



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Reconciliation Strategy of the KwaZulu-Natal Coastal Metropolitan Area: Phase 2

**Study Steering Committee (SSC)
Meeting No. 7**

25 February 2015

ITEM 1: Welcome



TEAM INTRODUCTION

- **Chair: Mr Livhuwani Mabuda**
- **DWS**
 - Study Manager: Niel van Wyk
 - Deputy Study Manager: Mr Kennedy Mandaza
- **PSP: AECOM**
 - Study Director: Ms Hermien Pieterse
 - Study Leader: Mr Gerald de Jager
(Supported by Specialists and Technical Team)
 - Stakeholder participation: Bongi Shinga

GENERAL ARRANGEMENTS

- **Facilities**
- **Tea, coffee and lunch**
- **Meeting arrangements**
 - Introduction of attendees
 - Discussions and questions times indicated on Agenda

ITEM 2: Attendance and apologies



ATTENDANCE REGISTER

- **Attendance register distributed**
 - Please return to Ms Bongsi Shinga
- **Apologies**
 - Please provide

ITEM 3: Approval of the Agenda



AGENDA ITEMS

1. Welcome
2. Attendance and apologies
3. Approval of the agenda
4. Minutes of SSC 6 meeting
5. Status and review of Strategy
 1. Water requirement projections
 2. Water balances
 3. Review and updating of Strategy intervention list
6. Institutional arrangements
7. Coordination with other studies
8. Communication
9. Implementation of Strategy and Way forward
10. Date of next meeting

