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Adaptation to Climate Change in Colombia

Effective institutional arrangements for NAP formulation and implementation

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Ministry of the Environment and Sustainable Development
Colombia

NAP Expo 2014
Catalyzing actions and support for the NAP process

Bonn, August 2014



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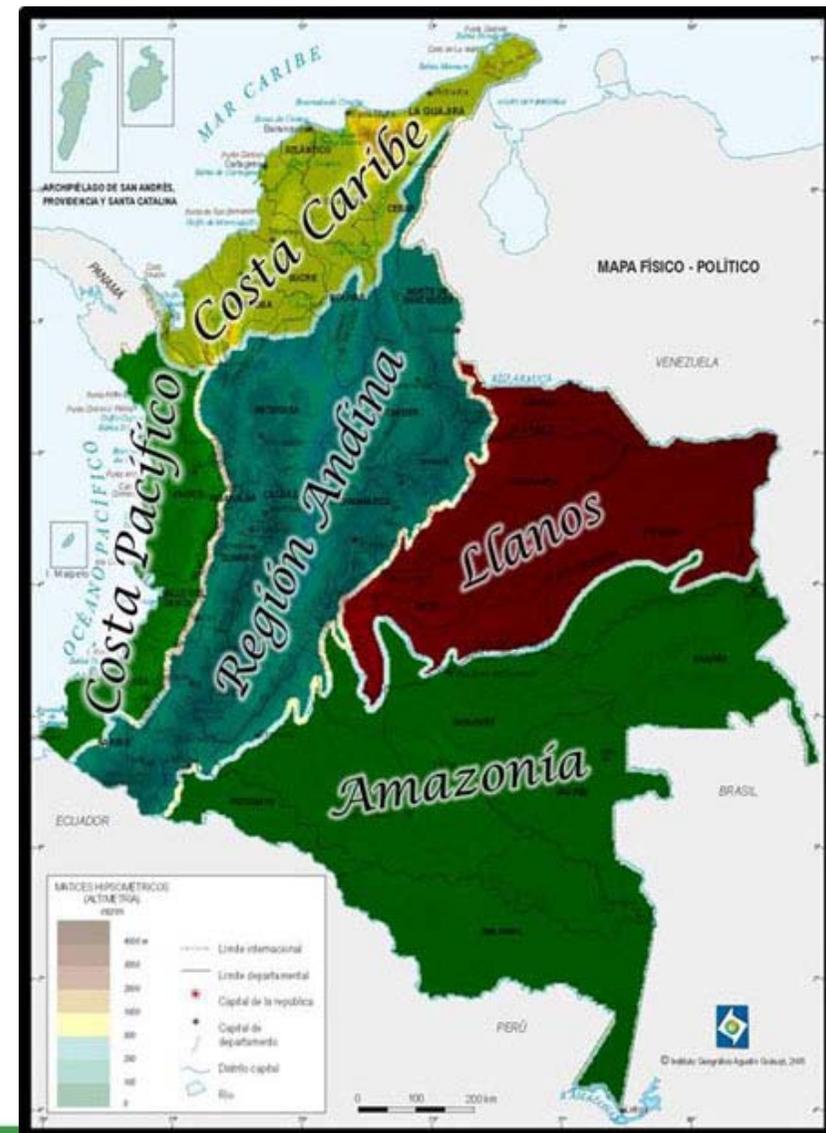
CONTENT

1. Colombia
2. Climate impacts in Colombia
3. Colombian Priorities in Climate Change
4. Institutional Arrangement – Conpes 3700/2011
5. Colombian National Adaption Plan
6. Next steps/challenges
7. Lessons learned



