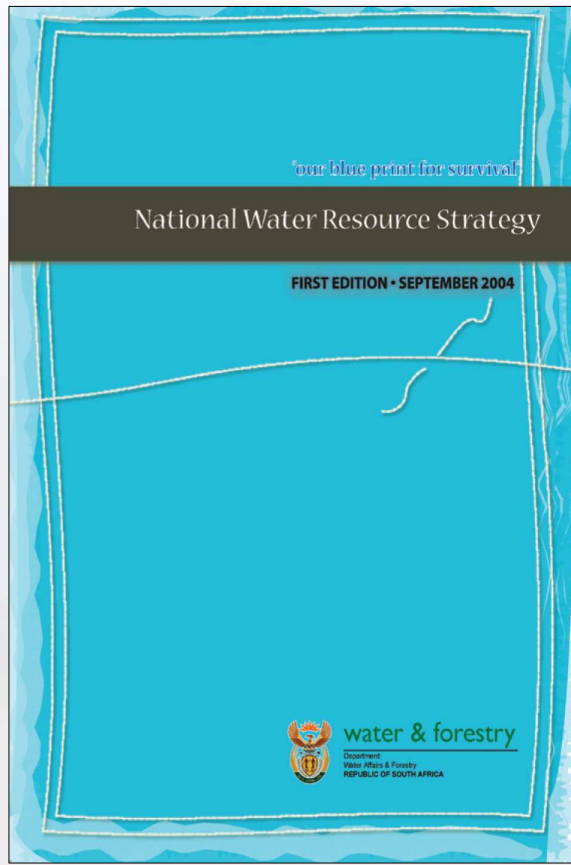




REVISION OF THE NATIONAL WATER RESOURCE STRATEGY

Water Sector Leadership Group Meeting on 14 November 2008 at Broederstroom

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Directorate: Policy and Strategy Co-ordination
Department of Water Affairs and Forestry
South Africa





CONTENTS

1. NWA requirements
2. Purpose of NWRS
3. Current NWRS
 - 3.1 Contents
 - 3.2 Drafting
 - 3.3 Implementation
 - 3.4 Problems and challenges
4. Revised NWRS
 - 4.1 Update, improve & expand on 1st Ed
 - 4.2 “Other/specific” issues
 - 4.3 WfGD?
 - 4.4 Timelines and drafting
5. Liaison with SAWS



1. NWA REQUIREMENTS

- Section 5(1)
 - Minister must establish by publishing in Government Gazette
- Section 5(3)
 - Water resources protected, used, developed, conserved, managed & controlled in accordance with
- Section 5(4)
 - NWRS reviewed at intervals of not more than 5 years
- Section 6(1)
 - NWRS Contents
 - “---strategies, objectives, plans, guidelines and procedures of the Minister---”



