

Workshop

# Domestic climate finance mapping and planning

## CHALLENGES AND OPPORTUNITIES

This workshop is organized in the context of **COP 25** by the organizations below



CLIMATE  
POLICY  
INITIATIVE



# Welcome and introduction

# Welcome remarks

Barbara  
Buchner

Executive Director,  
**CPI**

Tim  
Clairs

Head of the Climate &  
Forests team, **UNDP**

Valérie  
Merckx

Head of the EU  
REDD Facility, **EFI**

# Agenda

Time	
9:20-9:30	Presentation: Overview of climate finance mapping approaches, tools and needs Chavi Meattle, Analyst, Climate Policy Initiative Gianluca Merlo, Chief Technical Specialist, UNDP NDC Program
9:30-11:00	Panel: Methodologies and challenges for climate-related finance mapping Moderator: Angela Falconer, Associate Director, Climate Policy Initiative
11:00-12:15	Breakout groups: Using climate finance mapping to influence policies, mobilize and redirect investment Moderator: Adeline Dontenville, EU REDD Facility, European Forest Institute
12:15-12:30	Next steps discussion Moderator: Barbara Buchner, Executive Director, Climate Policy Initiative
12:30	Lunch





# Overview of climate finance mapping





CLIMATE  
POLICY  
INITIATIVE

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# Overview of climate finance mapping and tracking approaches and tools

# Snapshot of mapping Initiatives

## LANDSCAPES

France  
Germany  
Czech Rep.  
Latvia  
Morocco  
Poland  
India  
Kenya  
Costa Rica  
Indonesia

## I&FF

Bangladesh, Colombia,  
Costa Rica, Dominican  
Republic, Ecuador, Gambia,  
Honduras, Liberia, Namibia,  
Niger, Paraguay, Peru, Togo,  
Turkmenistan, Uruguay

## PCEIR

Vietnam, Thailand,  
Ecuador, Chile

## LAND-USE FINANCE MAPPING

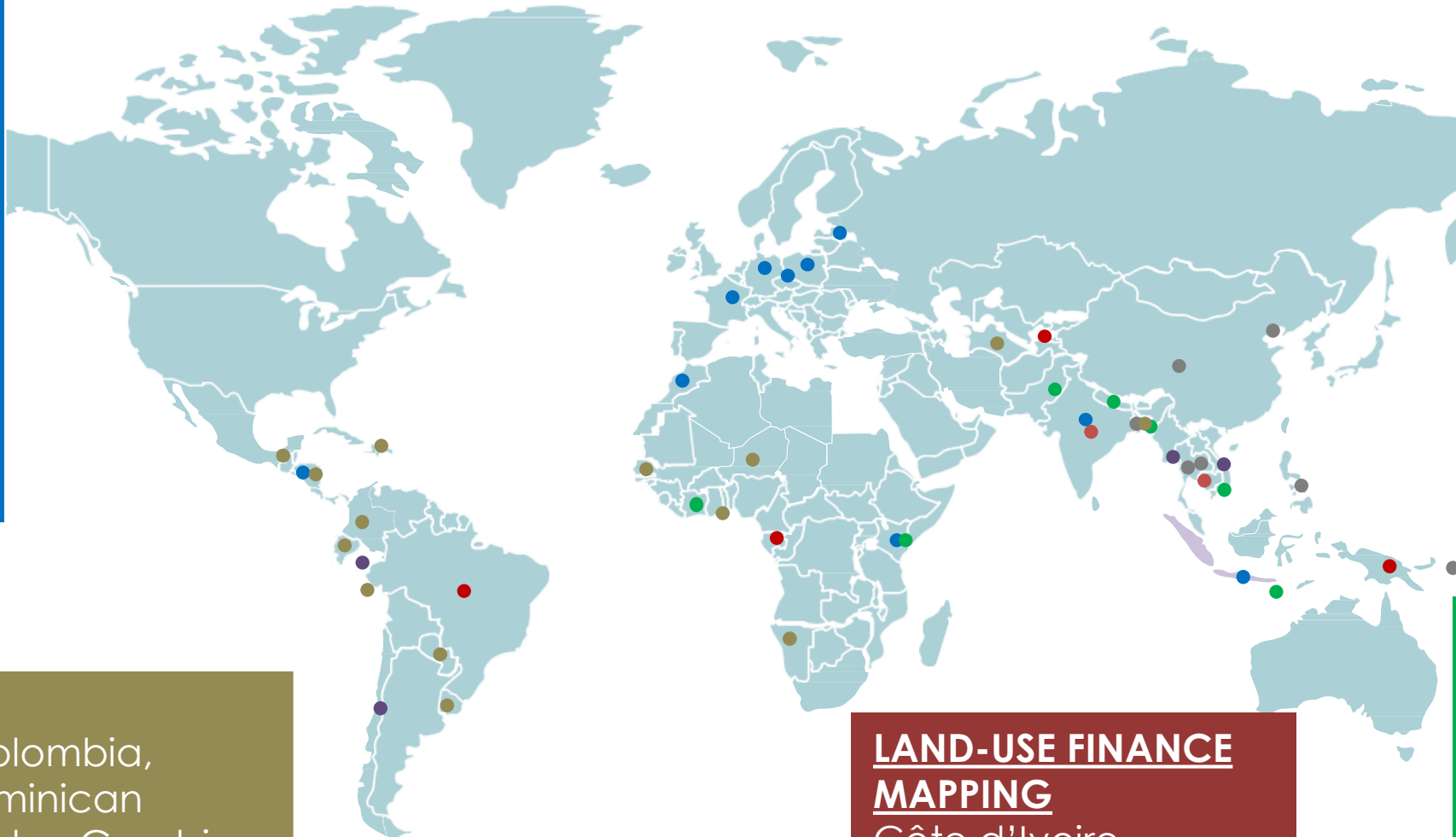
Côte d'Ivoire  
Papua New Guinea  
Vietnam  
DRC, India , Brazil

## CPEIR

Bangladesh  
Cambodia  
China (Hebei)  
Fiji  
Indonesia  
Nepal  
Philippines  
Samoa  
Thailand  
Tonga  
Vanuatu

## CLIMATE BUDGET TAGGING

Bangladesh  
Indonesia  
Kenya  
Nepal  
Philippines  
Pakistan



**Captures life cycle of flows from providers of finance, intermediaries, instruments, disbursement channels, and uses**

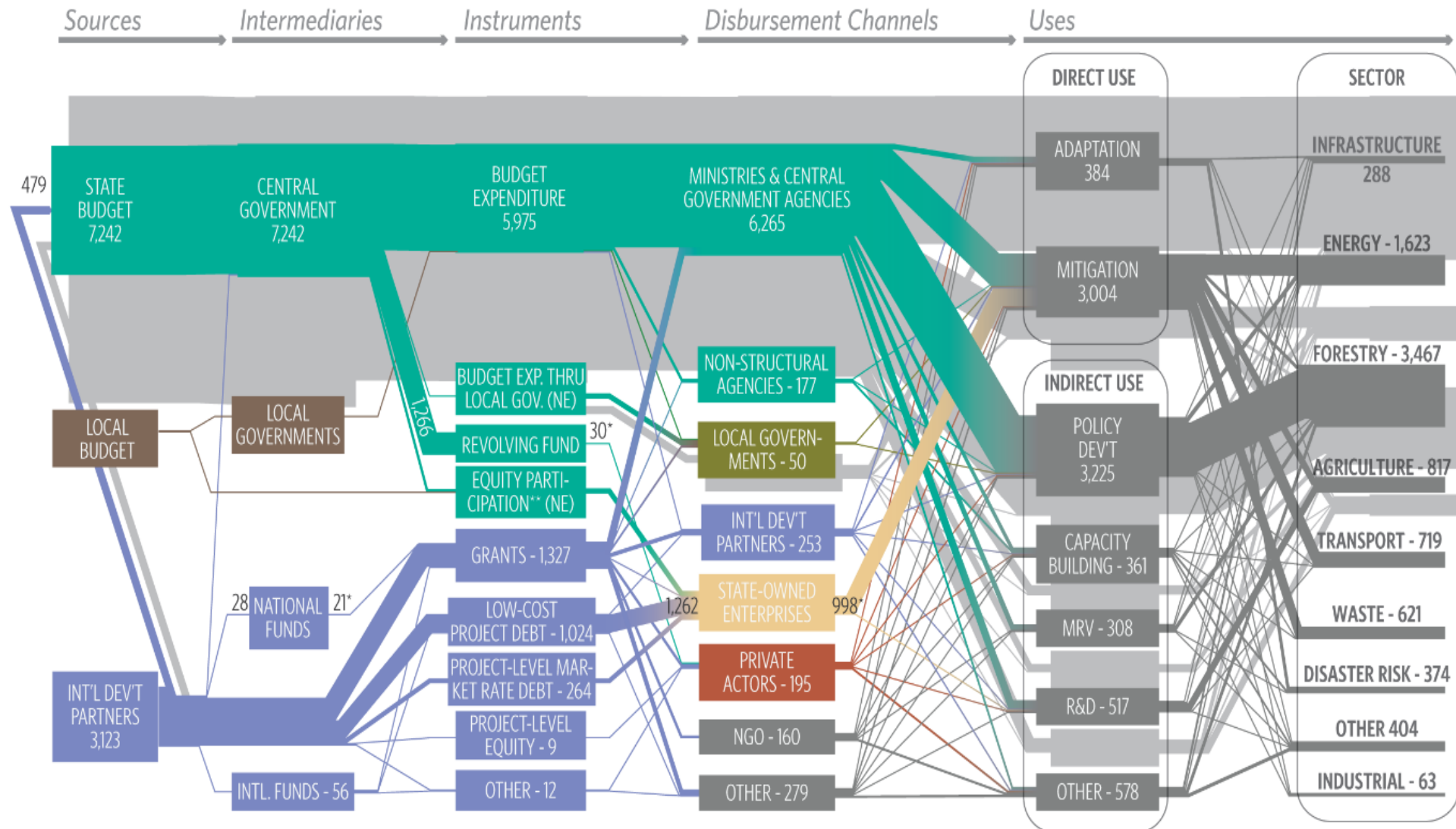
The image shows the cover of a report titled 'Climate Finance Landscapes'. The background is a landscape with rolling hills under a bright, hazy sky. The title is written in large, white, sans-serif font, stacked vertically on the left side of the cover.

# Climate Finance Landscapes

- CPI's methodology for global landscape adopted for domestic landscapes.
- Other implementing organizations: I4CE, IKEM
- Tracking life cycle of flows