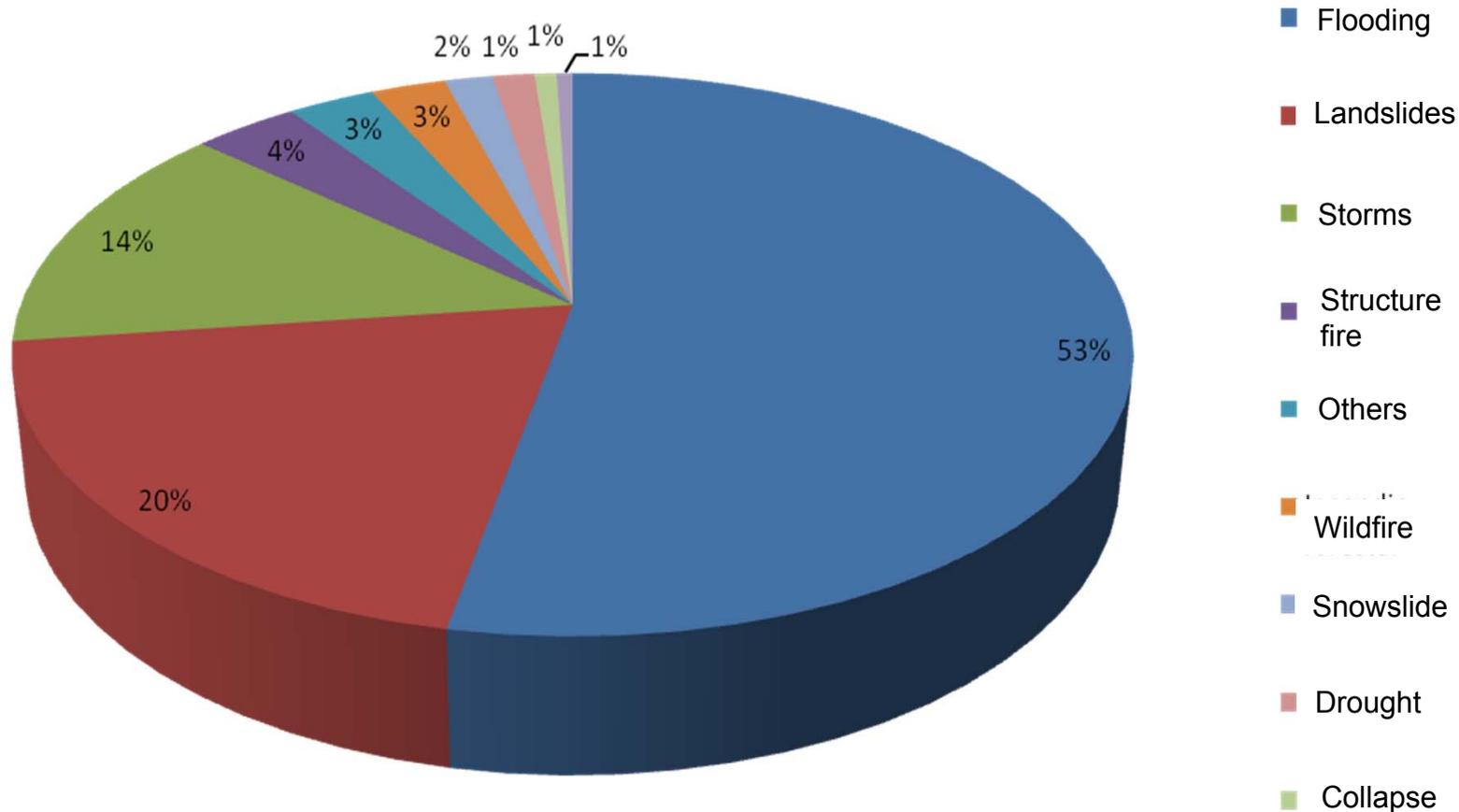
COLOMBIA

- Colombia is located in the north-west corner of South America
- Colombia's total area is 2,070,408 km² (1,141,748 km² of mainland and 926,660 km² of territorial waters)
- Colombia's population is aprox. 48 million people
- Equatorial country which climate is determined by trade winds, humidity and altitude – the temperature drops as the altitude increases.





