



**water & sanitation**

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA



NATIONAL DEVELOPMENT PLAN  
*Our Future - make it work*

# National Eutrophication Management Strategy

## National Water & Sanitation Summit

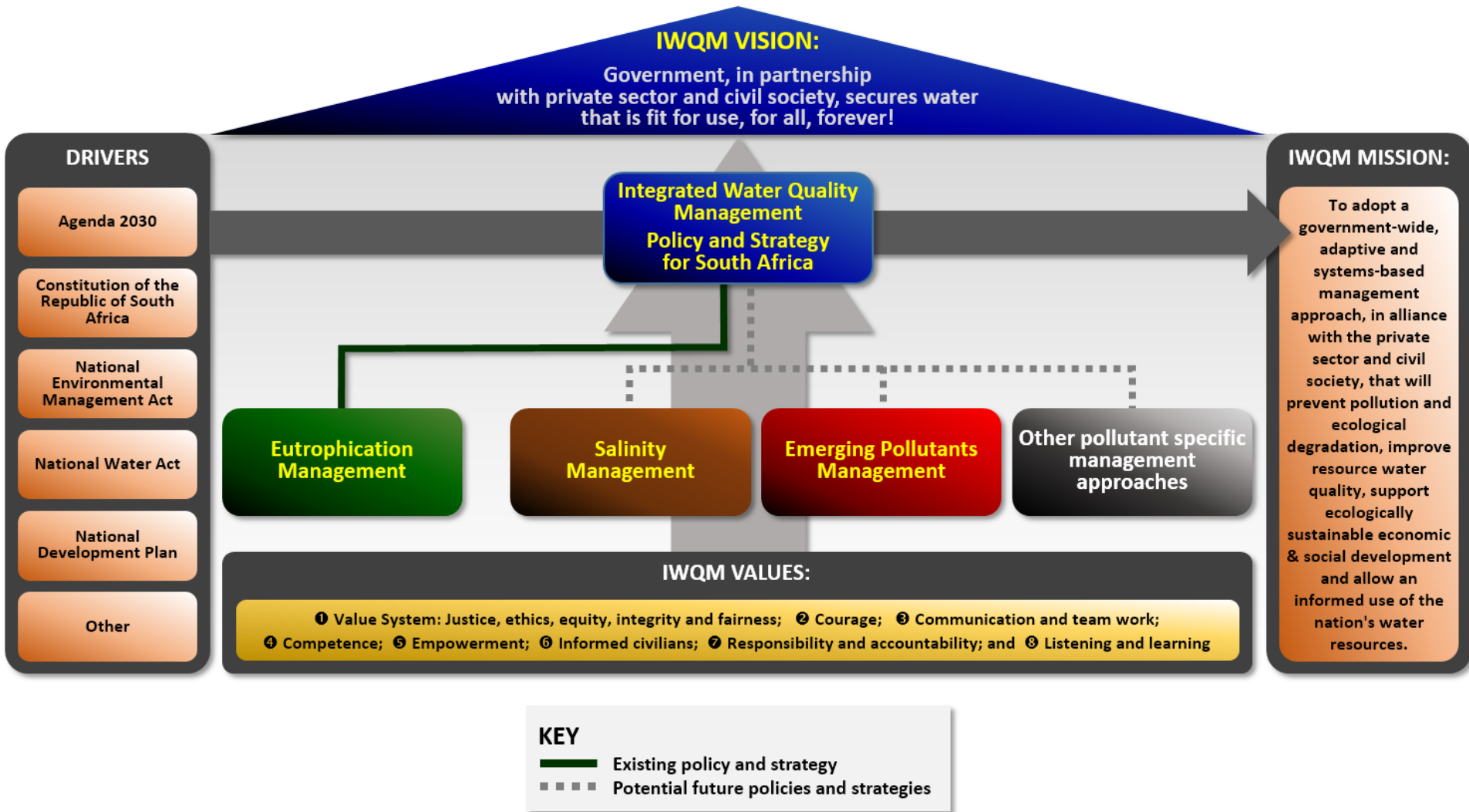
Presented by: Mr Jurgo Van Wyk

Date: 18-19 February 2022



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# IWQM POLICY AND STRATEGY FOR SOUTH AFRICA



# POLICY OUTLINE – SUMMARY OF POLICY STATEMENTS

**Vision:** Government, in partnership with private sector and civil society, secures water that is fit-for-use, for all, for ever!

