



# **TOWARDS INTEGRATED, INCLUSIVE AND SUSTAINABLE CLIMATE CHANGE DATA ECOSYSTEMS FOR BETTER CLIMATE ACTION**

## *An assessment framework*

23rd August 2022, Santiago, Chile  
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Strengthening environment, climate change and disaster information in the Caribbean  
Session 3: 14:30 – 15:45h

PARIS  
21

# Do we need an assessment framework for a climate change data ecosystem (CCDE)?

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1. Presentation of PARIS21 CCDE Assessment Framework
  - 1.1. Scope and Rationale
  - 1.2. A snapshot of the process
  - 1.3. Steps
  - 1.4. Recommendations
  - 1.5. Next steps
2. Comments from countries
3. Interactive discussion





**Enabling a coherent and inclusive CCDE:**  
*Mapping climate change data needs, gaps and key actors  
for capacity development*

## Scope and Rationale

*Why to assess national climate change data ecosystems?*

A. CCDEs already exist de facto,  
but are highly **fragmented**



A need for more **coherent, integrated and inclusive CCDEs**

B. National CCDEs face multiple **challenges**

*(resources and capacity, data gaps, data literacy, co-ordination, regulatory frameworks...)*

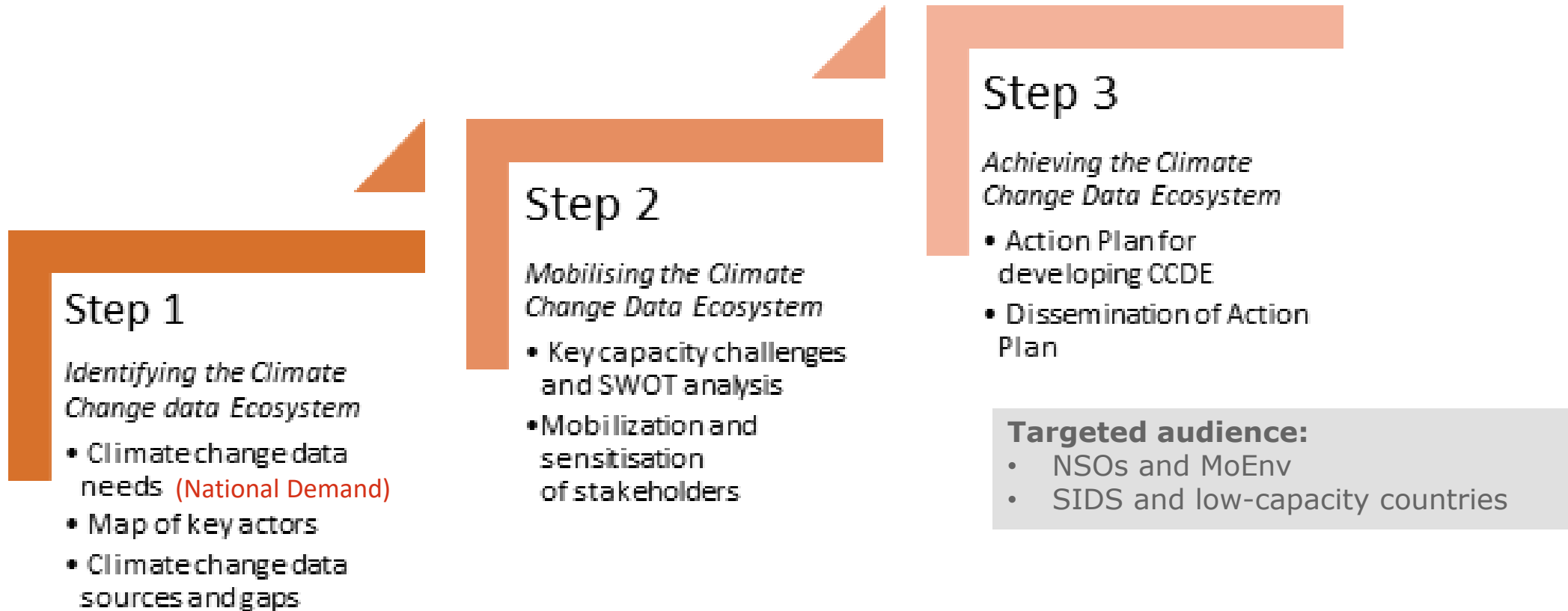


A need to identify **country-specific climate-change data and capacity priorities** to adapt existing CCDEs

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Assessing national CCDEs' state and country priorities provides **crucial information/evidence** to develop a **climate change data action plan** to **transform** their CCDE into a more integrated, inclusive, and effective system

## A snapshot of the process



**\*Recommendations for NSOs and beyond for moving forward**





# PARIS21 CCDE Assessment framework

## Step 1- Identifying the CCDE

### 1.1. Inventory of climate change data requirements

- **What:**
  - **Global**/regional reporting commitments (Paris Agreement, SDGs)
  - **National** Climate Change Adaptation Plans, National Determined Contributions, National Development Plans
- **How:** Desk research & bilateral engagement with focal points of key ministries.
- **Output:** list of relevant data needs/priority areas

### 1.2. Mapping key actors

- **What:** National stakeholder mapping (producers, users, mobilising resources, advocacy)
- **How:** workshop with key stakeholders (NSO, MoEnv...) + building on existing assessments (e.g. ESSAT and/or Global Set)
- **Outputs:**
  - CCDE expert group
  - List of key data holders, users, advocacy and resource mobilization actors based on national climate change data priority areas





# PARIS21 CCDE Assessment framework

## Step 1- Identifying the CCDE

### 1.3. Identifying climate change data sources and gaps

- **What:** match demand with supply of climate change data
- **How:** Climate change data template + using information from simple questionnaires to key stakeholders + other assessments available (e.g., ESSAT assessments/desk research)
- **Output:** report with key climate change data gaps + information on existing data with potential use for closing the gaps (action is needed!)