90% of the emergencies are related to hydroclimatological phenomena



Total emergencies arranged by type

Period 1998-2012



NO BEING ABLE TO ADAPT HAS ITS TOLL

NIÑA PHENOMENON 2010-2011



Sabana de Bogotá (BM 2012)



Canal del Dique (BID, CEPAL & DNP 2011)

The road infrastructure and housing sectors concentrated 76% of the damage, estimated in \$4,7 billion USD

- 3,5 millions of hectares flooded
- More than 3,2 millions affected people
- More than 450 casualties, more than 560 injured and at least 85 disappeared
- 557,377 houses damaged
- More than 13.000 homes destroyed
- 845 roads closed in the country

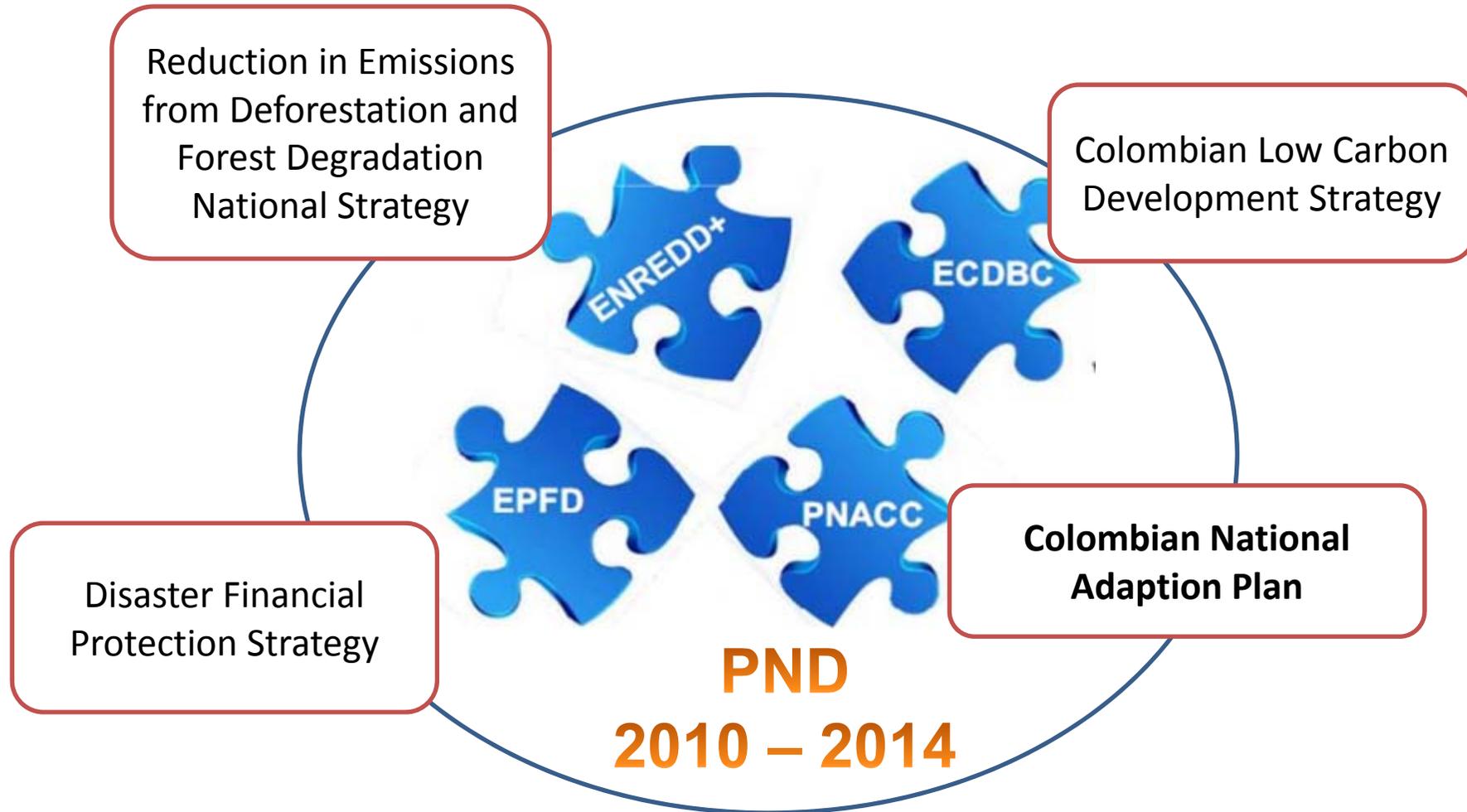
The total cost of the Niña Phenomenon 2010-2011 was estimated in \$6,2 billion
USD = 2,2% del PIB / 2011



