



# MRV and Accounting approaches Colombia

## Partnership on Transparency in the Paris Agreement

*6th Annual Retreat  
September 6<sup>th</sup>, 2017*

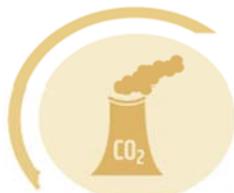


## Agenda

---

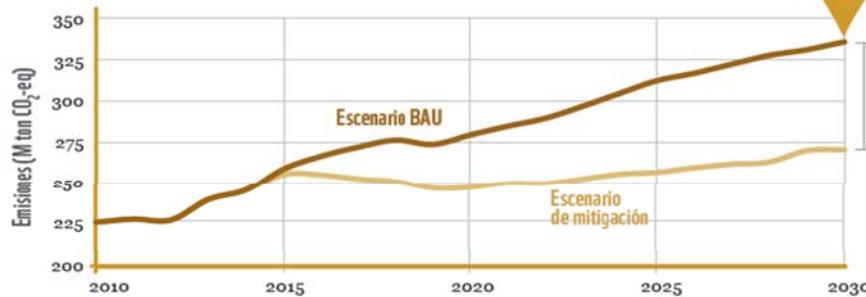
- The NDC mitigation target of Colombia
- National MRV approach
- Five steps accounting methodology in Colombia
- Institutional Arrangements - SISCLIMA
- Information systems
- Next steps

