

TRACKING NDC IMPLEMENTATION



TRACKING NDC IMPLEMENTATION IN ZAMBIA

Peer to peer exchanges`-CBIT implementation

***Dr. Charity Nalweya
Manager Climate Change and Natural Resources***

Regency Hotel , March 11-15. Pretoria

1. COUNTRY CONTEXT

Area: 752,617 sq km

Population: 19.6 million

Population growth rate: 2.8% per year

Economy: Mining and Agriculture - diversify to Tourism and manufacturing

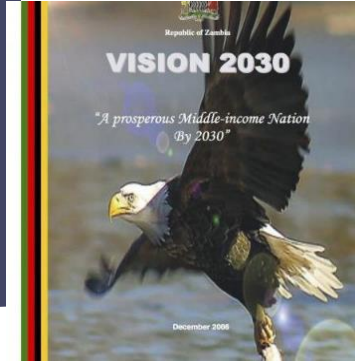
Core development Agenda: Outlined in Vision 2030, 8th National Development Plan and National Climate Change Policy to support a low carbon climate resilient development pathway and attain a Prosperous Middle-Income Nation by 2030

Emission status: Contributes less than 1 percent to global emissions

Climate change Impacts: Highly vulnerable to climate change impacts
Temperature increases, flash floods and droughts
Increased in intensity and frequency of climate induced impacting key economic sectors such Water, Agriculture, Energy and Health

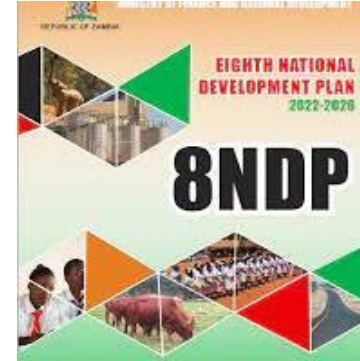


2. POLICY AND LEGAL FRAMEWORK



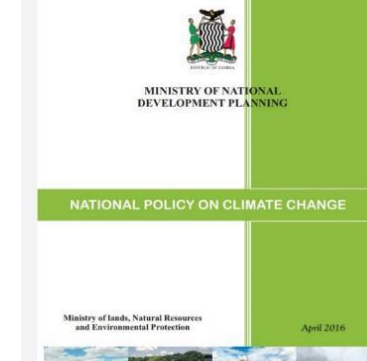
VISION 2030

Vision 2030 is a long-term development blueprint encapsulating Adaption and Mitigation programs and Projects



8NDP

The Eighth National Development Plan is a medium-term plan providing strategic direction for enhanced implementation of climate change, adaption and mitigation actions with a goal to attain environmental sustainability and the NDC Targets.



NPCC

The National Policy on Climate Change provides a framework for coordinating climate change programs to ensure climate resilience and low carbon development pathways for sustainable development.