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3. PRIORITIES OF CLIMATE CHANGE IN COLOMBIA





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4. INSTITUTIONAL ARRANGEMENT

CONPES 3700

14/07/2011

***“INSTITUTIONAL STRATEGY AND POLICY JOINT ACTIONS ON
CLIMATE CHANGE IN COLOMBIA”***

**Proposed the creation of the National Climate Change System
SISCLIMA**

* CONPES: National Council for Economic and Social Policy



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PRINCIPAL OBJECTIVE OF THE SISCLIMA

Define an intersectoral scheme to facilitate and promote the formulation and implementation of policies, plans, programmes, methodologies, incentives and projects related to climate change, mainstreaming climate into the design and planning of development projects in the country.

4. INSTITUTIONAL ARRANGEMENT

ADAPTATION FUND





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5. NATIONAL ADAPTION PLAN OF COLOMBIA - PNACC

NATIONAL ADAPTATION PLAN



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5. NATIONAL ADAPTION PLAN OF COLOMBIA - PNACC

General objective

Reduce risk and socio-economic impacts associated to variability and climate change



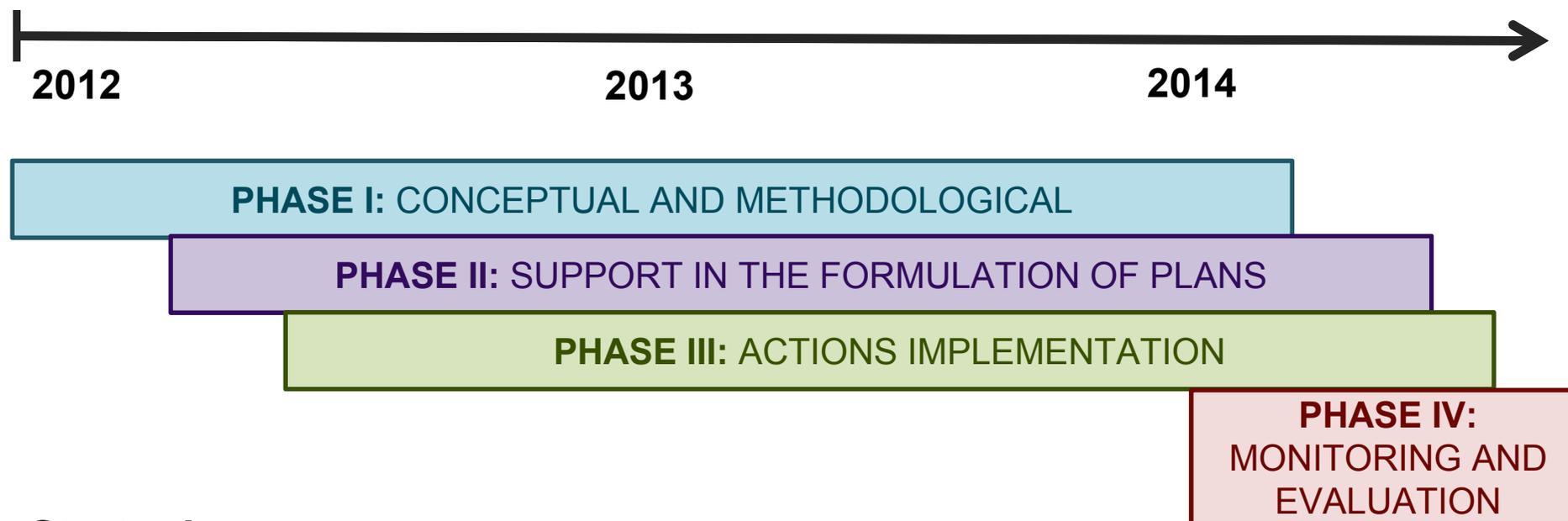
Specific objectives

- ✓ Generate awareness about the potential risks and opportunities associated with climate change and variability
- ✓ Incorporate the management of climate risks in the planning of sectoral and territorial development
- ✓ Reduce the vulnerability of socio-economic and ecological systems to climate events