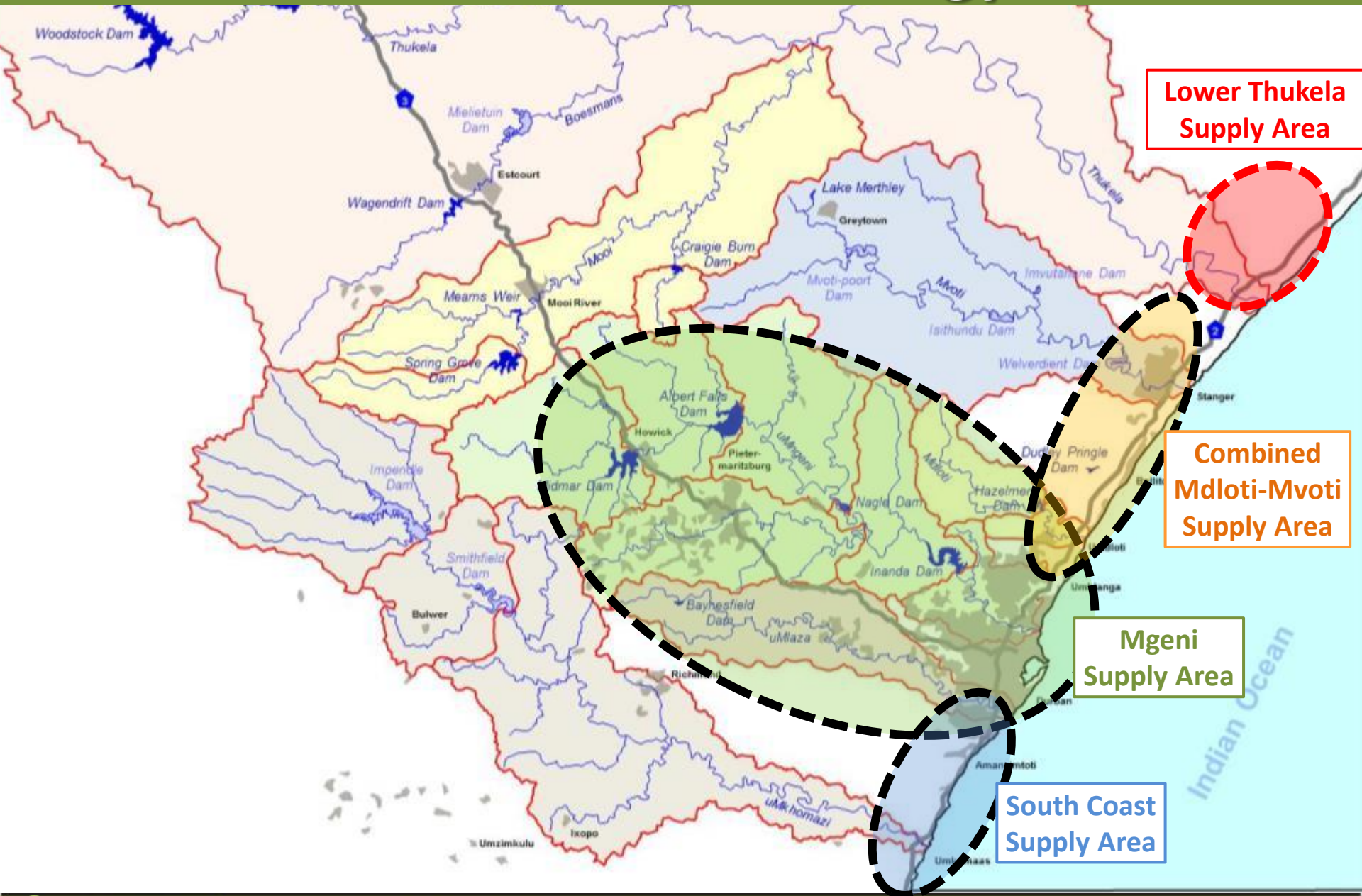
ITEM 4: Minutes of SSC 6





ITEM 5: Status and review of Strategy

The Reconciliation Strategy Area



5. STATUS AND REVIEW OF STRATEGY



Water requirements

2. Water balances

3. Review and updating of Strategy interventions list:

1. Mooi-Mgeni Transfer Scheme (MMTS)
2. Raising of Hazelmere Dam
3. uMkhomazi Water Project (uMWP)
4. Lower Thukela Bulk Water Supply Scheme (LTBWS)
5. North Coast Pipeline and Hazelmere Supply Infrastructure
6. Lower uMkhomazi Feasibility Study
7. Desalination
8. Re-use of Water : Hazelmere Dam

ITEM 5.3.1: Mooi-Mgeni Transfer Scheme (MMTS)

SPRING GROVE DAM
2013

MOOI-MGENI TRANSFER SCHEME (MMTS-2)

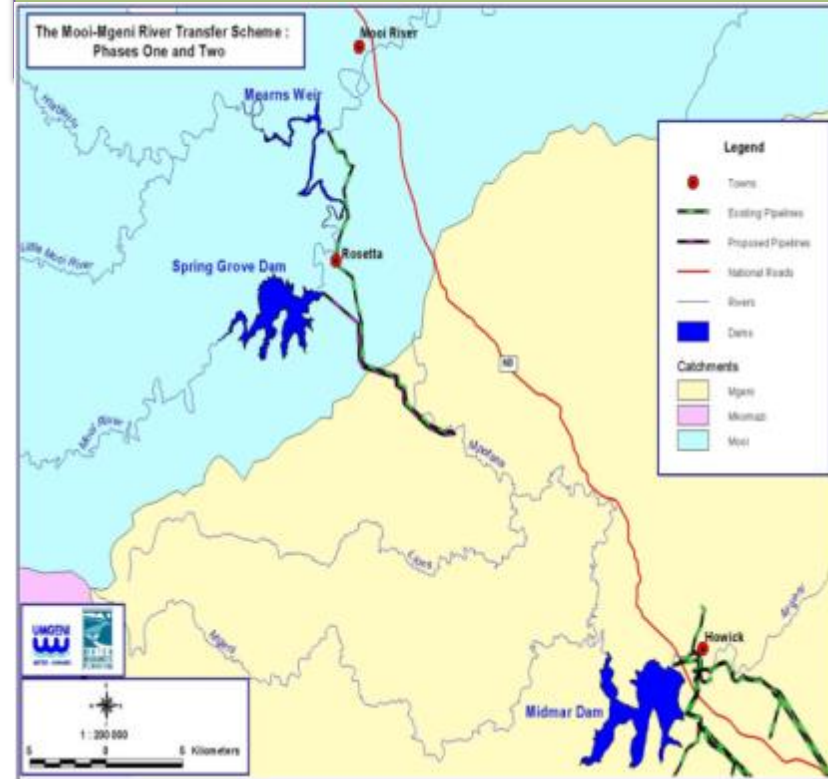
Spring Grove Dam

- Phase 1: Completed
- Spring Grove Dam is 37.7m high with a storage capacity of 139.5 million m³
- Capital cost: R 635 million

Water Transfer Scheme

- Phase 2: On-going -65% complete
- Pump station at the Spring Grove Dam
- Pipeline (14.9 km, diameter varying from 650 mm to 1 800 mm)
- 8.2 km of Umgeni Water potable pipeline
- Refurbishment of MMTS-1
- Capital budget: R 611 million
- Milestones:
 - Commissioning : July 2015
 - Water delivery October 2015

