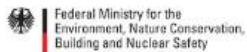




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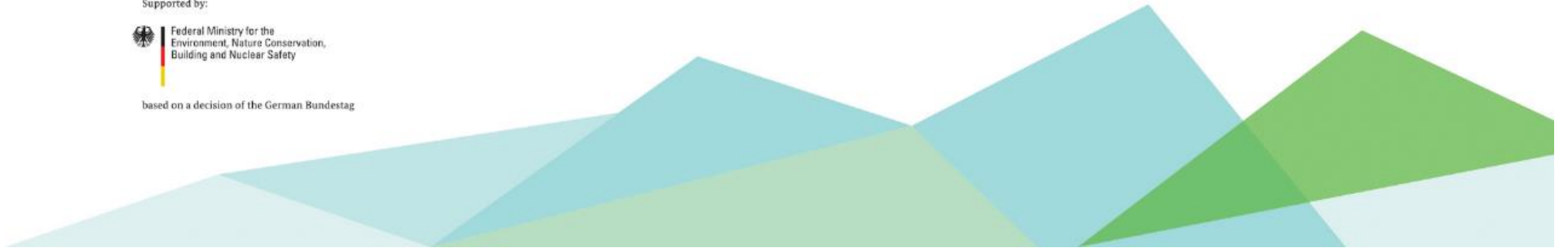
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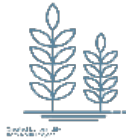
based on a decision of the German Bundestag

## Integrating Agriculture in National Adaptation Plans

# NATIONAL ANALYSIS OF CLIMATE RISK AND VULNERABILITY OF THE AGRICULTURE SECTOR TO IDENTIFY ADAPTATION INDICATORS FOR THE NATIONAL SYSTEM OF CLIMATE CHANGE



100% of the national territory covered by climate change plans formulated and being implemented



15 of the country's departments participating in the technical working groups on climate and agriculture, articulated with the national working group and 1 million producers receiving agroclimatic information to facilitate decision-making in agricultural activities.

Water resource management tools, which include climate change and variability considerations, will be in place for the country's priority water basins



Six (6) priority sectors of the economy (transport, energy, agriculture, housing, health, and trade, tourism and industry) will include climate change considerations in their planning instruments and will be implementing innovative adaptation actions

Strengthening of the awareness, training and public education strategy on climate change, focusing on different stakeholders of the Colombian society

Delimitation and protection Colombia's 36 "paramo" areas (high mountain Andean ecosystems) (approximately 3 million hectares).

Increase of more than 2.5 million hectares in coverage of newly protected areas in the National System of Protected Areas -SINAP-, in coordination with local and regional stakeholders



10 subsectors of the agricultural sector such as rice, coffee, livestock and silvopastoral, with improved capabilities to adapt appropriately to climate change and variability.

Inclusion of climate change considerations in projects of national and strategic interest - PINES-



A National System of Adaptation Indicators that allows the M&E of the implementation of adaptation measures

