

FACILITATIVE SHARING OF VIEWS VANUATU

Dubai, UAE

4th December 2023

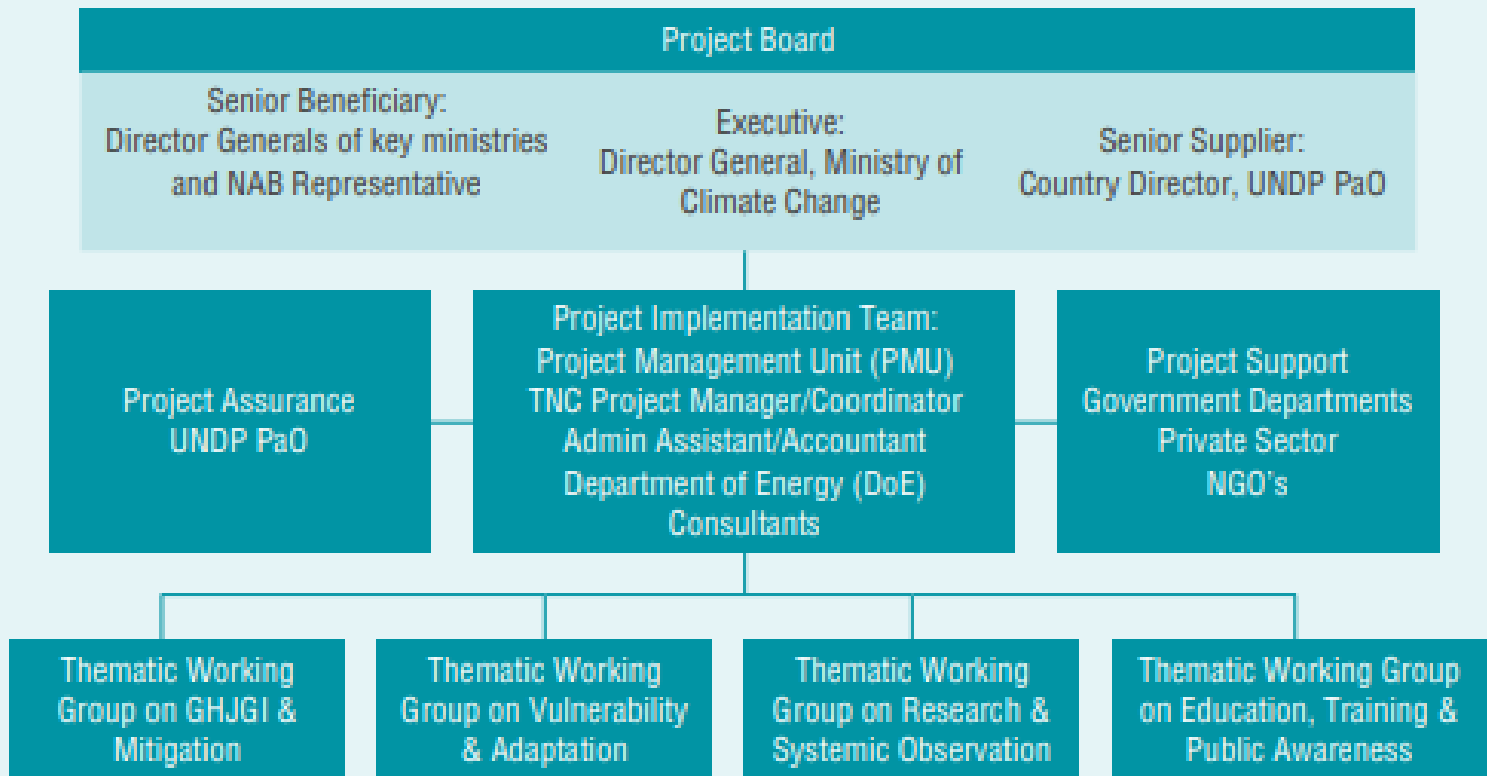
Presentation outline

Summary of BUR and recent development since the BUR submission

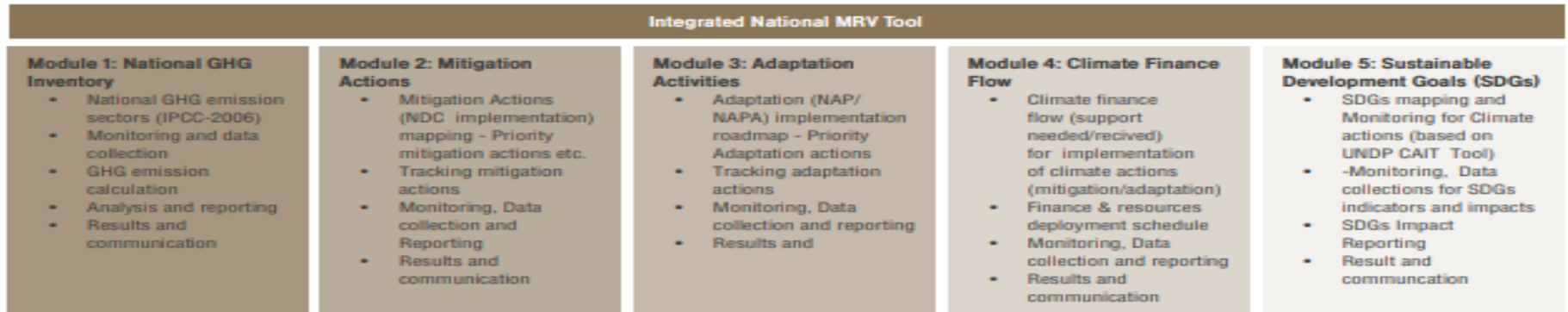
- ❖ National context
- ❖ GHG inventory
- ❖ Mitigation actions and effect
- ❖ Barriers and support needed and received
- ❖ ETF transition and implementation