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2. PURPOSE OF THE NWRS

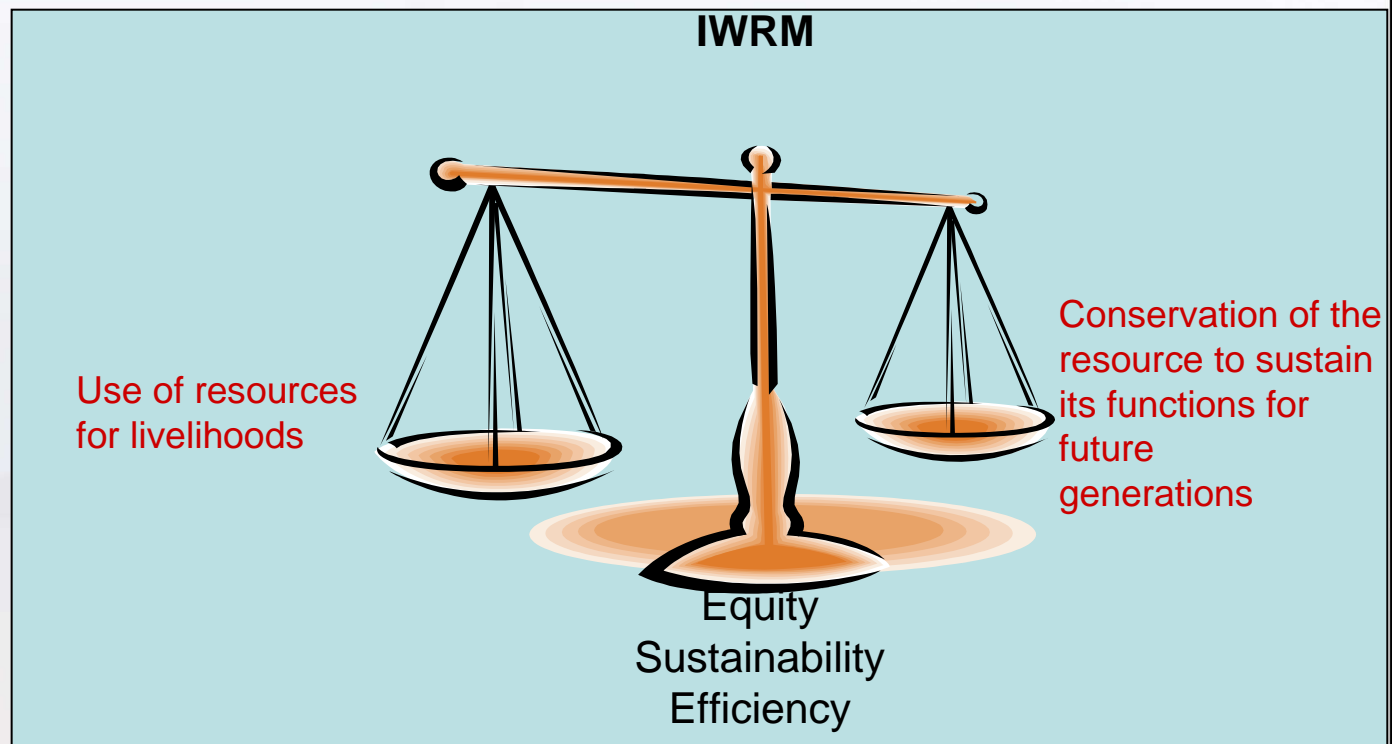
- National framework for managing water resources
- Framework for preparation of catchment management strategies
- Provision of information
- Identification of development opportunities and constraints



2. PURPOSE OF THE NWRS (CONT)

In summary,

- NWRS must be “Blue print” for WRM based on principles of IWRM





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3.1 CURRENT NWRS-CONTENTS

- **Ch 1- Introduction**

Explains the policy and legislation background and the concept of IWRM

- **Ch 2 - Water situation in SA** ▶

Weighs up water requirements and water availability for SA

- **Ch 3 - Strategies for WRM** ▶

Nine parts – Each of the first seven parts deals with an aspect of IWRM. The 8th part deals with implementation programmes and the 9th with financial implications.

- **Ch 4 - Complimentary strategies**

Addresses capacity building, awareness creation and water research.

- **Ch 5 - National planning and co-ordination, and international co-operation in water management**

Explains interfaces between NWA and other legislation and relationships between different institutions and collaboration requirements.



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3.2 CURRENT NWRS-DRAFTING (FORMULATION)

- Primary responsibility – DWAF Directorate PSC
- Each WRM Directorate in DWAF had to make inputs
- Synthesising of inputs was done by one person – Director of PSC
- Drafting team – did mainly reviews, editing and consideration of comments
- Professional service providers appointed for:
 - Chapter 2 – Reconciliation studies
 - Public participation process



3.2 CURRENT NWRS-DRAFTING (CONT) (PUBLIC CONSULTATION)

Expensive and cumbersome, but necessary (S 5(5)(b) of NWA)

- ❑ Advertising: 120 000 leaflets, letters to identified individuals and organisations, national and local newspapers, radio talks & TV shows.
- ❑ Stakeholder database: 8 400 individuals and organisations identified.
- ❑ A 59 page summary of the NWRS draft was published in the GG.
- ❑ The full text draft documents were made available at 64 public places countrywide as per S 5(5)(a) of the NWA.
- ❑ Public meetings:
 - Five nationally organised meetings in Pretoria/Johannesburg area
 - 24 Nationally organised meetings countrywide
 - 10 Capacity building workshops where regional staff were trained to hold further public meetings
 - >40 Public meetings held by Regional Offices
- ❑ >600 people commented on the draft. >2 300 comments received.
- ❑ Correct way would be to respond to each comment and provide reasons if comment was not accepted. This was found to be too time consuming for the available capacity.