EMA

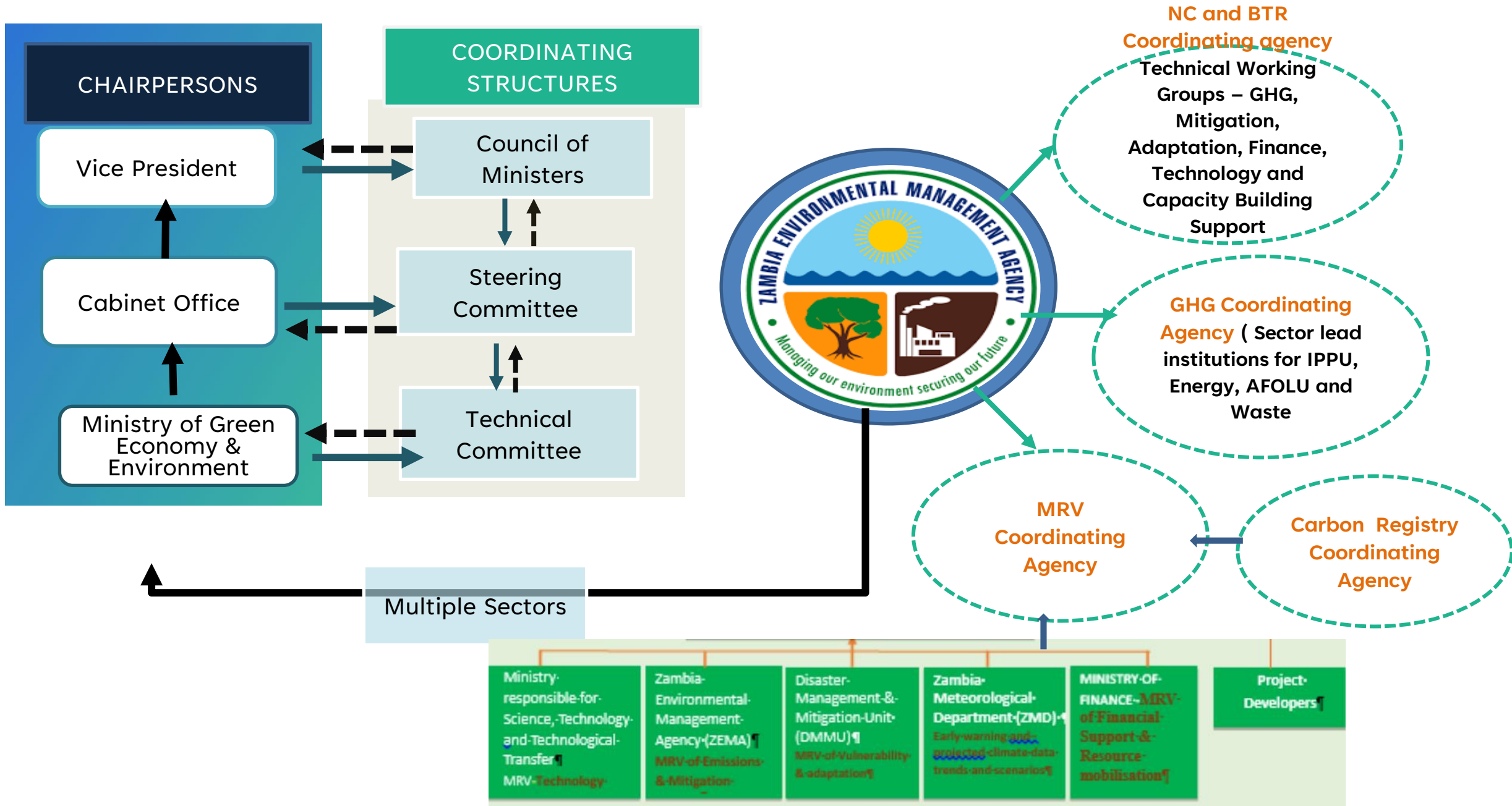
The Environmental Management Act provides for integrated environmental management, protection and conservation of the environment, including sustainable management and use of natural resources



