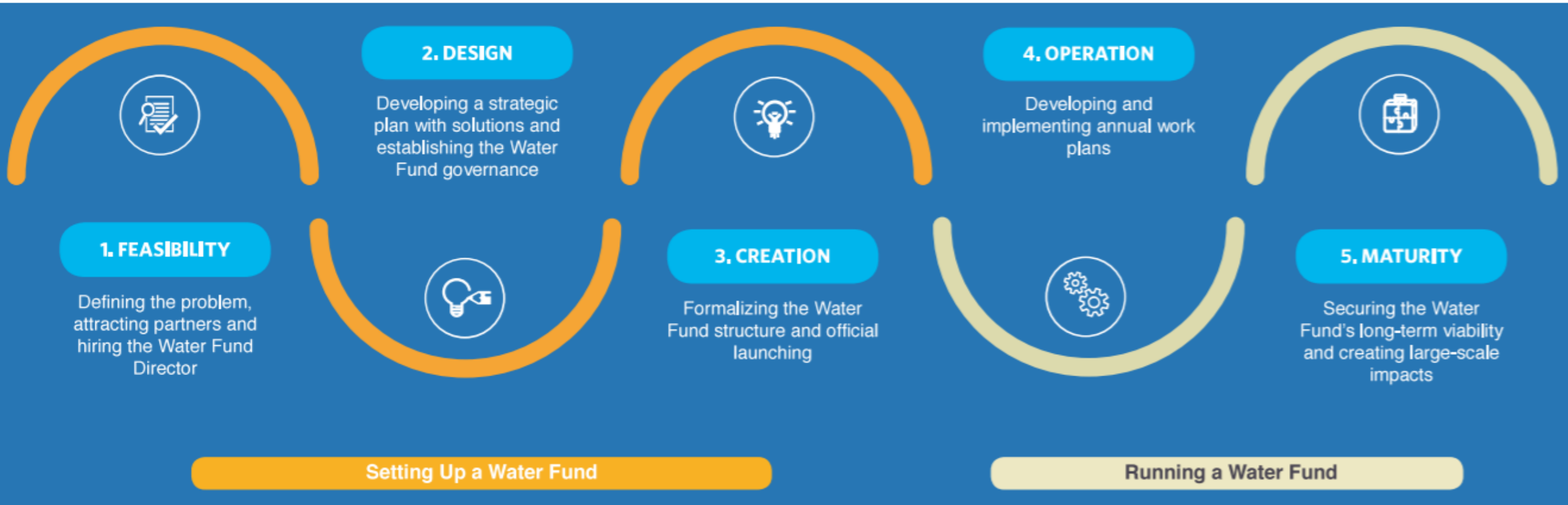
TIMELINE OF ANNUAL COSTS, WATER YIELD BENEFITS, AND JOBS CREATED



GCTWF | Alien Plant Invaded Landscapes Increase The Risks Of Devastating Wildfires