## Colombia mitigation goal in the COP 21



Unilateral and unconditional goal

### Mitigation Goal



Reduction of  
20%  
of BAU



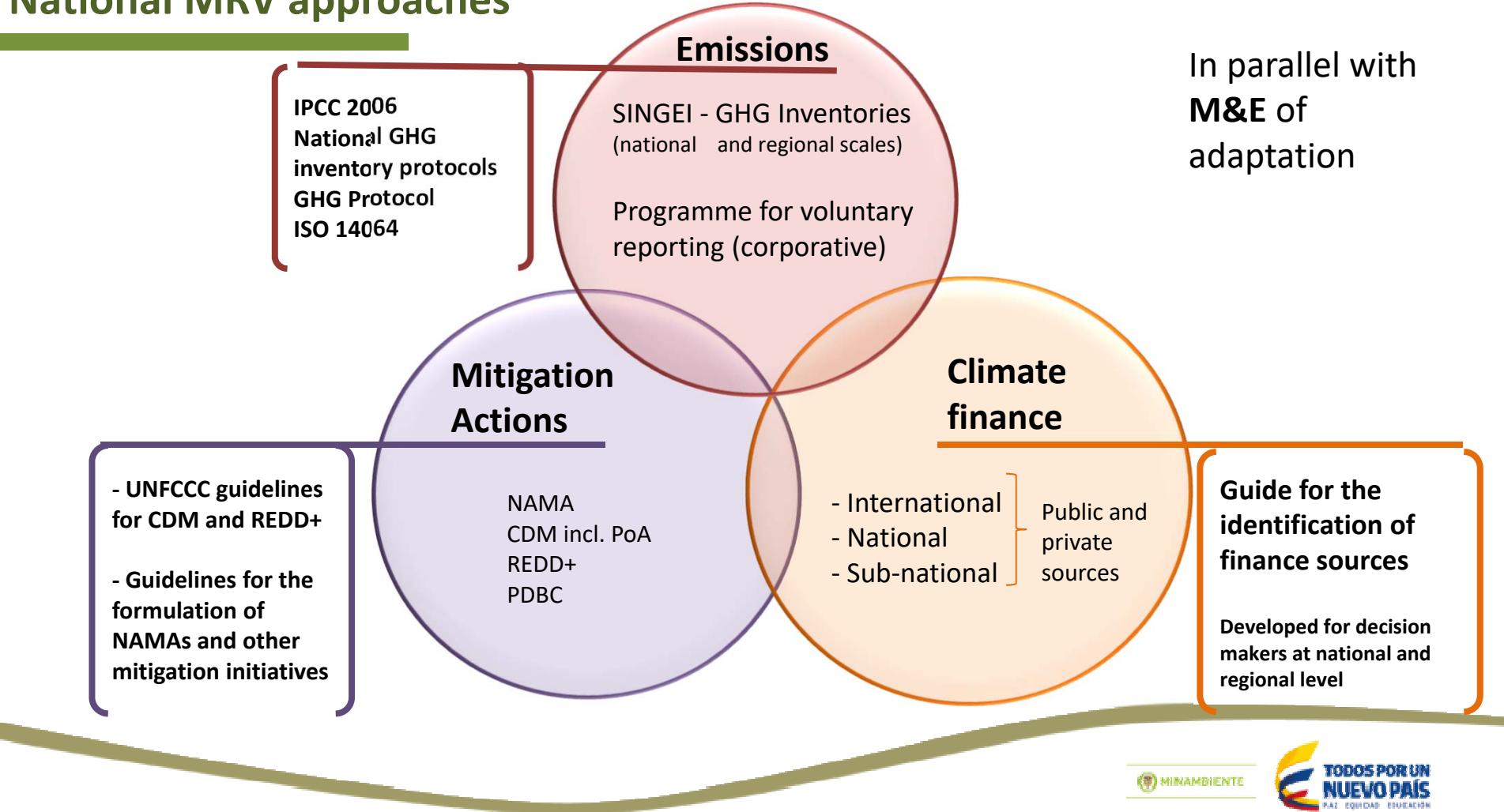
2010  
Base year



SCOPE  
Economy wide goal

**The NDC mitigation target of Colombia for 2030, is a reduction of APPROXIMATELY 670 million tons of CO<sub>2</sub>-e in the period 2015-2030.**

# National MRV approaches



# National MRV Approach



## GHG Emissions

- Design of SINGEI
- Synergies with other national information systems
- Voluntary corporate reporting program
- 3 NCs – 2 BURs



## Mitigation actions

- National Registry of mitigation actions
- Accounting rules
- Carbon tax law
- Guidelines for the formulation of NAMAs and other mitigation initiatives

