



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



National Water Resource Strategy (NWRS) Implementation

Ecological Infrastructure /Catchment Partnership Learning Exchange

Chief Directorate: Water Policy
Directorate: Strategy
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26 August 2015

Presentation Outline

- Introduction
- NWRS2
 - Overview of NWRS2
 - Implementation Approach
 - Proposed role of WSSLG
- NWRS2 Implementation plan
- Way forward

Introduction to NWRS2

- **Legislative requirement:** National Water Act requires NWRS to be regularly reviewed/updated
- Process of developing NWRS2
 - Legislative process through stakeholder **consultation**
 - Strategy redrafted to take into consideration comments, and alignment with Government objectives, existing frame works and NDP
- The redrafting of the NWRS2 was finalised **in June 2013**
- **Policy issues, policy position drafted**, consultation with water users, Cabinet approved in December 2013.
- Involvement of DWS Chapter Leaders in drafting and implementation of NWRS2
- Implementation:
 - Sector approach
 - DWS Sector Leaders
 - Usage of WSSLG as a platform
 - Success of skills Task Team in drafting implementation plan for chapter 15

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
- Water scarcity threatens energy production, food security, economic growth & quality of life
- This strategy addresses current & future water demands for 2030 vision and simultaneously ensure the sustainability of our water resource

PRINCIPLES AND APPROACH TO NWRS2 IMPLEMENTATION

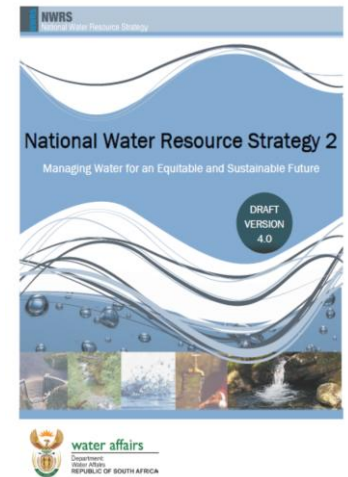
- **Participatory approach** with emphasis on citizens' participation and implementation commitment by all water users and sector stakeholders
- **Partnerships** with private sector and civil society (the success of the NWRS2 is dependent on all stakeholders not just the public sector)
- **Good governance** 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 operationalize the Strategy**
 - Developed in collaborative manner with sector stakeholders and water users - per water use type and group: strong sector orientation

NATIONAL WATER RESOURCE STRATEGY 2

Alignment with National Development Plan *“Equity, Growth and Development”*

NWRS2 Strategic objectives are now aligned to National Water Act **and** NDP, ensuring that:

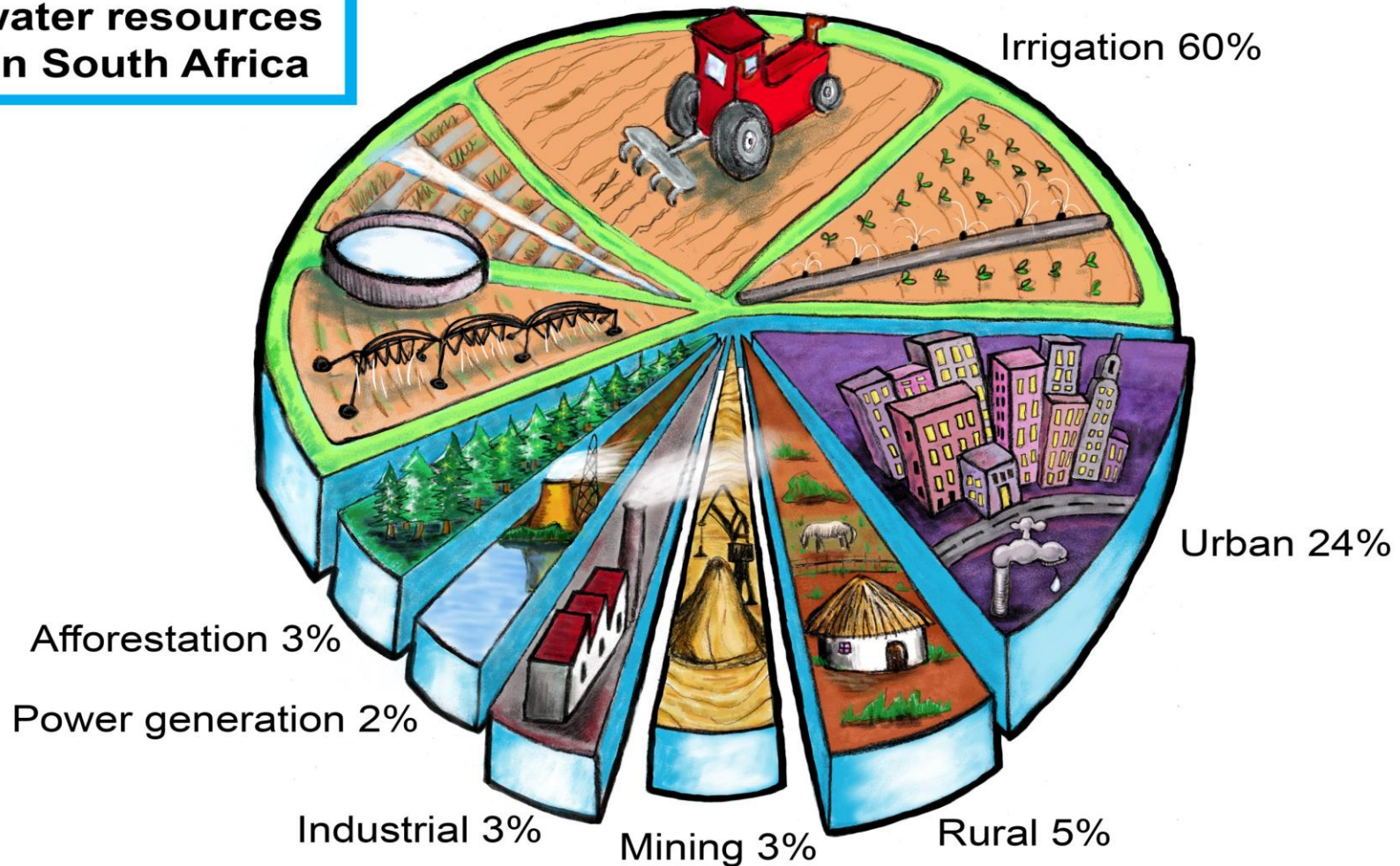
- **Water** supports development and elimination of poverty and inequality
- **Water** contributes to the economy and job creation
- **Water** is protected, used, developed, conserved & managed
- **Water** is controlled sustainably and equitably



- Create jobs and livelihoods
- Expand infrastructure
- Transition to a low carbon economy
- Transform urban and rural spaces
- Improve education and training
- Provide quality health care
- Build a capable state
- Fight corruption and enhance accountability
- Transform and unite society