Schematic layout of the



Spring Grove Dam

Aerial view of the dam



Downstream view & Spring Grove Gauging Weir



Intake Tower



Water Transfer System

Construction of resettlement houses



Pipe Laying



Pump Station under construction



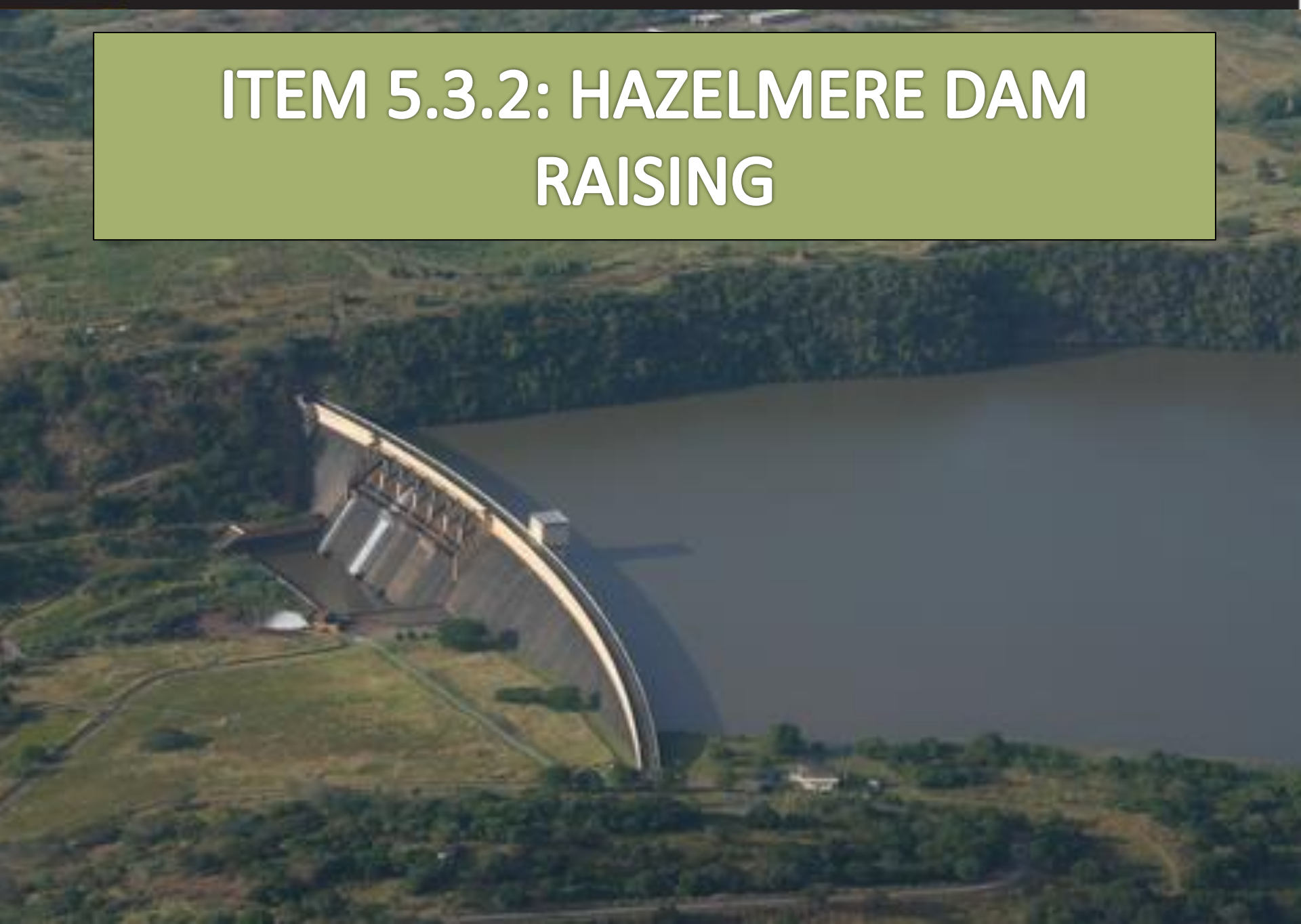
Pipeline



WATER IS LIFE - SANITATION IS DIGNITY

Toll Free: 0800 200 200 www.dwa.gov.za

ITEM 5.3.2: HAZELMERE DAM RAISING



HAZELMERE DAM RAISING

BACKGROUND

- Dam wall to be raised by 7 m to 93 masl by the construction of a piano key weir
- Stability of the dam wall needed to be improved by the installation of rock anchors
- Estimated project cost: R 642.4 million

PROGRESS:

- Necessary land acquisition has progressed
- People displaced are being consulted by Land Matters and professional evaluators
- Inundation of graves and archaeological sites
- Loss of habitat for terrestrial mammals (Msinsi Holdings)
- Estimated 8 hectares of wetlands will be inundated