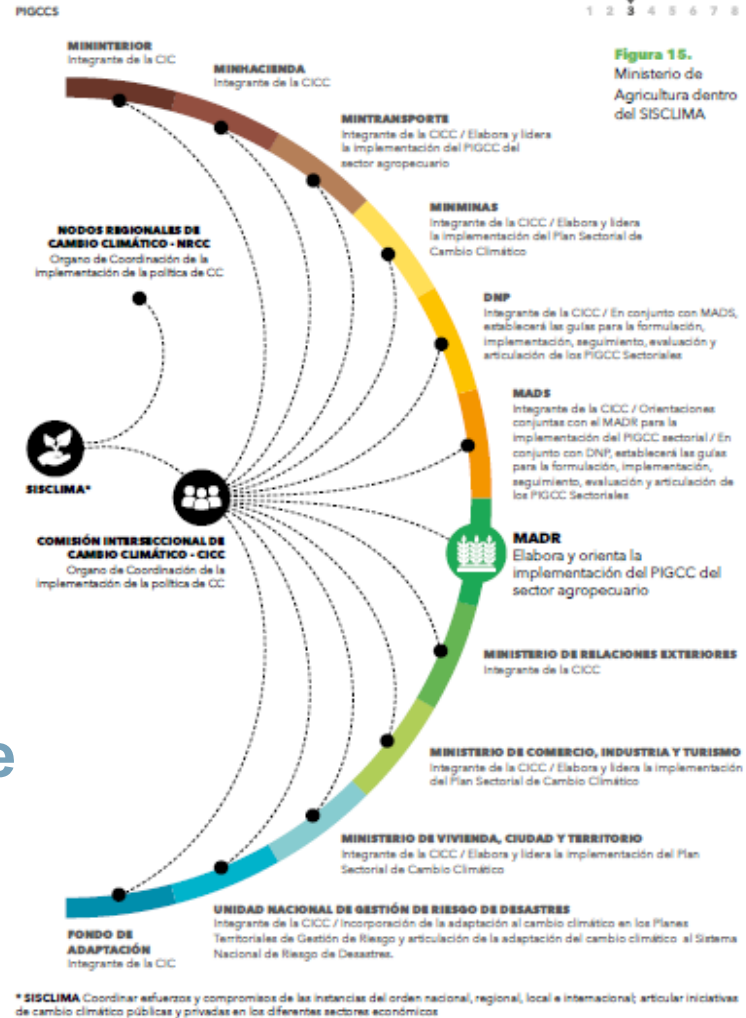
**NDC**  
*Adaptation*



# National Climate Change System

## Inter Sectoral comisión on CC

### Information Comitee



# Climate Change Information System

## SIAC –Environmental Information System-

Climate Change Information System

Other Subsistems (sectorial or territorial)

MRV System

Tracking Climate Finance System

M&E System

Climate information sub-systems



RENARE: Registry of mitigation actions

SINGEI: GHG Inventories System

SNIF: Forestry Information System

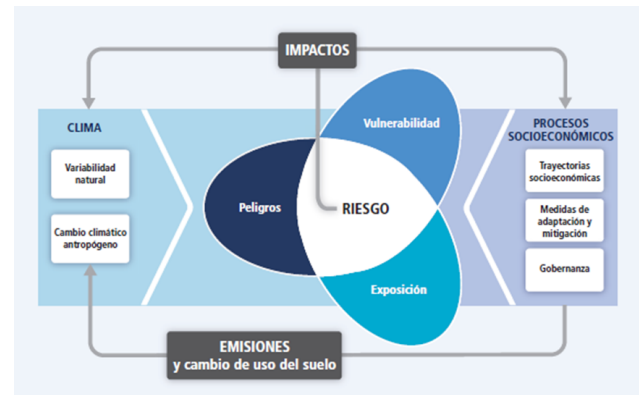
SNMByC: Carbon and forest Monitoring System