Existing water use

How we use our
water resources
in South Africa

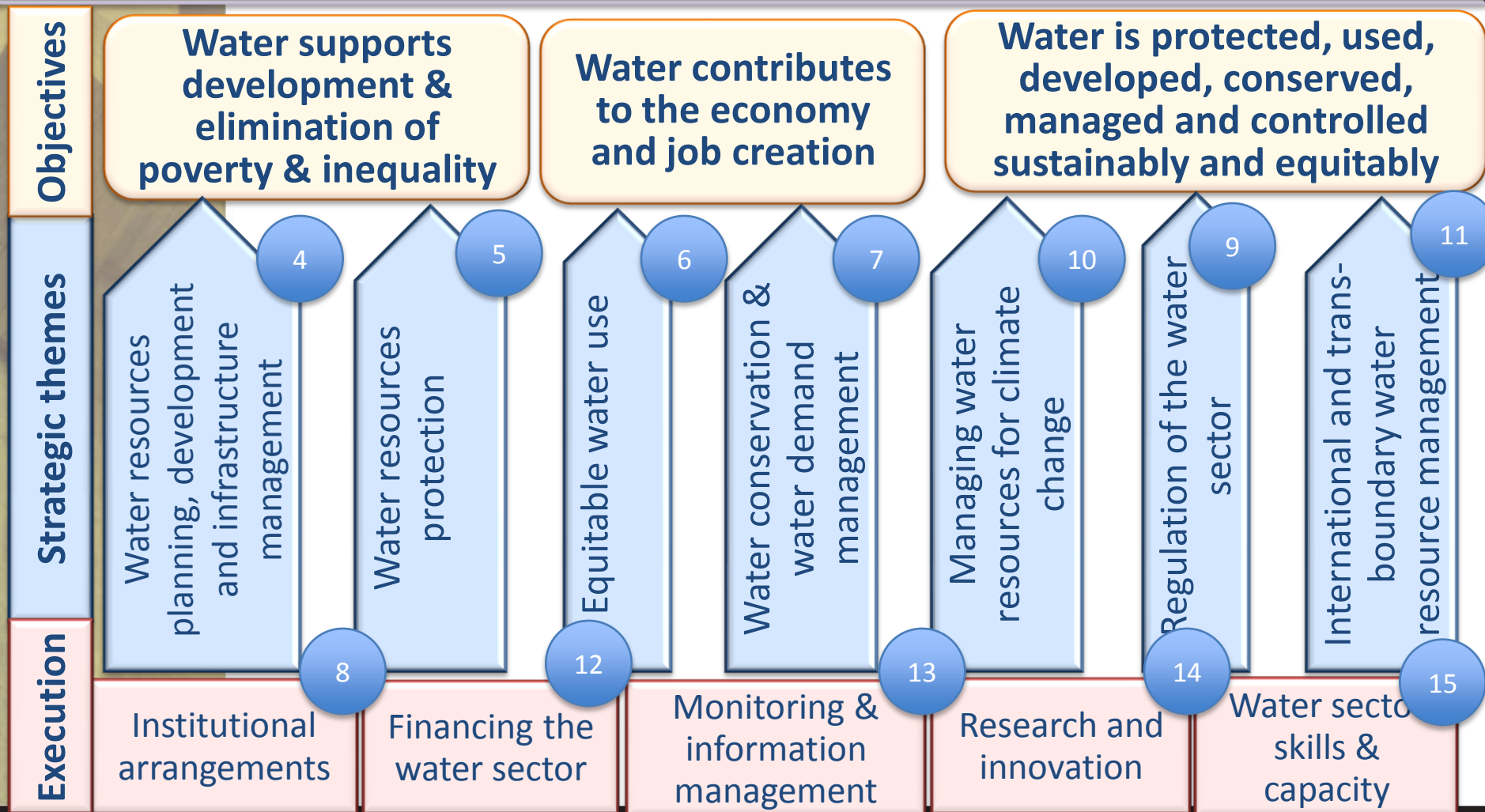


Vision of NWRS2

Sustainable, equitable and secure water for a better life and environment for all

Goal

Water is efficiently and effectively managed for equitable and sustainable growth and development