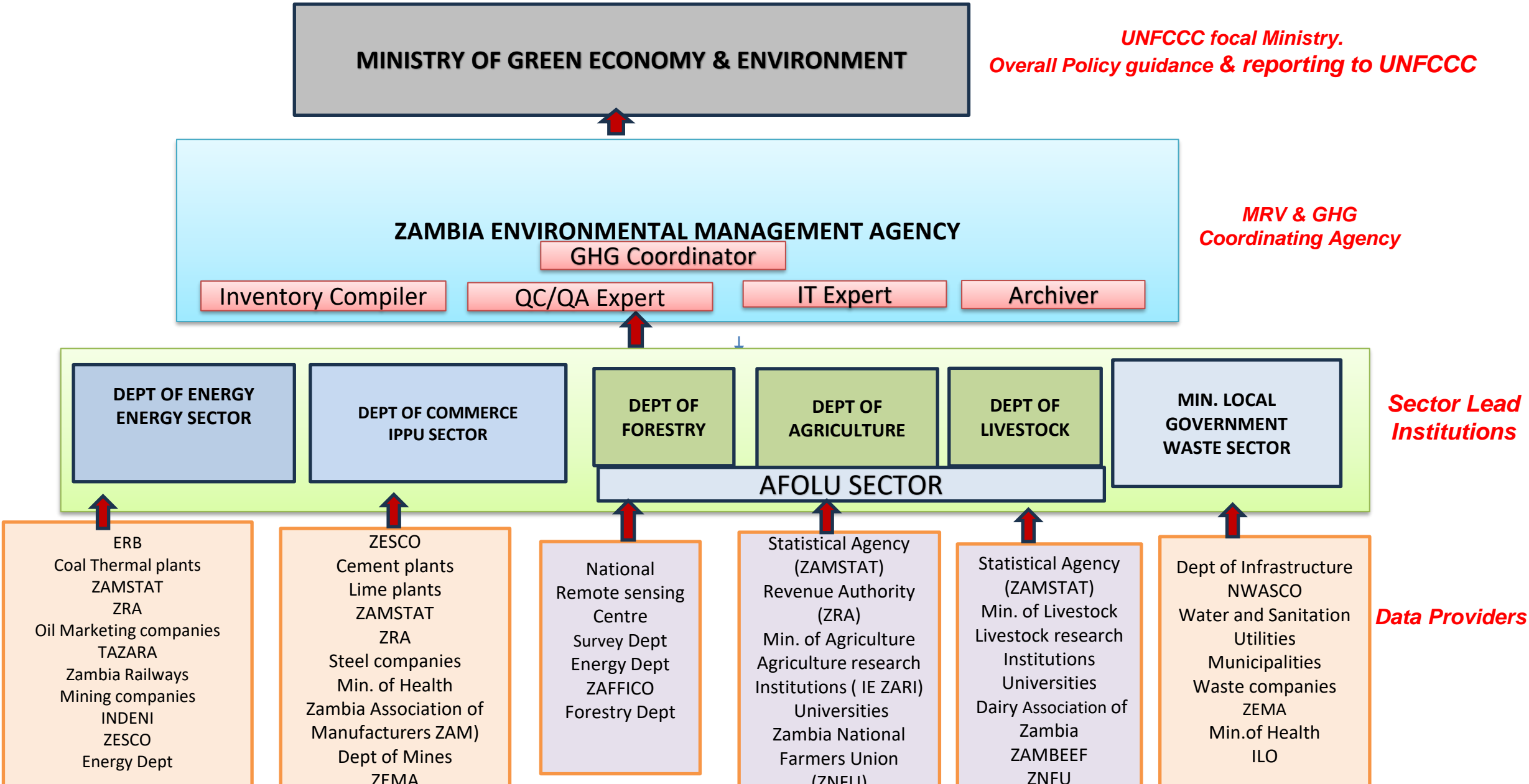
NEW POLICY DEVELOPMENTS

NPCC under revision
Climate Change Bill
Green Growth Strategy
EMA amendment
Mainstream Climate in Sectorial policies