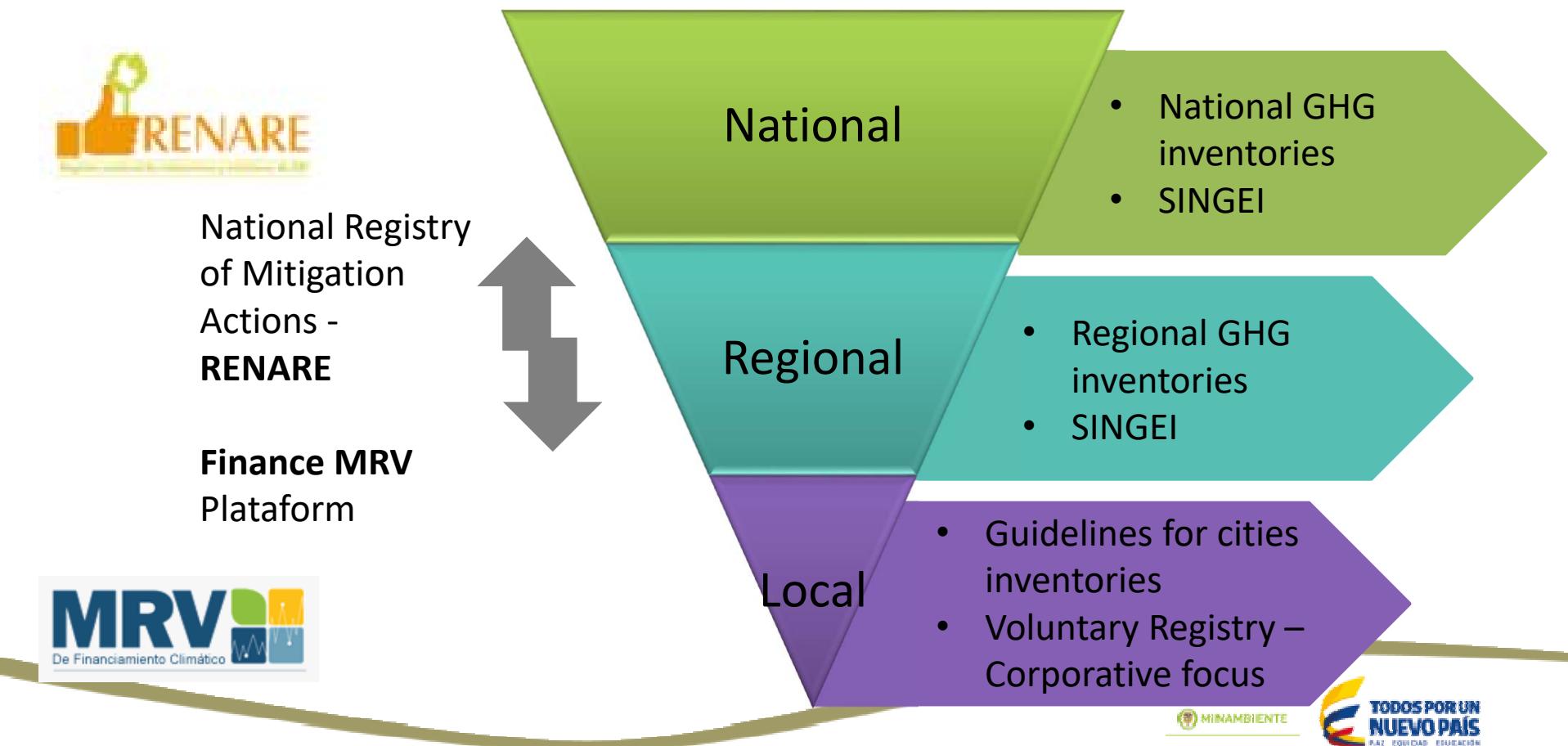


## Climate finance

- Climate investment from different sources
- Guide for the identification of finance sources

- Conceptualization. 2015-2016
- Protocols and guidelines. 2015-2016
- First technologic developments. 2016
- Registry for data collection and analysis platforms. 2016
- Articulation with Carbon tax (Decree 926 of 2017)

## Scales of information



## 5 STEPS Methodology - NDC Accounting

---

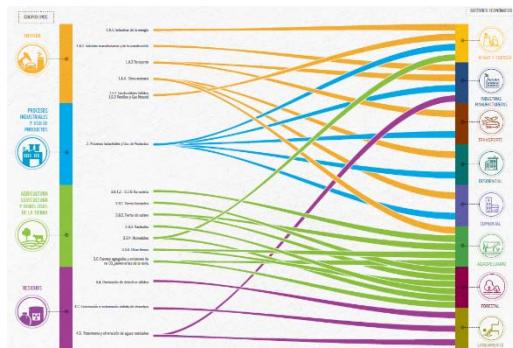
- **STEP 1.** To detail the NDC target
- **STEP 2.** To choose a calculation method for NDC tracking
- **STEP 3.** To define data needs for the NDC tracking
- **STEP 4.** To define the institutional structure/arrangements
- **STEP 5.** Implementation and tracking

## STEP 1. Detail the NDC target (1)

---

- Calls between GIZ experts and technical groups of Colombia
- Technical work
- Data mining
- Workshop with sectorial experts and GHG inventory team

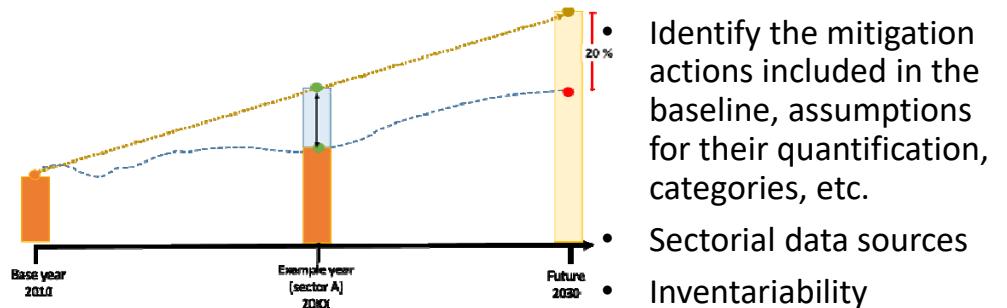
## STEP 1. Detail the NDC target (2)



### GHG national and sectorial emissions - baseline

- To understand national GHG inventory data (Clarify data sources, base year, categories, emission factors, activity factors, etc.)
- Methodological changes between GHG emission inventories (2010 – BUR and 2012- Third National Communication)

### Policies and actions – mitigation scenario



### Projections and assumptions

- Drivers (population growth, GDP and fuel prices)
- Methodology
- Key stakeholders

