



Climate change: from policy to data

Mr. Vlad Trusca, UN Climate Change (UNFCCC)

UNSC 51 - Side Event: Environment statistics and climate change statistics, the nexus, 3 March 2020



Introduction

Who we are?

UNFCCC

Mandates

PAWP

UNFCCC

- UNFCCC - United Nations Framework Convention on Climate Change, 1992
- Kyoto Protocol, 1997 & Doha Amendment, 2014
- Paris Agreement, 2015



"We are in deep trouble with climate change, as it is running faster than we are and we must catch up sooner rather than later before it is too late."
Dec. 2018 (COP24)

"It is absolutely essential that countries commit themselves to increase what was promised in Paris because what was promised in Paris is not enough"
UN Secretary General, Antonio Guterres, Aug. 2019

Mandates

- Negotiations (COP25 Madrid)
- Technical support
- Analysis of info & data
- Support, training, capacity building

- Transparency - reporting, review and multilateral consideration
- Nationally Determined Contributions (NDCs)
- Adaptation Communications
- Finance, technology support

UNFCCC Topics

Action on Climate and SDGs

Adaptation and resilience

Capacity-building

Climate Finance

Climate Technology

Education & Youth

Gender

Land Use

Local Communities and Indigenous Peoples Platform

Mitigation

Pre-2020 Ambition and Implementation

Science

Paris Agreement Work Programme

- **Rulebook for Paris Agreement**
- **Basis** to implement Paris Agreement **consistently**
- All institutions/processes **work efficiently**
- **Balance between topics** (mitigation, adaptation means of implementation, finance, transparency)
- **Differentiation** between countries - **flexibility**
- **2020 - scale and speed up climate action** and expect more ambitious NDCs





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Policy

What are the main topics?

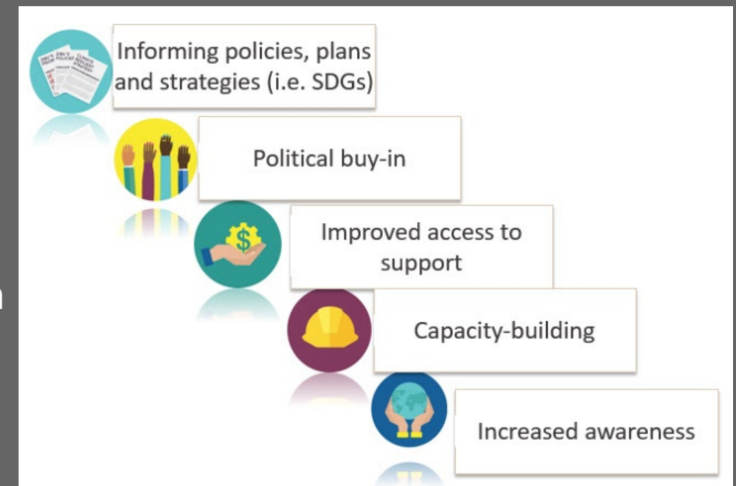
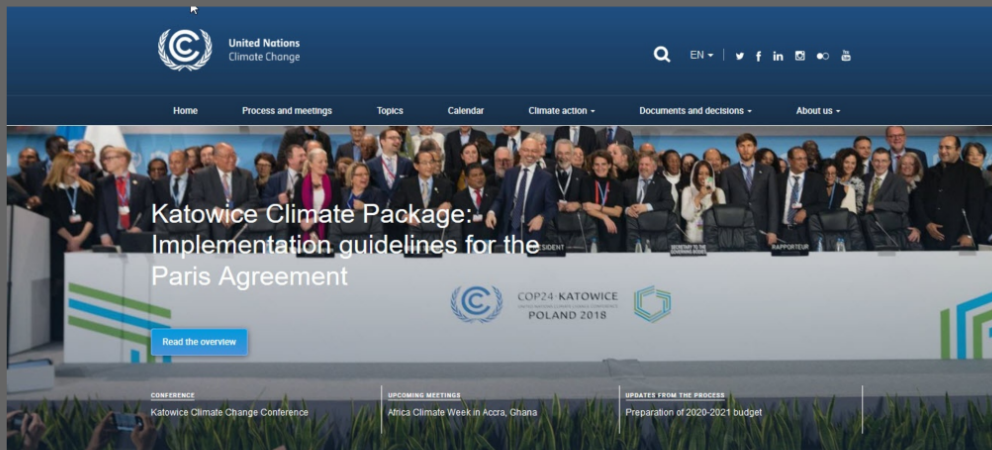
Transparency