**Mission:** To adopt a government-wide, adaptive and systems-based management approach, in alliance with the private sector and civil society, that will improve resource water quality, prevent pollution and ecological degradation, support ecologically sustainable economic & social development and allow an informed use of the nation's water resources.

**Goal:** To manage eutrophication effectively in order to protect aquatic ecosystems and secure water resources that are fit-for-use.

## CHIEF-OBJECTIVES:

- ▶ To limit anthropogenic nutrient-loading of water resources;
- ▶ To reduce excessive primary production in surface water resources;
- ▶ To protect aquatic ecosystems and their biological diversity;
- ▶ To secure water resources that are fit-for-use on a continuous basis; and
- ▶ To support ecologically sustainable development and justifiable socio-economic growth.

## POLICY STATEMENTS 1 to 14

## COMPLEMENTING OBJECTIVES:

- ▶ To appropriately resource eutrophication management, *inter alia*, by securing funding, providing human capital and equipping responsible parties;
- ▶ To promote research in relation to the management of eutrophication and the control of anthropogenic sources of nutrient enrichment;
- ▶ To promote internal and external management cooperation between government, private sector and civil society;
- ▶ To promote transparency through eutrophication-related communication and awareness creation; and
- ▶ To facilitate capacity building and the empowerment of role-players.

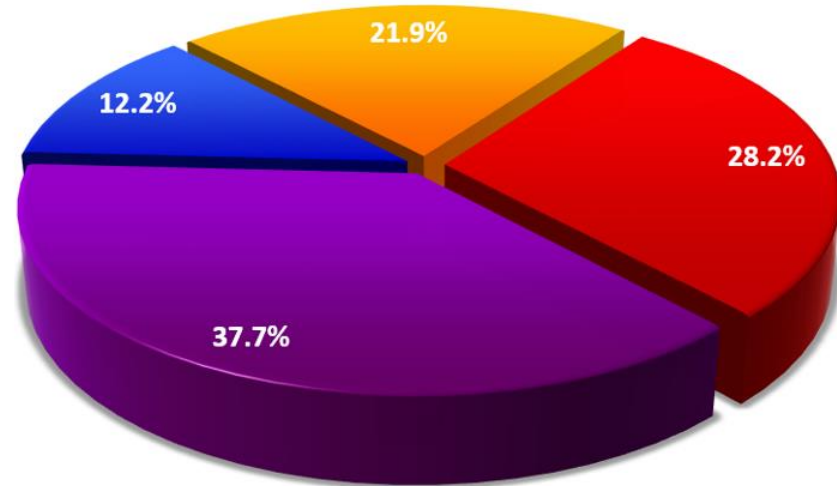
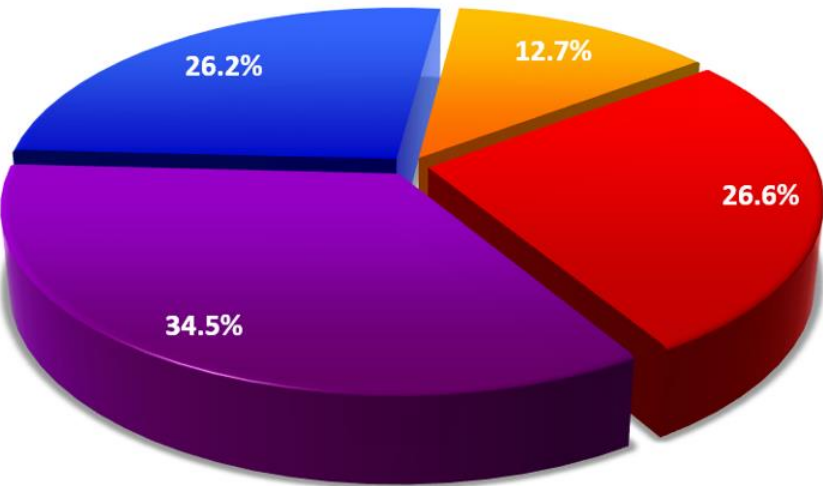
## POLICY STATEMENTS 15 to 19