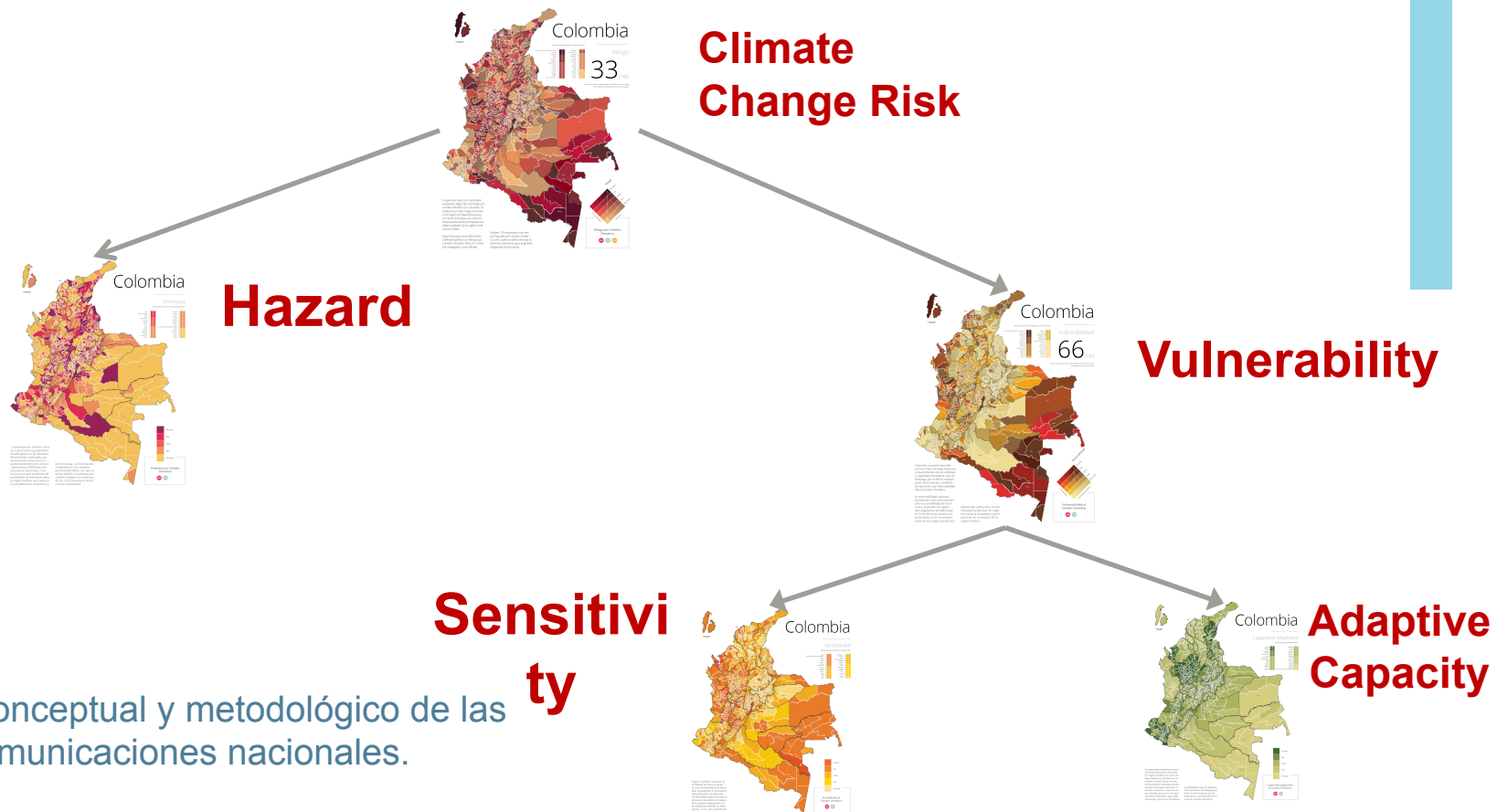
Tools and instruments



# Marco conceptual y metodológico de las comunicaciones nacionales en armonización con IPCC.

$$R_{cc} = \Delta A(E) * S / CA$$





Marco conceptual y metodológico de las comunicaciones nacionales.

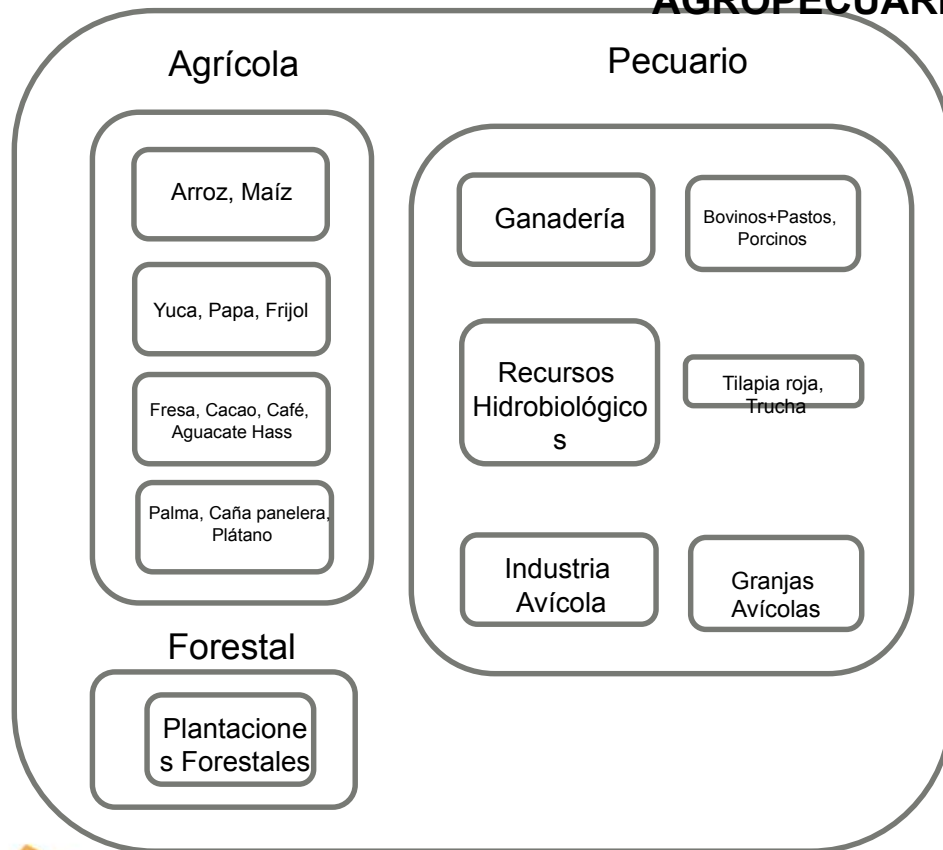


Organización de las Naciones Unidas para la Alimentación y la Agricultura

Presentado por el  
 Ministerio de  
 Ambiente, Urbanismo, Planeación de la Infraestructura,  
 Obras Públicas y Seguridad Nacional  
 en virtud de una resolución del  
 Poder Judicial de la Federación de Colombia