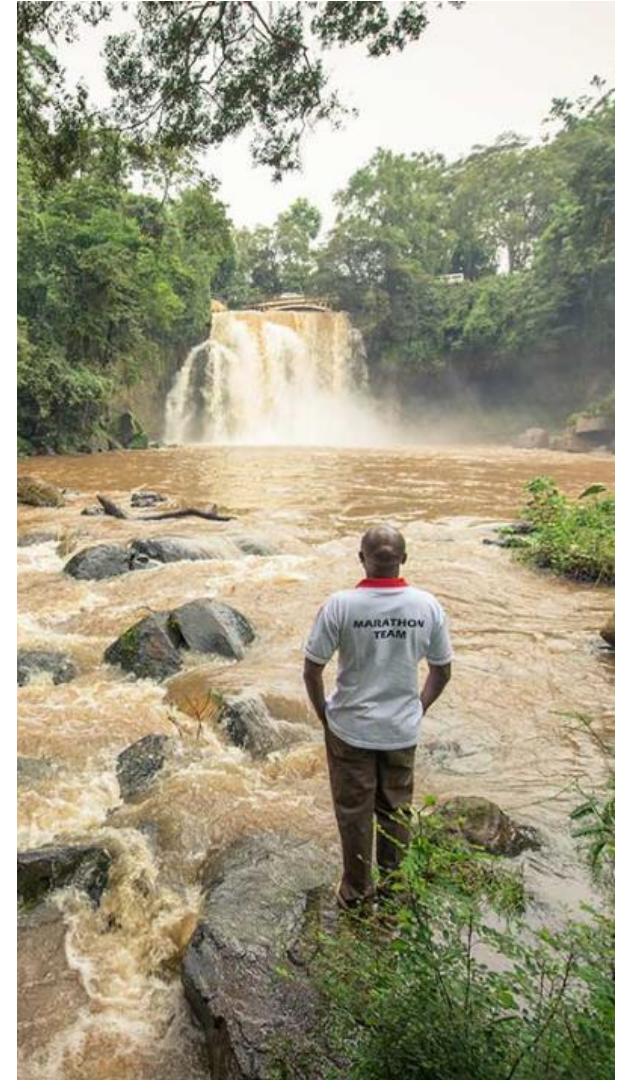
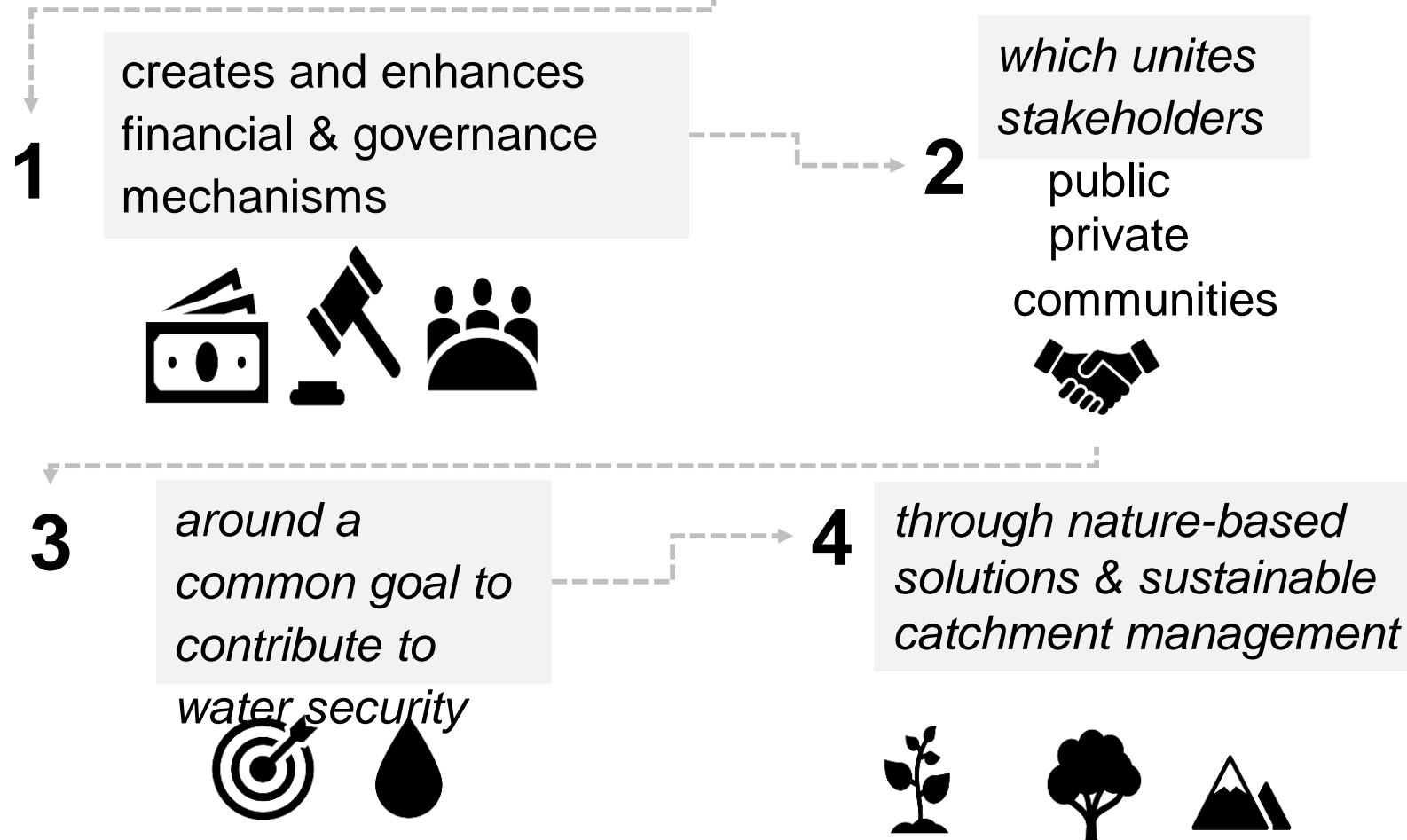


Water Fund Life Cycle



WATER FUND | What is a Water Fund?