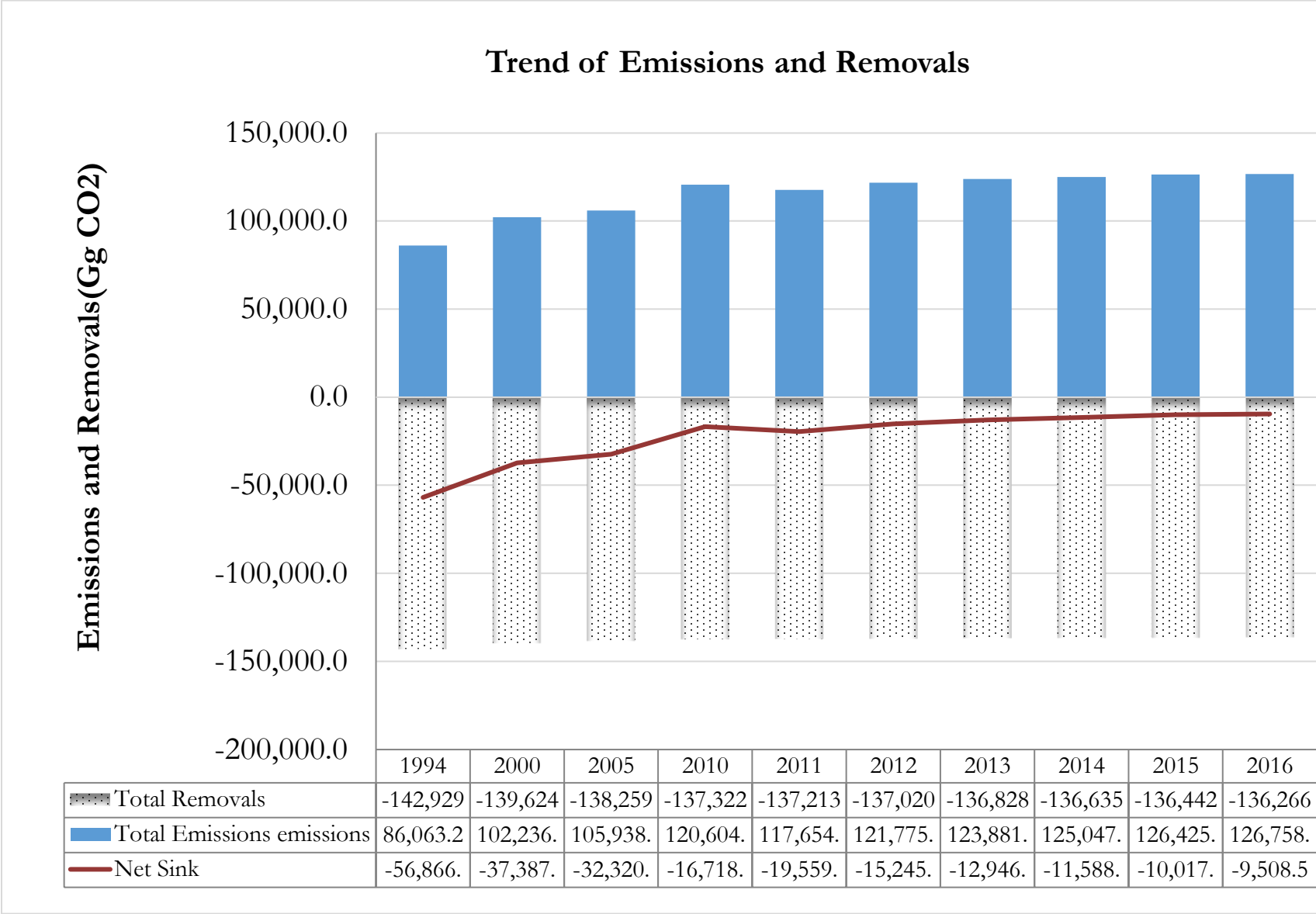
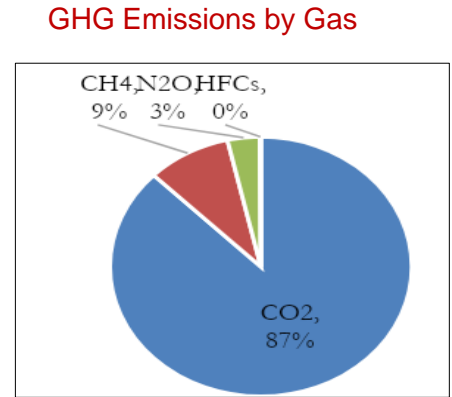
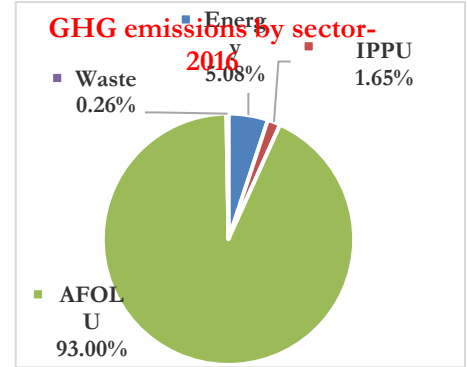
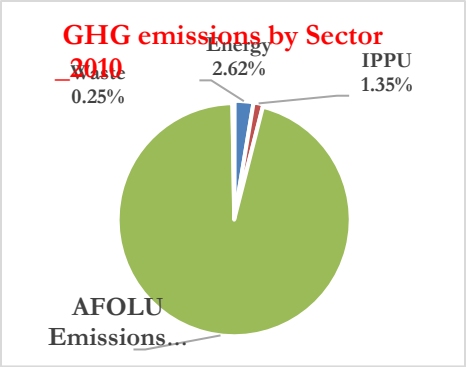
3,0 CLIMATE CHANGE INSTITUTIONAL ARRANGEMENTS