## ESPECIES Y CADENAS PRIORIZADAS POR EL SECTOR AGROPECUARIO



Selected value chains



# Data Sources

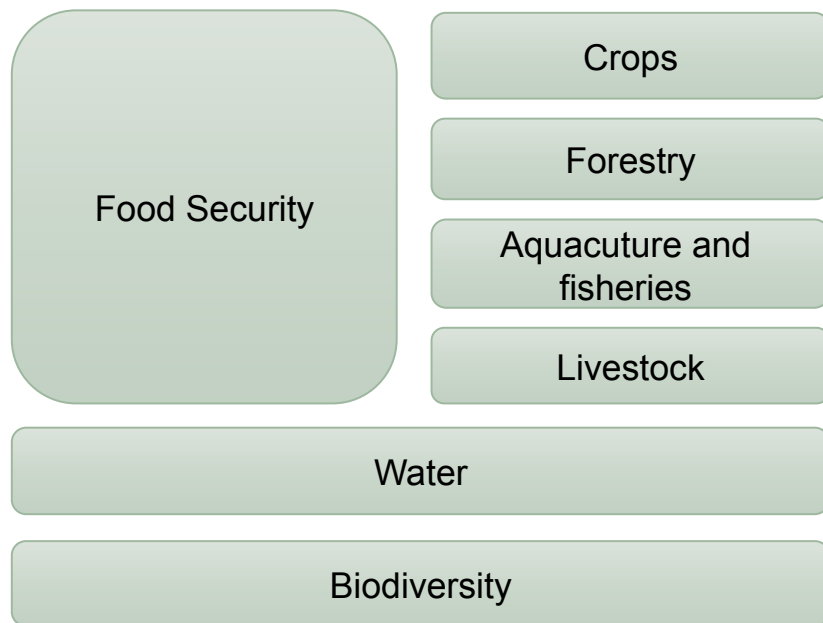
IDEAM (SIAC)	UPRA	AGROSAVIA ICA FINAGRO	AUNAP	Sustainable Livestock Roundtable	DANE (National Agriculture Survey)	DNP (National Planning Department)
Climate change scenario RCP 6.0 at 2040 Water, Biodiversity (vegetal cover, ecosystems), soil (degradation by salinity and erosion)	Aptitude zonification for agricultural systems.  Agricultural frontier	Optimal temperature and precipitation ranges for productive systems	Fish and aquaculture production data	Livestock and grassland data	Socio-economic information. Crop Production practices	Socio-economic information. Institutional information by municipalities





# Indicators

## Dimensions



Hazard	Vulnerability	
	Sensitivity	Adaptive Capacity
16	12	8
5	7	3
6	11	4

# Integrating Agriculture in National Adaptation Plans NAP-Ag

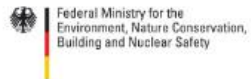
Safeguarding livelihoods and promoting resilience  
through National Adaptation Plans (NAPs)