# Indonesia Landscape: Developing internal climate budget tracking system and baseline of public spending

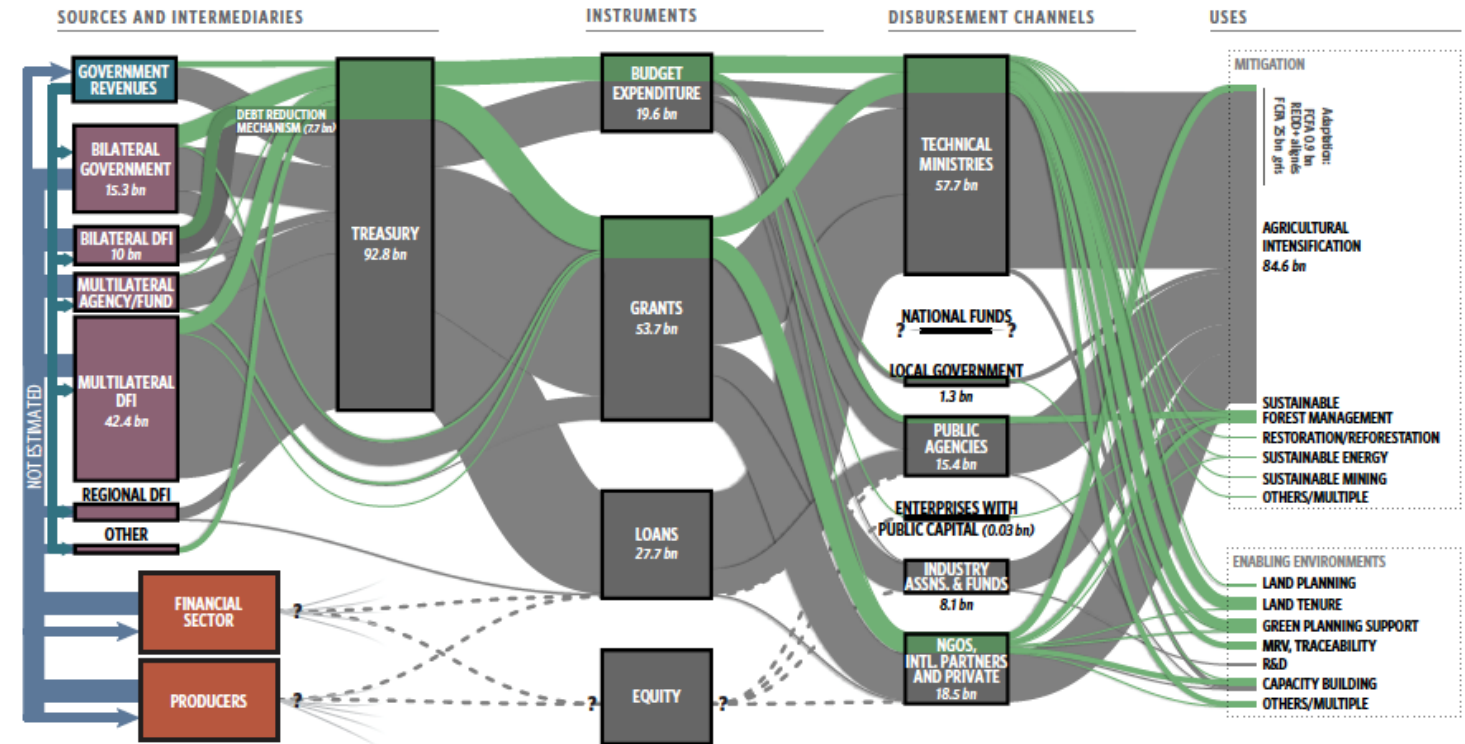


# Côte d'Ivoire landscape led to a working definition of REDD+

## Land-Use Finance Mapping

### THE LANDSCAPE OF REDD+ ALIGNED FINANCE IN CÔTE D'IVOIRE IN 2015

**FCFA 16.8** BN REDD+ ALIGNED  
FCFA 84.2 BN TOTAL GREY FLOWS



REDD+  
CÔTE D'IVOIRE

PROGRAMME  
ONU-REDD



#### KEY

PUBLIC MONEY	PRIVATE MONEY
PUBLIC FINANCIAL INTERMEDIARIES	UPSTREAM SOURCES OF FINANCE AND TRANSFERS BETWEEN ACTORS

?: UNKNOWN

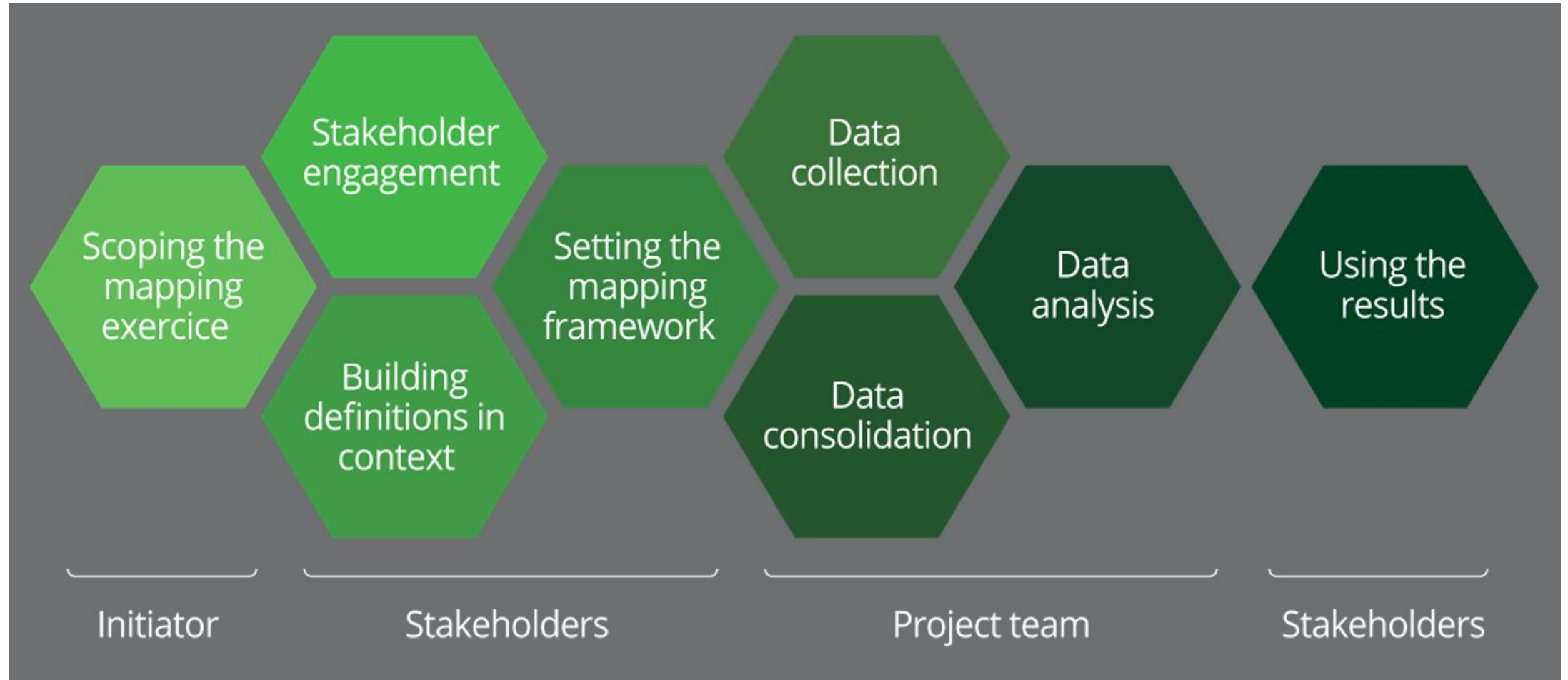
REDD+ ALIGNED FLOWS

GREY FLOWS

REDD+ aligned activities are those that clearly contribute to reducing deforestation drivers and to enhancing and protecting forest cover.  
Grey activities are those that could contribute to maintaining and enhancing Côte d'Ivoire's forests if certain enabling conditions were in place.

Côte d'Ivoire, Papua New Guinea, Vietnam, Cambodia, DRC, Brazil

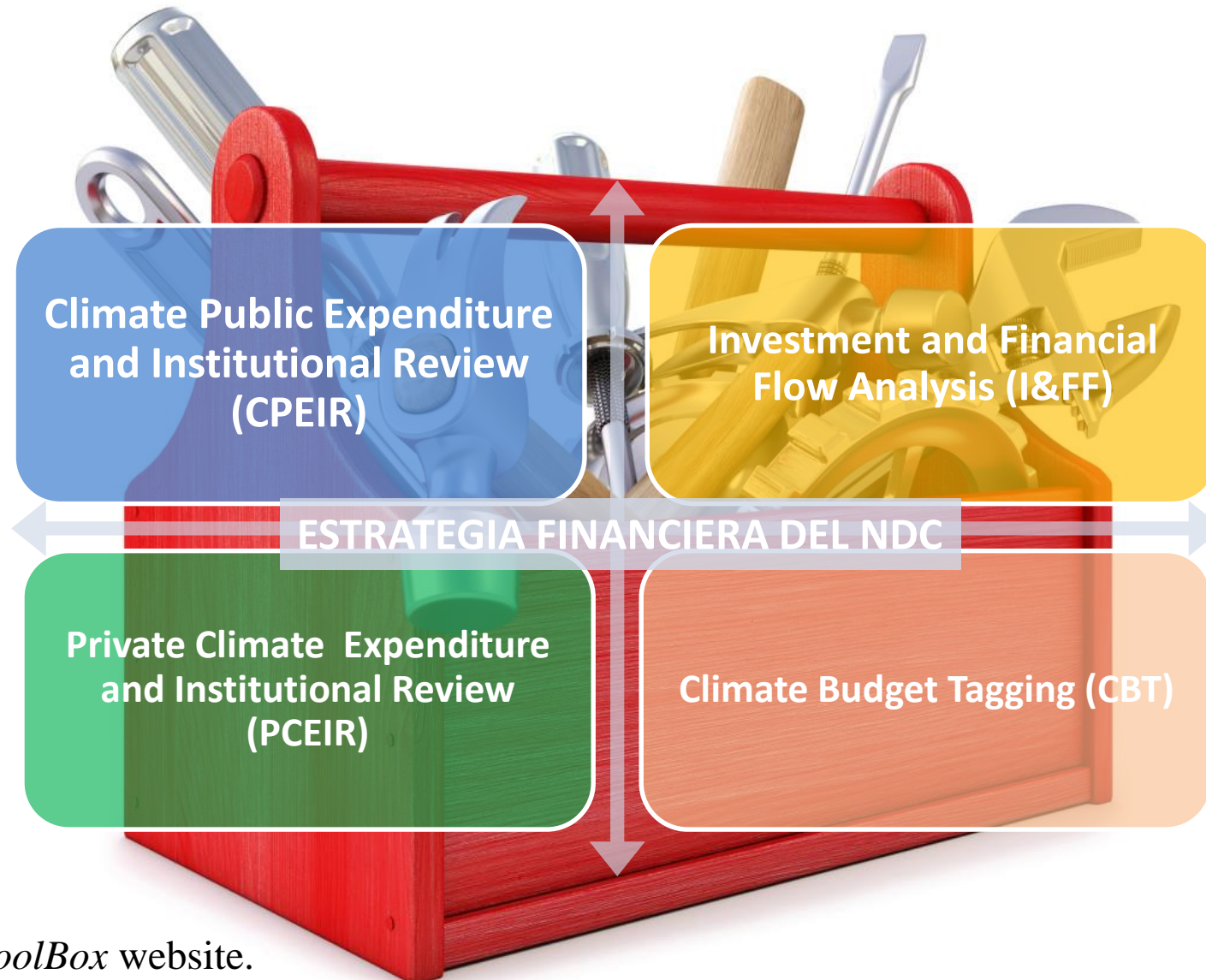
# Land-use Finance Mapping Tool



# Metodologías para análisis del financiamiento climático desarrolladas por PNUD



Empowered lives.  
Resilient nations.

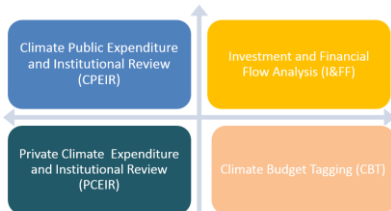


*NDC ToolBox* website.

<http://www.ndcpartnership.org/toolbox-navigator#tools>







# PNUD en el monitoreo de las finanzas climáticas



Empowered lives.  
Resilient nations.

	Country	Region	CPEIR	CPEIR - Sub-national	Climate Budget Tagging (CBT)	I&FF	PCEIR
	Gambia						
	Burkina Faso						
	Liberia						
	Morocco		X			X	
	Ghana		X			X	
	Namibia					X	
	Niger					X	
	Mozambique		X				
	Tanzania		X				
	Kenya		X				
	Uganda		X				
	Ethiopia		X				
	Benin		X				
	Nigeria					X	
	Togo					X	
	Bangladesh		X		X	X	
	Bhutan		X				
	Cambodia		X		X		
	China		X	X			
	Indonesia		X	X	X		
	Nepal		X	X	X		
	Pakistan		X	X	X		
	Philippines		X		X		
	Thailand		X				
	Turkmenistan						
	Uzbekistan					X / X (2018)	
	Vietnam		X	X		X	
	Chile		X				X
	Colombia		X				
	Costa Rica					X	
	Dominican R.					X	
	Ecuador		X	X (2019)		X	X
	Honduras		X			X / X (2018)	
	Nicaragua		X			X	
	Paraguay					X	
	Peru					X	
	Uruguay					X	
	Fiji		X				
	Kiribati		X				
	Marshall Isl.		X				
	Nauru		X				
	Samoa		X				
	Tonga		X				
	Vanuatu		X				
31		PACIFIC					
6		LATIN -AMERICA					
6		ASIA					
19		AFRICA					
4							

CPEIR en 31 países; 6 en LAC / 6 CPEIR sub-nacionales a nivel global; 1 en LAC/ 19 IFF; 2 en contexto NDC; 1 en LAC / 4 PCEIR Pilotos: 2 en LAC

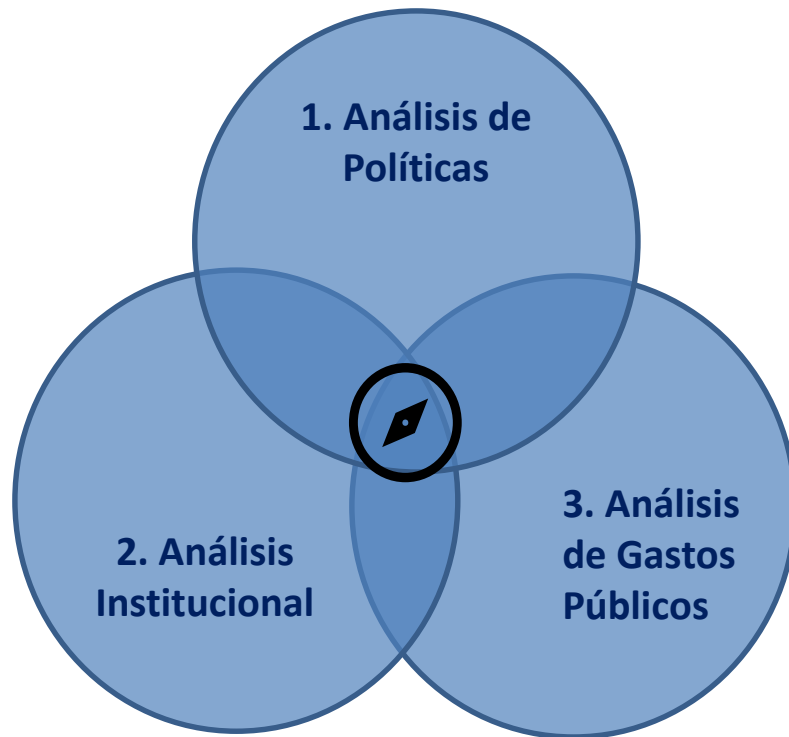
# Estructura del CPEIR



Empowered lives.  
Resilient nations.