NWRS2 Priority focus area

Planning, infrastructure
development and O&M

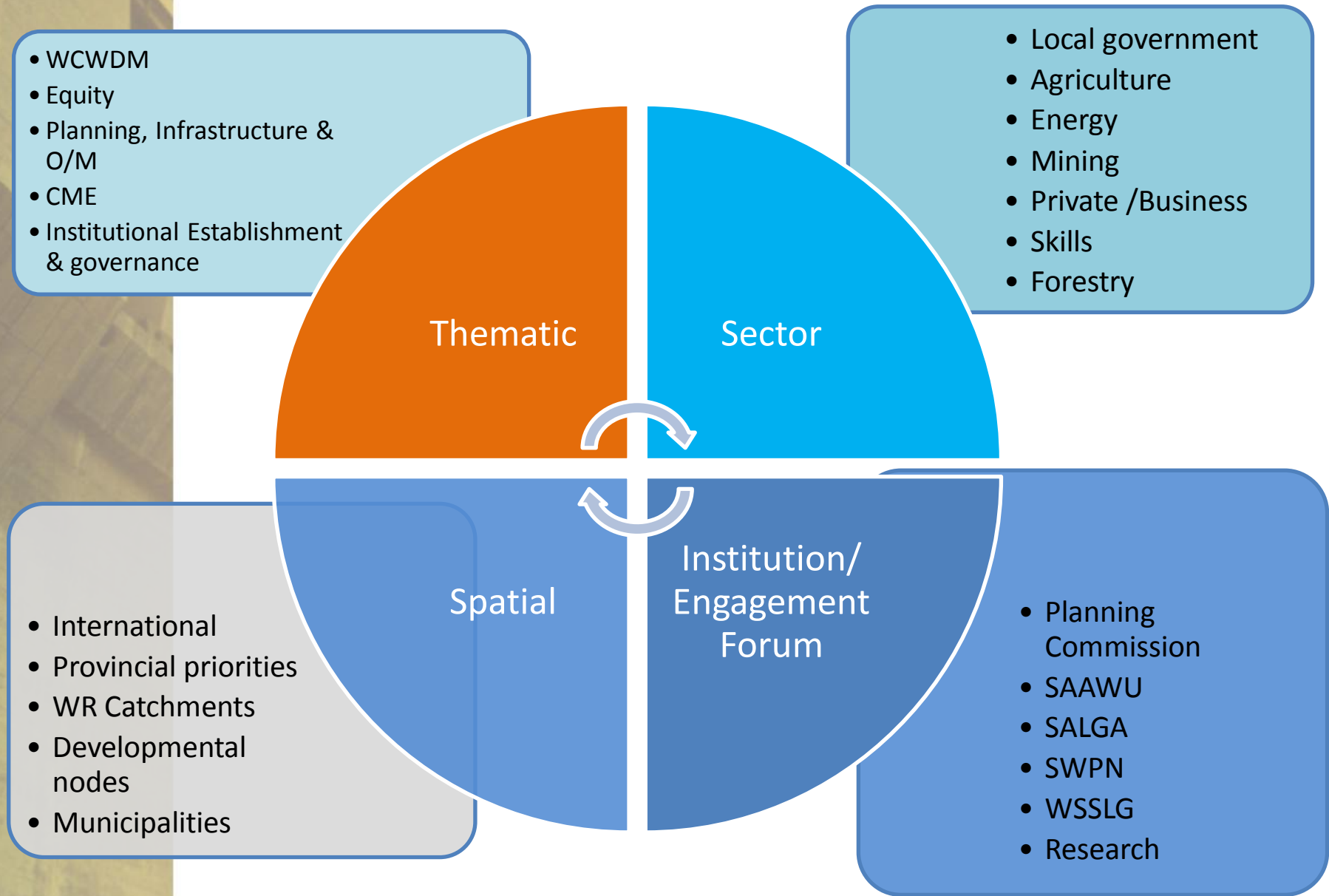
Water Conservation and
Demand management

Achieving Equity and
Water Allocation Reform

Institutional establishment
and governance

Compliance monitoring
and enforcement

Categorisation & interface



IMPLEMENTATION ROLL-OUT: PROGRESS

NO	ACTIVITY	TIME FRAME
1	DG approval of Implementation approach	18 Dec 2013
2	National capacitation workshop: DWS National & Provincial offices, Water Boards and WRC	19 & 20 Feb 2014
3	Preliminary and ongoing sessions: organised representatives of the different sectors	March 2014–March 2015
4	National Interdepartmental workshop	10 April 2014
5	Capacitation of 9 DWS Provincial Offices	Aug 2014
6	Sector workshops to develop draft Sector Implementation Plans	Sept 2014
7	Draft sector implementation plans produced	Oct 2014
8	Provincial multi-sectoral workshops	Oct, Nov 2014
9	Finalisation of comprehensive Comments Registers including proposed Indicators for inclusion in Implementation Plans	Dec 2014
10	Draft additional plans	Jan–March 2015
11	Finalise consultations on Implementation Plans	Jan–March 2015
12	Finalise the Consolidated Implementation Plan and associated Monitoring Framework	March 2015