HAZELMERE DAM RAISING

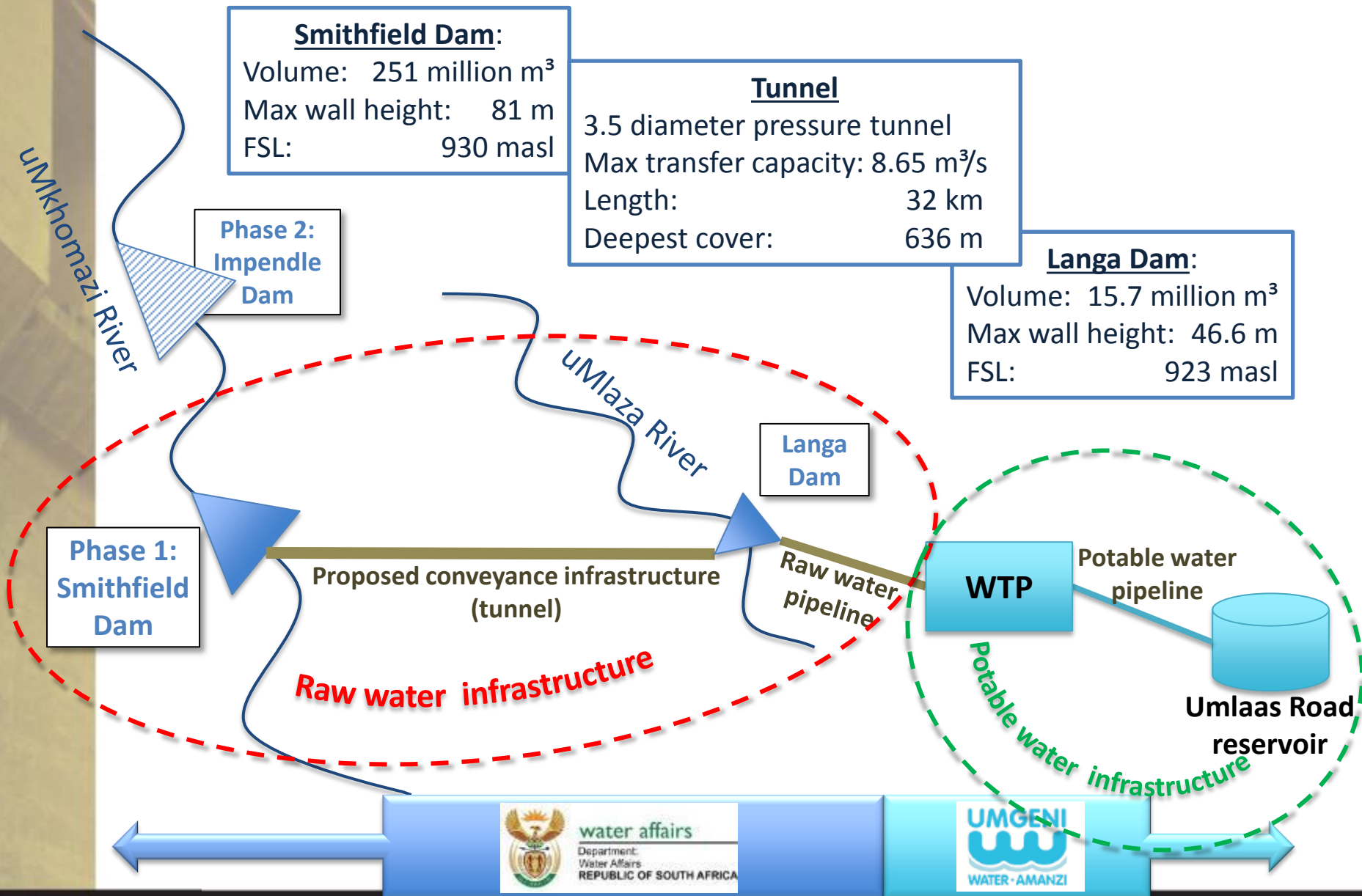
PROGRESS

- Demolition of existing buildings and minor civil works completed
- The valuation of affected properties is 50% completed
- Construction of dam wall
 - Contract for Piano Key Weir is awarded
 - Contractor is expected to be on site by April 2015
 - Construction period is 24 months
- The estimated job creation will be 300
- Environmental Control Officer (ECO) is appointed for the monitoring of compliance to environmental regulations
- Archaeologist has completed investigation on heritage sites and provided the report

ITEM 5.3.3: uMkhomazi River Project (uMWP)



Project components



UMKHOMAZI WATER PROJECT (uMWP)

- **MODULE 1: TECHNICAL FEASIBILITY STUDY-
RAW WATER**

- Feasibility design completed
- Extension of contract approved

- **MODULE 2: EIA**

- Scoping phase completed
- Initiated specialist studies
- EIR submission milestone November 2015

- **MODULE 3: TECHNICAL FEASIBILITY STUDY –
POTABLE WATER**

- Feasibility design completed

Feasibility study

Module 1: Technical
(Raw Water)

Module 2: EIA

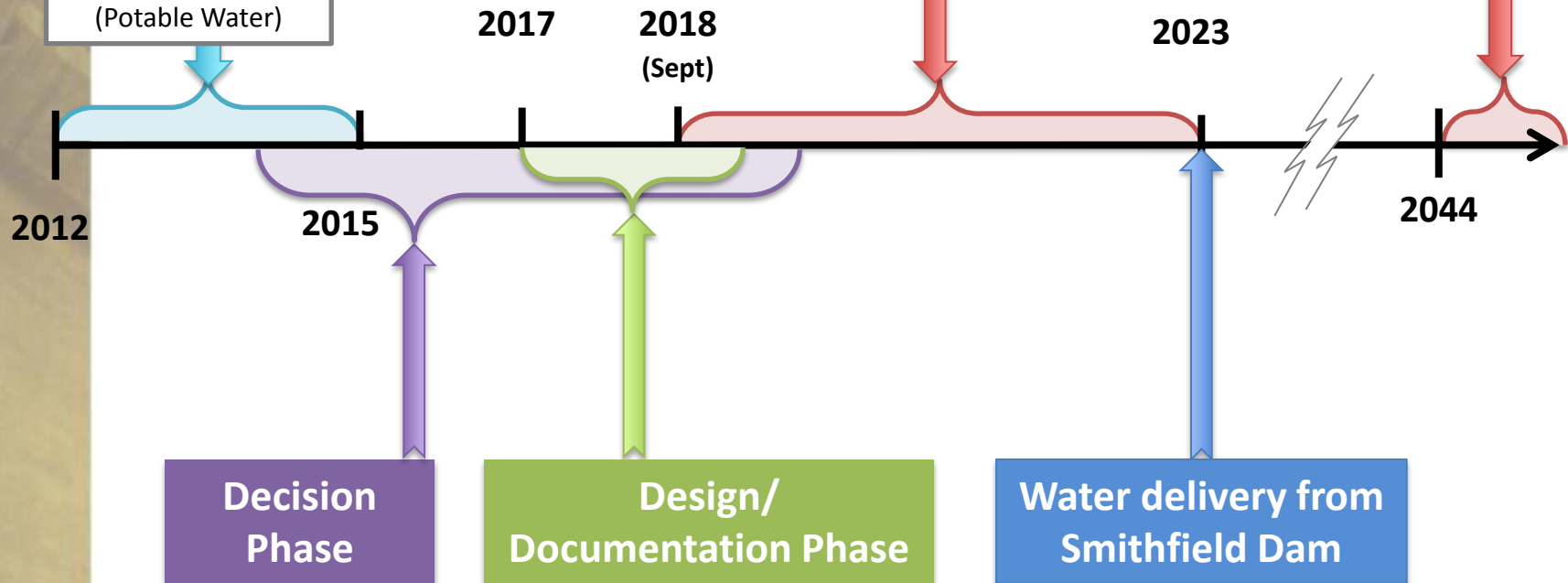
Module 3: Technical
(Potable Water)