# TROPHIC STATUS OF 393 SA DAMS

1 October 2016 to 30 September 2017



1 October 2019 to 30 September 2020

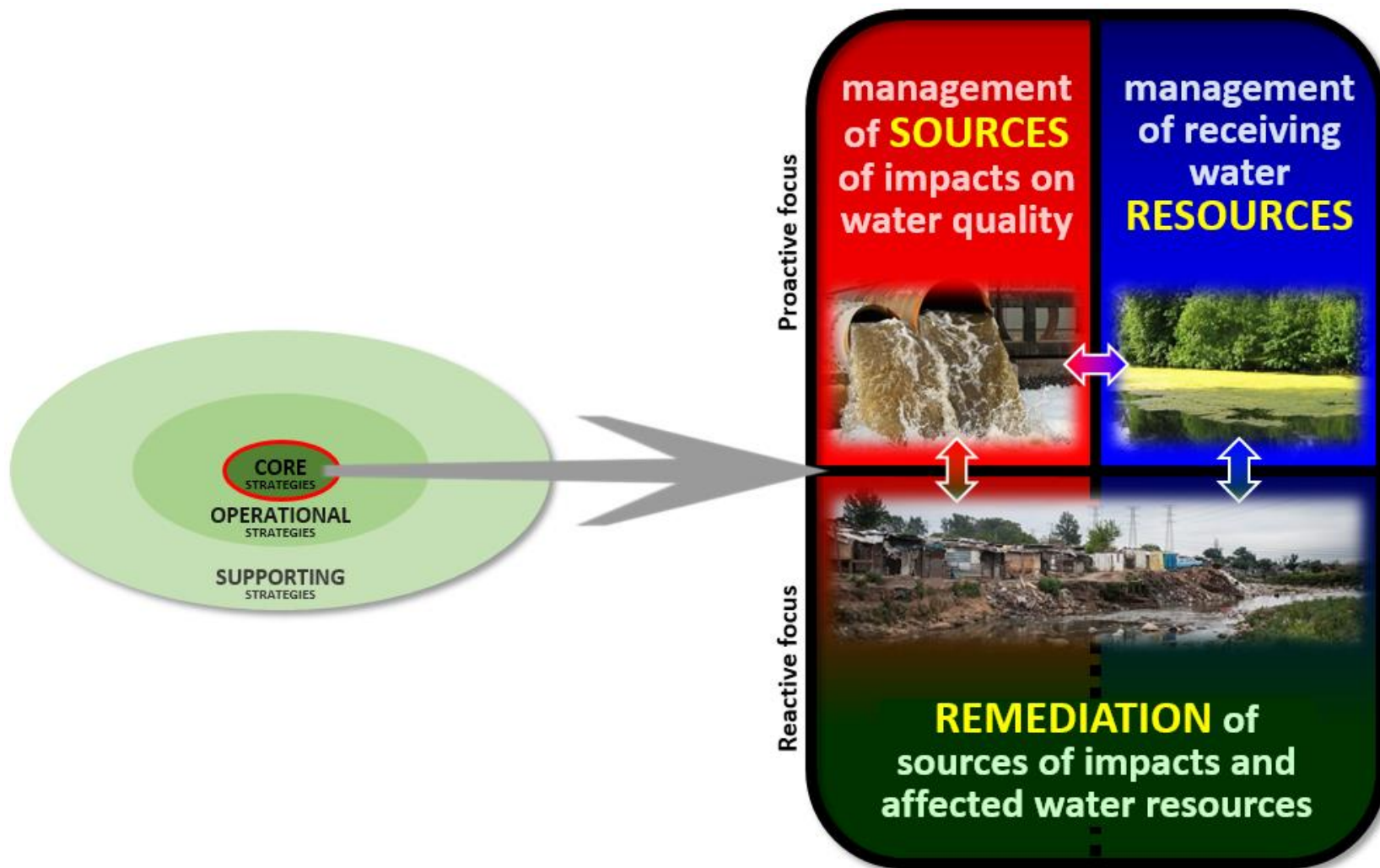


■ Oligotrophic ■ Mesotrophic ■ Eutrophic ■ Hypertrophic