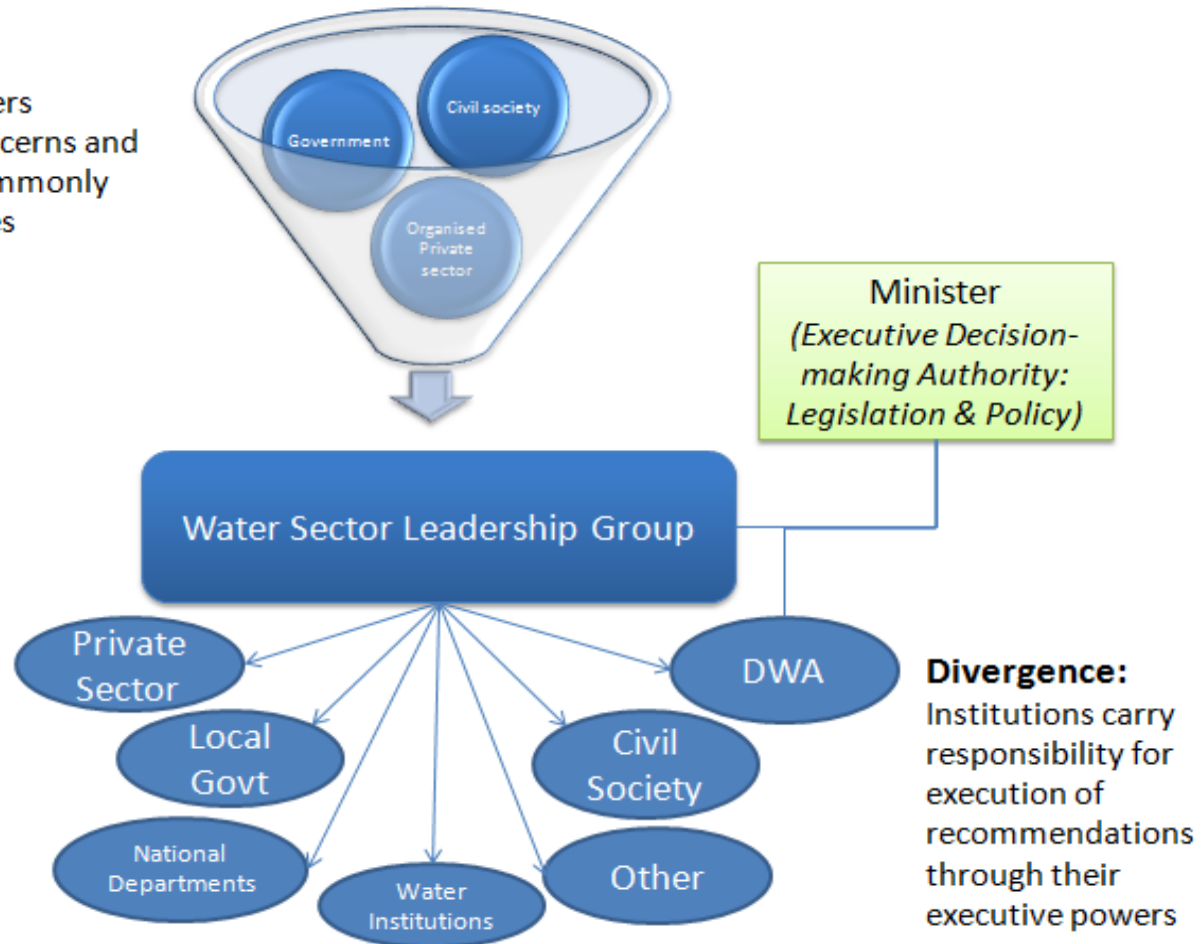
CONSULTATION MEETINGS

- **Agriculture:** meetings with Agricultural Sector Unity Forum (ASUF); AgriSA; Agbiz
- **Energy:** meetings with Eskom, Energy Intensive User Group, EIUG; SAREC; Independent Power Producers (IPP) Office
- **Mining:** meetings with Chamber of Mines (CoM)
- **Private/Business:** meetings/conference calls with Strategic Partnership Network, SWPN; Energy Intensive User Group (EIUG); Business Unity SA (BUSA); Black Business Council (BBC)
- **Local government:** meetings/brainstorming with SALGA
- **Government:** Intergovernmental Workshop; DoE; DoA
- **Other:** Civil Society Organisations (CSO); World Wildlife Forum (WWF), CSIR, WRC
- **All sectors:** Lower Orange River Forum (LORF); Olifants River Forum; World Wildlife Forum
- **Capacitation workshops:** held nationally and in 9 Provincial offices
- **Sector meetings:** Mining (combined with private); Private (combined with mining); Energy; Skills Task Team
- **Provincial Multi-Sectoral Provincial Workshops**