National context

- Institutional arrangements

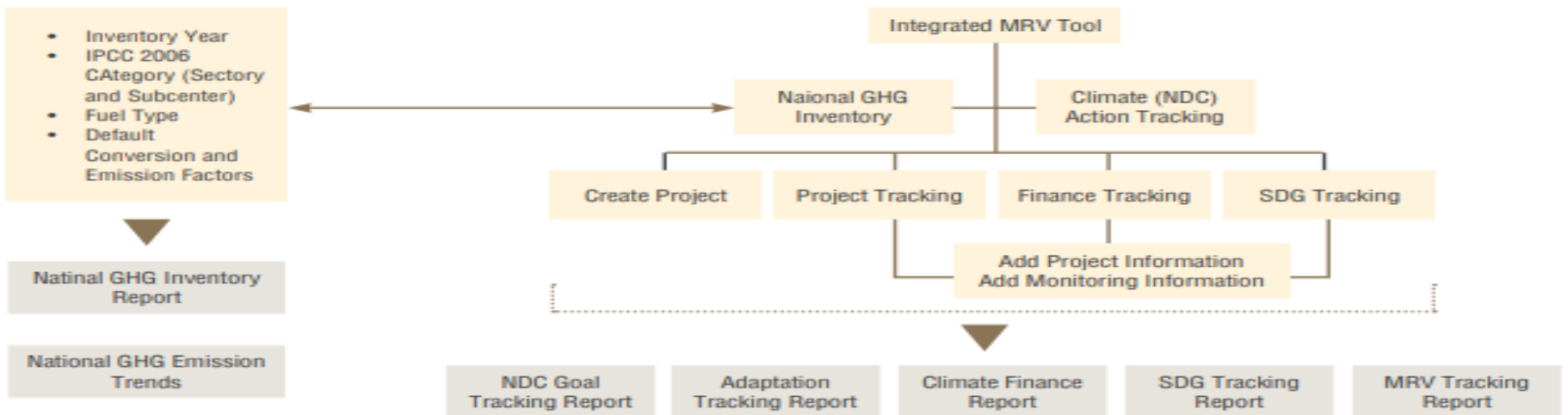


Domestic MRV



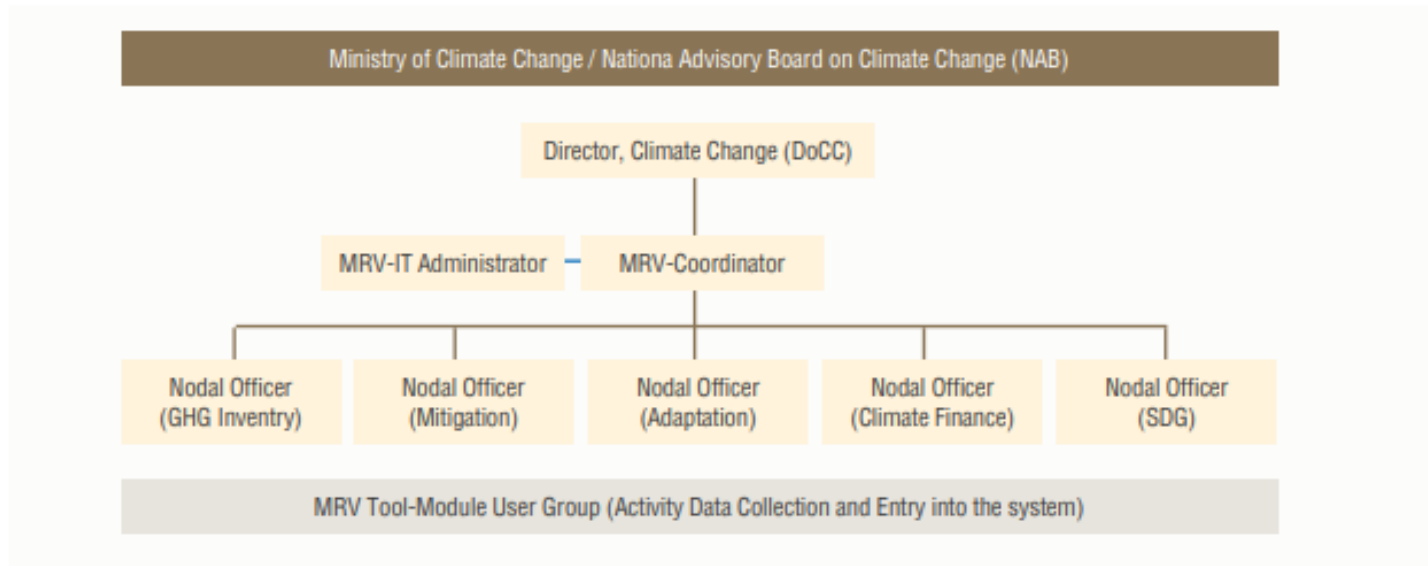
Resultant Reports - Integrated MRV Report, NDC Report (National GHG Inventory Report (NIR), National Communications (NCs), Biennial reports (BR) and Biennial Update Reports (BUR), BTR, International Financial & Technical Support

Components of Integrated MRV Tool



Integrated MRV Tool – Design Structure

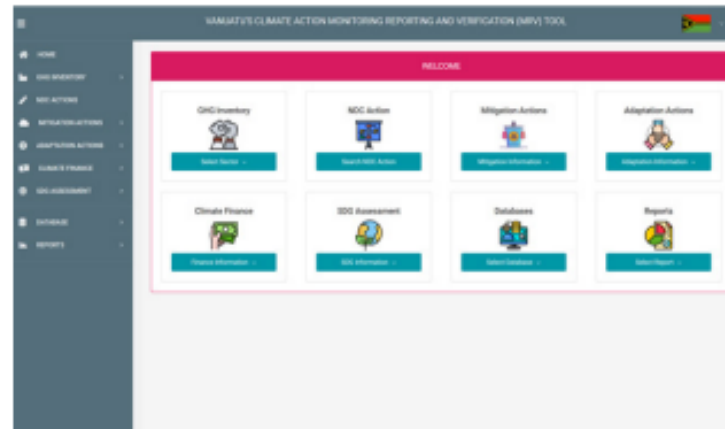
Institutional arrangements and domestic MRV