Construction

Phase 1:
Smithfield Dam

Implementation

Phase 2:
Impendle Dam



Total capital cost: R 16 516 million (2014 Rands excl VAT)

5. STATUS AND REVIEW OF STRATEGY

1. Water requirements

2. Water balances

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7. Desalination
- ➔ Re-use of Water : Hazelmere Dam

5. STATUS AND REVIEW OF STRATEGY (CONT.)

9. WC/WDM

- ➔ • eThekwini MM – 5.9.1
- ➔ • uMgungundlovu DM – 5.9.2
- ➔ • Msunduzi LM
- ➔ • Ilembe DM
- ➔ • Ugu DM – 5.9.3

Ilembe District Municipality

Notha Maphumulo



WC/WDM: ILEMBE DM

- Replacing of old infrastructure
- Installation of bulk water meters

ITEM 6: Operational and drought matters



28/01/2010



ITEM 7: Coordination with other Studies



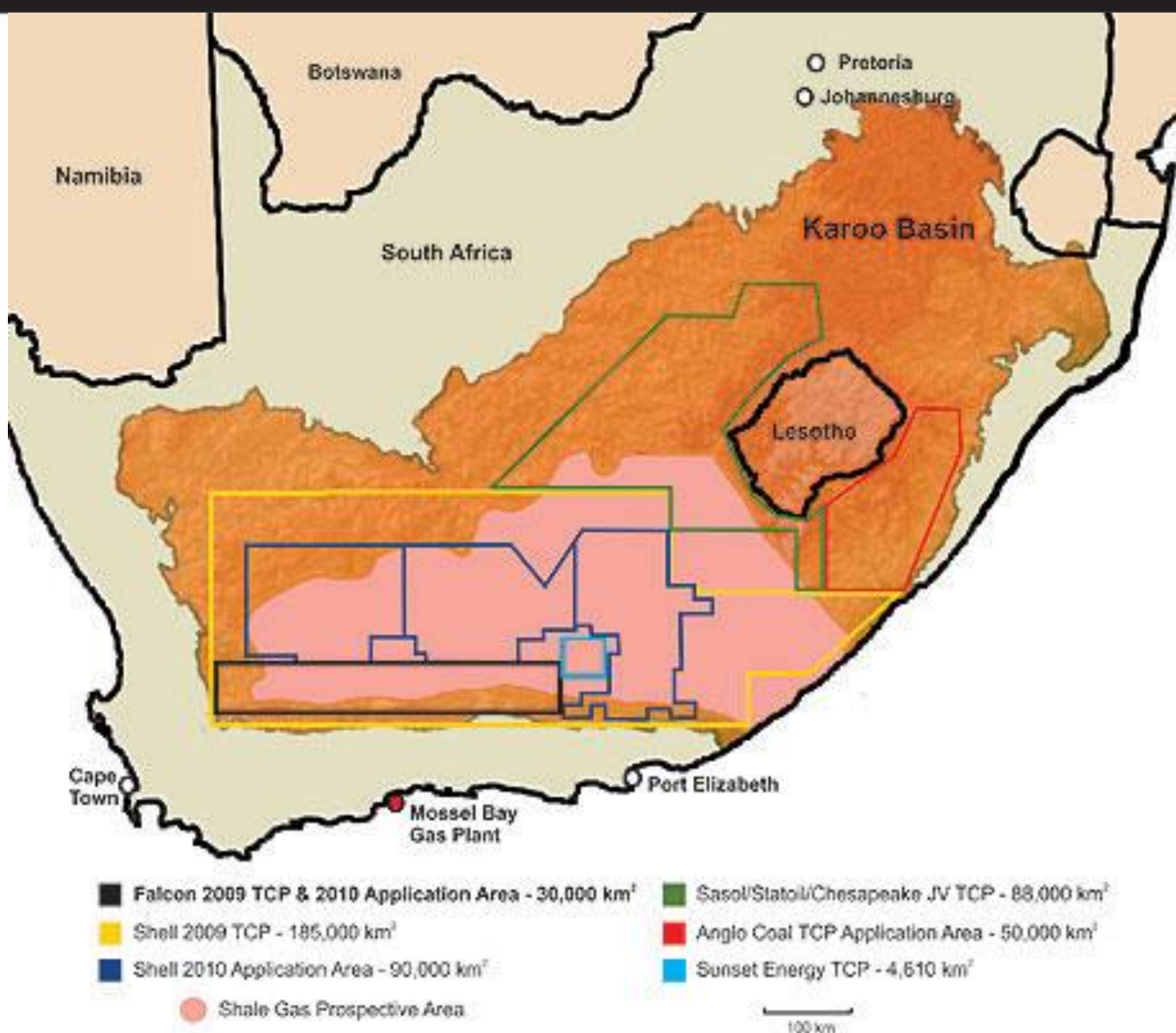
7.1: Previous and current studies

- ➔ Classification of Water Resources in the Mvoti to Mzimkhulu WMA