Sector Collaboration through WSSLG

Convergence:

Various stakeholders converge their concerns and ideas based on commonly shared water issues





NWRS2 IMPLEMENTATION PLANS

Progress in the drafting of NWRS Sector Implementation Plans

- **Sector Implementation Plans**
 - Energy
 - Local government
 - Business and Mining
 - Agriculture
 - Forestry
- **Thematic Implementation Plans**
 - Water Resource Protection
 - Skills
 - Research & Innovation
- **DWS Chapters Implementation Plans**

Private sector /Business & Mining

- 1. Infrastructure development, planning & O/M** - a) Engage in Water for urban development; Water re-use; AMD: b) Explore potential for PPP arrangements in water supply, WTW and WWTW operation and maintenance
- 2. Equitable water allocation** - a) Raise water allocation reform profile through approved WAR plans; b) Ensure that all stakeholders understand and support the approach;
- 3. Water conservation and demand management** - a) Practical interventions by all sectors: Support municipalities in maintain and operating water systems; b) Introduce metering for all water consumption starting with larger volumes;
- 4. Institutional establishment and governance** a) Participate in establishment of and support in operations of CMAs and Regional Water Utilities; Support CMA's in water management;
- 5. Compliance Monitoring & Enforcement** - a) Support & comply to licensing regime; b) Engage on Amendment of National Water Act , Water Regulatory Framework and Economic regulation; c) Explore the potential for water offsetting.

Local Government

1. **Planning, Infrastructure development and O&M** a) Align both developmental and infrastructure plans to achieve greater efficiency and integration within all planning frameworks – reconciliation strategies, Master Plans & WSDP b) All WSAs develop and update water infrastructure asset management plans preferably GIS based on an annual basis
2. **WCWDM** a) IWA water balance and strategy to address WCWDM (No Drop) b) All water use license application includes a WCWDM plan c) Set targets for water loss reduction
3. **Institutional establishment** a) LG support the establishment of CMA's and participate within the catchment management forums for improved governance and management of water resources within specific area of jurisdiction. b) Support RWU regional plans to achieve greater efficiency in the management of regional schemes
4. **Compliance Monitoring & Enforcement** a) Comply to the Blue, Green and No Drop system b) Municipalities comply and adhere to licence conditions for water use
5. **Achieving equity including water allocation reform** a) Provide water for multiple use e.g. stock watering, economic activities and development etc.

Agriculture

1. **Planning, development & O/M** - a) Evaluate current and future agricultural water needs and ensure existing allocation to agriculture are maximised in the context of associated impacts on food security and growth and development; b) Ensure integrated planning and co-ordination of irrigation infrastructures rehabilitation
2. **WCWDM** – a) Implement water allocation and water use authorisation that entrenches WCWDM; b) Ensure water loss interventions planned & implemented; Conduct WCWDM education & awareness campaigns
3. **Equitable water allocation** - a) Promote joint planning by DWS, DAFF and DRDLR through agreed structure/s to match available water with available land for possible expansion of and/or developing of new irrigation schemes, through WAR & align with other government programmes; b) Accelerate Implementation of WAR profile
4. **Institutional Establishment** – a) Support the establishment of CMAs and Local Water Management Entities;
5. **Compliance Monitoring & Enforcement** - a) Improve regulation on irrigation and support equitable and effective water use authorisation; b) Ensure timeous and appropriate response to DWS directives on illegal water use