Global
Stocktake

Adaptation

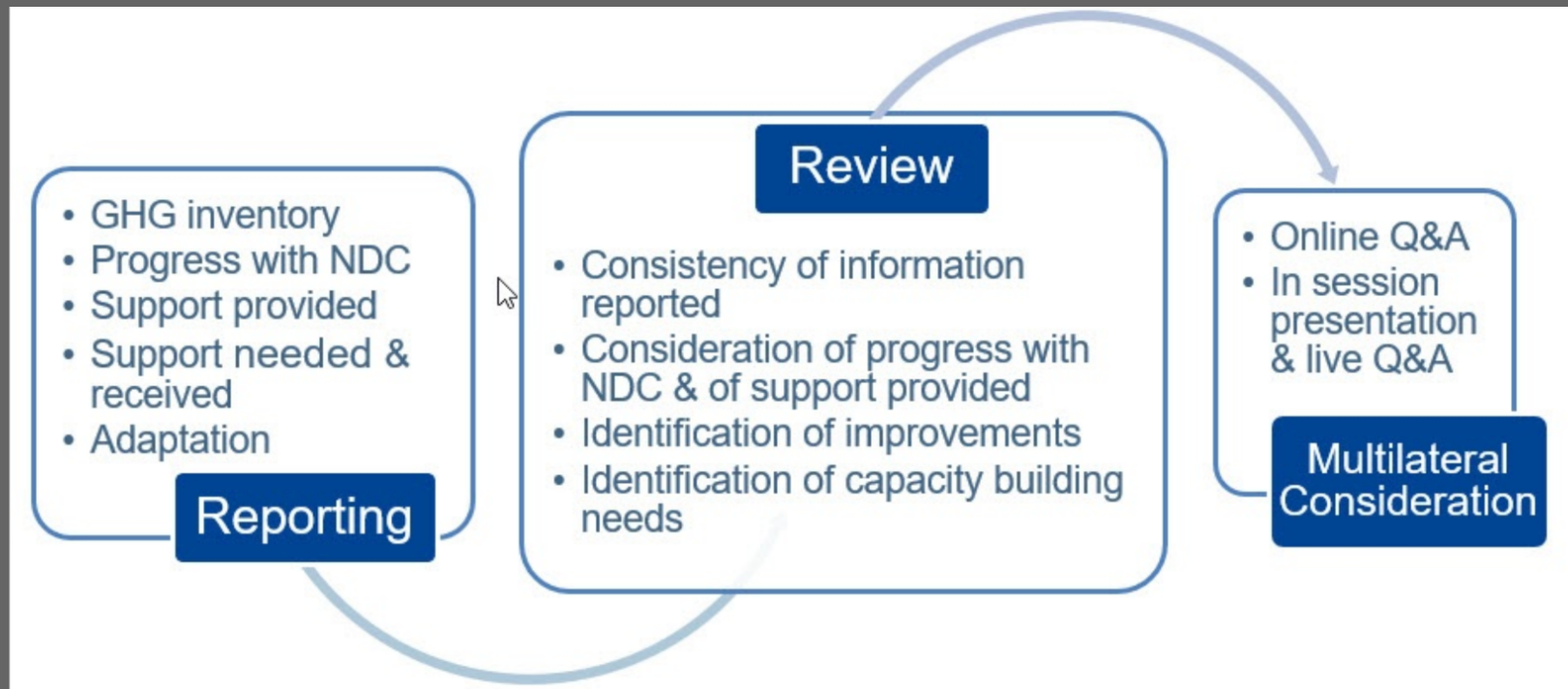
Transparency

- **Enhanced Transparency Framework (Art. 13 PA)**
 - builds mutual trust & promotes effective implementation
 - provides flexibility based on Parties' different capacities
 - builds upon collective experience of current MRV



- 1. Transparency of action** - incl. tracking progress of NDCs and adaptation actions
- 2. Transparency of support** - aggregate financial support provided and received