Integrated MRV Tool – Design Structure



Integrated MRV Tool - Login Page



Integrated MRV Tool - Landing Page

GHG inventory for 2016 & 2017

Vanuatu's GHG Emission-Sector and Sub-sector wise (excl. removals), Gg CO2eq

Inventory Year: 2016-2017 Total National Emissions and Removals: Categories	Total CO2 Emissions, (Gg CO2 Equivalents)	
	2016	2017
1 - Energy	148.121	161.290
1.A - Fuel Combustion Activities	148.121	161.290
1.A.1 - Energy Industries	40.698	43.700
1.A.2 - Manufacturing Industries and Construction	22.963	24.308
1.A.3 - Transport	77.962	86.101
1.A.4 - Other Sectors	6.498	7.181
2 - Industrial Processes and Product Use	-	-
3 - Agriculture, Forestry, and Other Land Use	323.022	399.381
3.A - Livestock	312.106	384.395
3.A.1 - Enteric Fermentation	202.547	269.999
3.A.2 - Manure Management	109.559	114.396
3.C - Aggregate sources and non-CO ₂ emis- sions sources on land	10.917	14.985
3.C.6 - Indirect N2O Emissions from manure manage-ment	10.917	14.985
4 - Waste	38.388	39.539
4.A - Solid Waste Disposal	30.658	31.732
4.D - Wastewater Treatment and Discharge	7.730	7.807
Total ghg emissions, excl. Removals	509.531	600.209

Vanuatu's GHG Emission-Gas wise (excluding removals), Gg CO2eq

Inventory Year: 2016-2017	GHG Emissions (excluding Removals)			
	Gg CO2	Gg CH4	Gg N2O	Total Gg CO2eq.
2016	146.637	10.892	0.219	509.531
2017	159.669	13.512	0.235	600.209

Improvement in reporting on GHG inventory

- Vanuatu is continuously striving to improve national GHG estimation and reporting to the UNFCCC.
- To achieve continuous improvement in national reporting, constraints, gaps, and related financial, technical, and capacity building, needs should be identified, and appropriate measures taken and implemented to address them.
- In Vanuatu, key uncertainties are associated with data availability, missing data, lack of comprehensive information, data archiving and lack of country specific emission factors.
- Similarly, for Land Use Change and national forest resources currently there is no national data available. The waste sector also lacks information on waste generation characterization, composition, disposal and treatment.
- It can be concluded that with adequate training and capacity building on GHG inventory requirements, Vanuatu can provide more detailed and accurate information in subsequent GHG inventories.