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3.3 CURRENT NWRS-IMPLEMENTATION

- Contained in Ch 3.8 of the NWRS
- Three broad types of activities:
 - (i) Operational Activities
 - (ii) Activities relating to water sharing arrangements
 - (iii) Development of physical infrastructure
- Two groups of operational activities:
 - (i) Routine operational activities
 - (ii) Commissioning/establishment activities



3.3 CURRENT NWRS-IMPLEMENTATION (CONT)

(i) Operational activities

Routine operational activities

- Reconciling water requirements and water availability
- Planning/design of capital works
- O&M of bulk water schemes
- Control of water use
- Water conservation and demand management
- Setting tariffs and revenue collection
- Collection, storing, analysis and dissemination of water related info
- Dam safety control
- Control of invasive alien vegetation

Activities ongoing – no individual programmes

Commissioning activities

- Compulsory licensing
- Establishment of CMAs
- Transfer of O&M responsibility i.r.o. infrastructure to WMI
- Establishment of new WUAs
- Expansion of monitoring networks & information systems (and setting up new ones)
- Introduction of WRM charge
- Transformation of IBs into WUAs
- Streamlining licence application process

Indicative programmes shown in NWRS



3.3 CURRENT NWRS IMPLEMENTATION(CONT)

(ii) Programmes for international water-sharing agreements

The shared watercourses: ▶

Orange: South Africa, Botswana, Lesotho and Namibia

Limpopo: South Africa, Botswana, Mozambique and Zimbabwe

Inkomati: South Africa, Mozambique and Swaziland

Maputo: South Africa, Mozambique and Swaziland

Activities include establishment of international WMLs, signing of sharing agreements, joint studies, etc.



3.3 CURRENT NWRS IMPLEMENTATION(CONT)

(iii) Development of physical infrastructure

Indicative programme for:

- Schemes intended primary for irrigation purposes
- Schemes intended for domestic, urban, industrial or mining purposes

A 20 year planning horizon was generally used



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3.4 CURRENT NWRS PROBLEMS AND CHALLENGES

1. Commissioning activities took much longer than initially contemplated
2. New policy and water law introduced new concepts, e.g. compulsory licensing. Require new methodologies and guidelines
3. WAR slow
4. Lack of co-operative governance
5. Capacity building in the water sector inadequate
6. NWRS too bulky



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4.1 Revision: Update, improve & expand

4.1 Update

- Data in the current NWRS are as old as 1995
- Especially the reconciliation studies have to be updated with the information from the latest studies

4.2 Improve

- 1st Ed NWRS problems and challenges to be addressed
- Aim to base 5 yr snapshots on longer term perspectives

4.3 Expand

- Many vague area in 1st Ed NWRS, e.g. WC & DM, Groundwater,etc





4.2 Revision: “Other/specific” issues

4.2.1 IWRM

- Better convergence and synergy between WRM & WS

4.2.1 Climate change

- Largely addressed in sub-strategies
- Aim for overarching chapter to summarize all these thrusts

4.2.3 Water quality

- Largely addressed in sub-strategies
- Aim for overarching chapter to summarize all these thrusts

4.2.4 Water for Energy (Strategic use)

- Largely addressed in reconciliation studies – Regular liaison with Eskom
- Consider chapter to provide overarching view



4.3 Revision: WfGD?

- Studies over past year revealed numerous serious constraints in the Water Sector
- These studies created buy-in throughout SAWS
- Many of these issues will be addressed in the sub-strategies of the 2nd Ed NWRS
- Is a specific chapter for WfGD required, seeing that the 2nd Ed NWRS is actually “NWRS for Growth & Development”?