\*If the country's capacity and demand for indicators allow, ADAPT can also be used to conduct the data gap assessment







## Step 2 - Mobilising the CCDE

### 2.1. Identify key challenges for mobilising a CCDE for the country

- **What:** conduct a capacity gap analysis (what capacities to develop)
- **How:** PARIS21 capacity framework (CD4.0) + SWOT analysis
- **Output:** report identifying key climate change data capacity gaps and priority areas of action to address them

### 2.2. Disseminating results and mobilising key stakeholders

- **What:** increase understanding of the landscape of actors and data gaps in the current CCDE and raise awareness on priority capacity development areas
- **How:** sensitization workshop to discuss and validate results of the assessment
- **Outputs:** list of validated priority capacity areas to guide the development of an action plan





# PARIS21 CCDE Assessment framework

## Step 2 - Mobilising the CCDE

### 2.1. Identify critical capacity gaps to activate climate change data

- PARIS 21 Capacity Development Framework (CD4.0)
- 5 capacity development areas
- 3 levels

Target/Level	Individual	Organisational	System
<b>Resources</b>			
	<ul style="list-style-type: none"><li>• Professional background</li></ul>	<ul style="list-style-type: none"><li>• Human resources</li><li>• Budget</li><li>• Infrastructure</li></ul>	<ul style="list-style-type: none"><li>• Legislation, principles and institutional setting</li><li>• Funds infrastructure</li><li>• Plans (NSDS, sectoral...)</li><li>• Existing data</li></ul>
<b>Skills and knowledge</b>			
	<ul style="list-style-type: none"><li>• Technical skills</li><li>• Work know-how</li><li>• Problem solving and creative thinking</li></ul>	<ul style="list-style-type: none"><li>• Statistical production processes</li><li>• Quality assurance and codes of conduct</li><li>• Innovation</li><li>• Communication</li></ul>	<ul style="list-style-type: none"><li>• Data literacy</li><li>• Knowledge sharing</li></ul>
<b>Management</b>			
	<ul style="list-style-type: none"><li>• Time management and prioritisation</li><li>• Leadership</li></ul>	<ul style="list-style-type: none"><li>• Strategic planning and monitoring and evaluation</li><li>• Organisational design</li><li>• HR management</li><li>• Change management</li><li>• Fundraising strategies</li></ul>	<ul style="list-style-type: none"><li>• NSS co-ordination mechanisms</li><li>• Data ecosystem co-ordination</li><li>• Advocacy strategy</li></ul>
<b>Politics and power</b>			
	<ul style="list-style-type: none"><li>• Teamwork and collaboration</li><li>• Communication and negotiation skills</li><li>• Strategic networking</li></ul>	<ul style="list-style-type: none"><li>• Transparency</li><li>• Workplace politics</li></ul>	<ul style="list-style-type: none"><li>• Relationship between producers</li><li>• Relationship with users</li><li>• Relationship with political authorities</li><li>• Relationship with data providers</li><li>• Accountability</li></ul>
<b>Incentives</b>			
	<ul style="list-style-type: none"><li>• Career expectations</li><li>• Income and social status</li><li>• Work ethic and self-motivation</li></ul>	<ul style="list-style-type: none"><li>• Compensation and benefits</li><li>• Organisational culture</li><li>• Reputation</li></ul>	<ul style="list-style-type: none"><li>• Stakeholder interests</li><li>• Political support</li><li>• Legitimacy</li></ul>



# PARIS21 CCDE Assessment framework

Adapting CD4.0 to the CCDE context – Examples:

Target/Level	Individual
<b>Skills and Knowledge</b>	<p><u>Technical statistical skills:</u></p> <ul style="list-style-type: none"><li>• Remote sensing data collection</li><li>• Analyse images</li><li>• Use GIS systems</li><li>• Use Python for cc data analysis and automate tasks</li></ul> <p><u>Knowledge (know-how):</u></p> <ul style="list-style-type: none"><li>• Data collection processes</li><li>• Use of metadata</li><li>• Quality assurance &amp; quality control before publishing/sharing data</li><li>• Statistical methods and standardise data entry</li></ul>
<b>Politics and power</b>	<p><u>Career expectations</u></p> <ul style="list-style-type: none"><li>• Promotion schemes for staff working on climate change data</li></ul>

Target/Level	Organisational
<b>Resources</b>	<p><u>Human resources:</u></p> <ul style="list-style-type: none"><li>• Number of employees dedicated to the production, management, publication, and/or dissemination of climate change data</li></ul> <p><u>Budget:</u></p> <ul style="list-style-type: none"><li>• Budget allocated to the production, management and dissemination of climate change data</li></ul> <p><u>Infrastructure:</u></p> <ul style="list-style-type: none"><li>• Software for data management (water level radar sensors, solar panels)</li></ul>





## Step 3 - Achieving the CCDE, an Action Plan

### 3.1. Develop an action plan to implement a CCDE

- **What:** Definition of
  - Objectives – what needs to be done based on the identified capacity gaps
  - Activities - how to achieve the objectives (concrete actions)
  - Costing - what is the budget needed for implementation of activities
- **How:** workshop with key stakeholders (NSO, MoEnv...) based on outputs from step 2.2
- **Output:** action plan for climate change data anchored in national climate change strategy/plans or NSDS (when applicable)

An action plan that can help countries to mobilise resources for more effective use of climate change data!

1. **Who** are the key actors of the national CCDE
2. **What** needs to be done to activate available climate change data
3. **How** and **how much** does it cost to do it





# Interactive discussion



# Overall feedback from the audience!

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# Q&A session





**THANK YOU!**

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