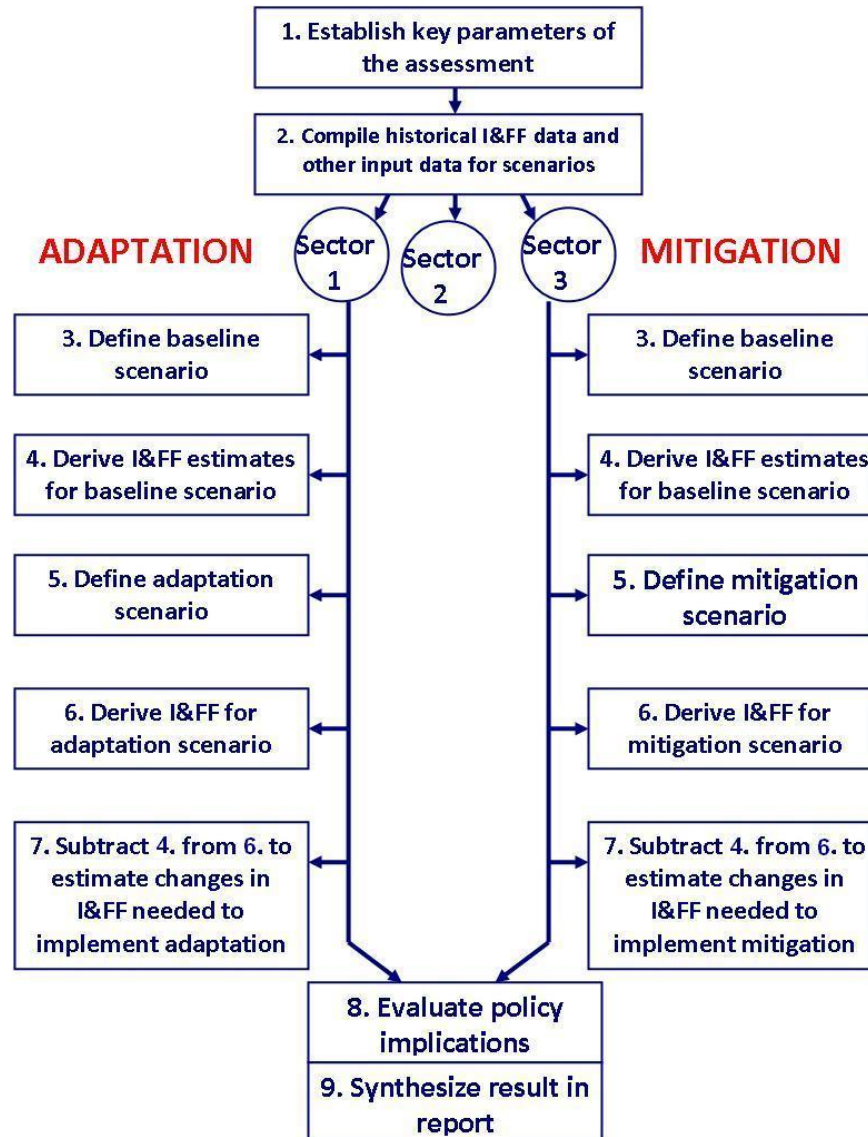
Diagnóstico de las oportunidades y limitaciones para incorporar el cambio climático (NDC) en el proceso de asignación y ejecución del gasto público nacional

## CPEIR



Estimado de línea base gasto Climático en  
años analizados

# Visión rápida de lo que es el Análisis de Inversión y Flujo Financiero (IFF)



# Visión rápida de lo que es el CBT



Empowered lives.  
Resilient nations.

1

- Definición de actividades climáticamente relevantes / Definiciones OECD

2

- Clasificación del gasto relevante para el clima: identificar los gastos mitigación y la adaptación que se etiquetarán, el gasto debe clasificarse y determina las etiquetas climáticas que tendrá partida de gasto

3

- Ponderación de la relevancia climática: evalúa el grado en que los gastos están relacionados con el clima. La guía metodológica CPEIR del PNUD proporciona una guía detallada para ponderar la relevancia del cambio climático

4

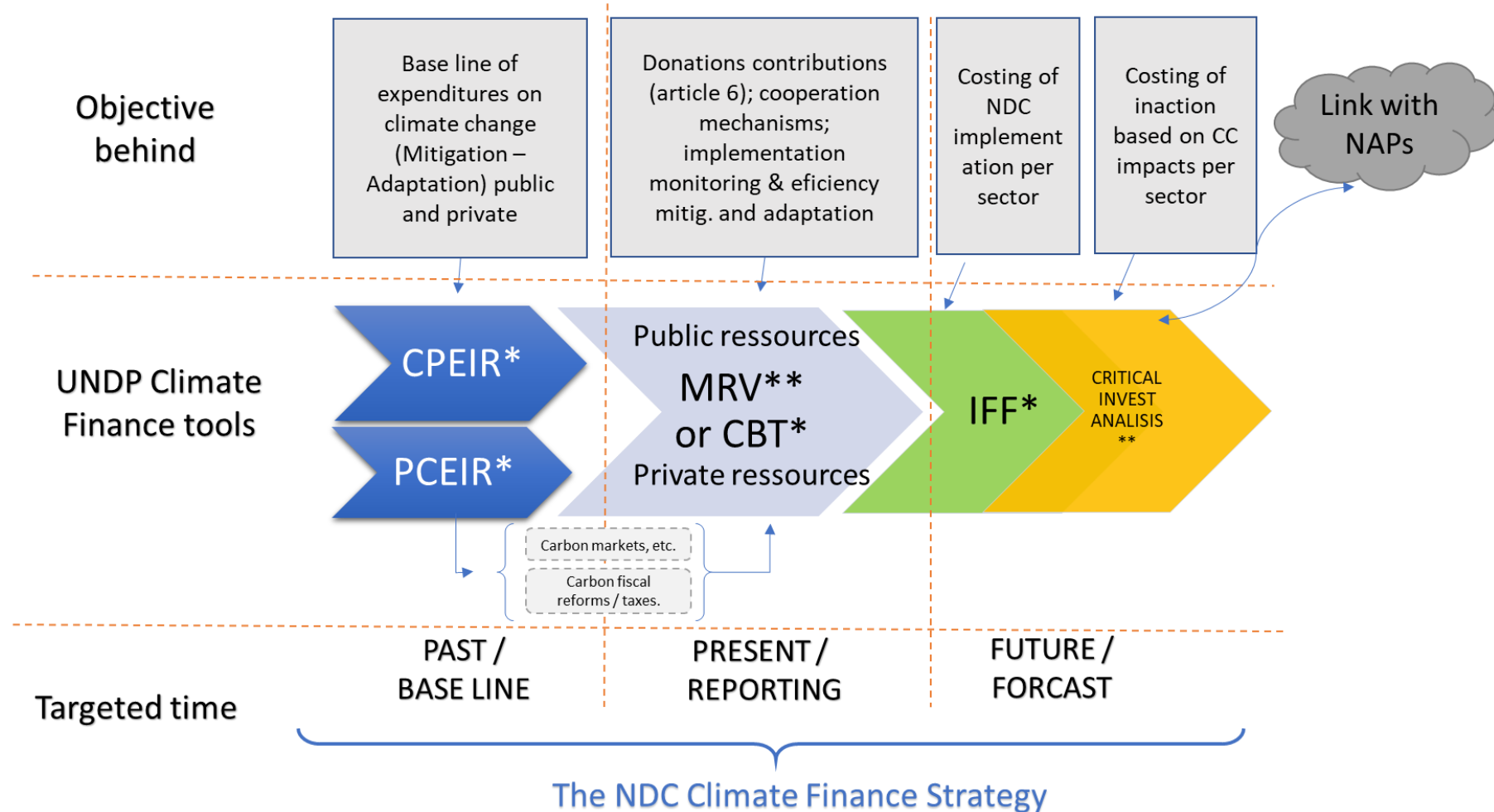
- Diseñando procedimiento de etiquetado: depende del tipo de gasto (recurrentes / de capital, dentro o fuera del presupuesto, etc.) y del proceso presupuestario del país. Aspectos clave a considerar el diseño: Punto de entrada / nivel de información etc.



# Model to be implemented in Chile with Min. of Finance 2020 -2022



Empowered lives.  
Resilient nations.





# Panel discussion

Methodologies and challenges for climate-related  
finance mapping

# Panelists

## Country and technical partner perspectives:

- **Peter Odhengo**, Senior Policy Advisor on Climate Finance, Kenyan Treasury
- **Ian Cochran**, 14CE, French Landscape of Climate Finance
- **Jean-Claude Koya**, Technical advisor, Côte d'Ivoire Ministry of Planning and Development
- **Aleksandra Novikova**, IKEM, Landscapes of Climate Finance in Czech Republic, Latvia and Germany
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- **Simon Messenger**, Director, 2 Degrees Investing

**I4CE**

INSTITUTE FOR  
CLIMATE  
ECONOMICS

Une initiative de la Caisse des Dépôts et  
de l'Agence Française de Développement

# Insights from the French Experience Domestic Climate Investment & Finance :

**Landscape of climate finance – Edition 2019**

Ian Cochran, I4CE

Study carried out by

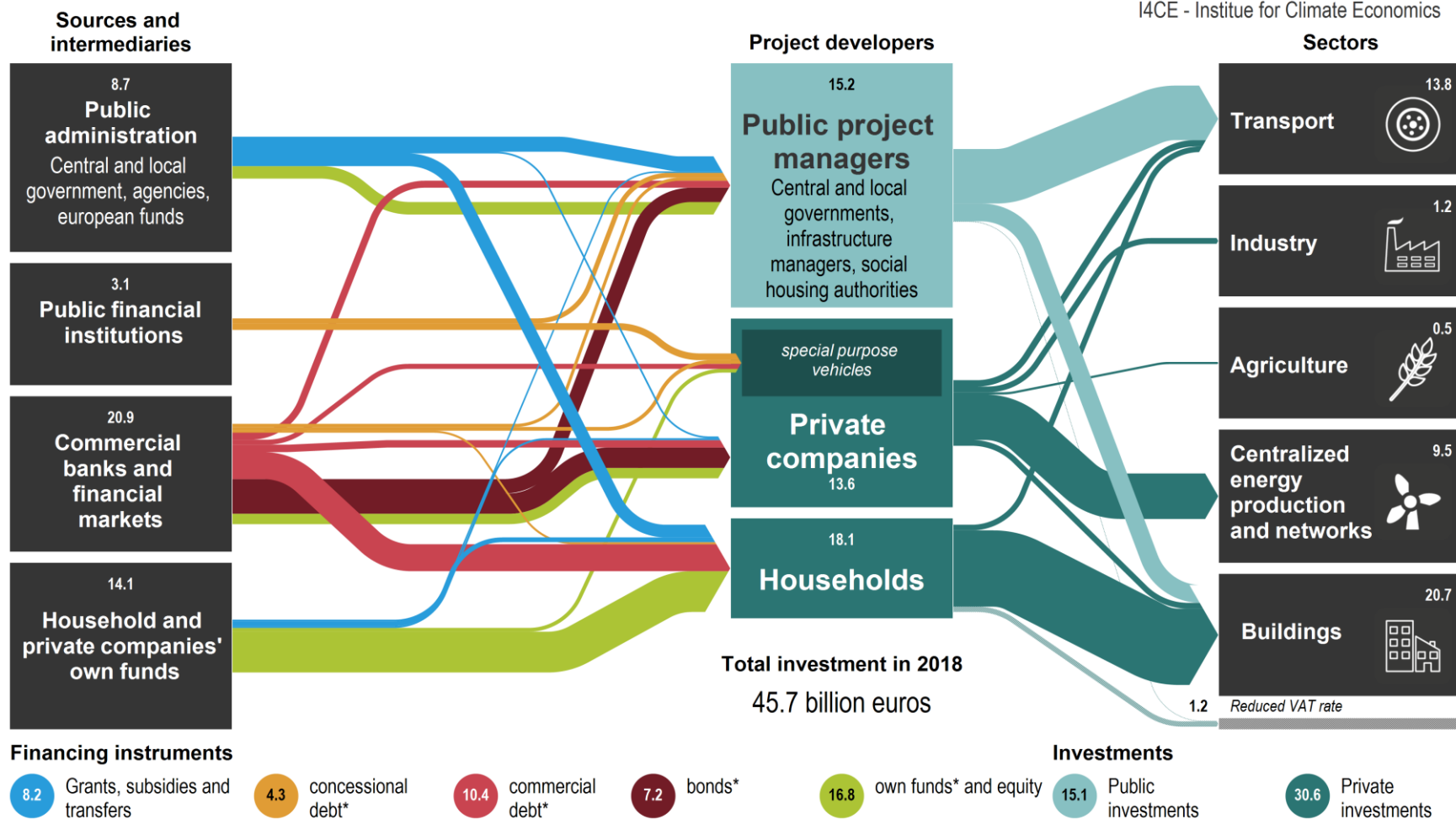
Hadrien Hainaut, Maxime Ledez, Ian Cochran





