

# Strengthening of the Monitoring and Evaluation System of Adaptation to Climate Change in Panama



# Panama Priorities in Transparency and Adaptation to Climate Change

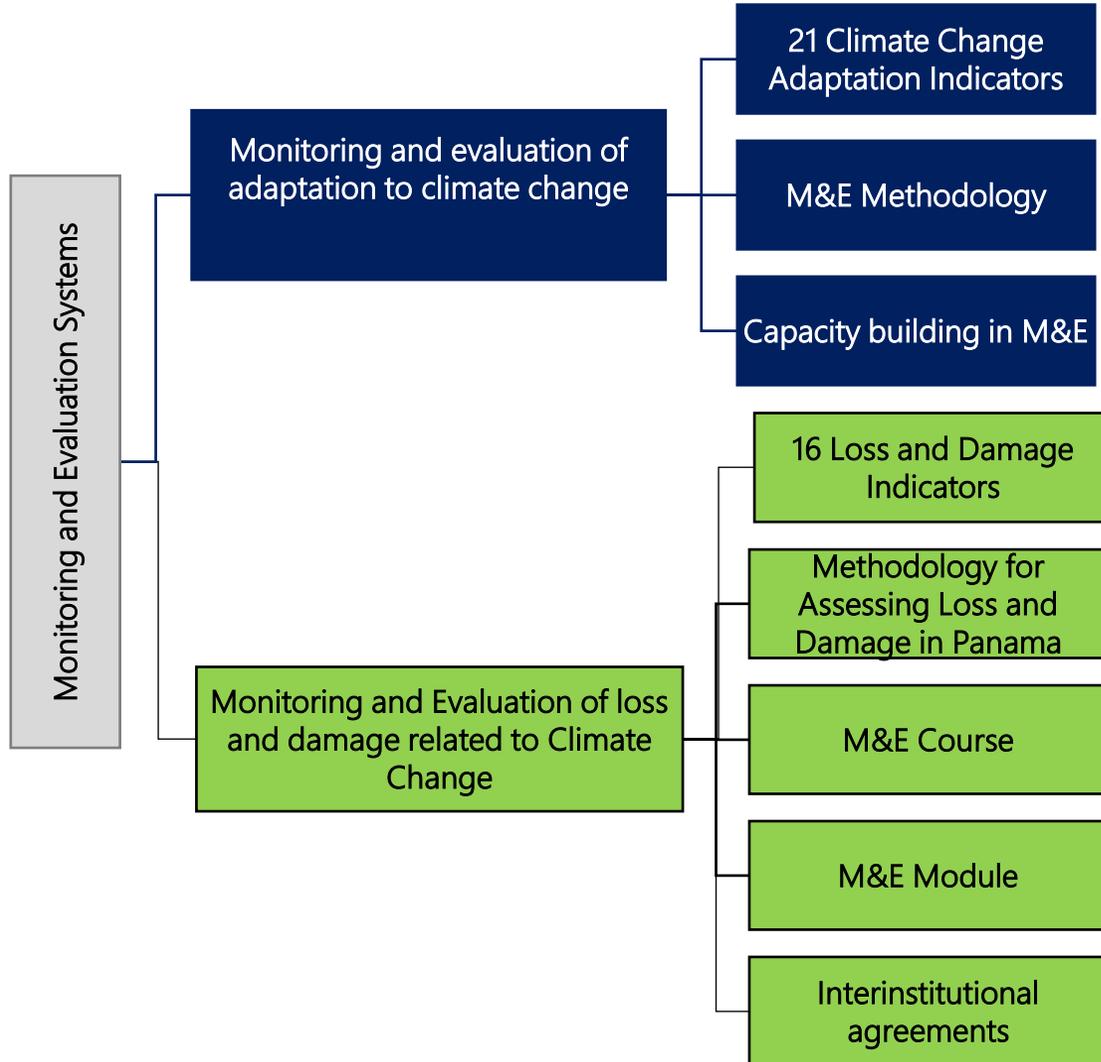
## Regulatory Framework:

- Executive Decree 100 of October 20, 2020, which creates the National Climate Transparency Platform (PNTC);
- Executive Decree 135 of April 30, 2021, which creates the National System for Monitoring, Evaluation and Reporting of Adaptation to Climate Change, among others.
- Framework Law on Climate Change of the Republic of Panama\*