A Water Fund is an organizations that:



WATER FUND | What it is not



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



- Mandates
- Duplicate
- Compete



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA



Western Cape
Government

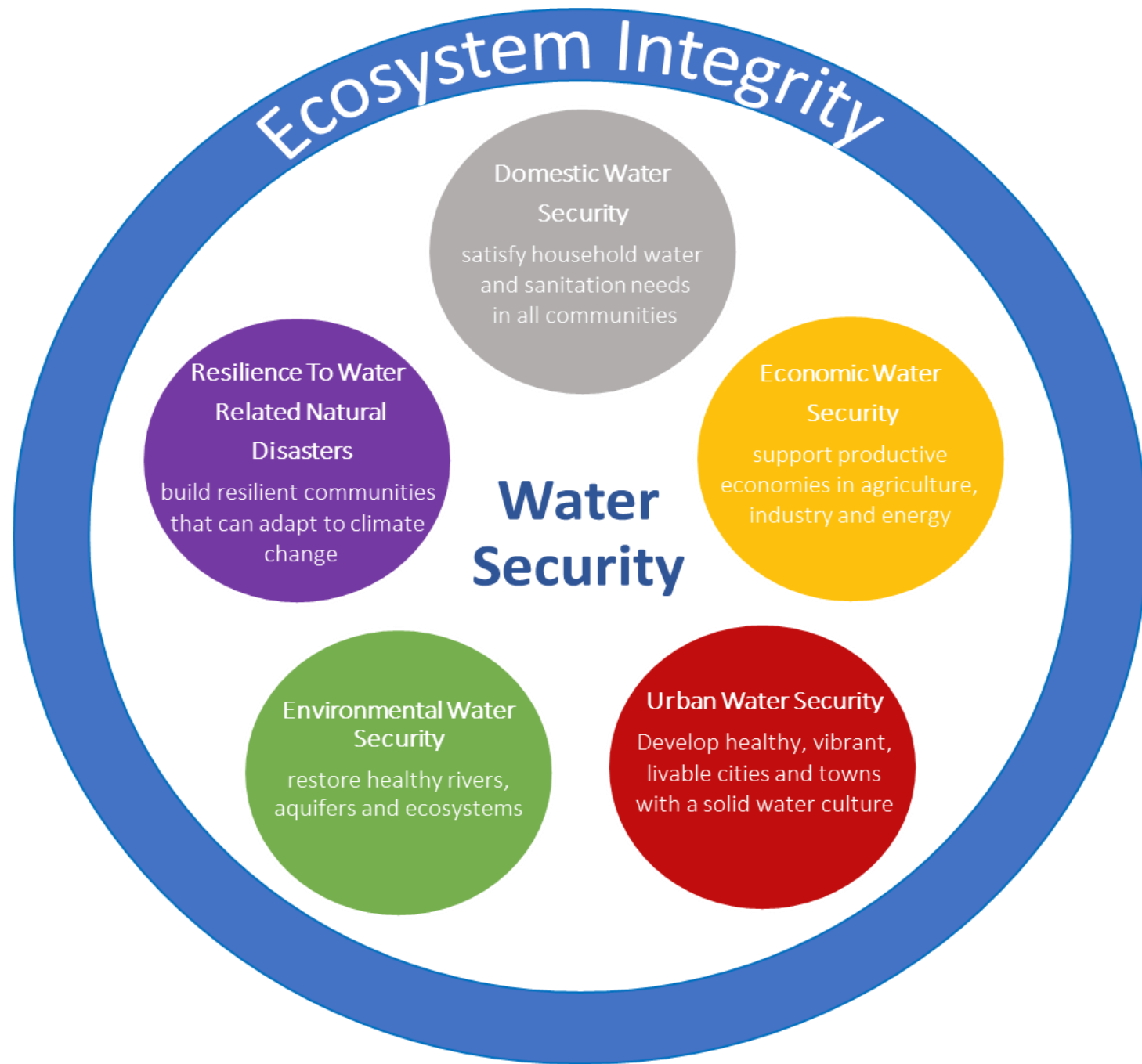
BETTER TOGETHER.