4.4 Revision: TIME LINES & DRAFTING

4.4.1 Timelines

- 1st Ed NWRS established by Minister in GG on 28th January 2005
- Cab approved during September 2004
- Aim for Final Draft 2nd Ed NWRS by January 2010
- Target is to have First Draft NWRS finished by May 2009
- Publish summary of First Draft during July 2009 for public comments



4.4 Revision: TIME LINES & DRAFTING (CONT)

4.4.2 Drafting

- Sub-strategies owned and drafted by line-function owners in DWAF
- Synthesizing by Directorate: WRM P&R (previously PSC)
- Substantial support required from SAWS for overall process
- Project management by Directorate: WRM P&R supported by SAWS support
- Overall oversight by Steering Committee, chaired by DG or DDG: P&R



5. LIAISON WITH SAWS

Substantial support is required from SAWS and at least the following is recommended:

1. Specific contributions towards the spectrum of sub-strategies – largely by specialists, either on contract or as a donation
2. The Sector could contribute by serving on the management platforms of the Revision Project
3. Regular reporting to the WSLG and relevant Task Teams could substantially contribute towards developing pragmatic strategies



THANK YOU

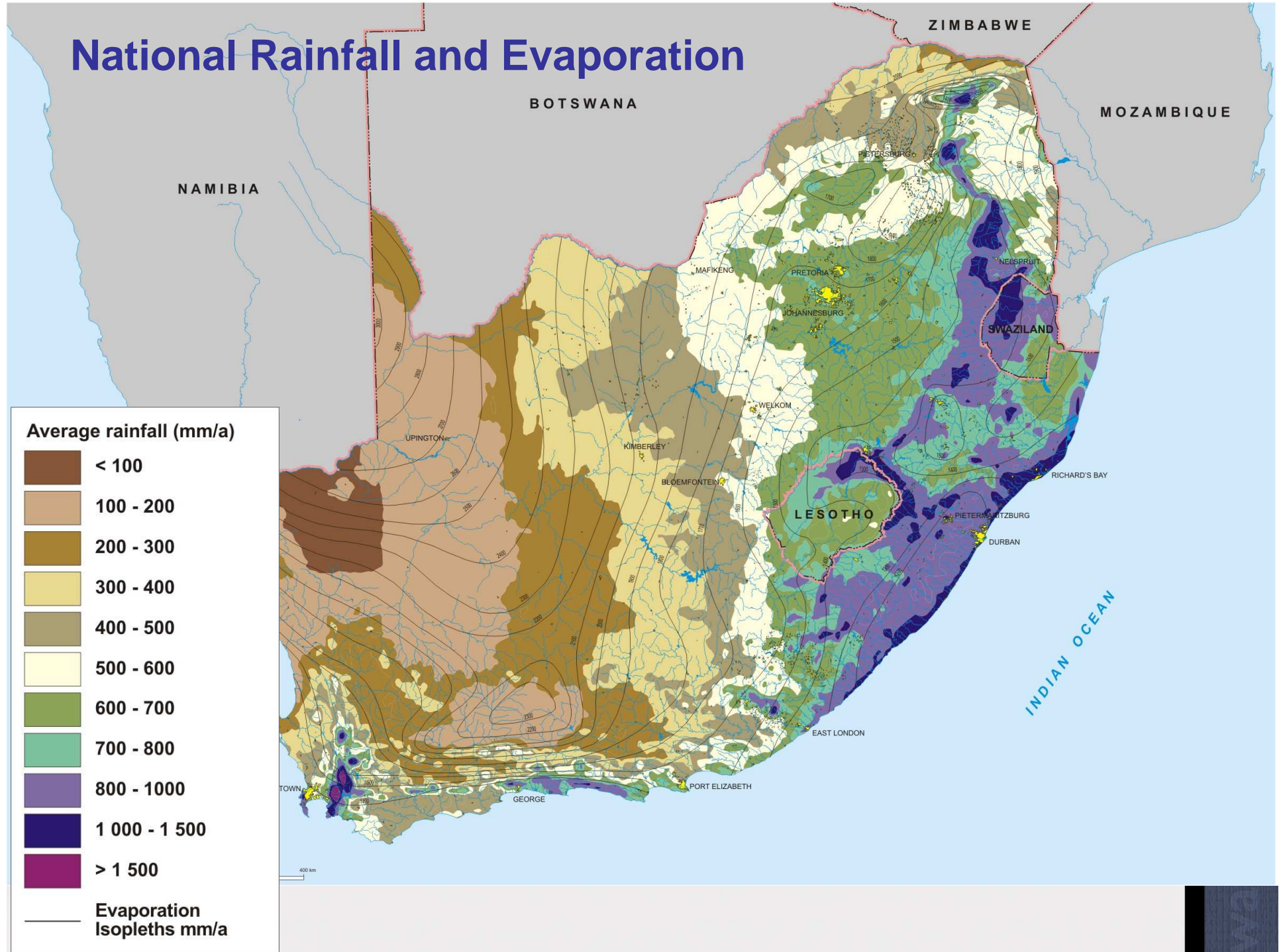


DIMENSIONS OF IWRM

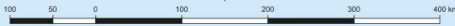
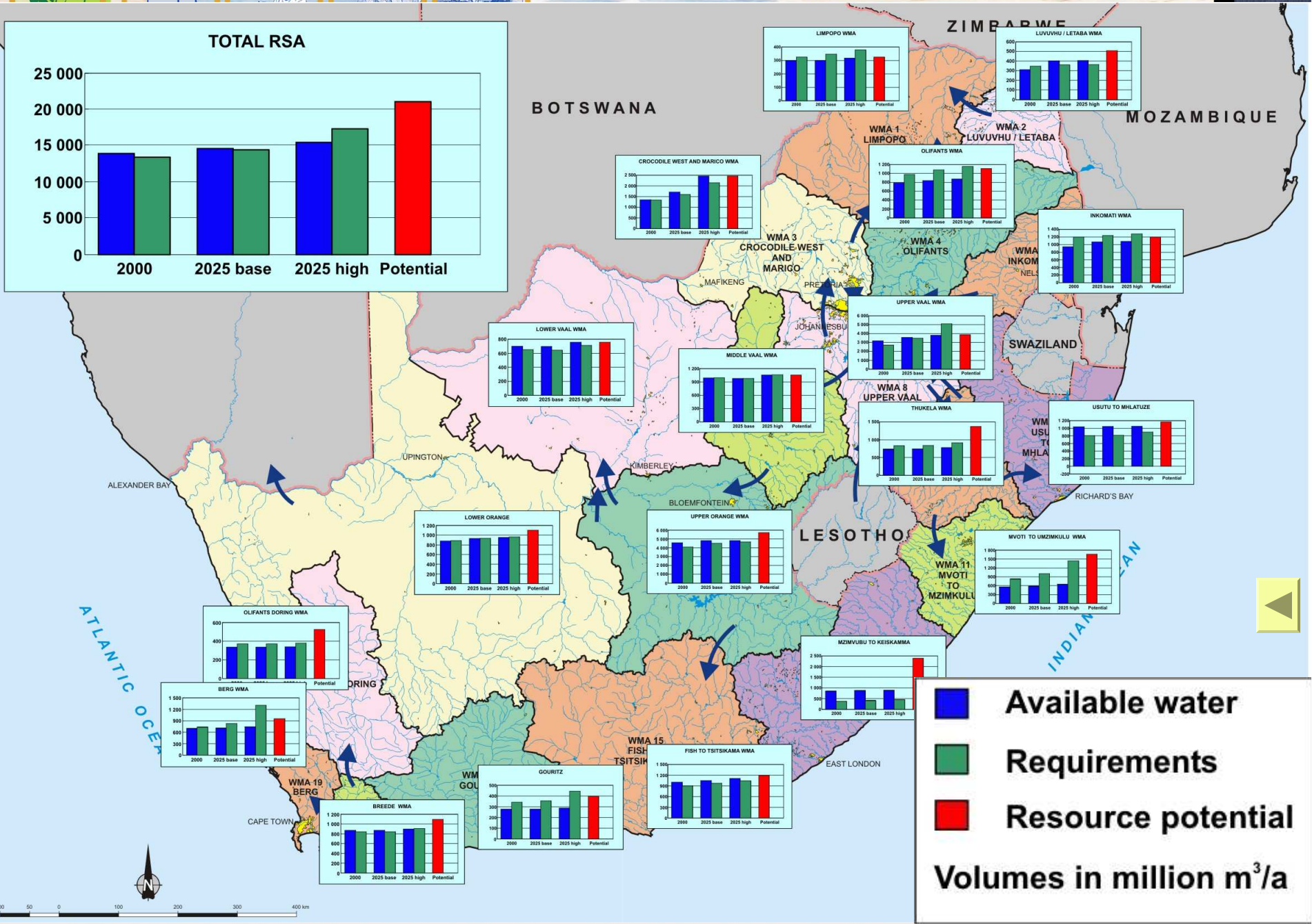
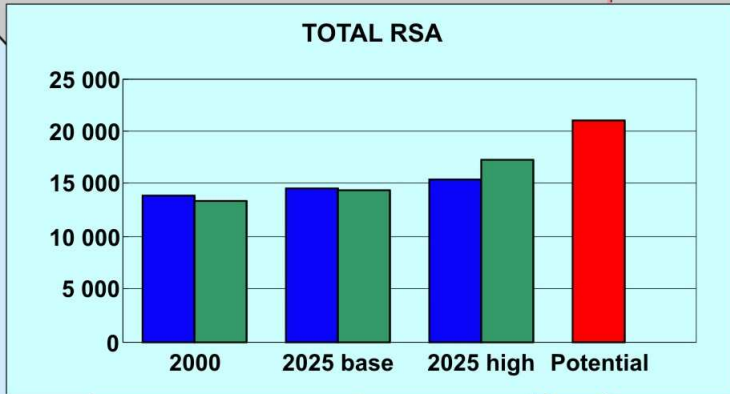
- Water is an integrated system
 - surface water and groundwater,
 - quality and quantity
 - all water is linked to the hydrological cycle
- There are interactions with other systems
 - human activities such as land use
 - natural environment
- Water needs to be managed in full understanding of its importance for social and economic development
- International dimensions – at least 40% of SA's total runoff is shared with neighbouring countries



