

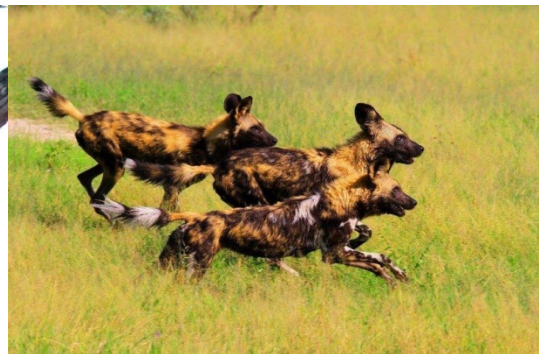


**NATURAL CAPITAL ACCOUNTING IN BOTSWANA**  
**PRESENTED BY: BOTSWANA**  
**Date: JUNE 2016**



# PRESENTATION OUTLINE

- **NCA Policy Priorities BOTSWANA**
- **Botswana Institutional Arrangement**
- **Overall NCA progress summary**
- **Roadmap towards prioritizing Water Accounts**
- **Summary progress: Water Accounts**
- **Some findings/results from the Water Accounts**
- **Usage/benefits from the Water Accounts**
- **Conclusion**





# NCA POLICY PRIORITIES IN BOTSWANA

- **Water Accounts:** water scarcity, to better assess the availability, uses, and economic contribution of water.
- **Tourism Component of Land and Ecosystem Accounts:** To inform the management of ecotourism and land use in four key ecosystems: Okavango, Chobe, Makgadikgadi Pans, and Central Kalahari.
- **Mineral Accounts:** Mineral led economy, to help ensure appropriate decisions are made regarding the investment of mineral revenues to provide for future economic growth.
- **Energy Accounts:** To determine the optimal energy mix for the future and examine the role of Botswana's coal in a green economy.
- **Macroeconomic Indicators of Sustainable Development:** To develop indicators like adjusted net national income, adjusted savings, and national wealth accounts to assess the prospects for long-term, sustainable growth.



# BOTSWANA INSTITUTIONAL ARRANGEMENT FOR NCA

- Coordination by NCA Unit in the Ministry of Finance and Development Planning
- Implementation of NCA activities is carried out at sectoral level by the Ministries of;
  - Minerals, Energy and Water Resources,
  - Environment, Wildlife and Tourism
- These Ministries are responsible for compiling natural capital accounts for water; minerals; energy; tourism and Macroeconomic Indicators of Sustainable Development.
- NCA Units in all implementing sectors - responsible for the actual development of the accounts.
- multi- sectoral Technical Working Groups (TWGs) - assist in timely supply of relevant data and provide technical input in the analysis of the results generated by various component accounts.

# UPDATE ON NCA IN BOTSWANA

## 1. Water Accounts: (DWA, MMEWR)

- Produced three technical Water Accounts Report from 2010/11-2014/15
- Produced four policy briefs- water accounts results; water & agriculture; water & mining and water & irrigation

## 2. Energy Accounts: (DoE, MMEWR)

- Compiling Energy Accounts for 2010-2015; Priority given to electricity and coal
- Currently collecting data on liquid fuels from 2010-2015

## 3. Mineral Accounts (DGS, MMEWR)

- Produced Mineral Accounts for 2014 (Diamonds, Copper, Gold, Soda Ash, Coal)