- Catalytic
- Capacity Building
- Networking
- Support



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD



WATER FUND | To consider

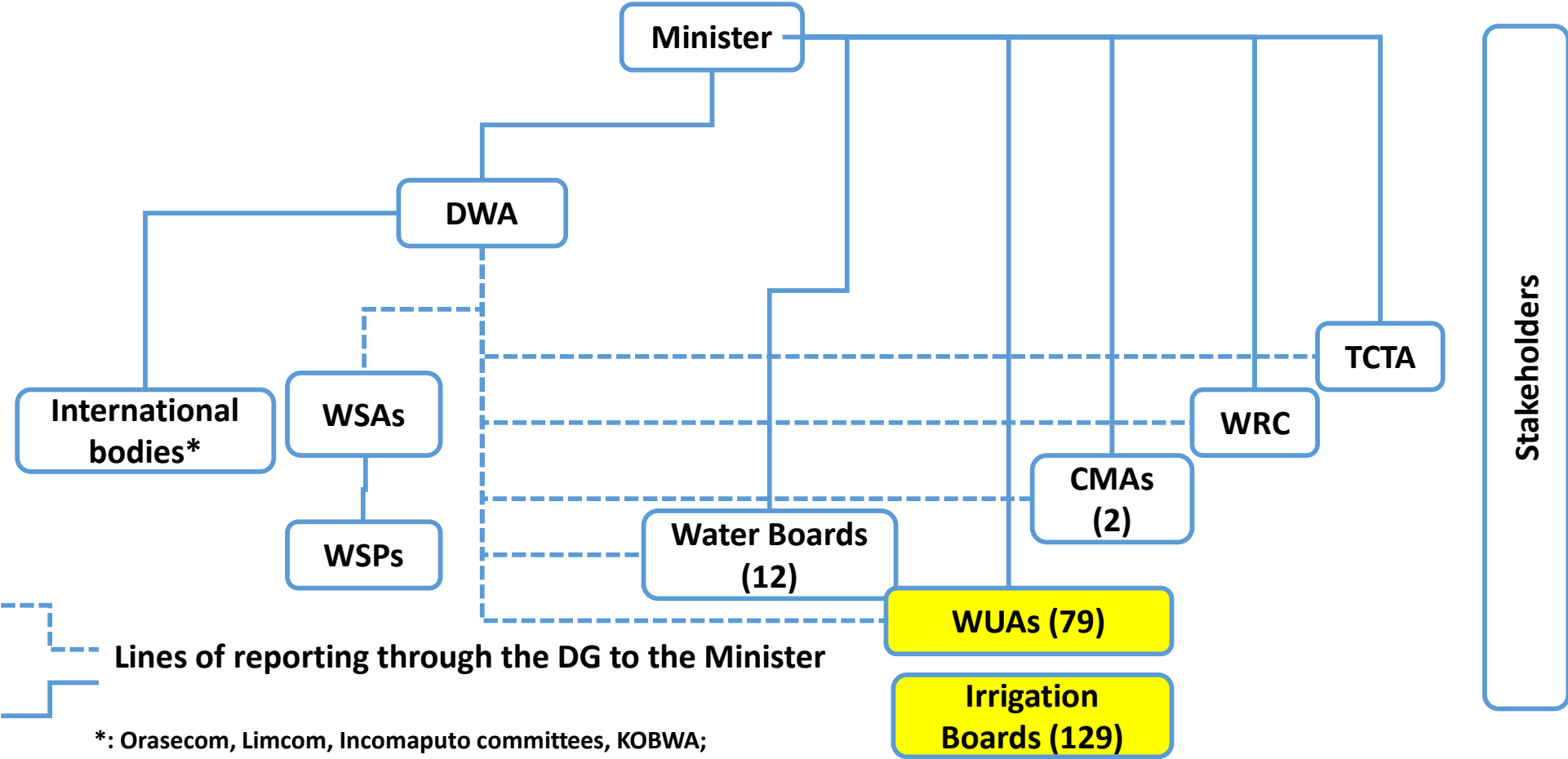
Local aspects

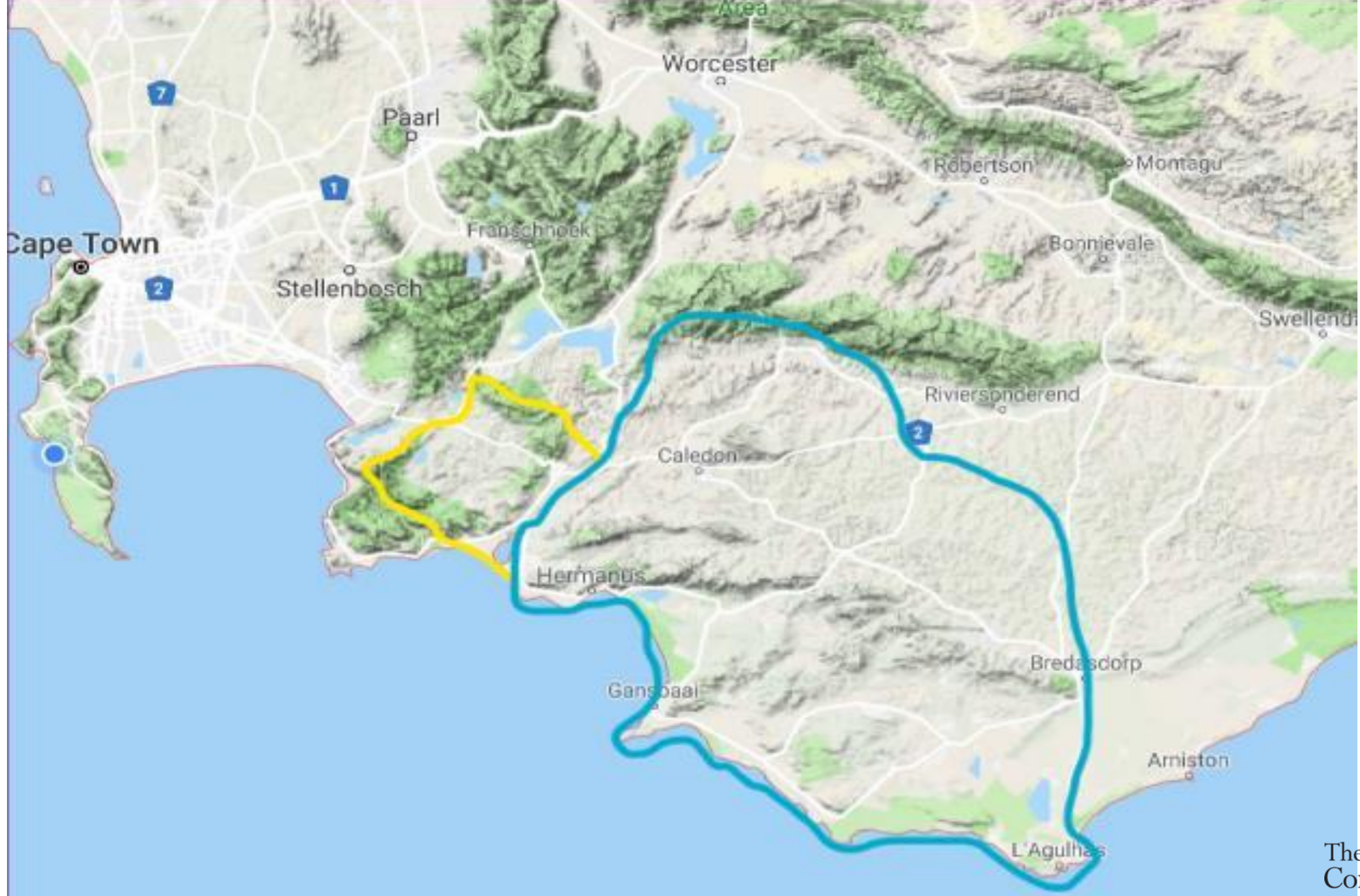
1. Domestic water security
2. Urban water security
3. Economic water security
4. Water management


Broader issues


5. Risk and disaster management; resilience
6. Governance
7. Geography
8. Environmental
9. Land use

Current Institutional Arrangements







The Nature Conservancy 




**The Cape Town Water Fund:
A business case and strategy
for clearing of IAPs**

Draft Report - January 2018



**Prioritisation of wetlands for water supply in priority dan
catchments in the Western Cape Water Supply System**




May 2018

DRAFT FOR DISCUSSION

Report compiled by: K. Snaddon,
Freshwater Research Centre, Office 23, Imhoff Farm, Kommetjie, 7975

Submitted to: The Nature Conservancy

An analysis of legislation and policies supporting
water resource protection in South Africa, with
specific focus on municipalities




"Many of the City aspirations with respect to climate change
adaptation are somehow related to [interpreting mandates
progressively]... particularly in this category of mandate challenges,
there is scope for a more robust approach of the City with respect to
climate change activities" - De Visser (2012)