Energy

- 1. Infrastructure Development, planning & O/M** – a) Support development & maintenance of Recon Strategies for balancing water availability in water-scarce catchments; b) Support Hydro-electricity generation commissioned investigation of the prospects for retrofitting hydroelectric generation equipment at the existing DWS dams with hydroelectric power potential
- 2. WCWDM** – a) Implement water allocation and water use authorisation that entrenches WCWDM b) Monitor set water use performance targets for all the power stations
- 3. Equitable water allocation** – a) Formalising and accelerating implementation (WAR)
- 4. Institutional Establishment** – a) Support establishment of water management institutions and support in consolidating capacity their capacity b) Support to water service provision function and enhance capacity of Municipalities to deliver water services.
- 5. Compliance monitoring and enforcement** – a) Ensure that all Eskom power stations and linear projects have water use licence b) Monitor, track and report on the water use licence progress for all the Eskom's water use licences

Forestry

1. **Infrastructure Development, Planning & O/M** – a) Ensure participation of DAFF: South Africa in DWS Reconciliation Studies in relevant catchments in order to understand the situation regarding water availability and implement relevant interventions
2. **WCWDM** – a) Promote clearing of riparian areas, wetlands and required buffers of SFRA species. b) Revision of the Forestry South Africa Environmental Guidelines for Commercial Afforestation in South Africa as an awareness raising tool and promotion of best management practices
3. **Equitable water allocation** – a) Support the implementation of WAR
4. **Institutional Establishment** - a) Support and participate in the lawful establishment water management institutions (CMA's, RWU, Infrastructure Agency, Local Water management) b) Support initiatives to provide consolidated capacity to water management institutions
5. **Compliance Monitoring & Enforcement** – a) Promote and comply with conditions attached to water use authorisations

Skills

- Establishment of a coordinated skills planning, funding and monitoring mechanism
- Develop a well structured skills development and capacity building programme incorporating experiential knowledge
- Strengthening linkages between education and training institutions and places of work
- Promote Intergovernmental relations, sector collaboration and partnerships
- Agreement reached on specific interventions to made by the private sector in terms of skills development
- Conduct Public awareness and water literacy campaigns

WATER RESOURCE PROTECTION

- **Manage for sustainability using Resource Directed Measures:**
 - Set and approve a management class, and associated Reserve and resource quality objectives (RQOs) for every significant water resource in the country
- **Invest in strategic water resource areas:**
 - Explore the Environments categories of protected area under National Environmental Management Protected Areas Act (NEMPAA) as an option to improve the protection of water resources in Strategic Water Source Areas, and apply it where appropriate
- **Strategic investment in the maintenance & rehabilitation of water ecosystems:**
 - Revise Water Pricing to provide for allocation of funds towards maintenance and rehabilitation of key identified water ecosystems
- **Maintain freshwater ecosystem priority areas in good condition:**
 - Consider all Freshwater Ecosystem Priority Areas, in the determination and implementation of Resource Directed Measures & in conjunction with DEA, expand the protected area network to incorporate FEPAs where possible and appropriate

(Cont..)WATER RESOURCE PROTECTION

- **Protect riparian and wetland buffers and critical groundwater recharge areas:**
 - Establish ground water protection zones and together with DEA & its provincial counterparts prevent further loss of land cover in the buffer areas
- **Rehabilitate strategic water ecosystems to support water quality and water quantity:**
 - Identify priority degraded water ecosystems, the rehabilitation of which is necessary to achieve Resource Quality Objectives, and identify appropriate funding and implementation mechanisms for rehabilitating these sites
 - Engage with the Natural Resource Management programmes of DEA and other relevant initiatives to influence prioritisation of sites for rehabilitation
- **Minimisation of pollution from wastewater treatment works:**
 - Ensure implementation of wastewater risk abatement plans.
 - Ensure Green Drop certification, across all municipal and private wastewater treatment works

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
- The Department will indicate in the comprehensive Water and Sanitation Policy review and associated Water and Sanitation Bill what will be required in terms of a strategy
- The trend is to develop 10 year plans/strategies

Way forward on NWRS2 implementation

ACTIVITY	TIME FRAME
Finalise consultations on Implementation Plans	Jan – March 2015
Refine Consolidated Implementation Plan and associated Monitoring Framework	June 2015
Monitor NWRS2 Implementation Progress: Annual Report 1	June 2015
Prepare and review NWRS	June 2016
Produce NWRS2 Mid-Term Review Report	Dec 2016
Finalise National Water and Sanitation Strategy 1	June 2018



Thank you