## 4. Tourism Accounts (DoT, MEWT)

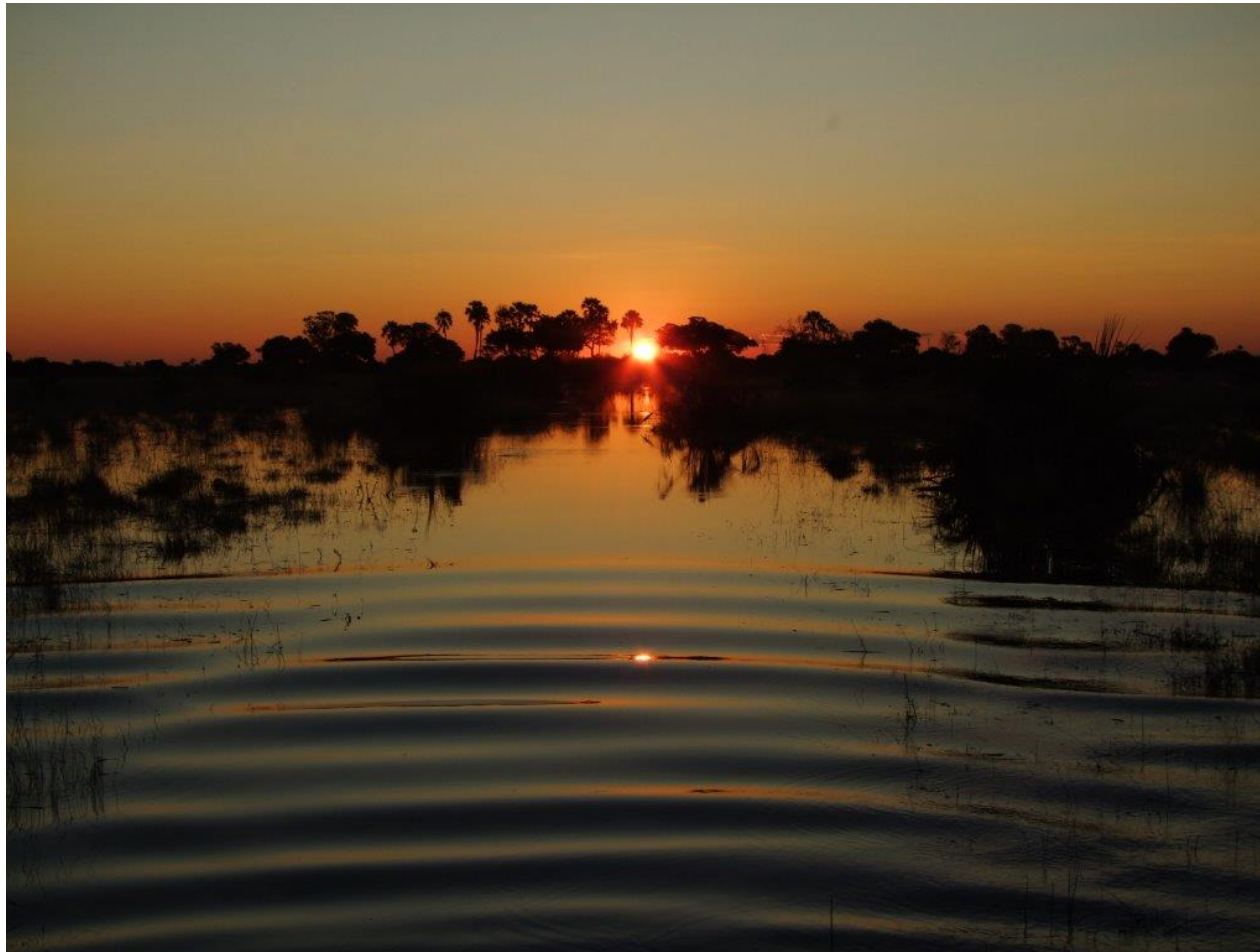
- Ecosystem Scoping exercise was undertaken in July 2014; Accounts for major ecosystems (Okavango, Chobe and Makgadikgadi); Issues: land management/competing land uses, climate change, biodiversity management,
- MEWT prioritised tourism because of its contribution to GDP and potential to assist in economic diversification
- Data assessment to inform tourism accounting and issues for tourism policy on-going

## 5. Macroeconomic Indicators of Sustainable Development

- Training on development of Macroeconomic Indicators on-going



# BOTSWANA WATER ACCOUNTS



# ROAD MAP TOWARDS PRIORITIZING WATER ACCOUNTS

- **May 2012: the Botswana Economic Advisory Council (BEAC) prioritized the up-dating and elaboration of water accounts**
  - The country was experiencing serious water shortage due to low rainfalls and complex distribution of water after the water sector reforms
- **DWA with technical assistance started the WAVES Water Accounting Project:**
  - **Phase 1** (September – November 2012): preliminary account construction and analysis;
  - **Phase 2** (December 2012 – June 2013): elaboration of the water accounts and institutionalization of water accounts at DWA,
  - **Phase 3:** (July 2013 – June 2016): up-dating, expansion of water accounts and integration of results into National Development Plan (NDP) 11.