4.0 GHG MANAGEMENT INSTITUTIONAL FRAMEWORK



5.0 GHG EMISSION STATUS



6. NDC GOAL

- To contribute to global efforts of combating Climate Change , Zambia signed Paris Agreement (PA) **and submitted its NDC in 2015, updated in 2021** (outlines country's Adaptation and mitigation goals policies and measures)

ZAMBIA'S NDC TARGETS - 2030

2010 BASE YEAR



20,000Gg (25%)
CO₂eq Emission
reduction

*Domestic Efforts with existing
International support*

38,000Gg CO₂_{eq}
(47%) Emission
reduction

*Domestic Efforts with substantive scaled up
International support, Finance, Technology
Capacity Building*

7.0 NDC MITIGATION PRIORITY ACTIONS



SUSTAINABLE FOREST MANAGEMENT

- 1) Promoting Afforestation and re-forestation.
- 2) Promoting Sustainable Charcoal Production.
- 3) Promoting Community / Joint Forest management.



SUSTAINABLE AGRICULTURE

- 1) Promoting conservation and climate smart agriculture.



RENEWABLE ENERGY ENERGY EFFICIENCY

- 1) Electricity generation from renewables. Examples, Wind, Solar PV, Solar thermal, Geothermal.
- 2) Biomass power plants
- 3) Fuel switches from diesel/ HFO to bio diesel.
- 4) Efficient cook stoves & alternatives to charcoal.
- 5) Waste to Energy Projects
- 6) Sustainable Transport

8.0 NDC ENHANCED MITIGATION ACTIONS



SUSTAINABLE WASTE MANAGEMENT

- 1) Improved Solid Waste Management, Resource recovery, national and sub-national level
- 2) Installed power capacity (MW) of waste to energy projects
- 3) Commercial aerobic composting plants installed and functional
- 4) Organic waste biologically composted
- 5) Organic Fertilizer produced from aerobic composting plants
- 6) Mechanical biological treatment of food waste
- 7) Methane capture in new landfills.
- 8) Waste-water management



ENHANCED TRANSPORT SYSTEM

- 1) Electrification of Railways
- 2) Smart Railway transport Infrastructure
- 3) Electric vehicles and associated infrastructure
- 4) Introduce fuel efficiency targets
- 5) Introduction of BRT or Metro systems in the major cities

9.0 NDC ADAPTATION PRIORITY ACTIONS



STRATEGIC PRODUCTIVE SYSTEMS

AGRICULTURE

- Upscaling Market linkages
- Climate smart Agriculture promotion
- Agroforestry, Draught tolerant seed varieties, fertilizer, Use efficiency
- Creating an enabling environment for the climate Index Insurance

WILDLIFE

- Sustainable Wildlife Management
- Developing a wildlife adaptation strategy
- Mapping and protecting wildlife corridors

WATER

- Enhance investment in water capture, storage and transfer in selected watersheds

STRATEGIC INFRASTRUCTURE

- Institutionalize land use planning for sustainable management of Infrastructure development

STRATEGIC HEALTH

- Strengthen Health National Adaptation Plan
- Strengthen Health Surveillance Systems

PROPOSED ACTIONS FOR INCREASED AMBITIONS/ IMPLEMENTATION

1. Increased use of indigenous and scientific knowledge on draught tolerant crop types
2. Value addition promoted

1. Promote community, private public partnership in sustainable management of wildlife resources
2. Enforce equitable core benefits sharing arrangements in management of wildlife

1. Water deficit/availability assessments in the three agro-ecological regions conducted
2. Various water harvesting technologies based on the assessment results and potential implemented
3. Increased protection and access to clean water and improved sanitary conditions