PHASES



Strategic axes

1. Biodiversity and ecosystem services
2. Water resource and coastal areas
3. Resilient food systems
4. Basic infraestructure
5. Productive sectors





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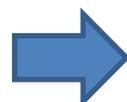
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5. NATIONAL ADAPTION PLAN OF COLOMBIA - PNACC

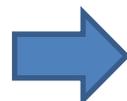
**PHASE I: CONCEPTUAL AND
METHODOLOGICAL**



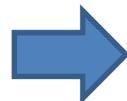
Definition of methodological inputs and
guidelines to illustrate adaptation to climate
change



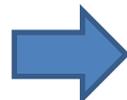
ABC: Adaptation Conceptual Bases



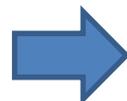
**Roadmap for adaptation of
territorial and sectoral plans**



Guidelines for Community based Adaptation



Guidelines for mainstreaming climate change
into land planning instruments



Guidelines to assess climate risks



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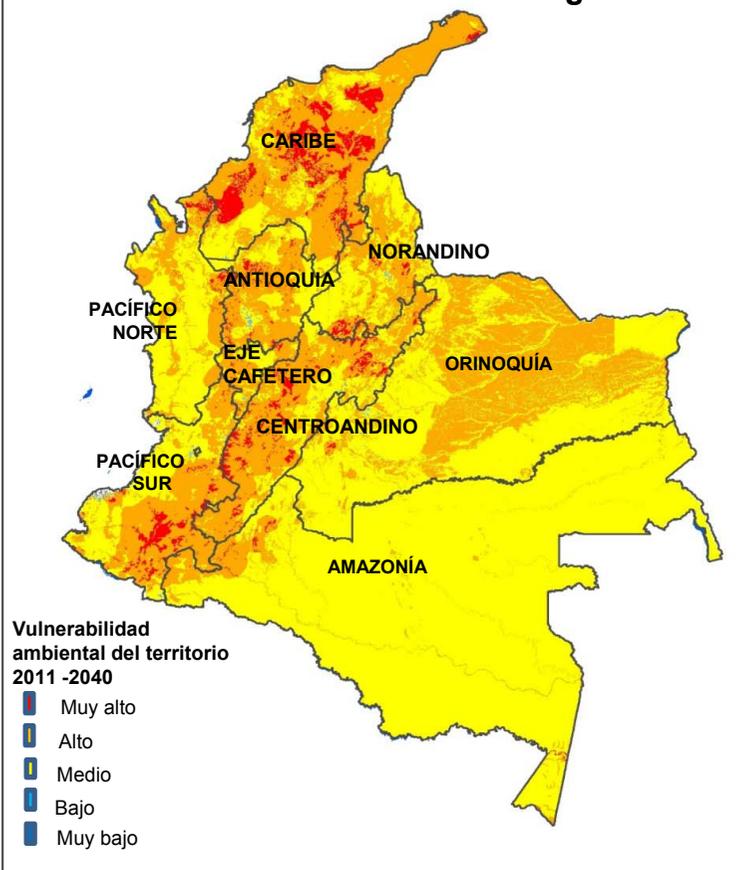
5. NATIONAL ADAPTION PLAN OF COLOMBIA - PNACC

**PHASE II: SUPPORT IN THE
FORMULATION OF PLANS**



Support regional and local governments, environmental authorities and sectors in the formulation of territorial and sectoral plans

Territorial and sectoral climate change nodes



Regional institutional arrangement

Territorial and sectoral climate change nodes (9):

Interinstitutional and interdisciplinary spaces to work together for common goals exchanging experiences and developing adaptation measures