# SENSITIVITY



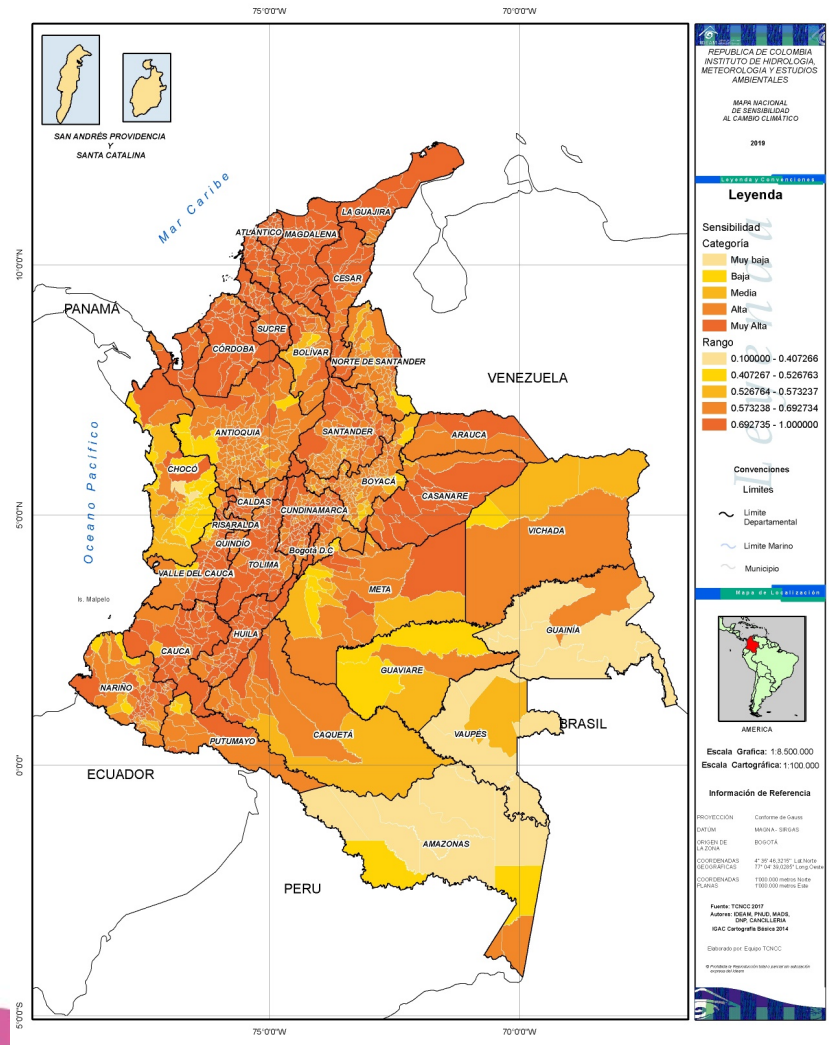
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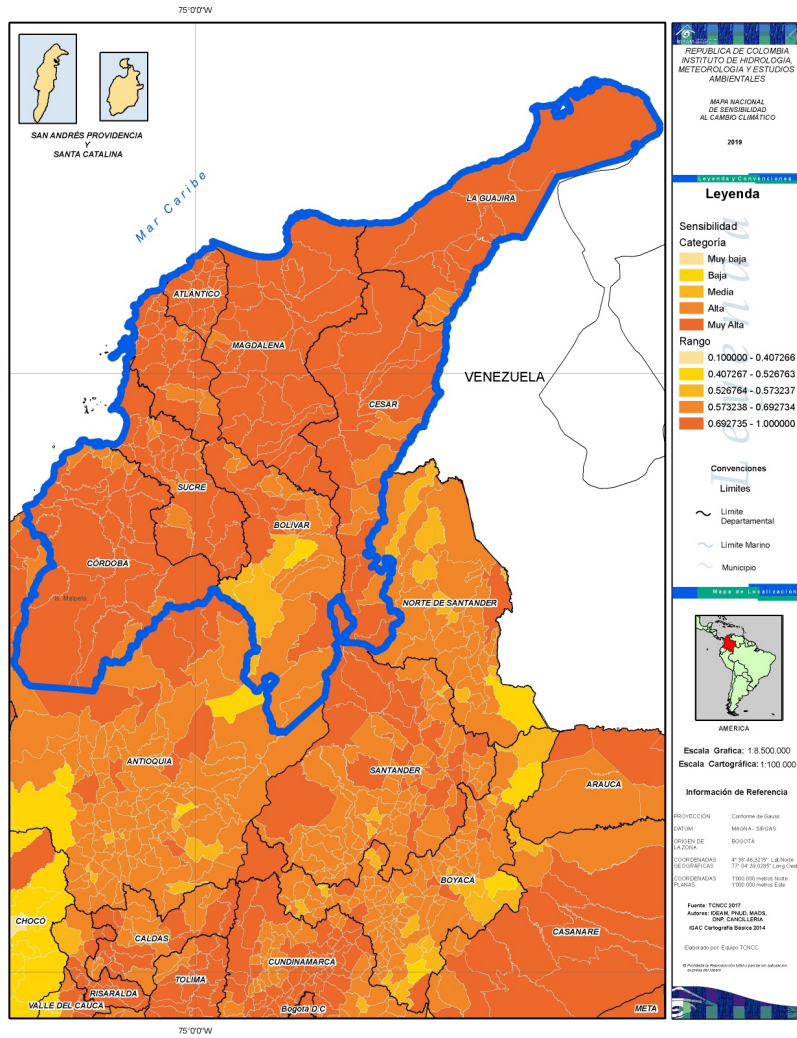
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# Integrating Agriculture in National Adaptation Plans NAP-Ag

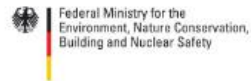
Safeguarding livelihoods and promoting resilience  
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# ADAPTIVE CAPACITY