1. Climate proofed infrastructure upscaled
2. Climate resilient roads constructed
3. Climate proofed PPP (buildings, bridges, etc.) infrastructure constructed

1. Strengthened policies and institutional capacities to manage climate change risks in the health sector
2. Climate change is mainstreamed across programmes to enhance resilience of the health sector

10 . ZAMBIA'S NDC IMPLEMENTATION FRAMEWORK 2023-2030

Zambia launched its NDC Implementation Framework, in May 2023 with support from NDC Partnership

Process of development

Built off extensive consultations started in 2019/2020 –following NDCP scoping mission in 2019. Both technical and political engagement, youth, women groups, and other non-state actors. National launch May 2023 with several ministers represented.

Alignment with national policies

Based on the revised NDC and aligned with 15 key policies including the 2030 Vision, the [8 NDP \(2022-2026\)](#), Draft GGS (2024-2030), draft NAP (2024-2030), Climate Change Policies and sectoral policies and priorities, .

Content of Framework

11 sectors,
18 outcomes,
135 measures,
158 KPIs

Estimated cost

The 8-year framework is estimated at **US\$17.2 billion from 2023 -2030** with Energy, Transport, Agriculture & Livestock as key cost drivers.

	USD Bi
Transport	6.5
Energy	5.9
Agriculture & Livestock	2.5

11.0 ZAMBIA'S NDC IMPLEMENTATION FRAMEWORK 2023-2030 OVERVIEW

1 **Fiscal policies** improved to foster low-carbon and resilient sustainable development

2 **Financial stability** and supervisory policy and procedures improved to foster low-carbon and resilient sustainable development

3 Strengthened climate resilience of **Agricultural** production and productivity

4 Enhanced **early warning systems** with a focus on agriculture, livestock and fisheries implemented

5 Reduced **vulnerability and strengthened** resilience of livelihoods among forest communities

6 **Increased gender equity** and inclusiveness for both women and men in Community Forest Management Groups (CFMG)

7 Increased share of **Renewable Energies** in the national grid and increased Energy Efficiency upscaled

8 **Enhanced adaptive capacity** and Strengthened resilience of infrastructure to climate shocks

9 **Enhanced Waste** Management and Resource Recovery

10 Increased resilience of the **Health sector** to climate change

11 **Water security** of all Zambians is promoted and protected, via gender-responsive and climate-smart water infrastructure

12 **Livestock** farmers able to cope with climate change through adoption of improved practices that enhance livelihoods