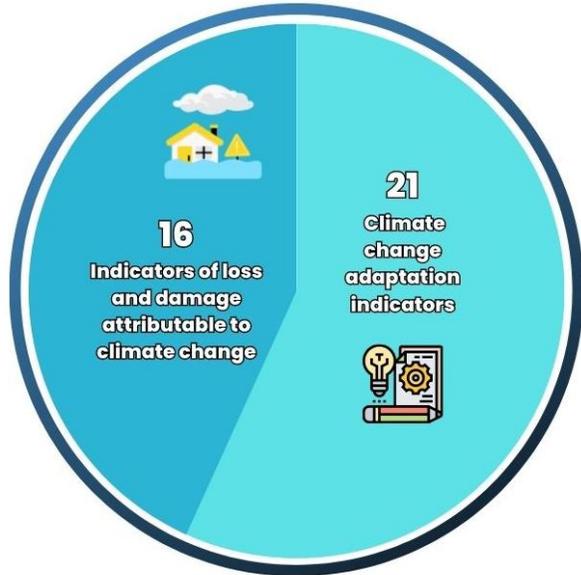
## NDC1 Commitments:

- By 2025, Panama is committed to establishing and launching the National Climate Transparency Platform.
- By 2025, the SIREN Platform (Damage Collection and Assessment System) will be improved, expanded and strengthened, through the inclusion of slow progress events resulting from climate change.





# Indicators



## Loss And Damage Indicators



- 8 Management
- 4 Economic Losses
- 4 Non Economic Losses

## Adaptation Indicators



- 2 Exposition
- 5 Sensitivity
- 14 Adaptive Capacity

**Methodological sheet for each indicator**  
objetive, source of infomation, linkages with  
NDC sectors, SDGs, among others.



# Climate change adaptation indicators

1. **Number of beneficiaries** of climate change adaptation projects
2. Percentage of chambers of commerce and industry and business associations **using climate change and/or adaptation information**
3. Working groups of governmental and non-governmental organizations that include adaptation to climate change
4. Tide gauges installed and in operation in coastal areas of the Atlantic and Pacific
5. **Existing meteorological stations** in the Republic of Panama, according to hydrographic basin, province and region.
6. Length of coasts under marine protection schemes in Panama
7. **Beneficiaries vulnerable to climate change, who have received support** to improve their livelihoods and sources of income
8. Number and value of physical assets that became more resilient to climate variability and change.
9. Investment tools and models that are responsive to climate change
10. **Number of planning instruments** integrating climate risks and adaptation to climate change
11. Municipalities with **local regulations** that consider adaptation to climate change and results of vulnerability assessments



## Climate change adaptation indicators

12. Weather-related power outage
13. Number of visits and interactions to the portal of the climate change adaptation fund and Social Networks in Panama
14. Reforested Area
15. Producers and hectares with crops insured against losses due to extreme weather events and slow evolution
16. Number of people strengthened and sensitized in adaptation to Climate Change
17. Built-up areas located on the floodplain
18. Percentage of consumptive and non-consumptive use of water
19. **Percentage of people permanently displaced** from their homes as a result of floods, droughts or sea-level rise
20. Integrating climate change into national planning
21. Percentage of dwellings with drinking water facilities inside the dwelling



## Loss and Damages Indicators

1. Number of affectations in water treatment plants in operation due to extreme hydrometeorological phenomena of rainfall and drought by province/region
2. Number of families benefiting from humanitarian aid after an extreme hydrometeorological event
3. Extreme or slow-progressing hydrometeorological events that have caused loss and damage to the tourism sector in coastal areas
4. Area affected by vegetation mass fires due to drought events
5. Number of municipalities affected by extreme weather events
- 6. Budget allocated** for the attention of extreme climatic events
7. Losses due to pests and pathogens per year
8. Number of places with evidence of coastal loss in Panama
9. Number of places with evidence of coral bleaching
10. Number of municipalities **implementing climate risk reduction** strategies.
11. National and international economic financing for climate risk management
12. Mangrove forest cover off the coast of Panama
13. Cattle killed by drought
14. Loss and damage to annual and permanent crop production
15. Damage to vital infrastructure from extreme weather events
16. Number of **households affected** by extreme weather events



Panama has the **National Climate Transparency Platform** which was established as an official mechanism for the management, monitoring, reporting and registration of national initiatives. In the specific case of the M&E system, there is a **monitoring and evaluation module** where the data providers include the necessary information to record the progress of the indicators.



## Challenges

The continuous provision of data by related entities

Maintaining institutional involvement

Analyze the information collected by the indicators and provide a report on how we have made progress in adaptation and what we should do to reduce losses and damages.

Continuously to improve the knowledge and skills installed in the ministry



## Next Steps

Continue strengthening our monitoring and evaluation systems

Analyze the information that all the indicators have and **understand where Panama stands** with respect to climate change adaptation and loss and damage.

Formalize our institutional arrangements to facilitate the sustainability of the M&E system.

Continue to explore some issues that could not be covered by the projects and that could improve our understanding of adaptation and loss and damage in Panama.