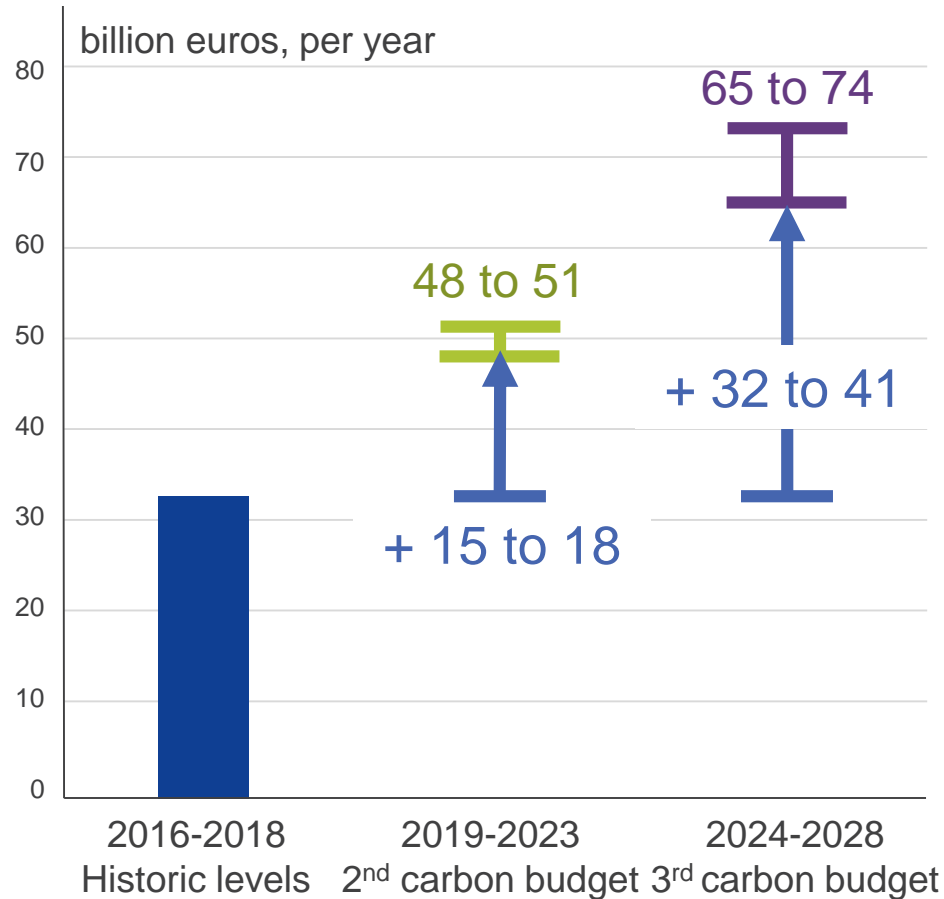
# Climate investments in 2018: 45.7 billion euros

Landscape of climate finance in 2018



# Investment of a further 15-18 billion euros is needed each year by 2023 to be on track for carbon neutrality

CLIMATE INVESTMENTS: HISTORIC LEVELS AND ESTIMATED AVERAGE ANNUAL NEEDS

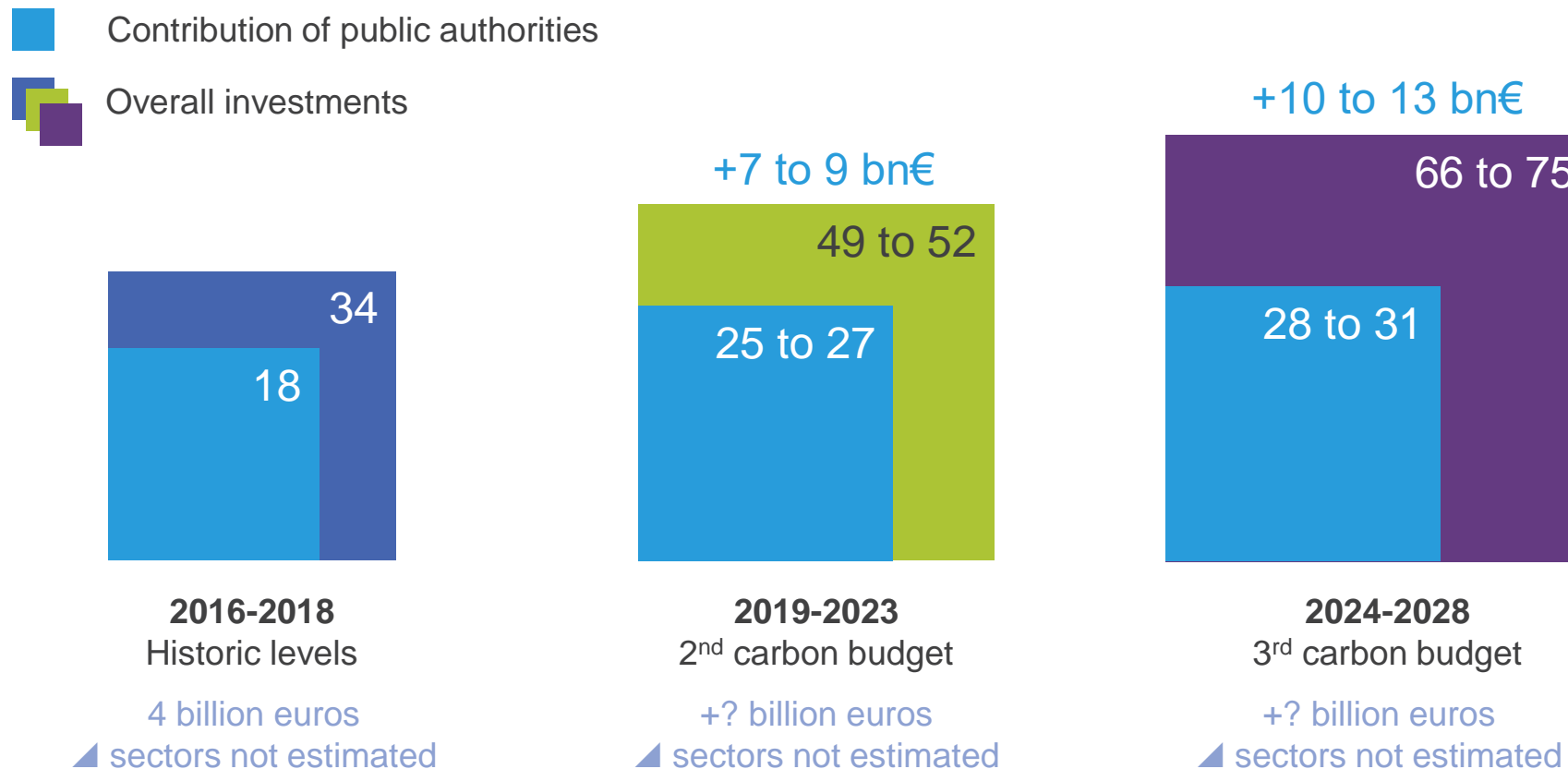


SECTORIAL COVERAGE OF INVESTMENT NEEDS

(main sectors, in billion euros)	2016-18	2019-23	2024-28
■ Housing Renewable energies Transport (...)	33	48 to 51	65 to 74
▲ Agriculture Industry Nuclear (...)	13	?	?
- R&D Adaptation	?	?	?

# The annual government contribution must increase from 7 billion to 9 billion euros by 2023

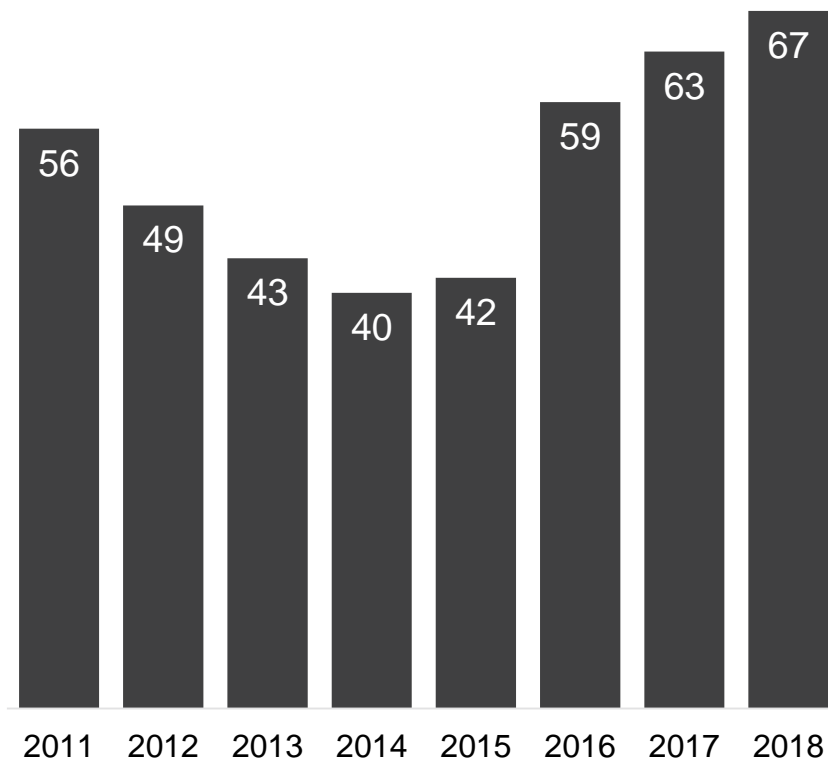
## CONTRIBUTION OF PUBLIC AUTHORITIES TO THE FUNDING OF CLIMATE INVESTMENTS



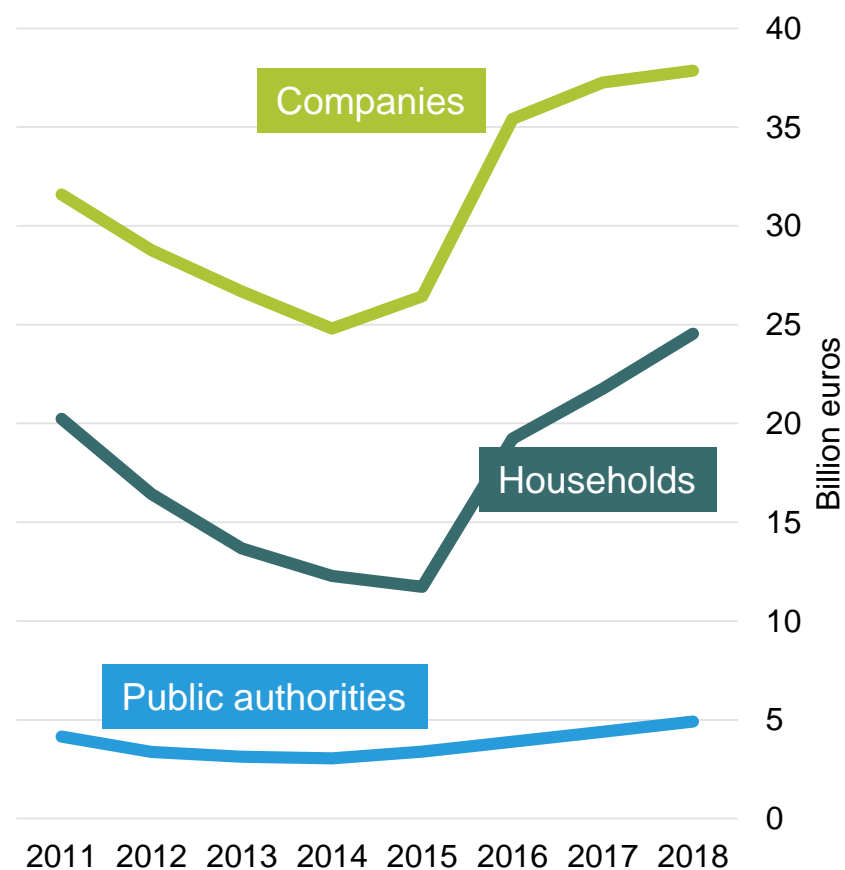
Financial flows projection principle: each sector achieved the investment objectives set in the SNBC by maintaining the proportion between public and private financing sources and instruments observed in 2016-2018.