4



# CORE STRATEGIES FOR EUTROPHICATION MANAGEMENT



5

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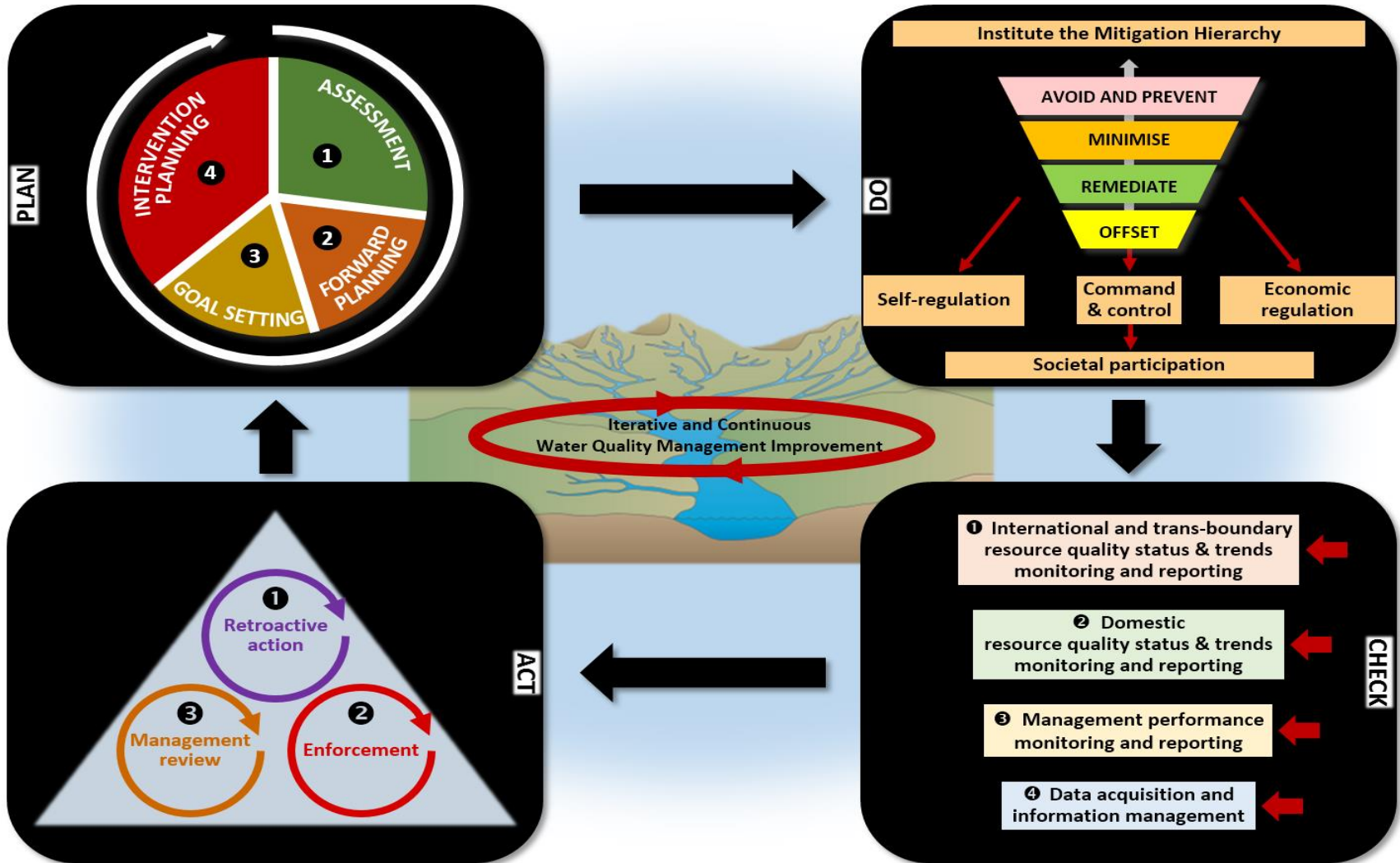