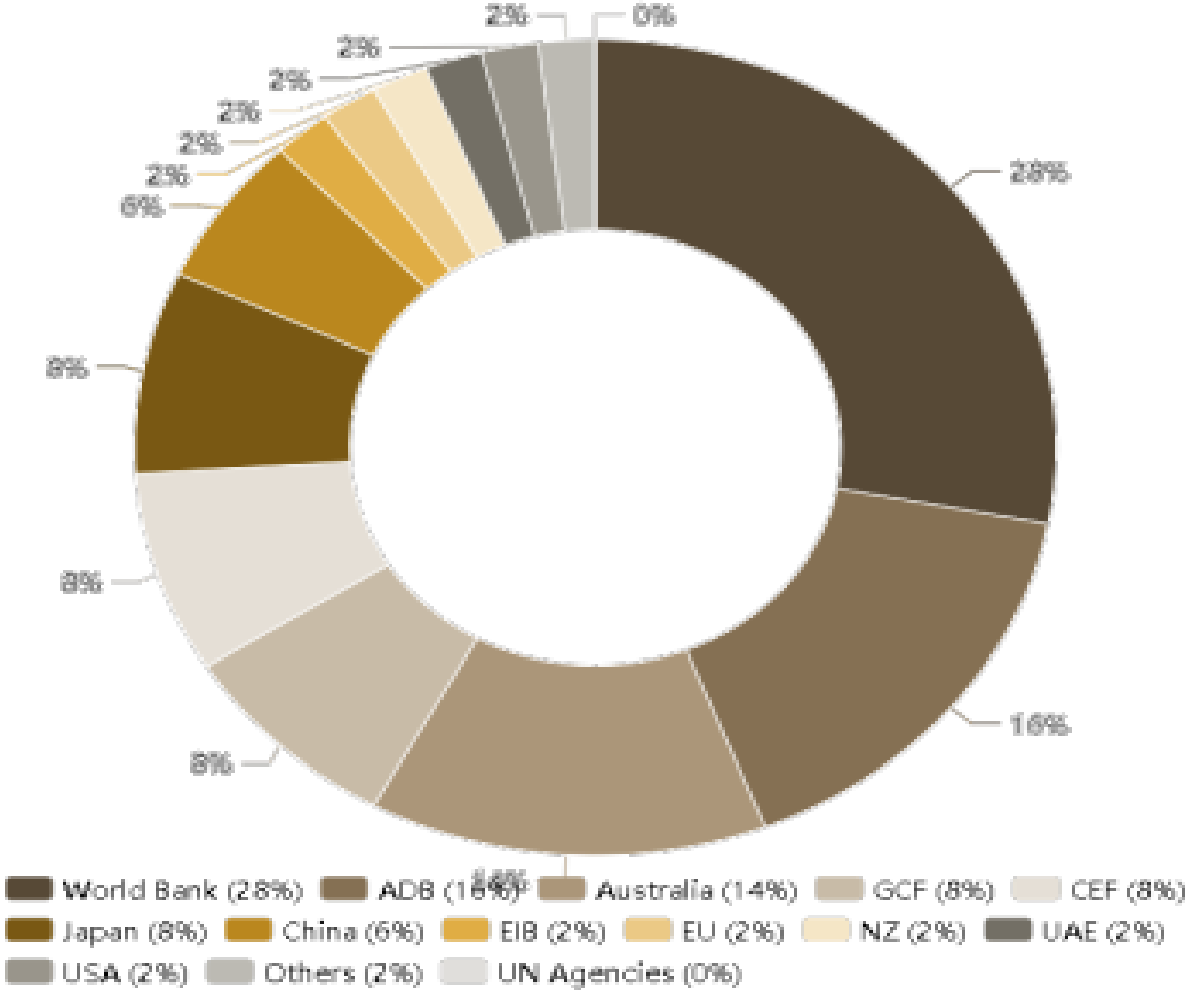
Mitigation actions and effects

GHG EMISSIONS SECTOR NDC ACTIONS (EXISTING AND ENHANCED NDC SCENARIO)		Indicators	GHG MITIGATION	ESTIMATED ADDITIONAL COSTS
			Gg CO ₂ e/year	Million \$
TRANSPORT				
ADDITIONAL NDC MEASURE 1	Electric vehicles (e-mobility)		2.61	4.25
ADDITIONAL NDC MEASURE 1.1	Electric vehicles (e-buses) for public transportation	10% of total public buses replaced with electric buses	1.84	2.50
ADDITIONAL NDC MEASURE 1.2	Electric cars (e-cars) in Vanua-tu	10% of Gov-ernment fleet replaced with electric cars	0.08	1.00
ADDITIONAL NDC MEASURE 1.3	Electric two (e-bikes)/three-wheelers (e-rickshaw)	1000 numbers of electric two/three wheelers	0.68	0.75
ADDITIONAL NDC MEASURE 2	Biodiesel (biofuel) blending in diesel	20% of bio-diesel blending achieved	18.50	1.25
ADDITIONAL NDC MEASURE 3	Vehicle mileage and emis-sions standards	Milage and emission standards endorsed by Council of Min-isters	0.29	0.50
OTHER SECTORS				
ADDITIONAL NDC MEASURE 4	Biogas plants for commercial and residential use	1000 number of biogas plants made operational	3.50	10.00
ADDITIONAL NDC MEASURE 5	Energy efficiency in commer-cial and residen-tial sector		0.35	0.75
ADDITIONAL NDC MEASURE 5.1	Increase energy efficiency in commercial and residential sector	5% energy efficiency acheived	0.35	0.25
ADDITIONAL NDC MEASURE 5.2	Energy-efficient buildings (green buildings)	10 energy effi-cient buildings constructed	NE	0.50
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.15)	Ecotourism supported by local communities	NE	NE	0.25
	IPPU sector NDC actions - Not applicable/not included			
	AFOLU sector NDC actions			
	Agriculture - Not applicable/not included			