# Fossil investments are concentrated in the passenger car market

CLIMATE-ADVERSE FOSSIL INVESTMENTS,  
IN BILLION EUROS



DISTRIBUTION OF CLIMATE-ADVERSE  
FOSSIL INVESTMENTS, BY PROJECT  
DEVELOPER





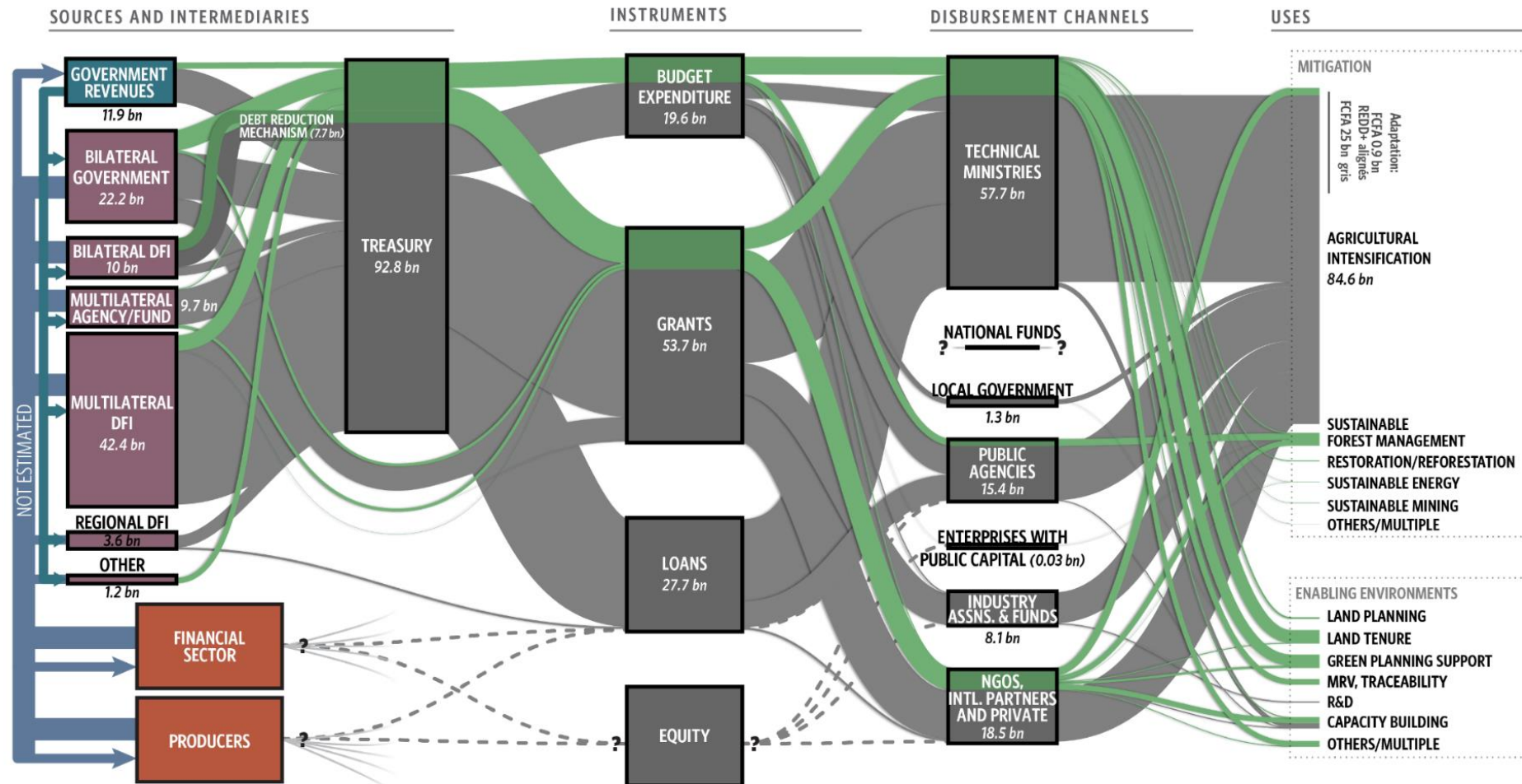
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# THE LANDSCAPE OF REDD+ ALIGNED FINANCE IN CÔTE D'IVOIRE IN 2015

**FCFA 16.8** BN REDD+  
ALIGNED  
FCFA 84.2 BN TOTAL  
GREY FLOWS



**REDD+**  
CÔTE D'IVOIRE

PROGRAMME  
**ONU-REDD**

**EU REDD**  
Facility



**IMPACTUM**  
Guidance de Développement - Consulting Sustainability

## KEY

PUBLIC  
MONEY

PRIVATE  
MONEY

?: UNKNOWN

REDD+  
ALIGNED FLOWS

GREY  
FLOWS

REDD+ aligned activities are those that clearly contribute to reducing deforestation drivers and to enhancing and protecting forest cover.

Grey activities are those that could contribute to maintaining and enhancing Côte d'Ivoire's forests if certain enabling conditions were in place.



**EUREDD**  
Facility



Empowered lives.  
Reunited nations.



CLIMATE  
POLICY  
INITIATIVE

## OUTIL DE PLANIFICATION DU TERRITOIRE NATIONAL POUR L'ATTEINTE DES OBJECTIFS (ODD, Agenda 2063, NDC)

Basé sur l'Inventaire, la modélisation et l'alerte via Technologie satellitaire

L'OUTIL IMAGES (Vivid Economics et UK Space Agency)

Le projet vise à mobiliser les avantages de la surveillance par satellite pour une planification plus proactive de l'utilisation des terres identifie les forêts à risque, pour mieux cibler les ressources et améliorer le rendement des terres

### 1. Inventaire des terres qui classe les différentes végétations et consiste à:

— fournir des cartes détaillées de la végétation à partir de classifications forestières existantes (y compris la qualité des forêts et des cultures, telles que le riz ou le maïs)

— utiliser des images Sentinel I et II/SPOT pour plus de précision

### 2. Cadre de valeur socio-économique qui met l'accent sur les mécanismes d'initiation et d'exécution reliés aux valeurs économiques et écologiques pour:

— valoriser la présence de végétation forestière grâce aux méthodes de comptabilisation du capital naturel

— évaluer d'autres utilisations des terres, telles que l'agriculture (en utilisant les prix actuels des cultures), par groupe démographique

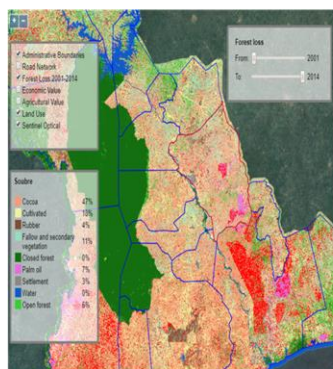
— catégoriser les zones par profil à risque pour mieux cibler les interventions

### 3. Système d'alerte rapide afin d'améliorer l'application de la loi en:

— Identifier les zones de dégradation des forêts en conjonction avec les catégories de profils à risque en vue d'empêcher et/ou prévenir une plus grande détérioration

— utilisant des images radar effectuées par satellite, pour offrir un système de haute qualité de résolution et de fréquence et indépendant de la météo

## PRESENTATION DE L'INTERFACE DE L'OUTIL IMAGES



- Combinant Images Optique et Radar
- Mise en synergie avec les autres outils
- Passage du satellite chaque 12 jours
- Passage à l'échelle nationale prévu

## OUTIL D'ANALYSE INTEGRE DES POLITIQUES

### MODEL THRESHOLD 21(T21) CÔTE D'IVOIRE

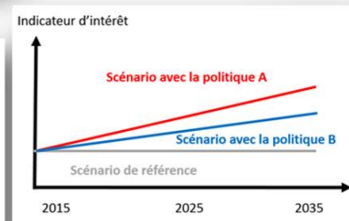
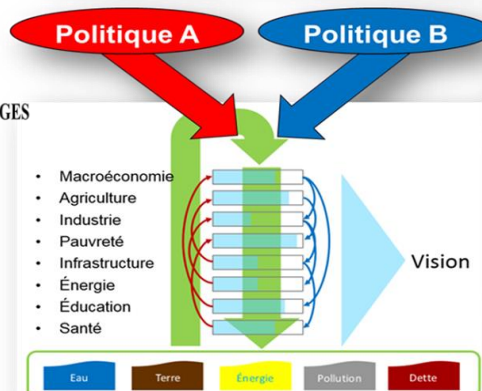
La Côte d'Ivoire s'est doté d'un outil d'analyse intégrée des politiques telle que la Vision 2040, les ODD, Agenda 2063, les NCD, pour leurs analyses, intégration dans les document de politique, coordination, alignement, cohérence et complémentarité.

- 2015/16: opérationnalisation et extension du modèle (MPD, MPMEF, MINEDD à travers du SEP REDD+, PNUD).

### L'application à la planification

Exemple: Analyse intégrée long-terme

Analyse des différentes politiques



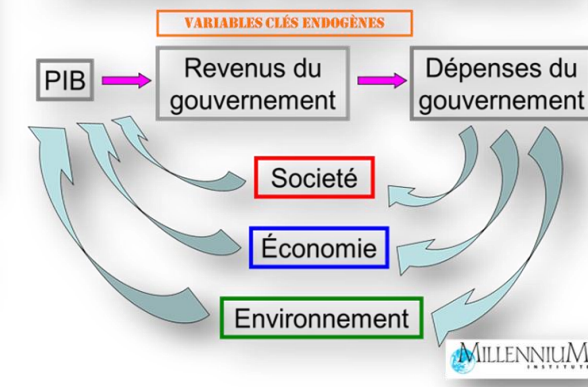
## T21-iSDG Côte d'Ivoire

### ANALYSIS OF SIMULATION RESULTS



### Caractéristiques clés du T21

...considère les boucles de rétroaction





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Supported by:



Federal Ministry  
for the Environment, Nature Conservation  
and Nuclear Safety



European  
Climate Initiative  
EUKI

COP25 Workshop

Domestic climate finance mapping and planning: challenges and opportunities

# Landscapes of climate finance Germany, Latvia, and the Czech Republic

*Aleksandra Novikova, PhD*

*Institute for Climate Protection, Energy and Mobility (IKEM)*

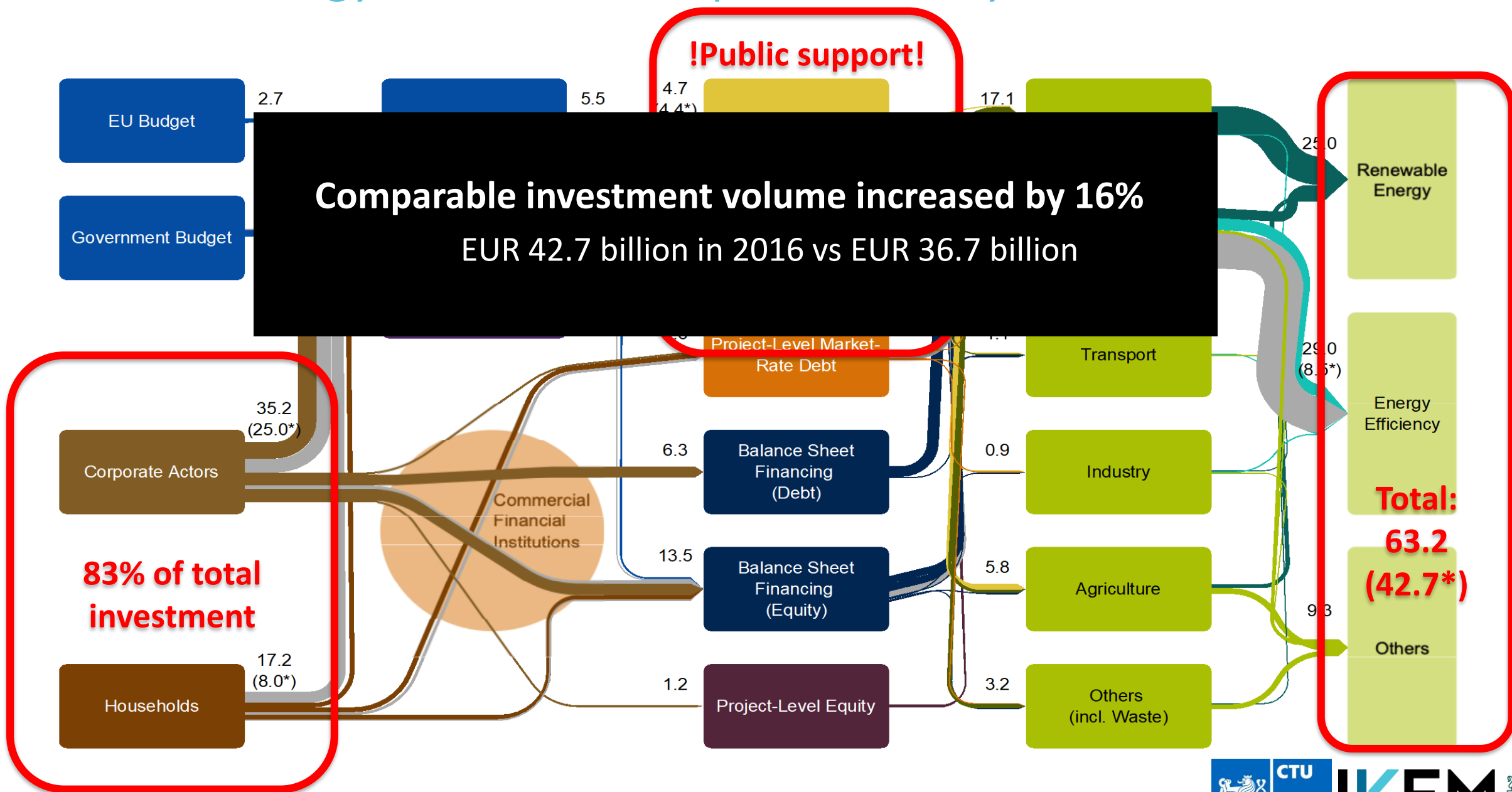
*Michaela Valentova, PhD*

*Czech Technical University in Prague (CVUT)*

*Agris Kamenders, PhD*

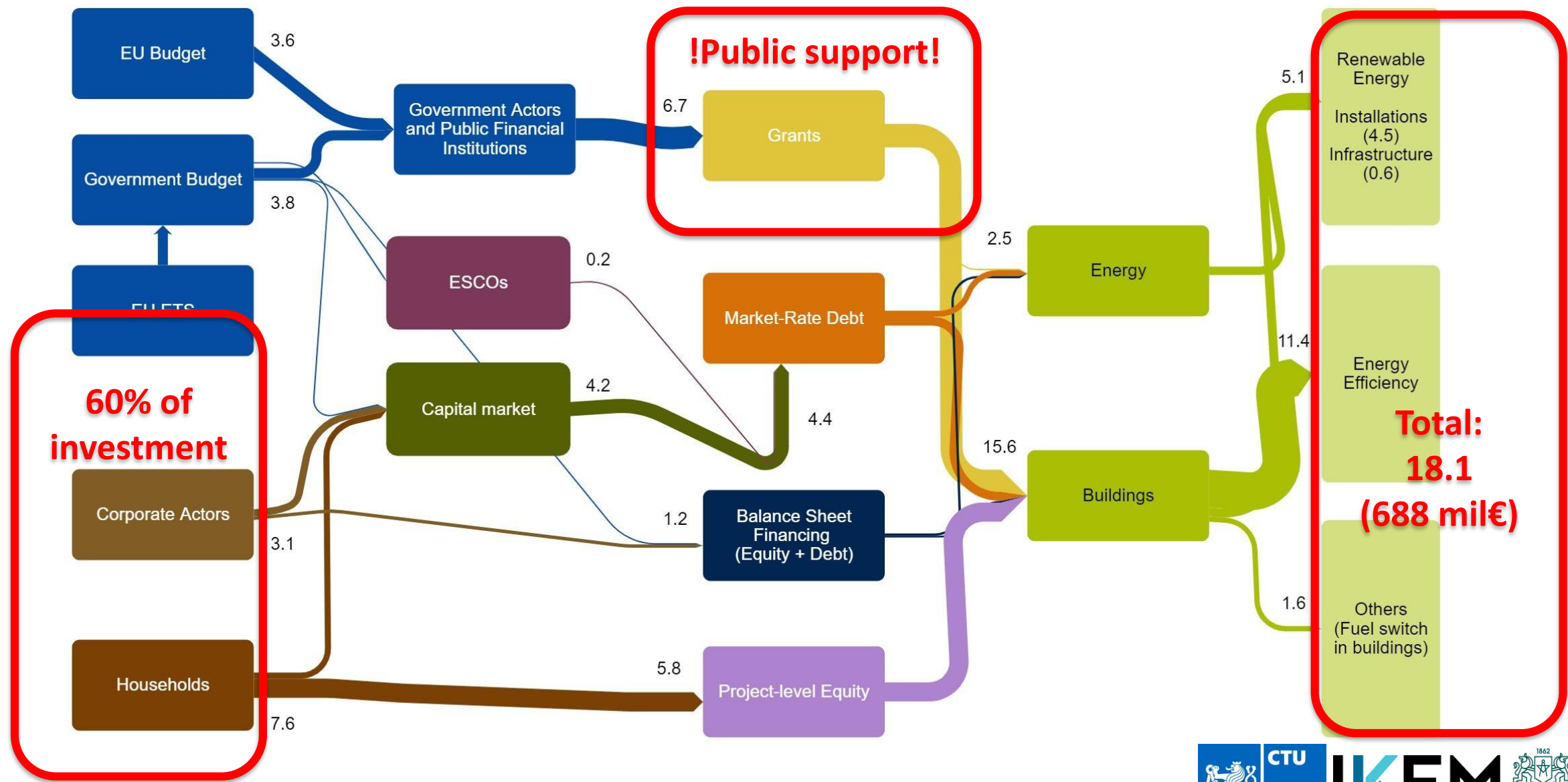
*Riga Technical University (RTU)*

# Climate & energy investment map of Germany, billion EUR. Status 2016.



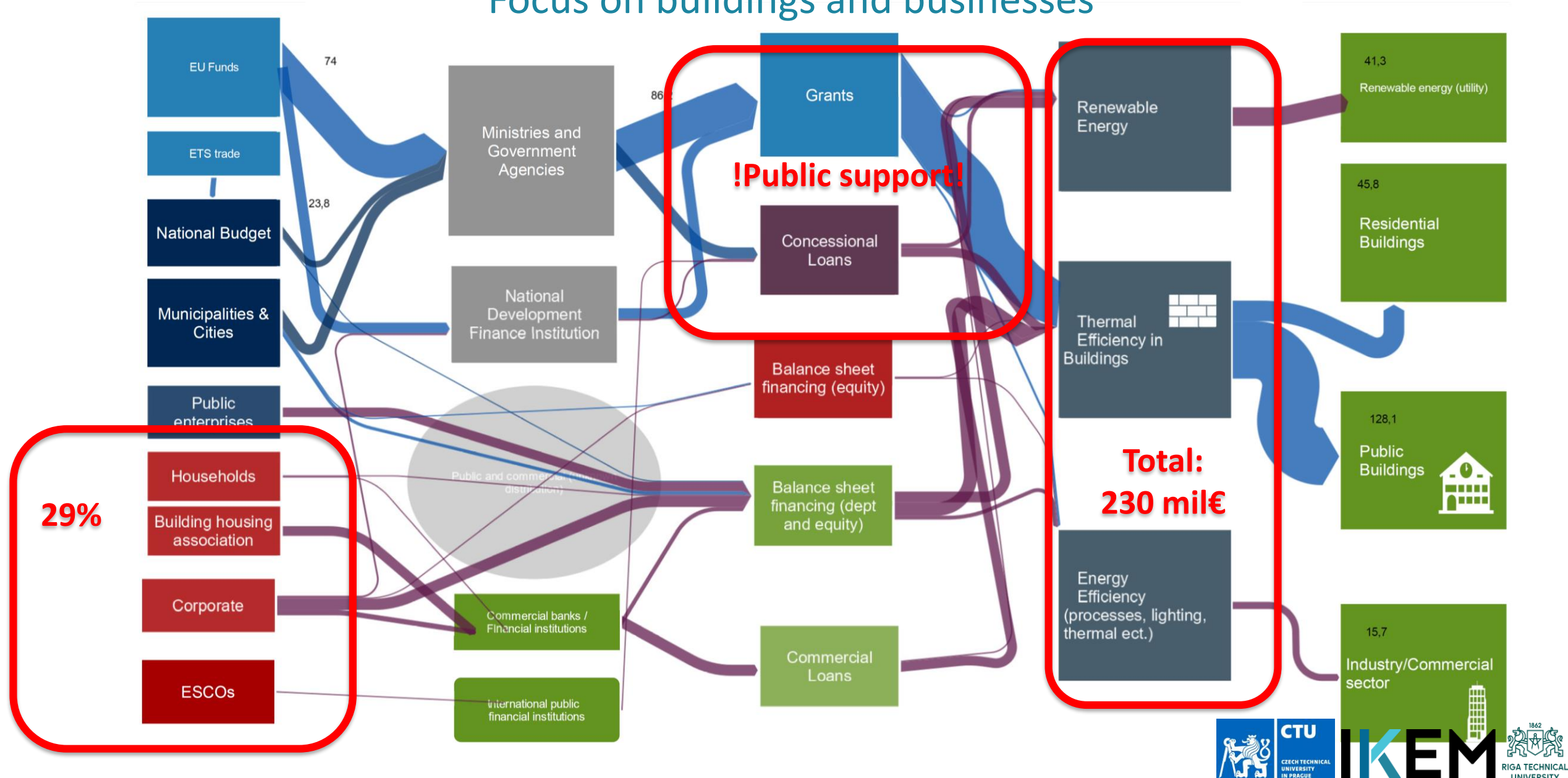
# Climate and energy investment map of Czechia, billion CZK. Status 2017.

Focus on buildings and renewable energy supply & infrastructure



# Climate and energy investment map of Latvia, billion EUR. Status 2018.

Focus on buildings and businesses





Institute for Climate Protection, Energy and Mobility  
Aleksandra Novikova | [aleksandra.novikova@ikem.de](mailto:aleksandra.novikova@ikem.de)

CIC2030 project

<https://www.ikem.de/en/portfolio/cic2030/>





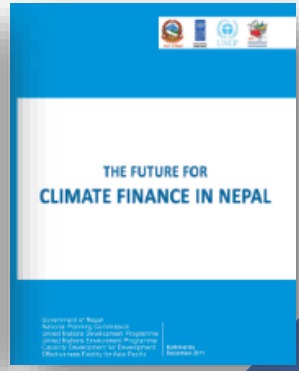
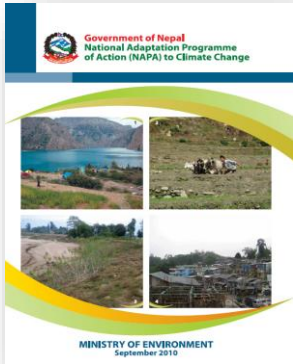
# **Integrating Climate Finance in the Budget: A Case from Nepal**

**Kailash Raj Pokharel**

Under Secretary, Ministry of Finance  
Focal Point, Climate Finance Unit

# Evolution of Governance of Climate Finance

2010

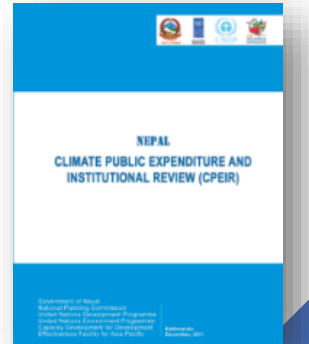


National  
Adaptation  
Programme of  
Action

Climate Change  
Policy

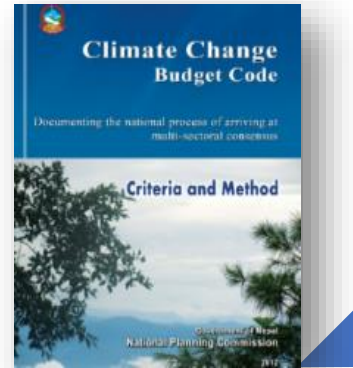
Future for  
Climate Finance

2011



Climate Public  
Expenditure &  
Institutional  
Review (CPEIR)