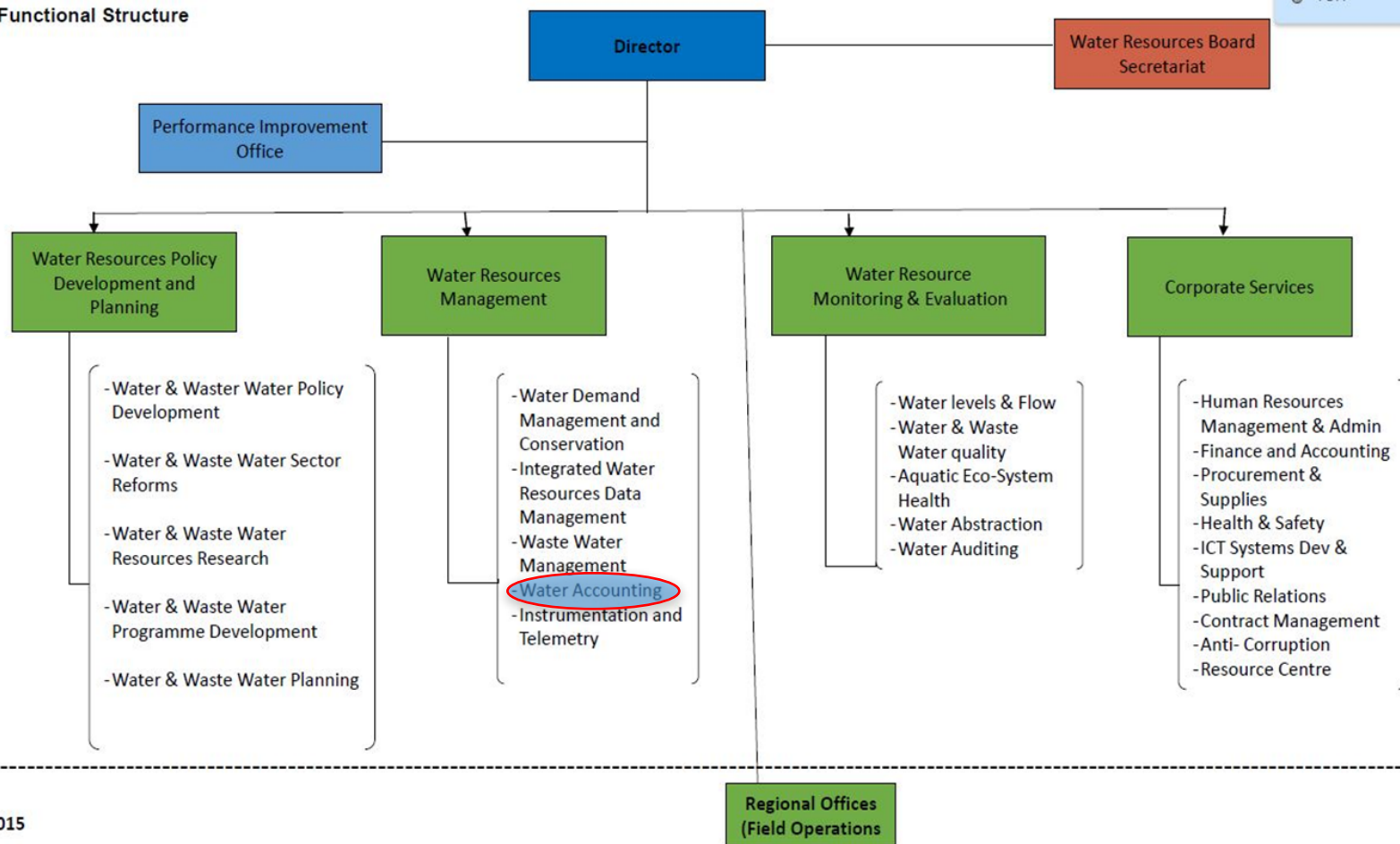


# PROGRESS SUMMARY: WATER ACCOUNTS

## DWA FUNCTIONAL STRUCTURE

Republic of Botswana  
Department of Water Affairs  
Approved Functional Structure

Appendix III  
Click on Tools to com  
PDF.