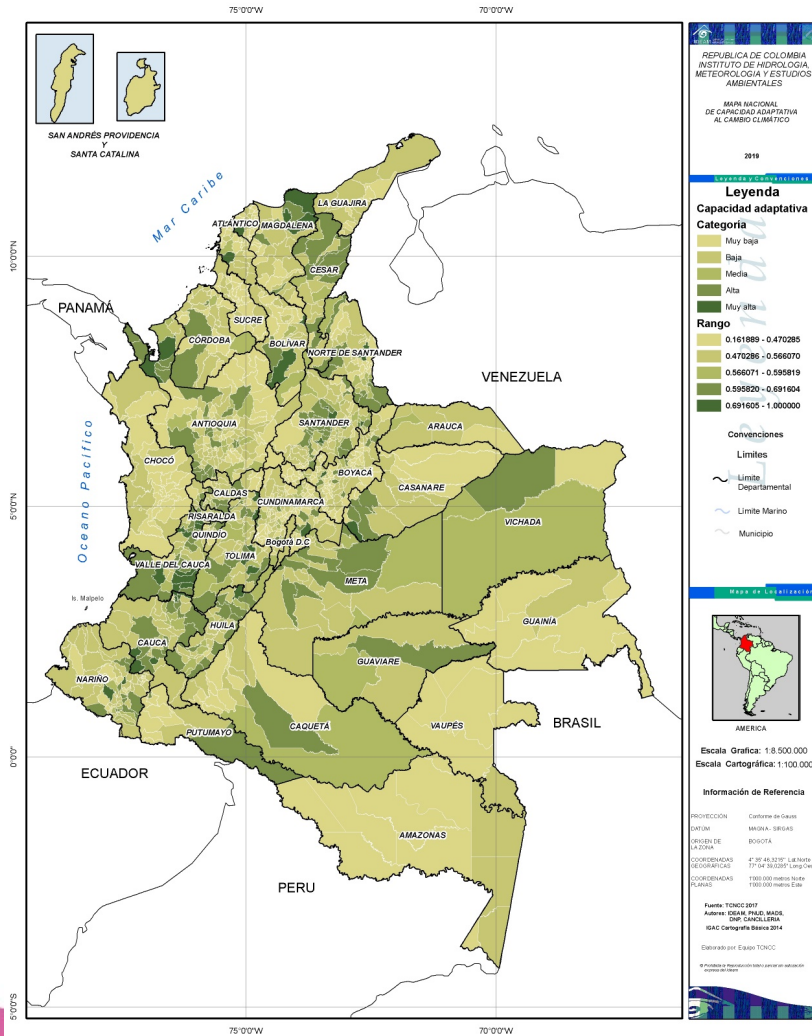
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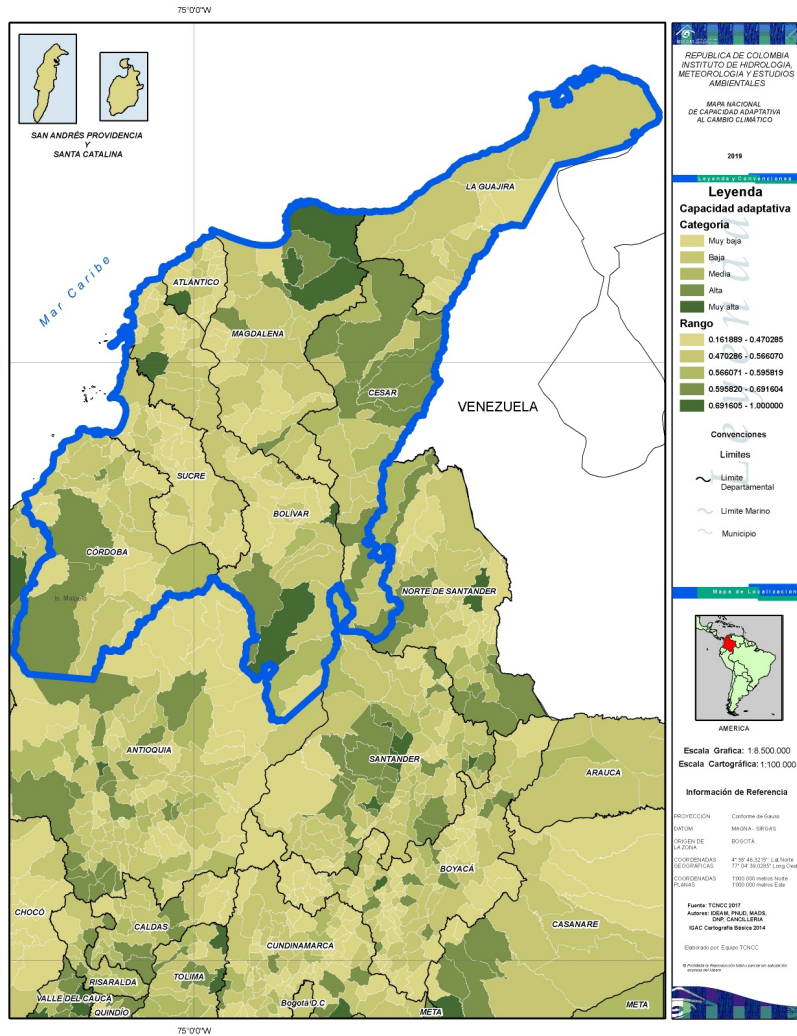
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# Integrating Agriculture in National Adaptation Plans NAP-Ag

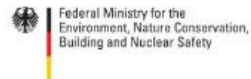
Safeguarding livelihoods and promoting resilience  
through National Adaptation Plans (NAPs)

# *VULNERABILITY*



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Resilient nations.