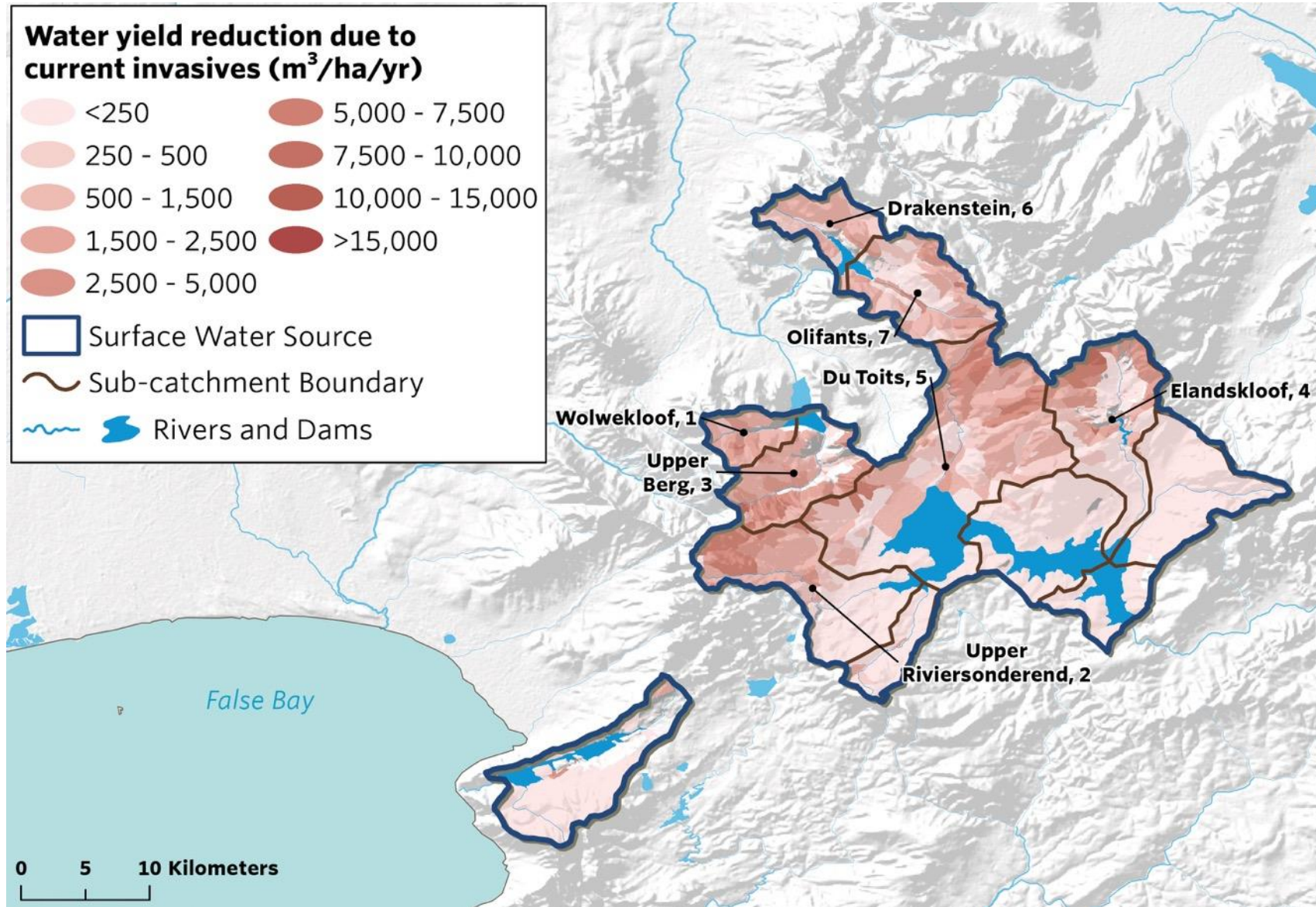
A report by Mark Botha
For
The Nature Conservancy