- ➔ uMngeni Ecological Infrastructure Partnership (UEIP)

7.2: Other relevant items

- ➔ Rainwater Harvesting : Dube Tradeport
 - Fracking





Source: EIA, April 2011, Falcon Oil & Gas Ltd.

ITEM 8: Communication



COMMUNICATION

- Finalise SSC membership

- DWS project website:

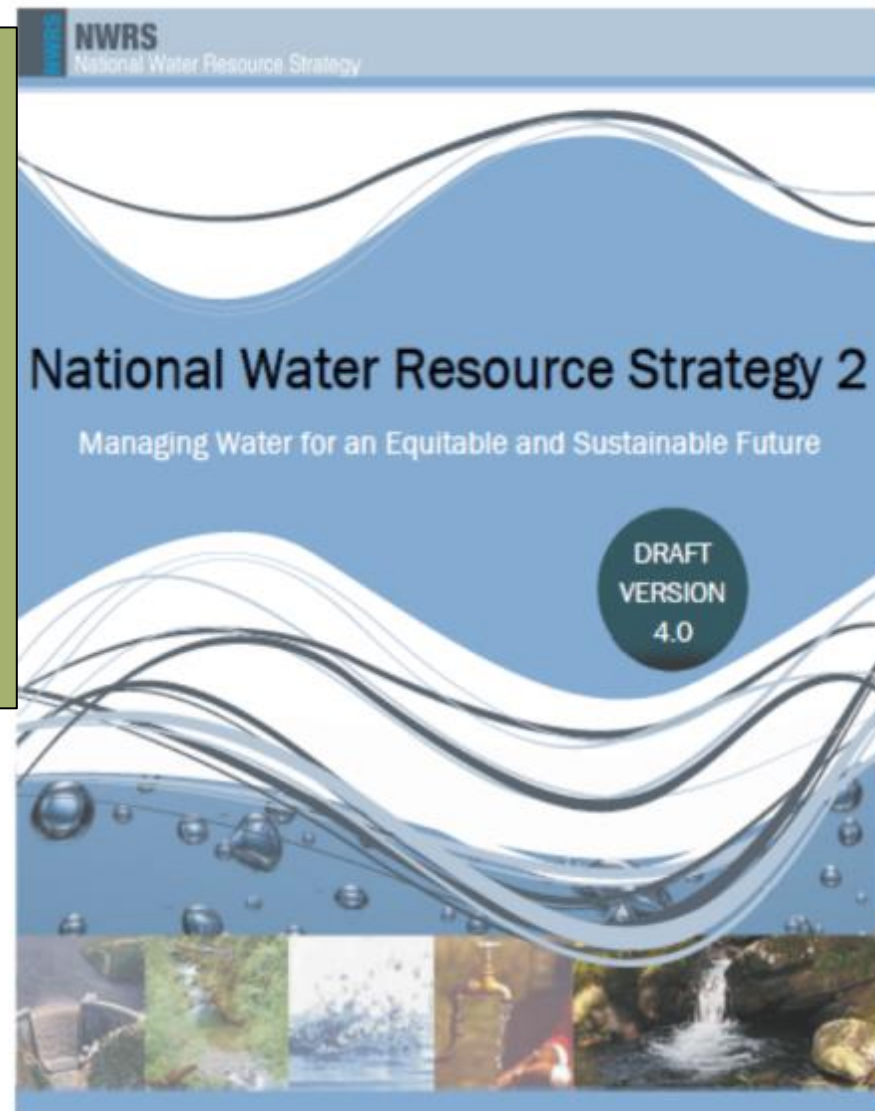
<https://www.dwa.gov.za/projects.aspx>

- Key message and focus

- Status Report
- Media Release

ITEM 9.1: National Water Resource Strategy 2: Implementation

IMPLEMENTATION; APPROACH AND PROGRESS



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

INTRODUCTION

LEGISLATIVE REQUIREMENT:

- National Water Act requires NWRS to be regularly reviewed/updated

DEVELOPMENT OF NWRS2

- finalised in June 2013

IMPLEMENTATION:

- Sector approach
- Implementation of Strategic Actions identified in chapters
- DWS Sector Leaders
- Usage of WSSLG as platform