## First Biennial Transparency Report

### General Information on Climate Change Adaptation in Panama

- Identification of country priorities
- Analysis of barriers, challenges and gaps in adaptation
- Public Policies and Adaptation Strategies
- Socio-economic impacts due to climate change and adaptation needs
- Description of local adaptation projects

### Climate Vulnerability and Risk Information

- Update and Disclosure of Climate Change and Sea Level Rise ScenariosA
- Description of the main climate risks of the country and the studies carried out at the sectoral and/or local level.
- Climate Risk Management in Panama
- Advances of the National Climate Data System for decision making

### Monitoring and Evaluation Information

- Progress of the Adaptation Monitoring and Evaluation System and its implementation
- Progress in adaptation actions through indicators
- Analysis of information on loss and damage through the Monitoring and Evaluation System for the Registration of Loss and Damage

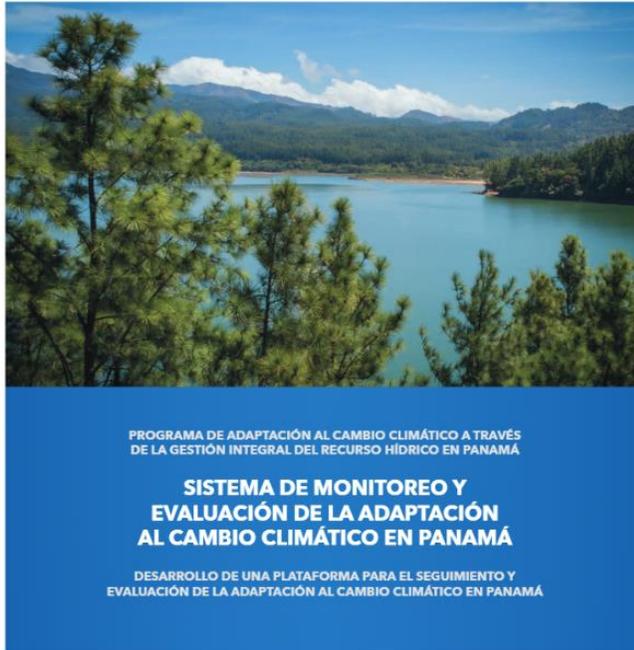


## Final Thoughts

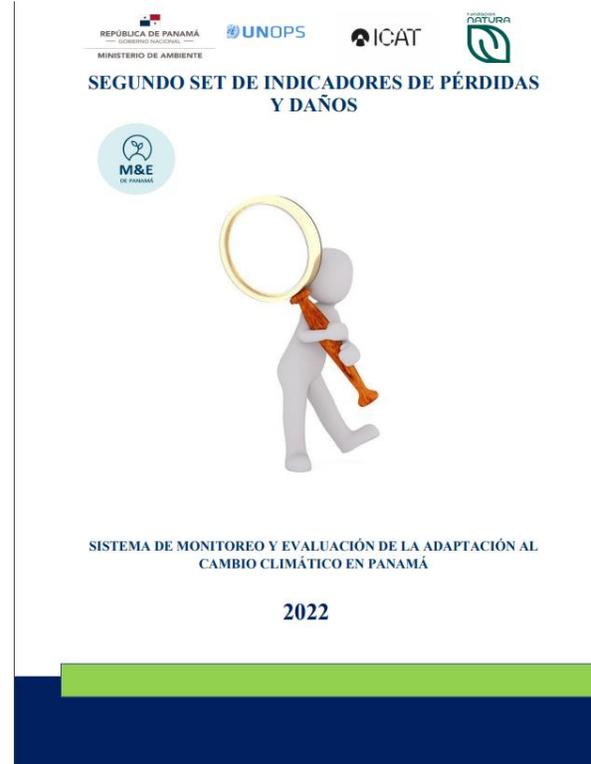
- Panama has begun a process of analyzing the data collected for each of the indicators in order to prepare **biannual reports** on the country's progress on adaptation and the situation with respect to losses and damages. To provide this national information through reporting instruments has proved to be beneficial **to assess progress on adaptation action at a global level.**
- The GGA's framework and possible set of targets and indicators **can guide countries to enhance their own indicators** to assess adaptation progress.
- Due to the information gathered on indicators related to displacements due to climate change, Panama has prioritize the development of a **National Strategy on internal forced displacement in Panama due to climate change**, evidencing that recollecting and analyzing adaptation and loss and damage indicators can guide a country to address and focus on key areas.
- The indicators for MyE Systems in Panama were built by **reviewing international indicators** including: GIZ, green climate fund, Adaptation Fund, SDGs, Sendai Framework, FAO, among others.

Resulting in **37 indicators**, which are based on the indicators of these entities and were adjusted according to the needs of the country and according to the information available.





<https://adaptacion.miambiente.gob.pa/sistema-de-monitoreo-y-evaluacion-de-la-adaptacion-al-cambio-climatico-en-panama/>



<https://climateactiontransparency.org/wp-content/uploads/2023/02/2.2-Segundo-Set-de-indicadores.pdf>

## Documents





# THANK YOU!



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