Transparency



Global Stocktake



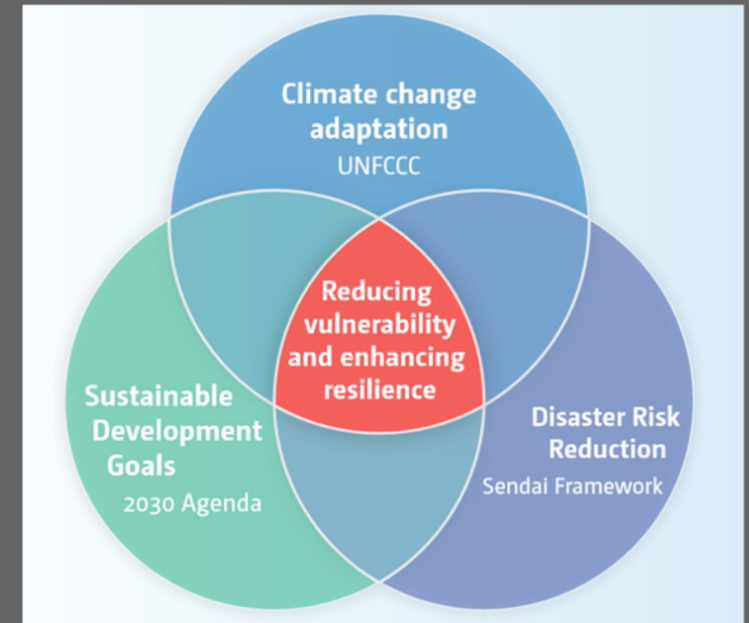
Global Stocktake (Art. 14 of PA) - provides for a periodic evaluation of the implementation of Paris Agreement to assess the collective progress towards achieving long-term goals

1st Global Stocktake - 2023

3 components:

- Information collection and preparation
- Technical assessment, taking stock of the implementation of PA
- Consideration of outputs

Adaptation



SUSTAINABLE DEVELOPMENT GOAL 13

Take urgent action to combat climate change and its impacts*



UNFCCC is the primary international, intergovernmental forum for negotiating the global response to climate change



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Implications

How is policy linked with statistics?

Process

Methodology

Arrangements

Process

All countries shall report on their:

1. **national entity** with overall responsibility for the national GHG inventory
2. **GHG inventory preparation** process, incl. division of responsibilities by institutions to ensure activity data collection, choice of methods and EFs
3. archiving info for **entire time series**, incl. QA/QC
4. processes for **official consideration/approval**

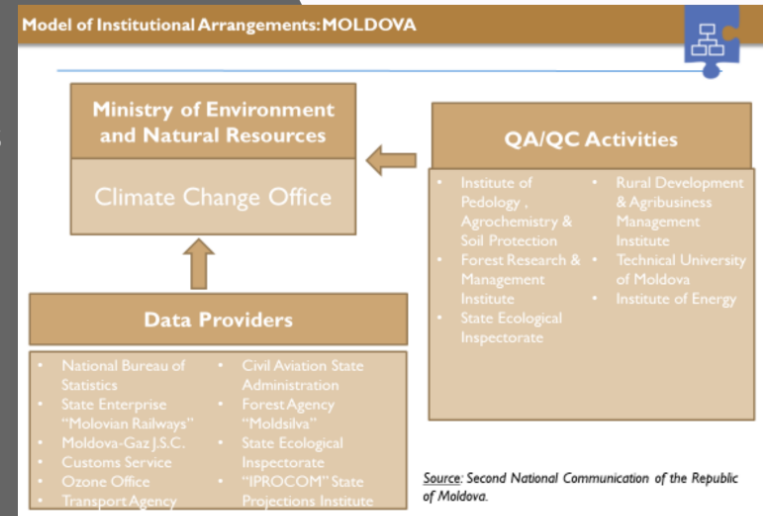
Methodology

All countries shall or should:

- use the **2006 IPCC Guidelines** & new versions
- use same methods and a **consistent** approach
- use surrogate data, extra/intra-polation, other IPCC techniques to **estimate missing values**
- quantitatively estimate and qualitatively discuss the **uncertainty of data**
- report **seven gases** CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃; developing countries that need flexibility **can report at least first 3 gases** plus others if included in their NDC

Institutional Arrangements

- **Critical** part of the National System
- Formal or informal **institutional, legal and procedural** arrangements
- **Roles and responsibilities** in preparing the inventory, incl. the **designated agency**
- Structure and **confidence** in the inventory process
- Specific to **national circumstances**





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Tools

How we manage data?