13 Sustainable systems for improved smallholder **livestock** production and productivity operational

14 Sustainable **Industrial** Products and Product Use

15 Sustainable **Transportation** Infrastructure

16 Strengthened Institutional **Capacity for Coordination** Climate Change Projects and Programmes in Zambia

17 Enhanced **transparency for efficient GHG** accounting and climate reporting in place

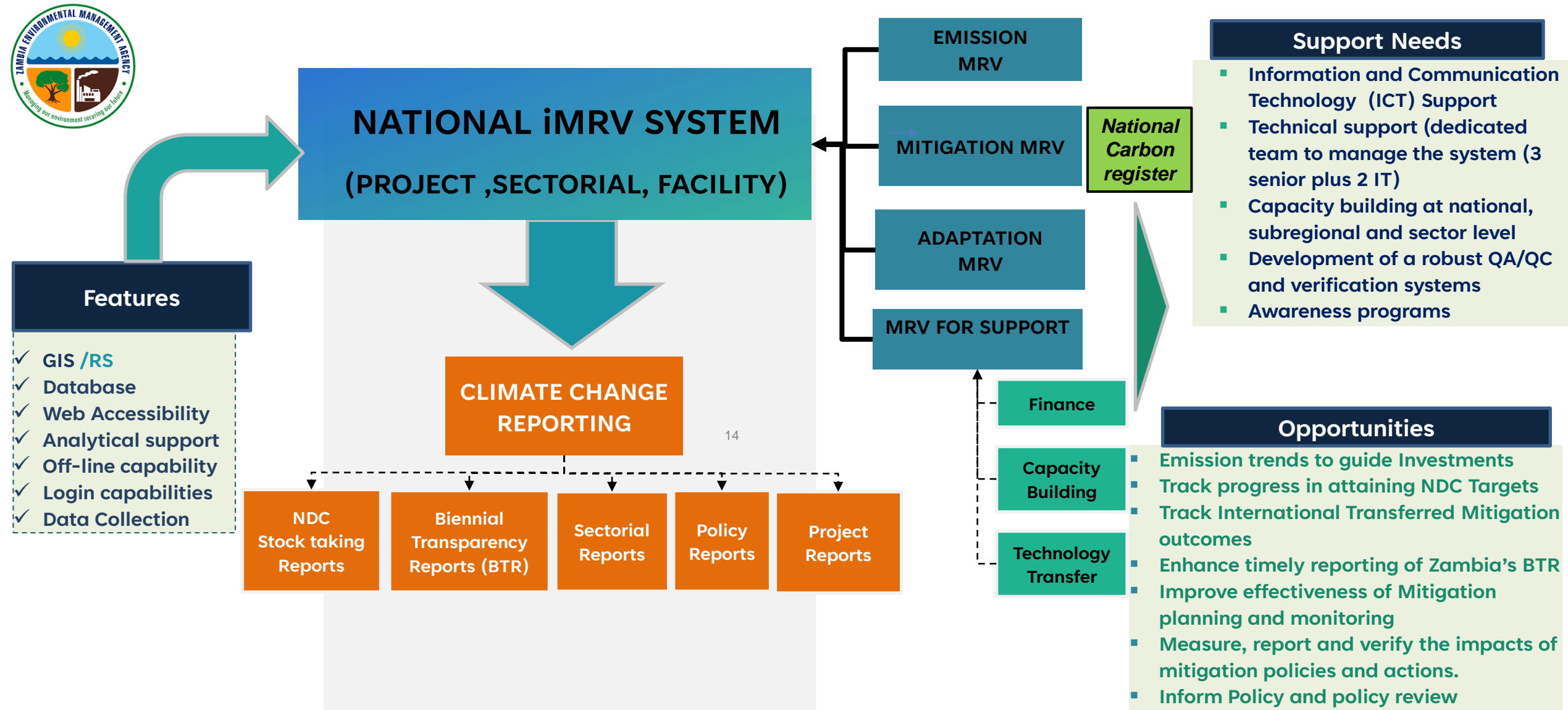
18 Enhanced **Environmental Sustainability**