National Rainfall and Evaporation



The future: Water reconciliation scenarios





STRATEGIES FOR WATER RESOURCE MANAGEMENT

- Part 1: Protection of Water Resources
- Part 2: Water Use
- Part 3: Water Conservation and Water Demand Management
- Part 4: Water Pricing and Financial Assistance
- Part 5: Water Management Institutions
- Part 6: Monitoring and Information Systems
- Part 7: Disaster Management
- Part 8: Anticipated Programme of Implementation Activities
- Part 9: Financial Implications





INTERNATIONAL RIVERS SHARED BY SOUTH AFRICA





PROVISIONAL TABLE OF CONTENTS FOR THE 2ND EDITION NWRS

1. VISION AND STRATEGIC INTENT

2. LOOKING BACK TO LOOK FORWARD

3. RECONCILIATION CHAPTER



PROVISIONAL TABLE OF CONTENTS FOR THE 2ND EDITION NWRS (CONT)

4. WATER MANAGEMENT STRATEGIES

4.1 Water Allocation and use

4.2 Groundwater

4.3 Augmentation and infrastructure

4.3.1 Water conservation & demand man

4.3.2 Infrastructure

4.3.3 Working for Water

4.4 Resource protection

4.5 Water quality

4.6 Disaster Management



PROVISIONAL TABLE OF CONTENTS FOR THE 2ND EDITION NWRS (CONT)

5. ENABLING STRATEGIES

5.1 Institutional arrangements

5.2 Investing in people

5.2.1 Participation

5.2.2 Human resources development

5.2.3 Stakeholder empowerment

5.3 Finance

5.3.1 Review of pricing strategy

5.3.2 Financing implementation of NWRS

5.4 Information and monitoring

5.5 Research

5.6 Implementation Plan