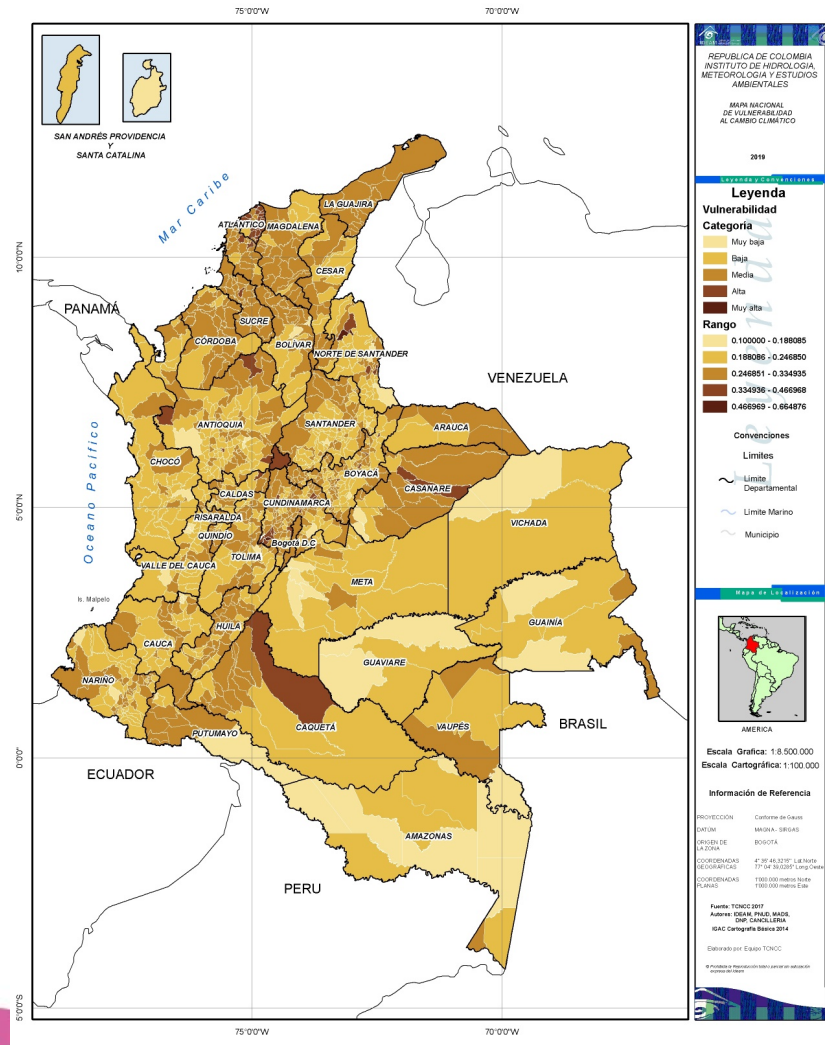
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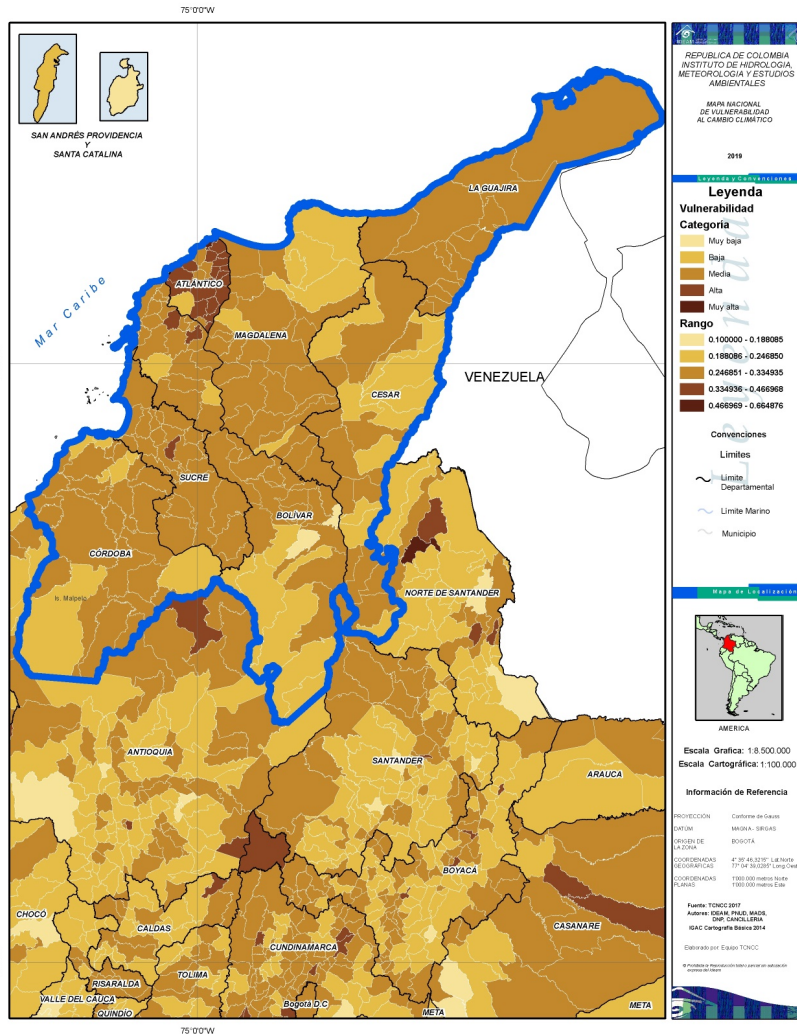