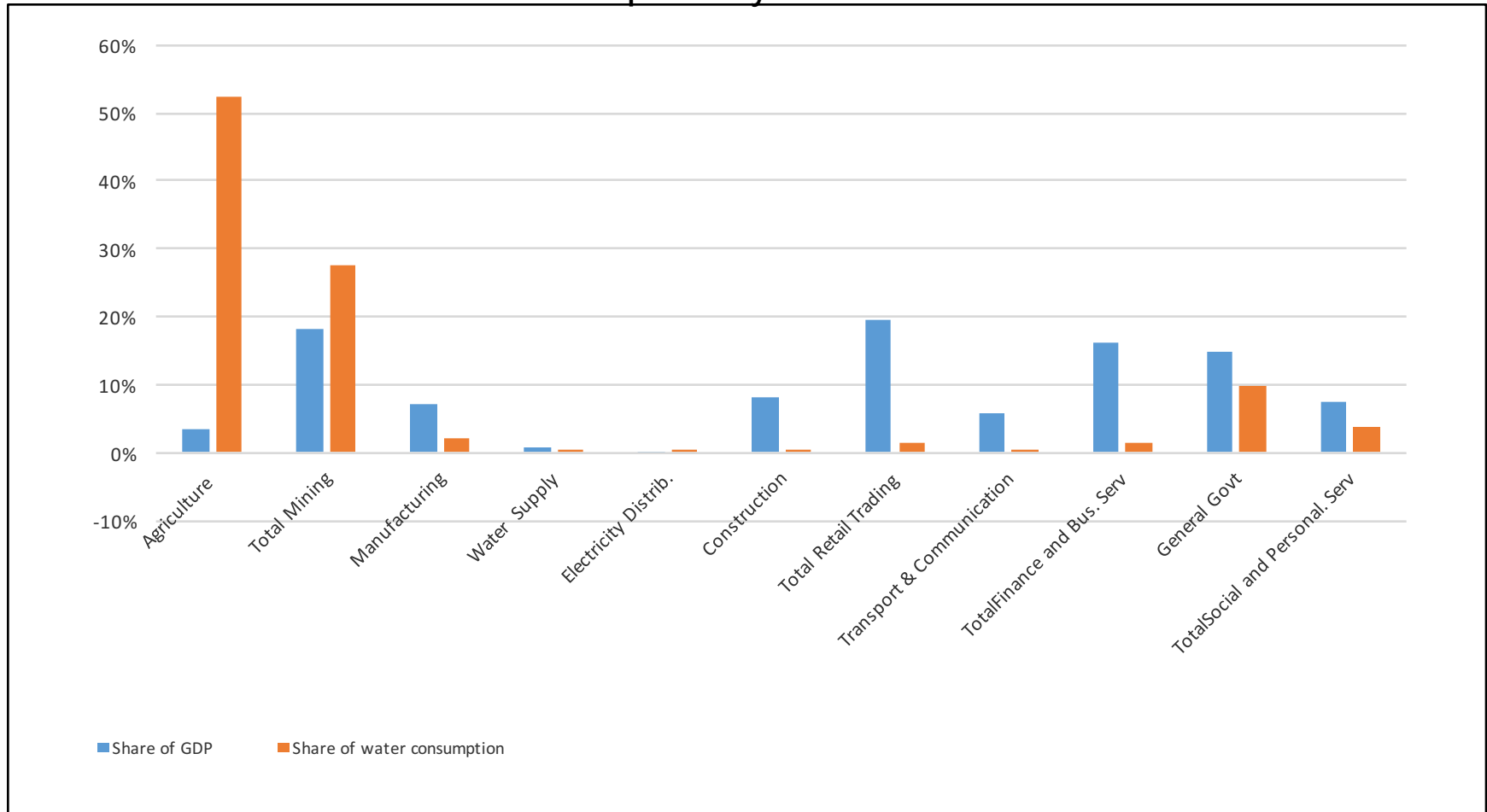
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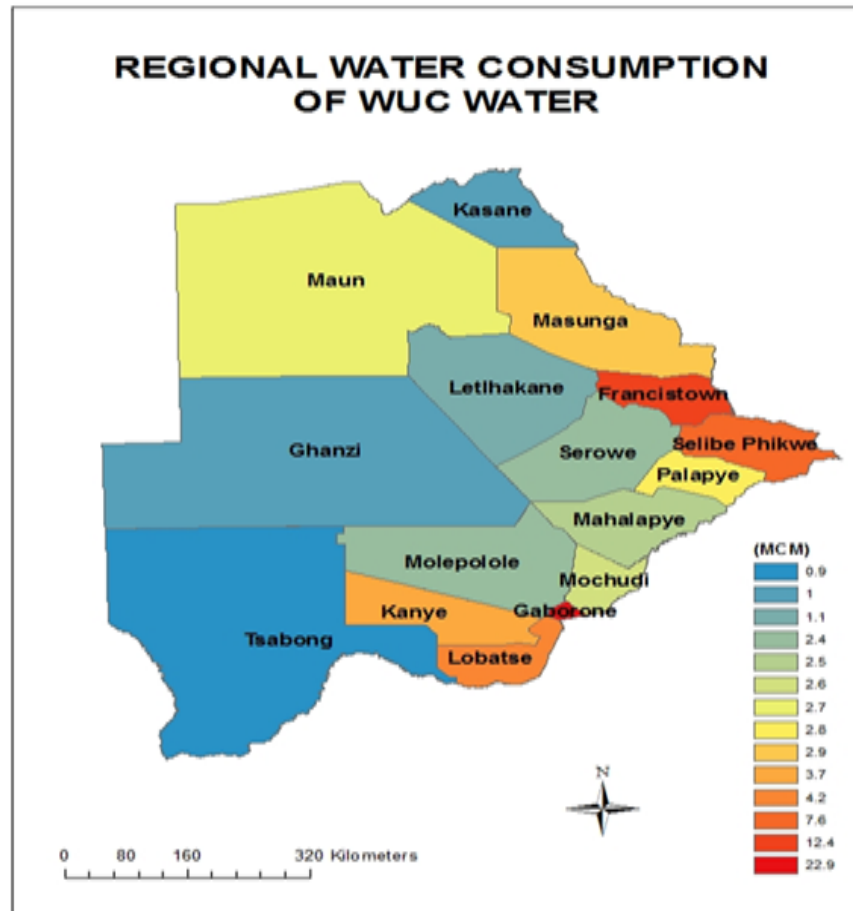