LIVESTOCK					
ADDITIONAL NDC MEASURE 6	Training and capacity-building for livestock farming and pas-ture management	Number of training and capacity building pro-grammes con-ducted	NE		0.35
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.1)	Converting pastures to sil-vopastoral livestock systems	Hectares of land switched to silvopas-toral system	30.98		0.50
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.14)	International collaboration to improve live-stock efficiency	Number of collaborative initiatives facill-i-tated	NE		0.50
FORESTS - NOT IN-CLUDED					
Waste sector					
SOLID WASTE *					
ADDITIONAL NDC MEASURE 7	WTE plant for MSW			14.85	100.00
ADDITIONAL NDC MEASURE 7.1	WTE plant for Port Vila	Municipal Waste to ener-gy plant made operational in Port Vila		14.27	55.00
ADDITIONAL NDC MEASURE 7.2	WTE plant for Luganville	Municipal Waste to ener-gy plant made operational in Luganville	0.50		30.00
ADDITIONAL NDC MEASURE 7.3	WTE plant for Lenakel	Municipal Waste to ener-gy plant made operational in Lenakel	0.08		15.00
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.2)	Compost municipal organic waste to produce soil enhancer	Tonnes of compost pro-duced	10.94		1.50
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.9)	Collect, sort and export recy-clable materials (indicative) for first phase for Port Vila		NE	NE	1.00
ADDITIONAL NDC MEASURE (CE STRAT-EGY 3.10)	National plastics strategy	Strategy devel-oped and en-dorsed by Council of Min-isters	NE		0.25
WASTEWATER					
ADDITIONAL NDC MEASURE 8	Wastewater management system in Vanuatu			3.57	52.50
ADDITIONAL NDC MEASURE 8.1	Centralized wastewater collec-tion and treat-ment system in municipal areas, including awareness and capacity-building	Waste water reticulation & treatment sys-tems installed	1.07		50.00
ADDITIONAL NDC MEASURE 8.2	Improvements to public and communal toilet facilities in-cluding bio-toilets		NE	2.50	2.50
TOTAL				157.01	173.60

Support received

Key Bilateral and Multilateral Sources for Climate Change-Related Funding to Vanuatu (2014-2016)



Finance, technology, capacity-building needs

STRATEGIC ISSUES	STRATEGIC GOALS
Lack of mainstreaming climate change into sectoral plans	Mainstreaming Climate Change into sectoral plans, policies and budgets of relevant line ministries
Uncertain assessment of the effects of climate change and climate actions (mitigation and adaptation) within vanuatu.	Support and develop interventions (mitigation and adaptation) for realistic assessment of climatic change and climate action impacts
Untapped climate change mitigation and adaptation potentials.	Identify and implement potential climate change mitigation and adaptation actions including framework/roadmaps for implementation
Limited inflow of investment into the climate change (mitigation and adaptation) sectors	Explore and enhance opportunities for increasing level of climate finance for climate actions (mitigation, adaptation and cross cutting)
Lack of technical support (technical knowledge and expertise) available to stakeholders on climate change or climate change science.	Identify and implement actions to enhance the technical knowledge of stakeholders through focused interventions
Lack of data for monitoring and evaluation of climate change and its impacts including sdg benefits in vanuatu.	Implementation and strengthening of MRV system (for data collection, review, archiving, analysis and development of database) for climate actions and impacts (mitigation and adaptation) and SDG benefits
Low level of awareness among stakeholders (internal and external) within vanuatu and outside about the causes and implications of climate change and climate variability in vanuatu.	Awareness and capacity building programmes for stakeholders within Vanuatu on Climate Science, Variability and associated Climate Actions (Mitigation, Adaptation)
Improved communication with International community (Governments, organizations, development agencies/partners) on implication of climate change in Vanuatu and support needed	Change in observed mean
Low level of implementation of international climate change adaptation and mitigation obligations.	Identify the gaps and build capacities among the stakeholders to enhance implementation of international climate change obligations.
Lack of support to develop and implement appropriate educational resources and programmes on climate change topics.	Identify and provide support in introducing and strengthening climate change science into formal and informal education system in Vanuatu
Untapped traditional practices and knowledge relating to climate change mitigation/adaptation including weather and climate through the observation of weather indicators occurring in nature and by other means.	Provide support and explore opportunities from traditional practices and knowledge relating to climate change mitigation/adaptation and weather and climate
Limited research and development (r&d) activities within the department and outside on climate actions and climate science.	Identify potential collaborations and support R & D activities within the department and outside on climate actions and climate science.
Lack of information dissemination, knowledge sharing, decision support tools on climate change adaptation and mitigation and risk reduction strategy	Identify and provide support to explore and strengthen cooperation within the region and beyond on knowledge and information exchange. Enhance and strengthen ICT technologies for knowledge sharing

ETF transition and implementation

- Engage in the Roster of Experts
- Institutionalize / restructuring to factor in ETF
- Enhanced & strengthen access to information/data
- Capacity Building

Thank You!