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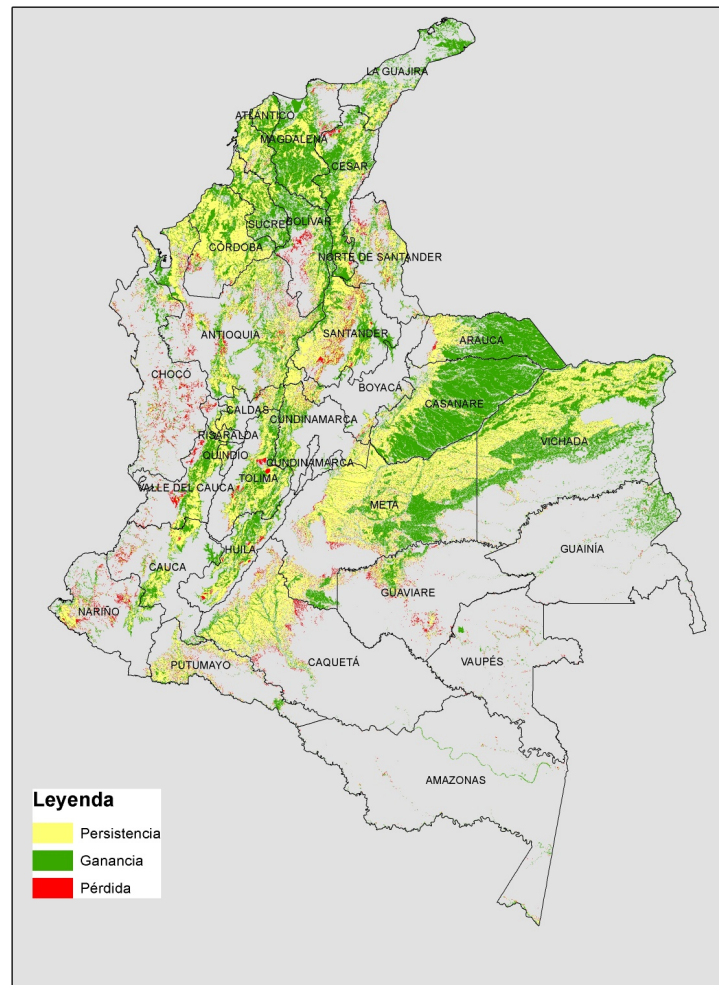


# CACAO

Changes on climatic optimal áreas for  
Development of crops to 2040



# CACAO

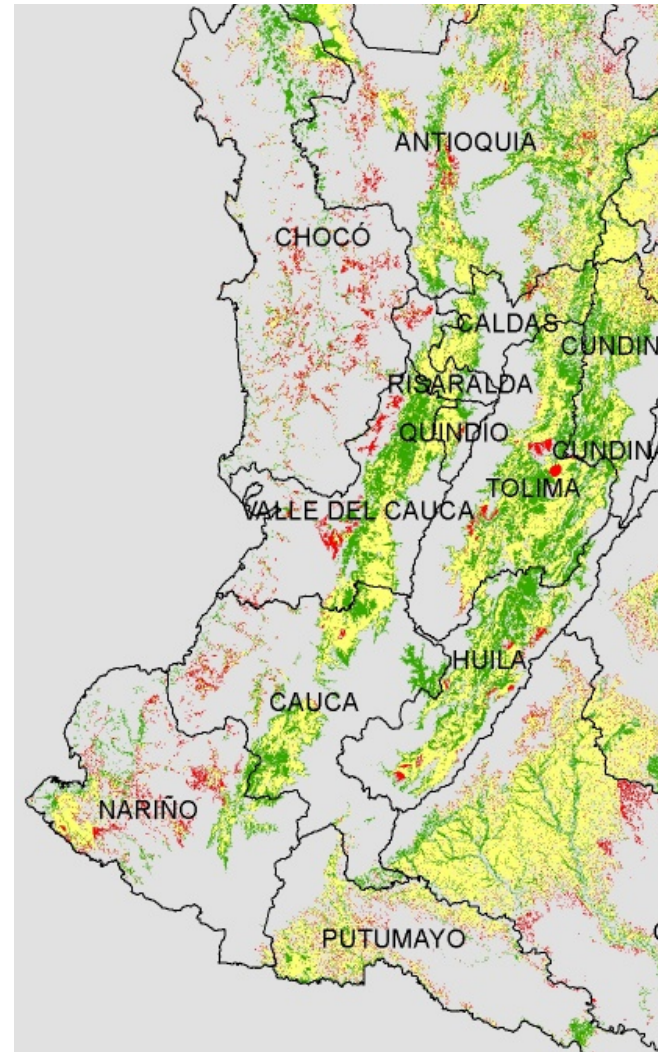


# CACAO



		Área (ha)	Porcentaje de área (%)
	Persistencia	17'337.520	90.3
	Pérdida	1'855.887	9.7
	Ganancia	18'777.466	97.8

# CACAO



# Next Steps

The government has to define the integration of this information in the information system on climate change in which other sectors participate,

Develop evaluations of impact of the implementation of the adaptation actions.

THANK YOU!