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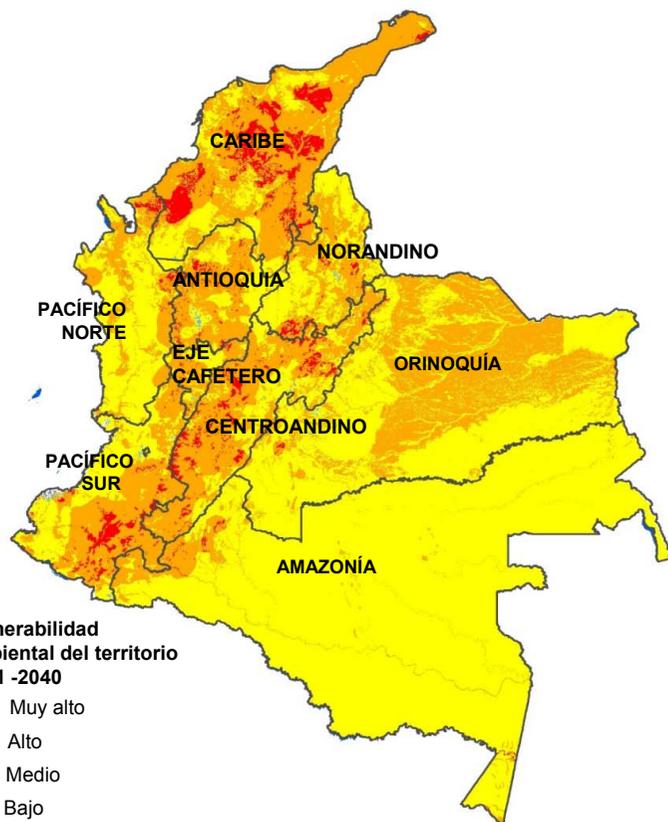
5. NATIONAL ADAPTION PLAN OF COLOMBIA - PNACC

**PHASE II: SUPPORT IN THE
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Territorial and sectoral climate change nodes



11 territorial adaptation plans (50%)

- 2 under implementation
- 3 formulated
- 6 under formulation (Dec 2014)





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**PHASE II: SUPPORT IN THE
FORMULATION OF PLANS**



Support regional and local governments, environmental authorities and sectors in the formulation of territorial and sectoral plans

Agriculture



Health



Energy



Transport



Housing



- **5 prioritized sectors** have started the formulation of their adaptation plans
- **Study of the Economic Impacts of Climate Change in Colombia** in the sectors of:
 - Livestock
 - Agriculture
 - Forestry
 - Fishing
 - Transportation
 - Water resources
 - Native species for commerce and other uses

No action today, could be equivalent of losing 3,6 to 3,7 times the GDP of 2010
Losses equivalent to \$US 6.2 million (La Niña 2010-2011) every four years



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**PHASE IV: MONITORING AND
EVALUATION**



Adaptation Project Submitted to the *Climate Technology Centre and Network - CTCN*

Development of a National System of Indicators for Climate Change Adaptation

- Develop a System of Indicators that allows the monitoring and evaluation of the implementation of Climate Change Adaptation Actions, monitoring changes (reduction of exposure, sensibility and increase in adaptive capacity) in specific regions/cities of the country, including a geographical component that would offer the opportunity to make regional analysis of vulnerability and watch over the progress of implemented actions.
- The development of the project aims to close the gaps between information and verification with the help of a System of Indicators.



Next steps/challenges

- Formulation of the missing territorial and sectoral plans
- Implementation of the formulated territorial and sectoral adaptation plans
- Climate Change Law
- National Climate Change Policy
- Mainstreaming climate change into land, environmental and sectoral planning
- Financial strategy in order to fund the implementation of adaptation plans



Lessons learned

- From the national level is fundamental to generate information (technical outputs) in order to facilitate decision-making in the regions
- Each region has their own complexities and needs that governments should take into account
- Adaptation should be a bottom-up process that national government should support
- There is an important need to develop an education and communication strategy
- Capacity building at the national, regional and local level
- Adaptation to climate change needs to be a cross-cutting issue
- Adaptation planning should be hand-by-hand with other processes such as SDG in order to achieve a climate compatible development
- Learning by doing



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Adaptation Group

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