NWRS2: OVERVIEW OF SA WATER RESOURCES

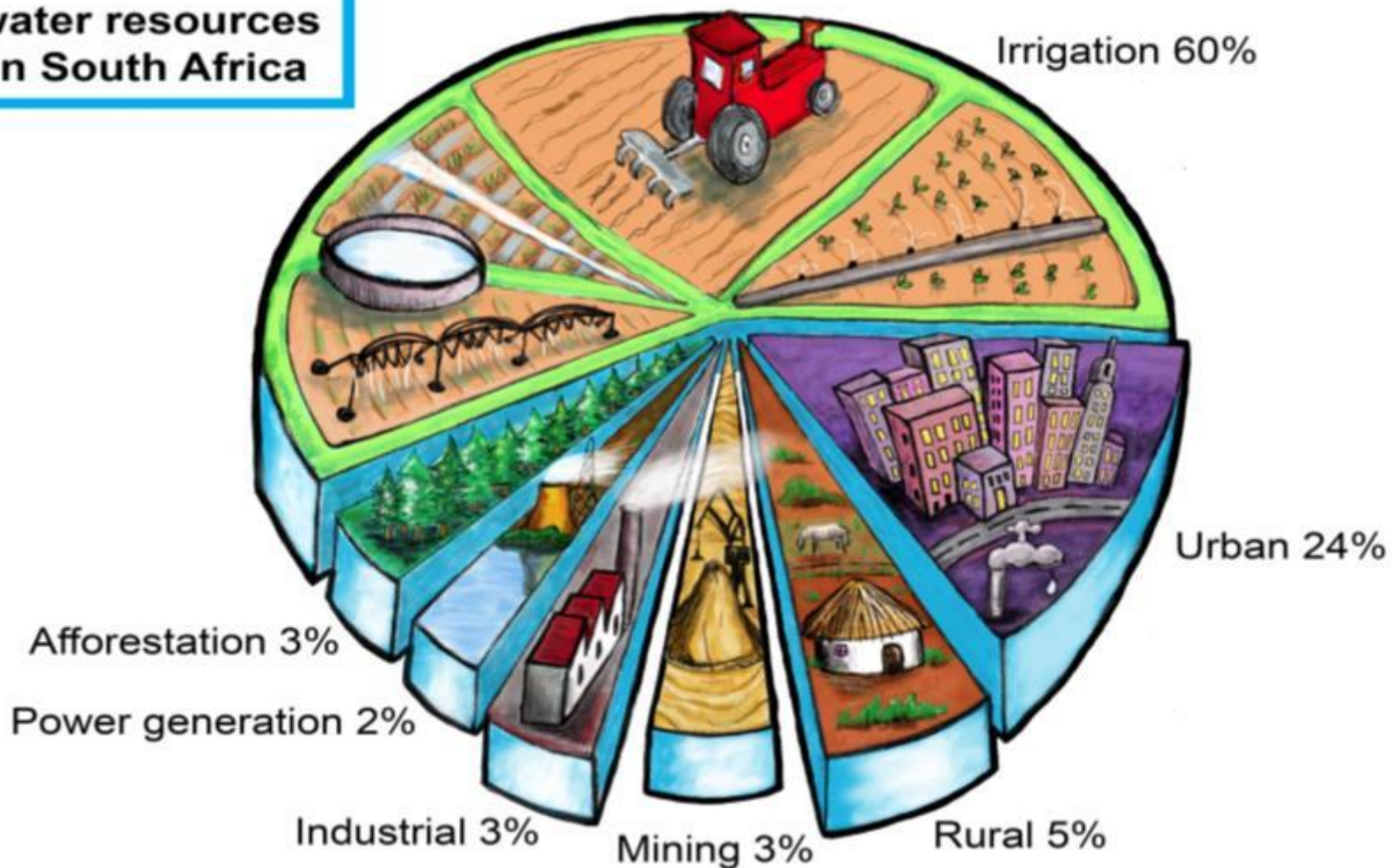
- South Africa's Vision for 2030 demands sufficient water resources
- Water must provide for growth & development
- Our water resource is already stressed: quantity and quality
- Water scarcity threatens:
 - energy production, food security, economic growth & quality of life
- The strategy addresses current & future water demands for 2030 vision and simultaneously ensure the sustainability of our water resource

Alignment with National Development Plan
"Equity, Growth and Development"



EXISTING WATER USE

How we use our
water resources
in South Africa



PRINCIPLES AND APPROACH TO NWRS2 IMPLEMENTATION

- **Participatory approach** with emphasis on citizens' participation and implementation commitment by all water users and sector stakeholders
- **Partnerships** with private sector and civil society (the success of the NWRS2 is dependent on all stakeholders not just the public sector)
- **Good governance** including transparency, accountability, equity, responsiveness, predictability, integrated sectoral planning, clarification of roles and responsibilities
- **Centrality of water** in planning and decision making where all sectors consider water availability in their development planning
- **NWRS2 Implementation Framework will guide development of Implementation Plans to operationalise the Strategy**
 - Developed in collaborative manner with sector stakeholders and water users - per water use type and group: strong sector orientation

KEY MILESTONES: IMPLEMENTATION: WAY FORWARD

ACTIVITY	TIME FRAME
Finalise consultations on Implementation Plans	Jan – March 2015
Launch the Consolidated Implementation Plan and associated Monitoring Framework	March 2015
Develop annual NWRS2 Implementation Progress Report	June 2015
Produce NWRS2 Mid-Term Review Report	Dec 2016
Prepare for review of NWRS2	June 2016
Finalise National Water and Sanitation Strategy 1	June 2018