GHG DI

NDC R

GHG Data Interface

- all countries reporting under Convention

United Nations Framework Convention on Climate Change

Submission Portal - sessions
<http://www4.unfccc.int/submissions/SitePages/sessions.aspx>

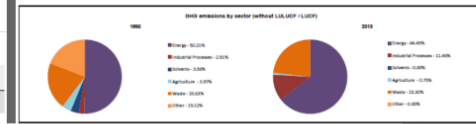
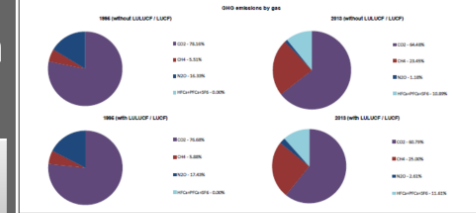
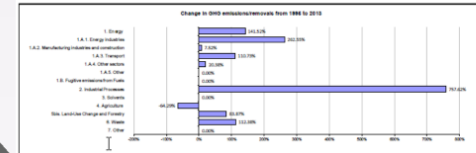
Process

- GHG Data - UNFCCC
- Time series - Annex I
- Detailed data by Party
- Comparison by Category
- Comparison by Gas
- GHG profiles
- Annex I
- Non-Annex I
- Global map - Annex I

GHG Profiles - Non-Annex I

Search:

Party	Link to Excel	Link to PDF
Non Annex I		
Alghanistan	Excel	
Albania	Excel	
Algeria	Excel	
Andorra		
Angola	Excel	
Antigua and Barbuda	Excel	
Argentina	Excel	
Armenia	Excel	
Azerbaijan	Excel	
Bahamas	Excel	
Bahrain	Excel	
Bangladesh	Excel	
Barbados	Excel	
Belize	Excel	
Benin	Excel	

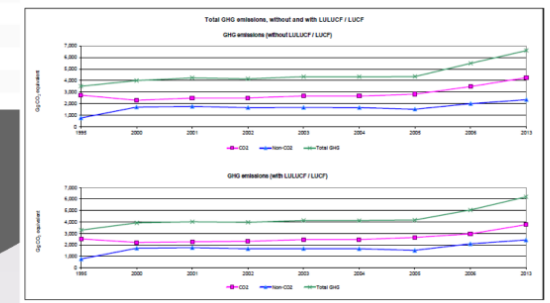


Emissions Summary for Mauritius

Category	Emissions in GtCO2e (annexed)		
	1990	2010	2013
GHG emissions without LULUCF / LUCF	279.0	279.0	279.0
CO2 emissions without LULUCF / LUCF	279.0	279.0	279.0
GHG emissions with LULUCF / LUCF	279.0	279.0	279.0
CO2 emissions with LULUCF / LUCF	279.0	279.0	279.0
GHG emissions from land use change and forestry	0.0	0.0	0.0