## STEP 2. Choose a calculation method for tracking the NDC

Baseline deviation on the year (t)

$$\text{Progress } (t) = \frac{\text{BAU} - \text{GHG Inventory}}{\text{BAU}}$$

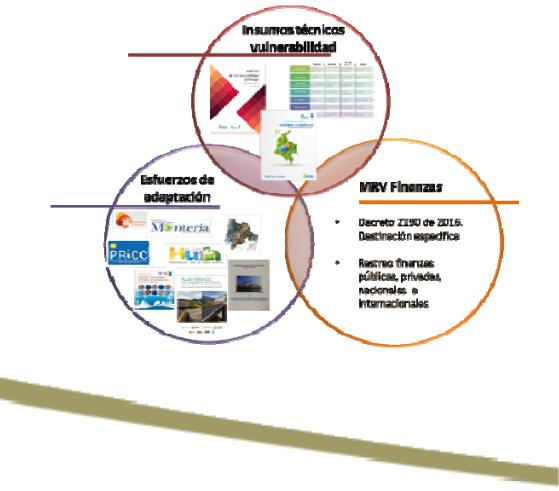
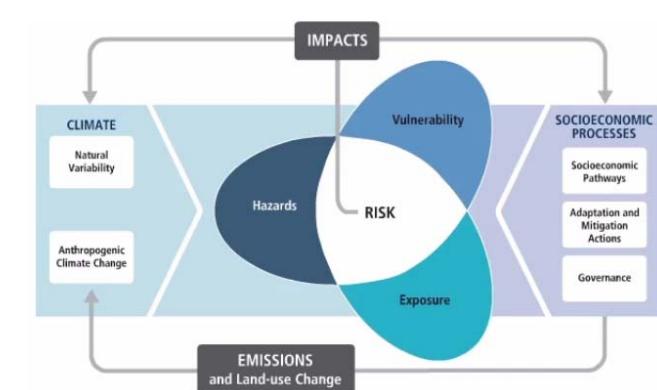
Baseline deviation on the year (t) alternative methods using impacts of mitigation actions and policies

$$\text{Progress } (t) = \frac{\text{Impacts}_{\text{mitigation act\&pol}}}{\text{BAU}}$$

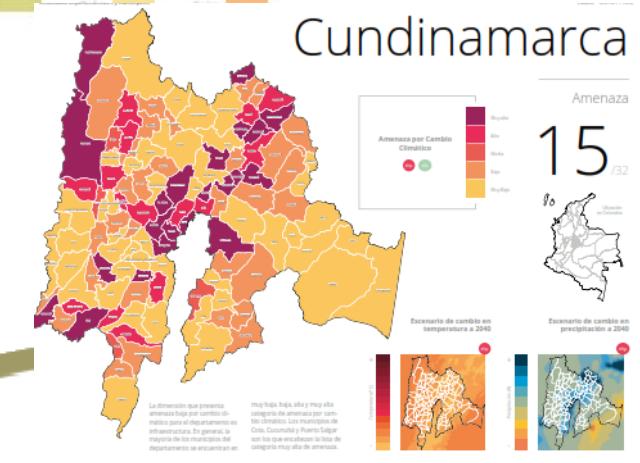
$$\text{Progress } (t) = \frac{\text{Impacts}_{\text{mitigation act\&pol}}}{\text{GHG Inventory} + \text{Impacts}_{\text{mitigation act\&pol}}}$$