# Main findings (2014/15 report)

Water consumption by economic sectors



# Main findings (2014/15 report)



# USAGE/BENEFITS FROM THE WATER ACCOUNTS

- **Accounts and associated case studies used as guide for:**
  - Raw water abstraction strategy project (SIWI/DWA)
  - Catchment management committees (SIWI/DWA)
  - National Water Master Plan (NWMP) Review
  - Botswana National Water Conservation and Water Demand management Strategy 2016-2021
- **Establishment of (better) linkages between key stakeholders;**
- **Shared understanding among stakeholders for the need to allocate & utilize water efficiently**



# Achievements

## ACHIEVEMENTS

- ✓ Institutionalisation at DWA
  - ✓ 3 technical water accounts reports completed: UN SEEA-Water styled accounts (2010-2015)
- ✓ 4 Policy briefs for planners and decision makers
  - ✓ Policy brief on Findings of Botswana Water Accounts (Dec 2013)
  - ✓ Policy brief on Irrigation and Water Resources (Sept 2014)
  - ✓ Policy brief on Mining and Water Resources (Sept 2014)
  - ✓ Policy brief on Botswana's Agriculture and Water Resources (May 2015)
- ✓ Case Studies completed:
  - ✓ Botswana Meat Commission Water risk study
  - ✓ Water Resources Management Zones concept note
- ✓ Close links with 2013 IWRM WE Plan implementation & draft final Water and Waste Water Policy
- ✓ Stakeholder buy-in: Water Utilities Corporation, Botswana Chamber of Mines, Statistics Botswana, Ministry of Agric, MFDP, MMEWR

## CONTRIBUTING FACTORS

- High level buy-in
- DWA changed mandate towards IWRM





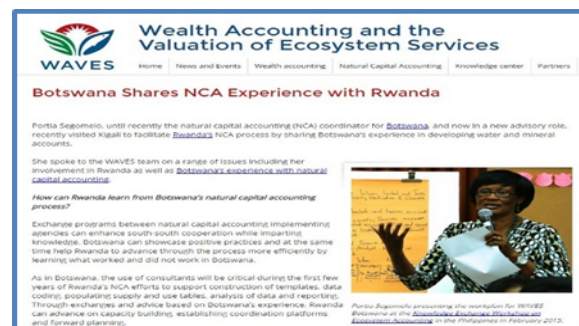
# Challenges – lessons learnt

- Systematic submission of data is a challenge
- Sharing of initial results with stakeholders can improve ownership
- A common identifier number for Service providers, Statistics Botswana and DWA Economic coding can greatly improve the data sorting process.
- More training and capacity building is required to expand the accounts in the future.
- Closer collaboration between the different accounts should be pursued to have a combined NCA report in the future



# CONCLUSION

- Training and capacity building remains a priority
- Institutionalization of NCA post WAVES era
- Resource commitments and strengthening of partnerships/collaboration across all stakeholders (Govt, local authorities, private sector, NGOs, civil society)
- Benefiting from a network of expertise from WAVES global community of practice and technical assistance from the World Bank and others
- NCA is poised to strengthen data requirements for evidence-based policy decision-making & monitoring of sustainable development in the country
- Communication and Information dissemination is also key



# THANK YOU FOR YOUR ATTENTION