CONSIDERATIONS FOR THE NEW DWS

- Focus for the next year will be on policy and law reforms to ensure full integration between water and sanitation
- The NWRS2 and the Strategic Framework for Water Services remain relevant and sections can be updated as needed
- DWS will indicate in the new Water and Sanitation Bill what will be required in terms of a strategy
- The trend is to develop 10 year plans/strategies



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Thank you

on behalf of:

M Ligthelm

Director: Strategy

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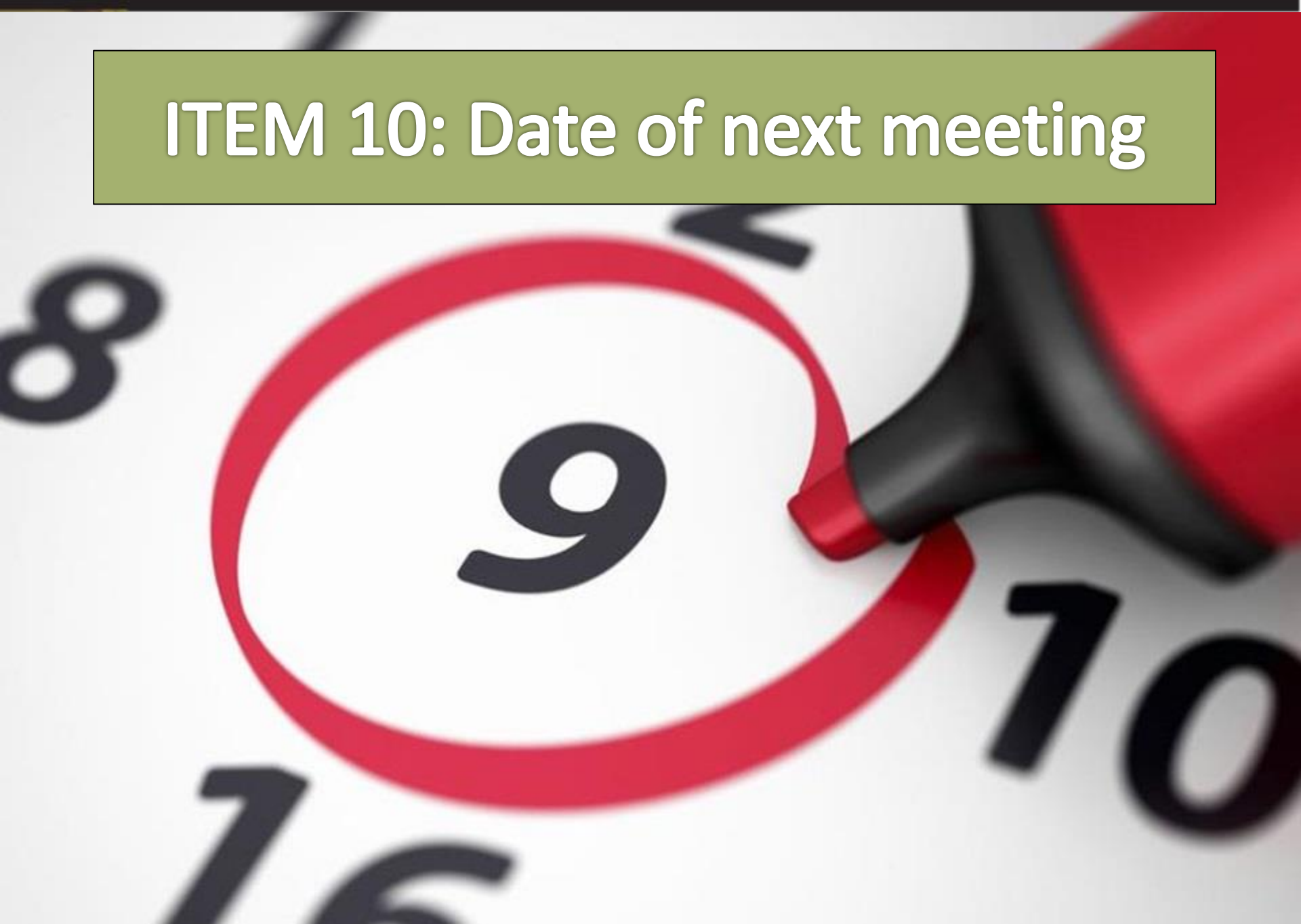
WAY FORWARD

- Key actions for TSG
- Actions for SSC
- Way forward
 - Compile proceedings and consider comments from the meeting
 - Workshops/meetings with specific stakeholders to discuss specific technical matters, if required
 - Continuation of the study

WAY FORWARD

- Compile proceedings and consider comments from the meeting
- Finalise SSC membership
- Workshops/meetings with specific stakeholders to discuss specific technical matters, if required
- Continuation of the study

ITEM 10: Date of next meeting



DATE OF NEXT MEETING

- **SSC NO. 8:**
 - 9 September 2015
 - Meetings every 6 months



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Thank you