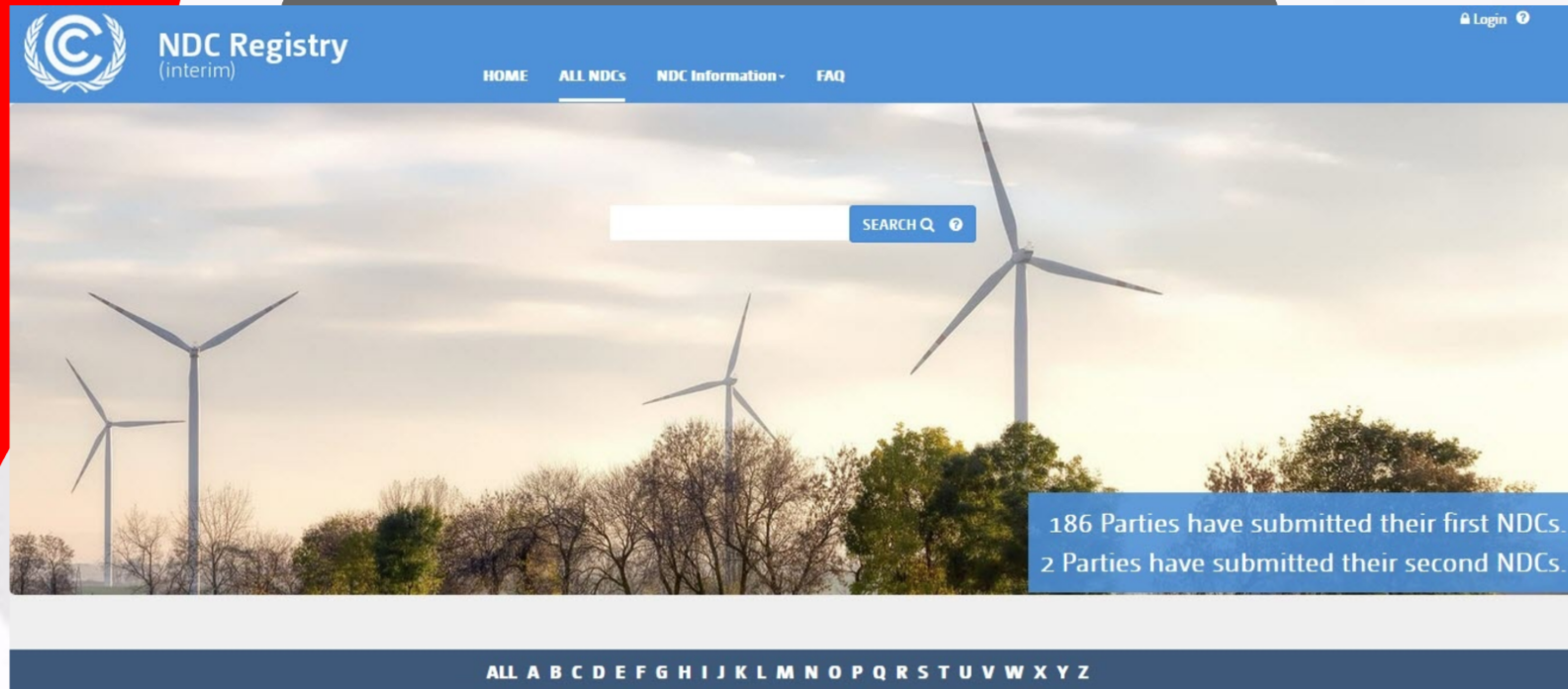
Category	Change in emissions (%) period		
	From 1990 to 2010	From 2000 to 2010	From 2000 to 2013
GHG emissions without LULUCF / LUCF	0.0%	0.0%	0.0%
CO2 emissions without LULUCF / LUCF	0.0%	0.0%	0.0%
GHG emissions with LULUCF / LUCF	0.0%	0.0%	0.0%
CO2 emissions with LULUCF / LUCF	0.0%	0.0%	0.0%
GHG emissions from land use change and forestry	0.0%	0.0%	0.0%

Category	Average annual growth rates, in percent per year		
	From 1990 to 2010	From 2000 to 2010	From 2000 to 2013
GHG emissions without LULUCF / LUCF	0.0%	0.0%	0.0%
CO2 emissions without LULUCF / LUCF	0.0%	0.0%	0.0%
GHG emissions with LULUCF / LUCF	0.0%	0.0%	0.0%
CO2 emissions with LULUCF / LUCF	0.0%	0.0%	0.0%
GHG emissions from land use change and forestry	0.0%	0.0%	0.0%



NDC Registry

- all countries under Paris Agreement



The screenshot shows the NDC Registry website. At the top left is the UN logo and the text "NDC Registry (interim)". To the right are navigation links: "HOME", "ALL NDCs", "NDC Information", and "FAQ". In the top right corner, there is a "Login" button with a user icon. The main content area features a background image of wind turbines. A search bar with a "SEARCH Q" button is positioned over the image. A blue text box in the lower right of the image contains the statistics: "186 Parties have submitted their first NDCs." and "2 Parties have submitted their second NDCs." At the bottom of the page, there is a dark blue bar with the text "ALL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z".



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Conclusions



Conclusions

- Countries submit a large **amount of data** on national activities - **publicly available on UNFCCC website**
- Data needed from **NSOs** is complex and require expertise & resources
- Understand the link between statistics and climate-change data **is key in reporting accurately**
- Enhance cooperation between **NSOs & national authorities** reporting climate change (**UNFCCC-UNSD**)
- **Statistical data** is needed for GHG inventories
- Data reporting needs **increase for Paris Agreement**



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Links

UN Climate Change Secretariat

<http://unfccc.int/>

NDC Registry

<http://www4.unfccc.int/sites/NDCStaging/Pages/Home.aspx>

GHG Data Interface

http://di.unfccc.int/detailed_data_by_party

http://di.unfccc.int/time_series

Questions?



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