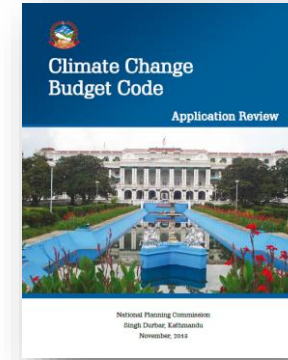
2012



Climate Change  
Budget Code

- 11 Criteria developed
- Tracking of budgeting of Budget

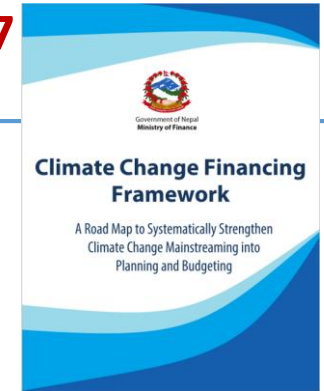
2013



Climate Change  
Budget Code:  
Application  
Review

- Review of 11 Ministries on CC Budgeting

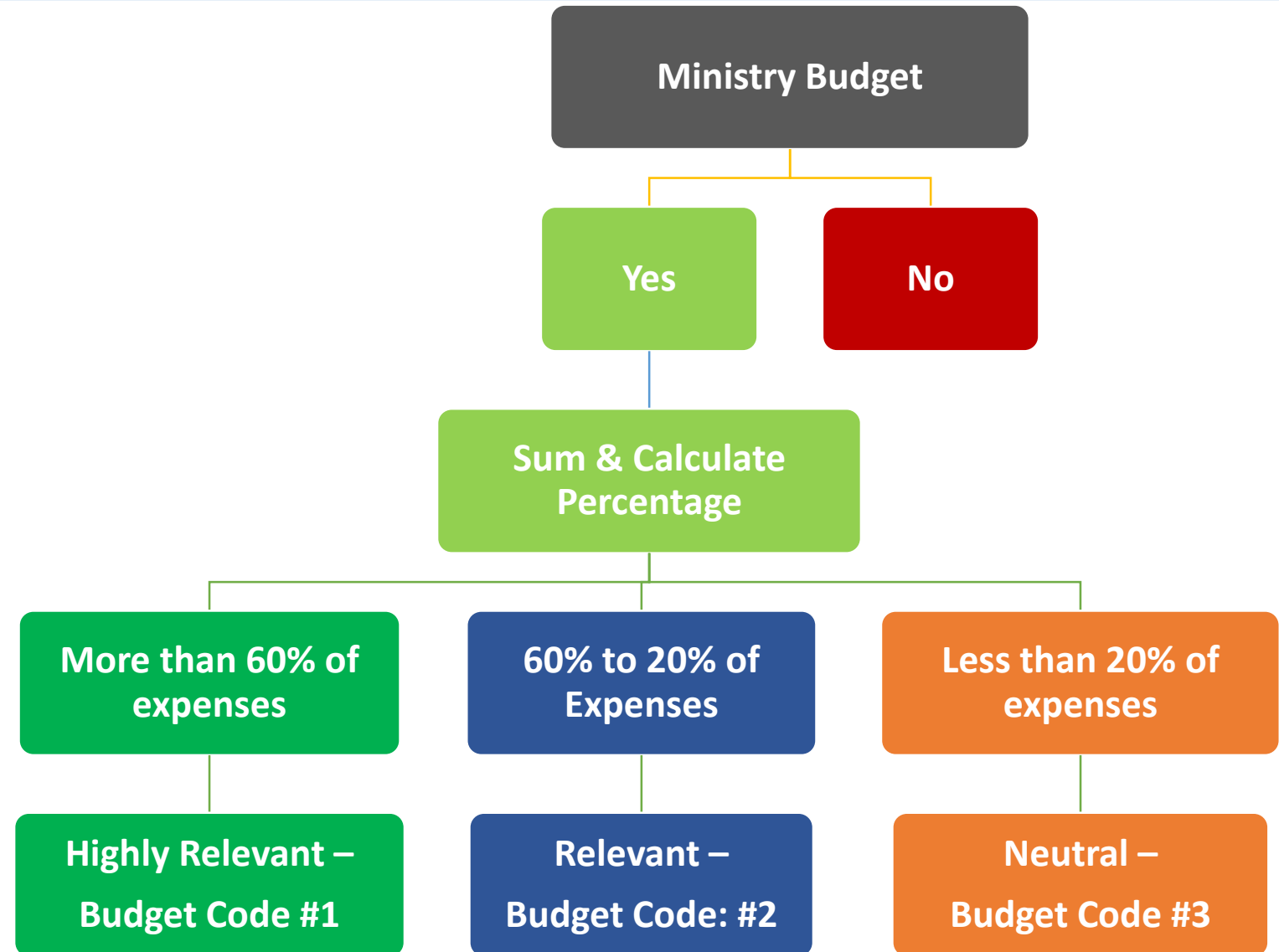
2017



Climate Change  
Financing  
Framework  
(CCFF)

- PFM reform  
roadmap to  
integrate  
climate finance  
into national  
planning and  
budgeting  
processes

# Tracking Climate Budget: The Process



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# Challenges

- **Policy Integration and Coordination**

- *CC policy and its response should be reflected in the national budget allocation and integrated into sectoral and at all levels.*

- **Climate Change as national objectives**

- *NPC/MoF needs to understand better on implications of CC in the medium to long terms national development objectives by devising climate proofed fiscal and expenditure policies.*

- **Capacity Challenges**

- *At all levels enhance understanding on CC policy, its implication and capacity to mobilise, manage and target climate finance within public development programmes.*

- **Oversight and Scrutiny**

- *Enhanced role of OAG or Parliament committees to promote accountability and performance over climate finance effectiveness*

# OPPORTUNITIES

## • Climate Change Financing Framework outlines strategic road map

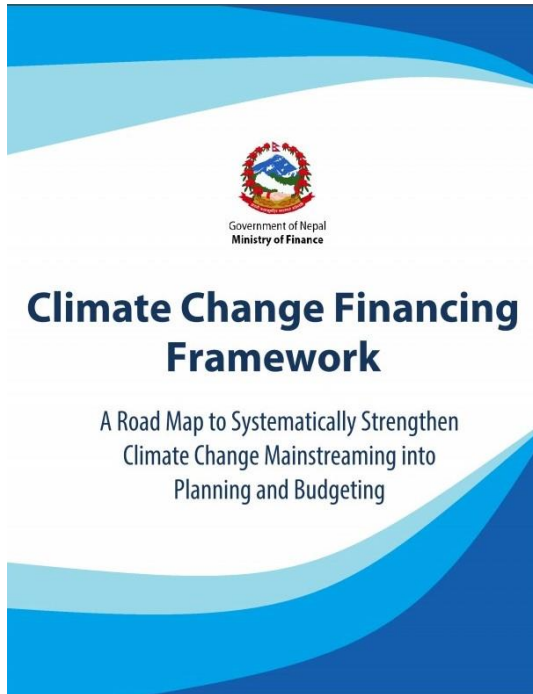
- Continuously introduce PFM reforms for effective climate finance governance

## • Better targeting of climate finance resources

- Improve the process and methods of CC budget coding
- Strengthen capacity at all levels and sectors to mobilise, manage and target low carbon climate resilient development programme
- Harmonize climate finance reforms at the sub national levels as per federal system for better monitoring, reporting and verification.

## • Performance, Transparency and Accountability

- Enhanced role of OAG on review of performance audit of CC relevant programmes and projects
- Meaningful engagement of Civil Society to advocate climate finance policy objectives during budget formulation as well as measuring effectiveness of public climate investments at all levels





A decorative teal graphic with wavy, organic shapes is located at the top of the slide, extending from the left edge and partially over the 'Panelists' title.

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- **Gianluca Merlo**, UNDP NDC Support program
- **Adeline Dontenville**, EU REDD Facility, European Forest Institute
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# REDD+ Financial Flows in the DRC

COP25, 6th of December 2019, Madrid

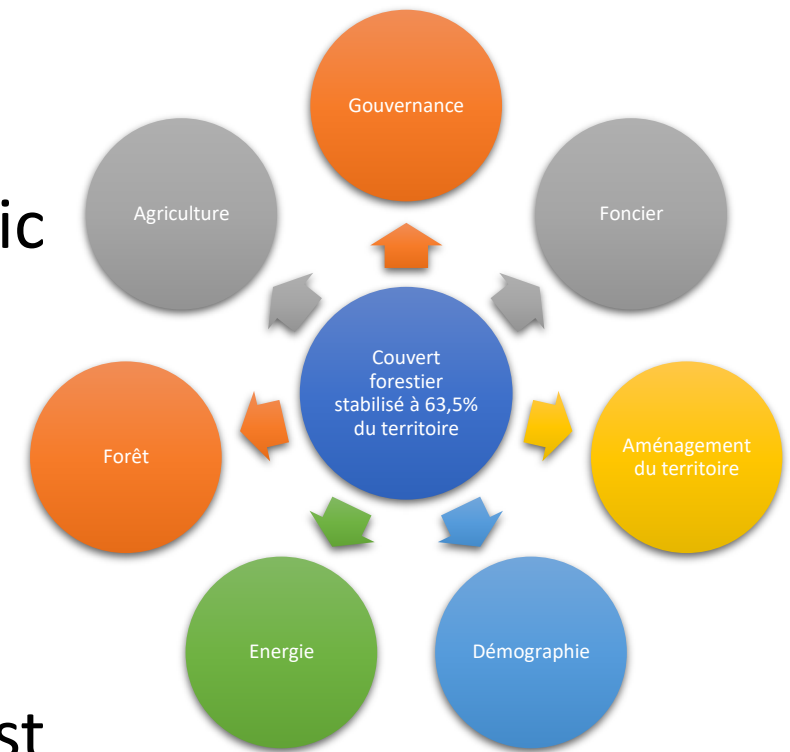
Victor Kabengele, Deputy Coordinator of the  
DRC National REDD+ Fund (FONAREDD)



# STUDY OF REDD+ FINANCIAL FLOWS IN THE DRC

## System boundaries of the study

- Type of funding : Public, international and domestic of all REDD+-related sectors;
- Financing, aligned and non-aligned, with REDD+;
- Geographic coverage : entire DRC territory;
- Temporal delimitations: from 2009 to the most recent available data.