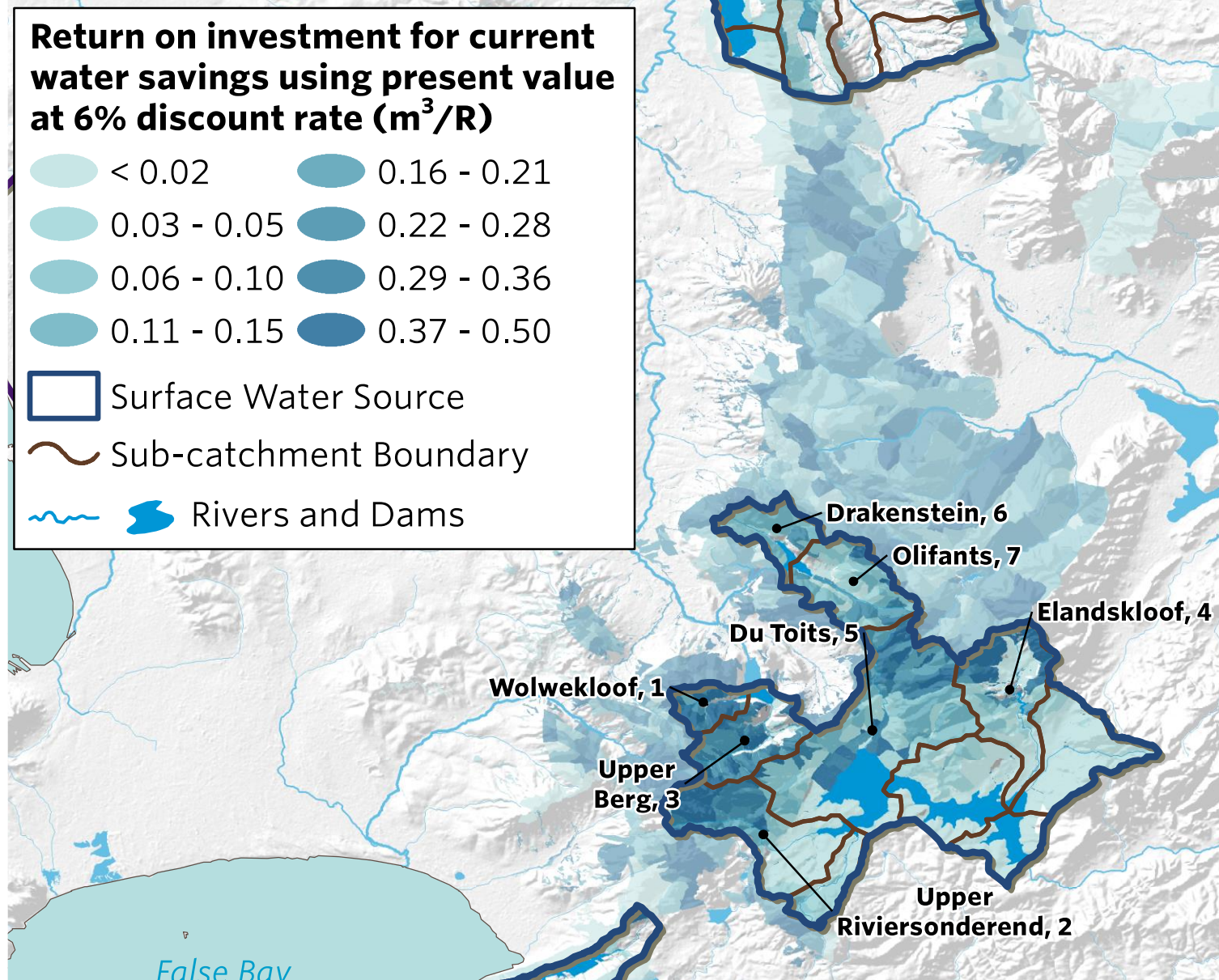
Water Funds Business Case:
Conservation as a Source of Competitive Advantage