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# OPERATIONAL STRATEGIES FOR EUTROPHICATION MANAGEMENT



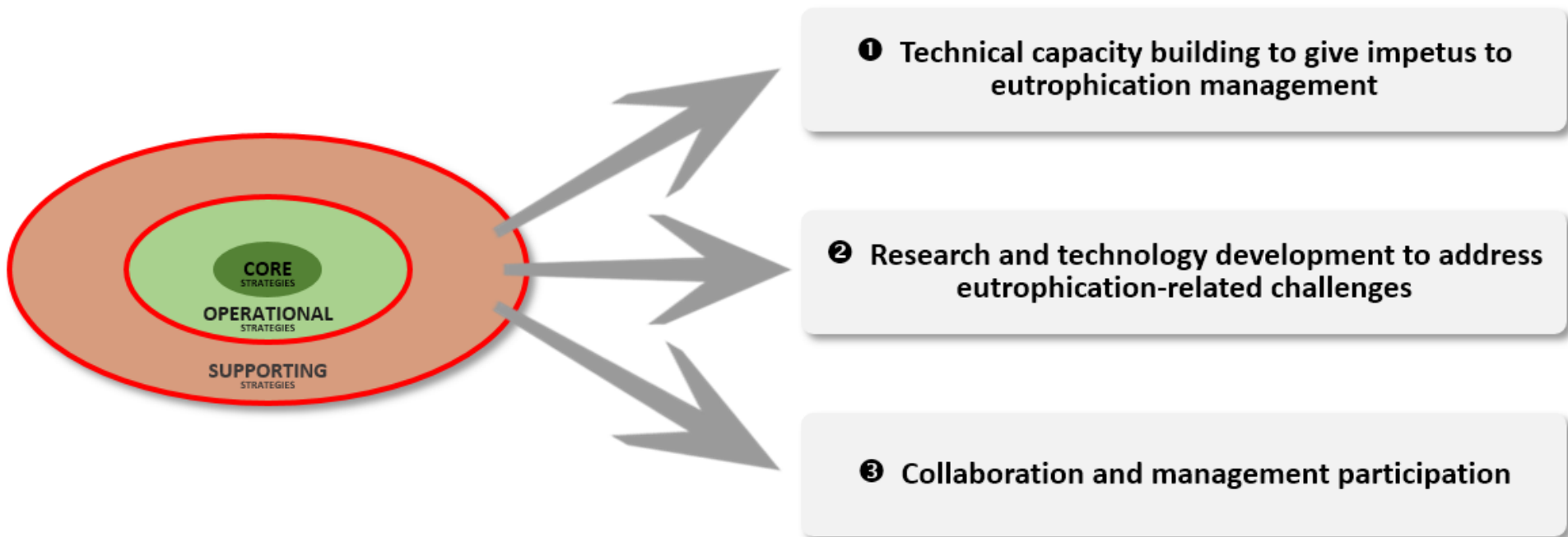
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# SUPPORTING STRATEGIES FOR EUTROPHICATION MANAGEMENT



## PRIORITY AREAS TO BE ADDRESSED

- ✓ Addressing non-compliance of WWTWs to the phosphorus standard of 1 mg/ℓ orthophosphate;
- ✓ Feasible and appropriate Waste Discharge Standards (WDSs) should be developed and implemented;
- ✓ The Receiving Water Quality Objectives Approach must be operationalised - calculation of Total Maximum Daily Loads (TMDLs) for dams;
- ✓ The role and feasibility of technology to treat nutrient-laden wastewater should inform processes to improve eutrophication management. The Best Practicable Environmental Option (BPEO) should be implemented;
- ✓ Compliance monitoring and enforcement must be intensified to deal with unlawful and non-complying water uses;
- ✓ Better cooperation with government, private sector and civil society roll-players needs to be put into action;
- ✓ The introduction of zero-phosphate detergents into South Africa should be pursued, linked to consumer education; and
- ✓ The rehabilitation and restoration of affected water resources, including the implementation of bio-remediation initiatives in dams should be supported.



# THANK YOU

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