7.0 NDC IMPLEMENTATION FRAMEWORK Cont...



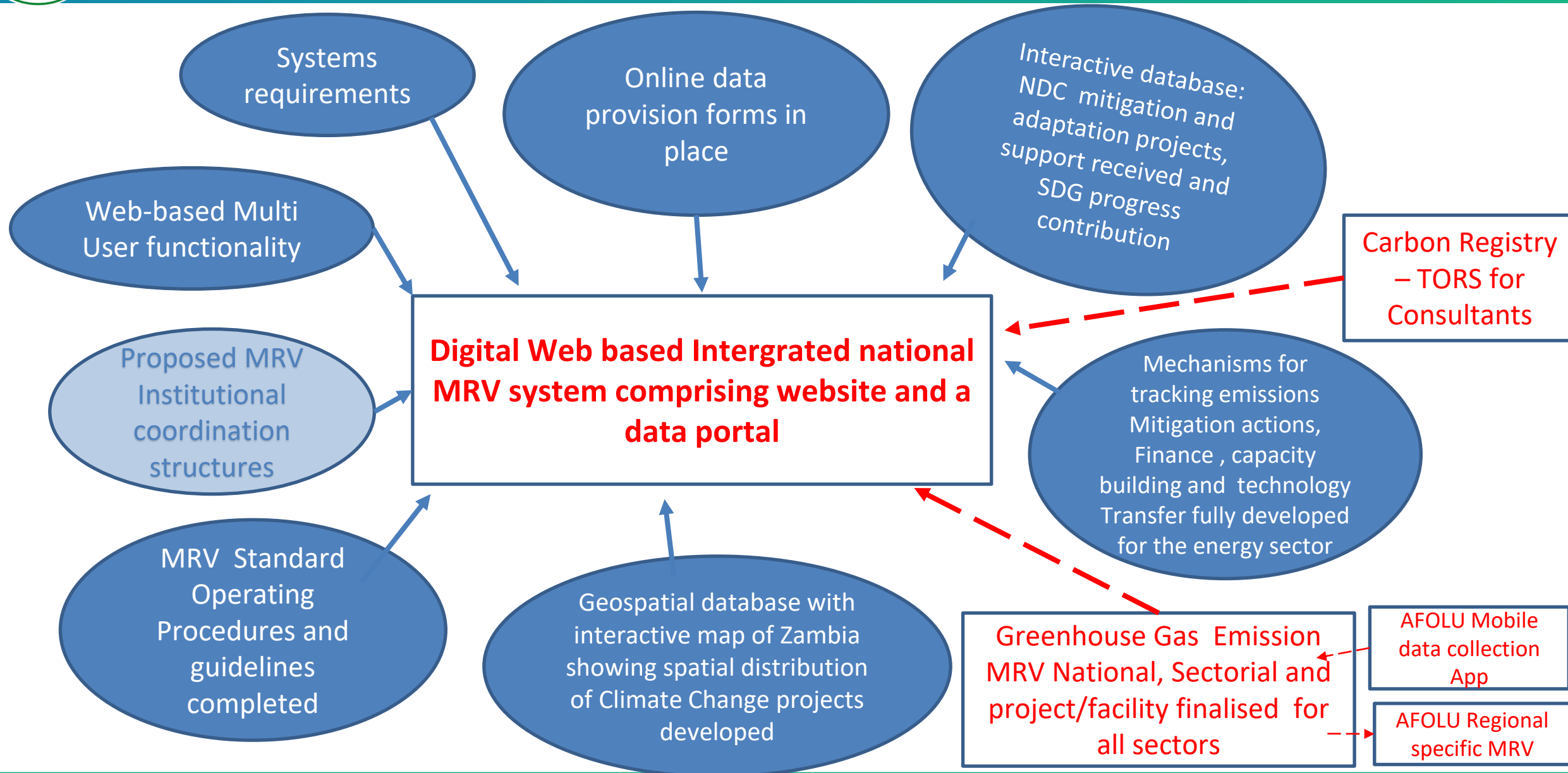
Sector	# of Measures in the Framework	# of KPIs	Implementation Cost (US\$)
Banking & Finance	16	22	2,227,868
Agriculture & Livestock	18	19	2,503,333,089
Multi-sector	34	40	39,617,986
Forestry	16	16	301,849,061
Energy	16	17	5,985,964,860
Buildings & Infrastructure	10	10	831,604,013
Waste	9	11	379,284,421
Health	4	5	128,744,093
Water	6	12	464,181,973
Industry	2	2	32,385,539
Transport	4	4	6,524,896,777
Total	135	158	17,194,089,680

11 NATIONAL INTEGRATED MRV SYSTEM – TRACKING NDC IMPLEMENTATION





12. OVERVIEW OF PROGRESS MADE NATIONAL MEASURING, REPORTING AND & VERIFICATION (IMRV) SYSTEM



13. CURRENT CHALLENGES



1. Lack of the Legal framework to establish and operationalise the iMRV system. Currently dependant of memoranda of understanding between ZEMA and sector lead institutions.
2. No GRZ budget allocation for MRV system management- currently project based support from cooperating partners
3. Limited technical (# of officers) support management of the IMRV
4. Inadequate digital Infrastructure (hard and soft IT equipment) and limited space for hosting the system
5. Inadequate capacity of data providers and sector lead institutions- inconsistencies in continuous collection
6. Huge data gaps across all GHG sectors
7. Inadequate knowledge and understanding of Carbon market frameworks

14. AREAS OF POLICY INTERVENTIONS



1. Robust Legal framework to operationalise the IMRV system
2. Robust digital infrastructure and Software
3. Funding mechanism (to safeguard national data)
4. Provisions for continuous data inflows from data providers



18

Thank You