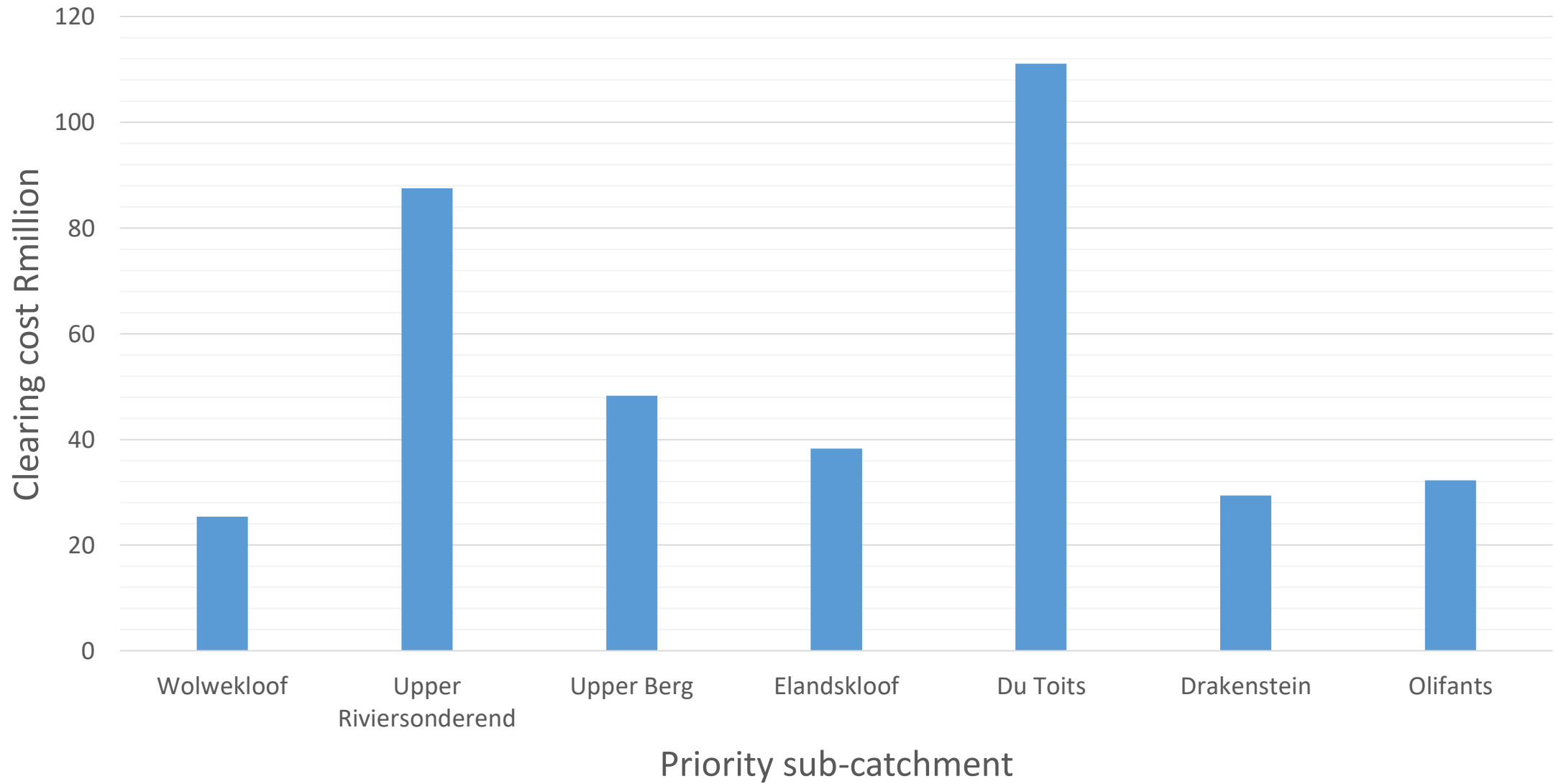
- ▶ The Business Imperative
- ▶ Why Green Infrastructure Over Gray?
- ▶ Water Funds as Green Infrastructure: How do they work?
- ▶ Cases



GCTWF | 55 Billion Litres of Water a Year is Lost to Alien Plant Invasion







WATER FUND | Role of a Water Fund

- Platform to envision, finance and improve water security
- Monitoring, research
- Influence water-related public policy, governance and decision making
- Encourage and drive projects using natural solutions
- Convene stakeholders to work collectively for impact at scale

WATER FUND | Way forward





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Learn more: www.agulhasbiodiversity.co.za

www.nature.org

WATER FUND | 1. Domestic

- Water availability for households in short, medium and long term
- Demand, supply trends
- Challenges, drivers, incentives
- Information gaps

WATER FUND | 2. Urban supply

- Are towns and communities water-sensitive?
- Challenges
- Drivers
- Incentives

WATER FUND | 3. Economic

- Is water available for the needs of agriculture, industry, and energy?
- Water consumption by sector
- Demand, supply trends
- Challenges, drivers, incentives
- Information gaps

WATER FUND | 4. Water Management

- Entities involved
- Water sources used
- Treatment and distribution
- Water costs
- Priorities for the relevant systems
- Reputation of regulator
- Consumption

WATER FUND | 5. Risk, disaster management

- Climate change risks
- Natural disasters
 - Droughts
 - Floods
 - Fire
- Challenges, drivers, incentives
- Information gaps

WATER FUND | 6. Governance

- Government agencies
 - Policies
 - Regulatory frameworks
- Analysis
 - National, provincial, local legal conditions
 - Stakeholders
 - Champions
 - Other initiatives with similar objectives – compete/collaborate
 - Partnerships

WATER FUND | 7. Geography

- Municipal boundaries
- Hydrologic unit(s)
- Catchment(s)
- Inter-basin transfers
- Geography
- Demographics
- Hydrology
- Hydrogeology of catchments(s)

WATER FUND | 8. Environmental

- State of our rivers, aquifers
- State of our ecosystems, biodiversity

- Challenges
- Drivers
- Incentives

WATER FUND | 9. Land-use

- Land use
 - Trends and developments
 - Land use change
- Ecologically sensitive areas
- Challenges
- Drivers
- Incentives