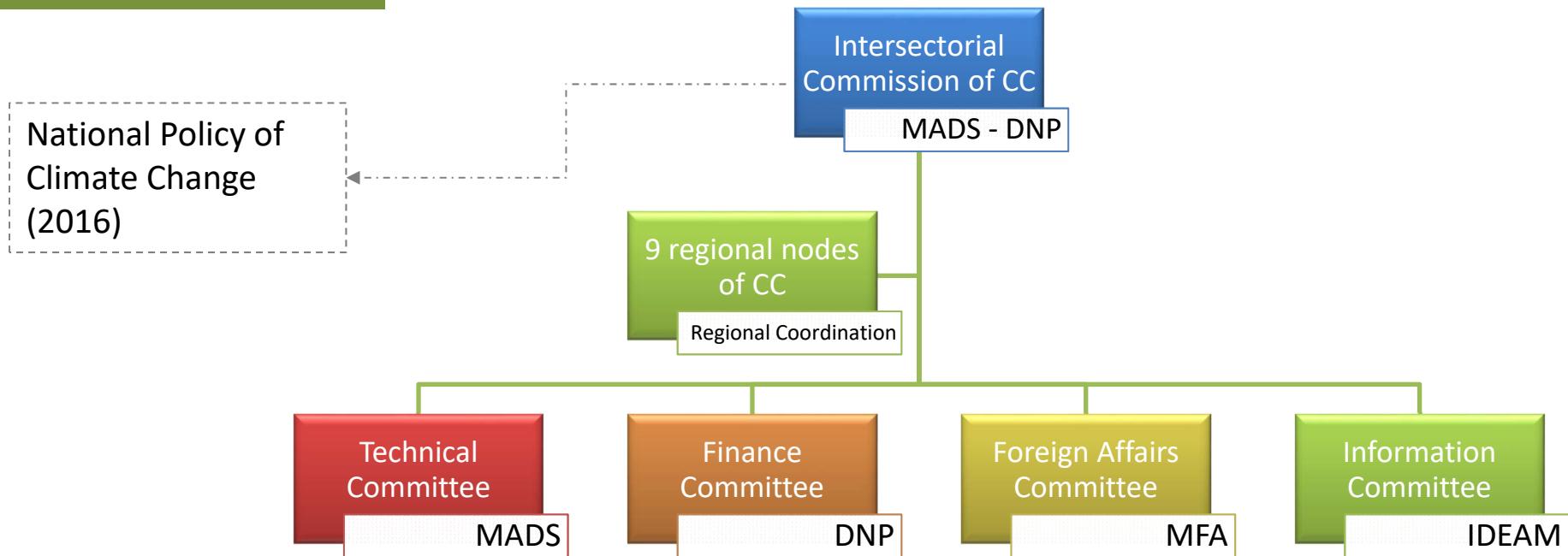
# Adaptation approaches in parallel



	Exposición	Sensibilidad	Capacidad Adaptativa	Riesgo
Biodiversidad y Servicios Ecosistémicos	Probabilidad de cambio de los ecosistemas a partir de cambios en Ti y P	Conflictos uso del suelo	Representatividad Áreas prioritarias Restauración	Riesgo por colapso de ecosistemas
Recurso Hídrico	Económica Andes, Actual y Futura	Presión sobre el recurso Agua no retorna a la pluvia	Recuperación de cuencas Uso eficiente de aguas	Desabastecimiento hídrico
Agropecuario y Seguridad Alimentaria	Áreas cultivables en zonas con pérdida de aptitud	Aptitud climática del cultivo Monocultivos	Diversificación Fincas rurales Diversificación de cultivos	Desabastecimiento Perdidas para agricultores
Infraestructura	Diferentes tipos de infraestructura	Diseño no resiliente (maletas, bracido) Mal mantenimiento	Resiliente Mantenimiento	Alfabetización y pérdidas
Energía	Kwh producido	Matriz energética Capacidad de almacenamiento	Diversificación Intensidad energética	Desabastecimiento Aumento costos kw-h
Hábitat Humano	Individuos, casas en zonas de riesgo frente a diferentes amenazas	Calidad/condiciones de vida	Mejorar condiciones de vida, educación	Mortalidad Desplazamiento
Salud	Población susceptible al riesgo	Acceso a servicios de salud	Educación, Prevención Asistencia emergencias cobertura de atención	Mortalidad y morbilidad



# National Climate Change System - SISCLIMA



**MADS:** Ministry of Environment and Sustainable Development

**DNP:** National Planning Department

**MFA:** Ministry of Foreign Affairs

**IDEAM:** National Institute of Hydrology, Meteorology and Environmental Studies

## NEXT STEPS

- To apply steps 2, 3, 4 and 5 of the methodology
- To involve key stakeholders at technical and high level (leadership)
- To keep looking for synergies with sub-national, sectorial and national systems
- To establish institutional arrangements
- To improve sectorial and regional data
- To ensure interoperability among systems



# Thanks!

Camila Rodríguez Vargas  
[DCRodriguez@minambiente.gov.co](mailto:DCRodriguez@minambiente.gov.co)  
Climate Change Directorate

Paula Andrea Lopez Arbelaez  
[plopez@ideam.gov.co](mailto:plopez@ideam.gov.co)  
Global Change Division