# FONAREDD: GOVERNANCE STRUCTURE

## Steering Committee

- Ministry of Finance/President
- Ministry of Environment/Vice-President
  - Members
- Ministries of Land Use Planning, Energy, Agriculture, and Land Policy; Funding Partners; Resident Coordinator of SNU; World Bank; Civil Society

## Technical Committee

- Ministry of Environment/President
- Ministry of Finance/Vice-President
  - Members
- Funding Partners; Academic Representative; UN-REDD; Experts in Government and Civil Society; World Bank; Representative of the Executive Secretariat; 2 Independent Experts

## Executive Secretariat

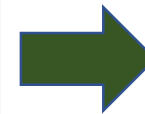
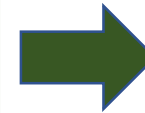
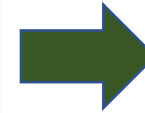
- Coordination by the Ministry of Finance
- Experts recruited on a competitive basis

## Objectives

The study will identify the financing aligned with the REDD+ Investment Plan and potentially the BAU financing that contributes to deforestation

The principal objective is to provide the DRC with the tools for preparing a policy to align domestic and foreign financing to the objectives of the National REDD+ Strategy Framework and the REDD+ Investment Plan

Estimate the generated cost of an Emission Reduction (ER), taking into account the financing since the national preparation phase (2009) as well as the accounting period for the Forest Reference Emission Levels (2015-2017)



## Intended Results

To identify the tangible results realized by REDD+ or other climate financing over the past decade (i.e. 2009-2019)

To identify possible alignments and identify the most suitable engagement partners

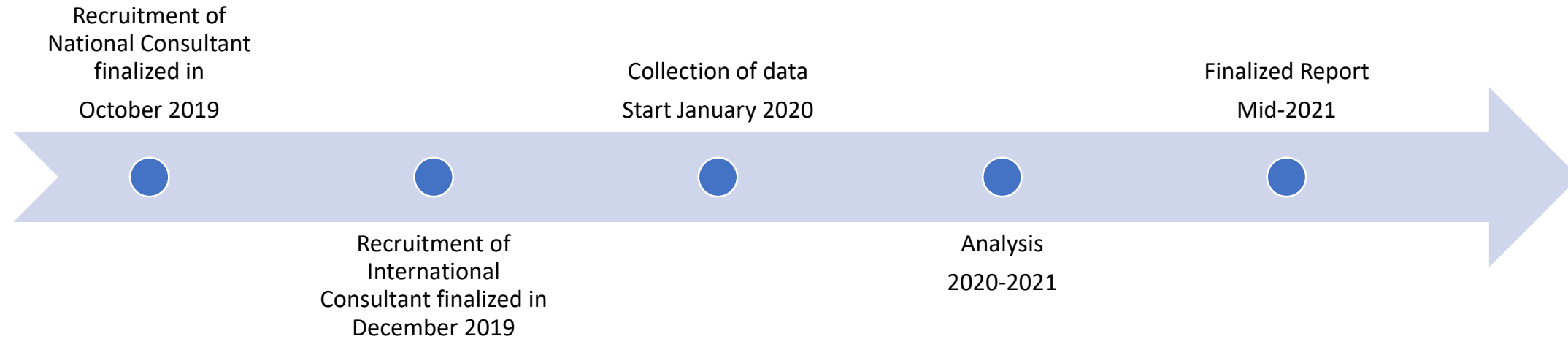
The estimated cost will provide a factual basis for the DRC to negotiate sales/purchase contracts of ERs

### OVERARCHING RESULT

In line with the identified need for improved transparency in the Paris Agreement, this mapping exercise is intended to contribute to improved traceability of climate finance in the DRC



# TIMELINE



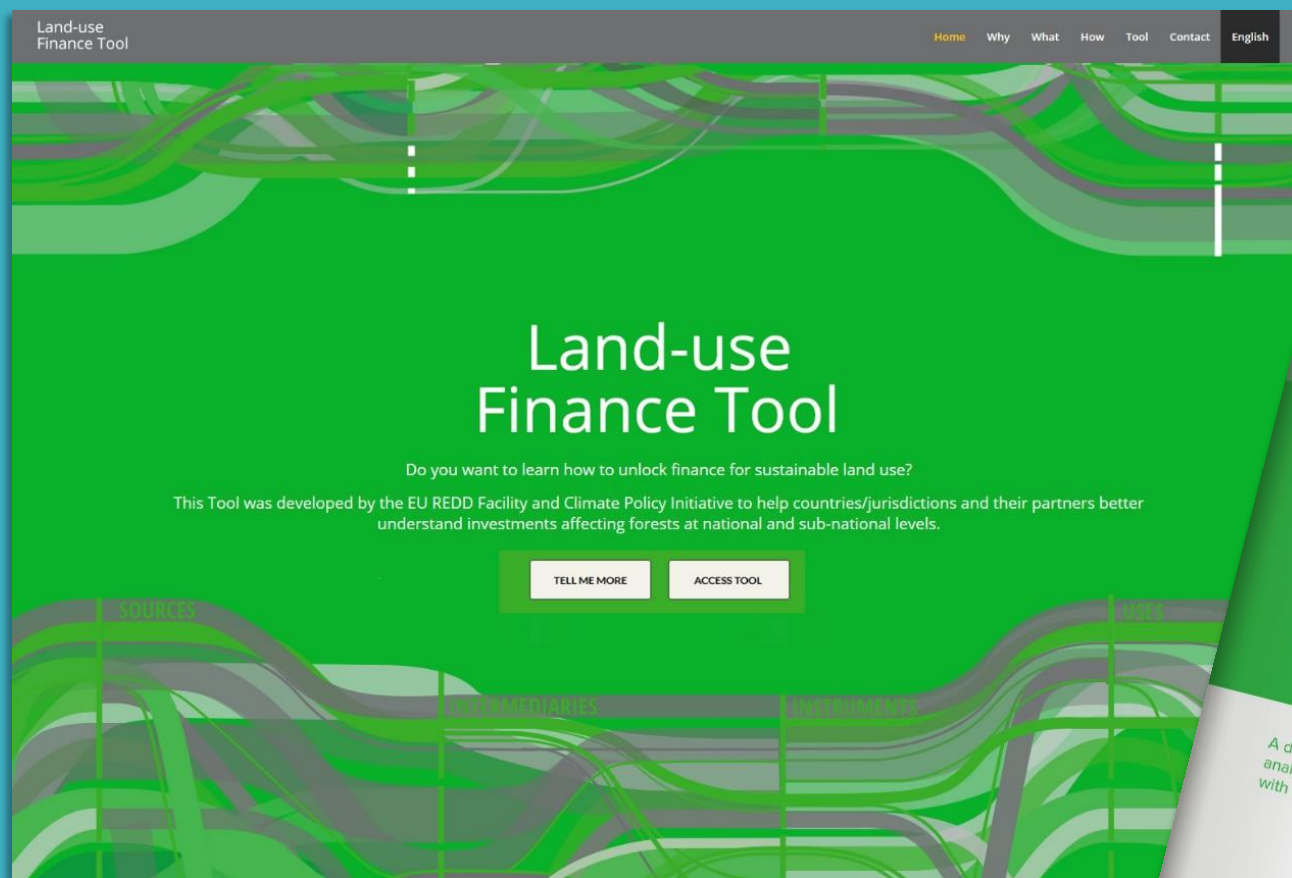
# Thank you!

# Panelists

## Country and technical partner perspectives:

- **Peter Odhengo**, Senior Policy Advisor on Climate Finance, Kenyan Treasury
- **Ian Cochran**, 14CE, French Landscape of Climate Finance
- **Jean-Claude Koya**, Technical advisor, Côte d'Ivoire Ministry of Planning and Development
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# landusefinance.org



# How can the Land-use Finance Tool help?



## Planning

What are the main financing gaps, opportunities and priorities?



## Aligning

How to align unsustainable investments to forest and climate objectives?



## Monitoring

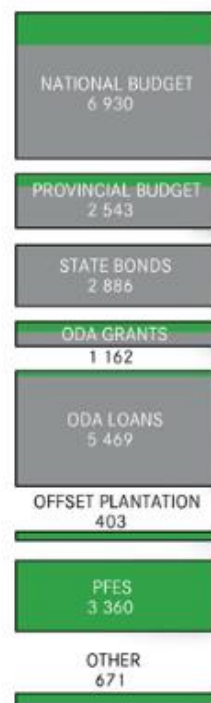
How much money has been spent on reducing deforestation over time?

# Planning REDD+ at sub- national level in Vietnam

## OVERVIEW OF PLANNED PUBLIC INVESTMENTS IN LAND-USE IN THE CENTRAL HIGHLAND REGION, VIET NAM, 2016-2020

VND 7.2 Trillion  
ALIGNED to NRAP objectives  
VND 16.2 Trillion NON ALIGNED

### SOURCES AND INTERMEDIARIES



### PROGRAM TYPES



### TARGET SECTORS



### KEY

Aligned to NRAP

Planned activities which contribute to reducing deforestation drivers and to enhancing and protecting forests, in coherence with policies and measures promoted by the National REDD+ Action Plan (NRAP - Decision 419)

Non-aligned

Planned activities whose impact on the forest cover is unknown. These planned activities are not aligned with the objectives of the NRAP, but could be if certain enabling conditions were in place.

All figures in VND billion

NRAP: National REDD+ Action Plan

ODA: Official Development Assistance

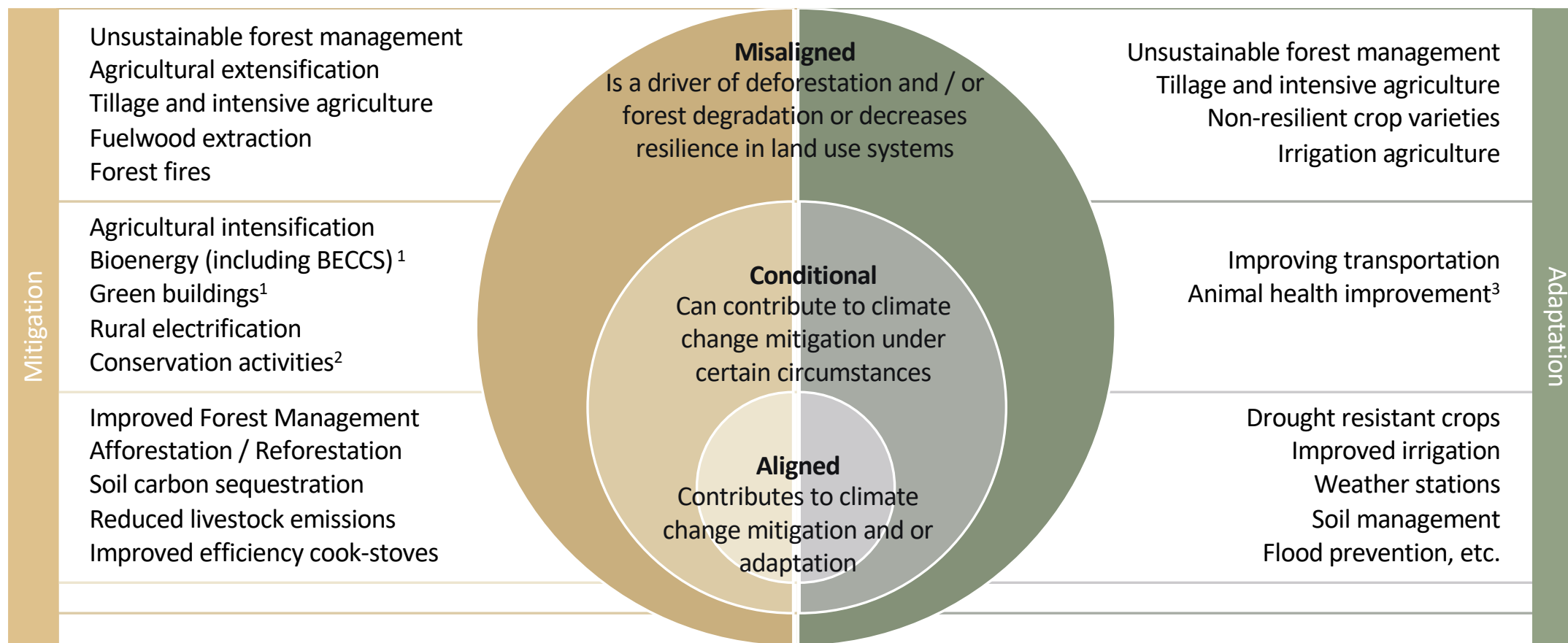
PFES: Payments for Forest Environmental Services



**EUREDD**  
Facility



# Mapping alignment of flows



<sup>1</sup> Can reduce emissions in other sectors but depends on the sustainability of supply

<sup>2</sup> If not managed at a large scale these may result in leakage

<sup>3</sup> Does not always have adaptation benefits

# Panelists

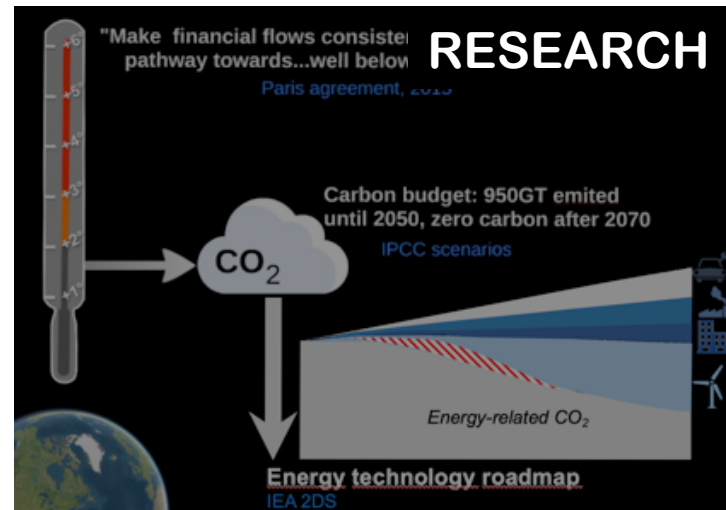
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# ABOUT 2° INVESTING INITIATIVE

**MISSION: MAKING FINANCIAL REGULATION & INVESTMENT FRAMEWORKS CONSISTENT WITH CLIMATE GOALS**

- Think tank created in 2012 – Based in NYC, London, Paris, Berlin
- Supports the private sector, NGOs, policy-makers and supervisors
- Not-for-profit, non-commercial



# OUR JOURNEY

The evolution of climate-related risk metrics for the finance sector

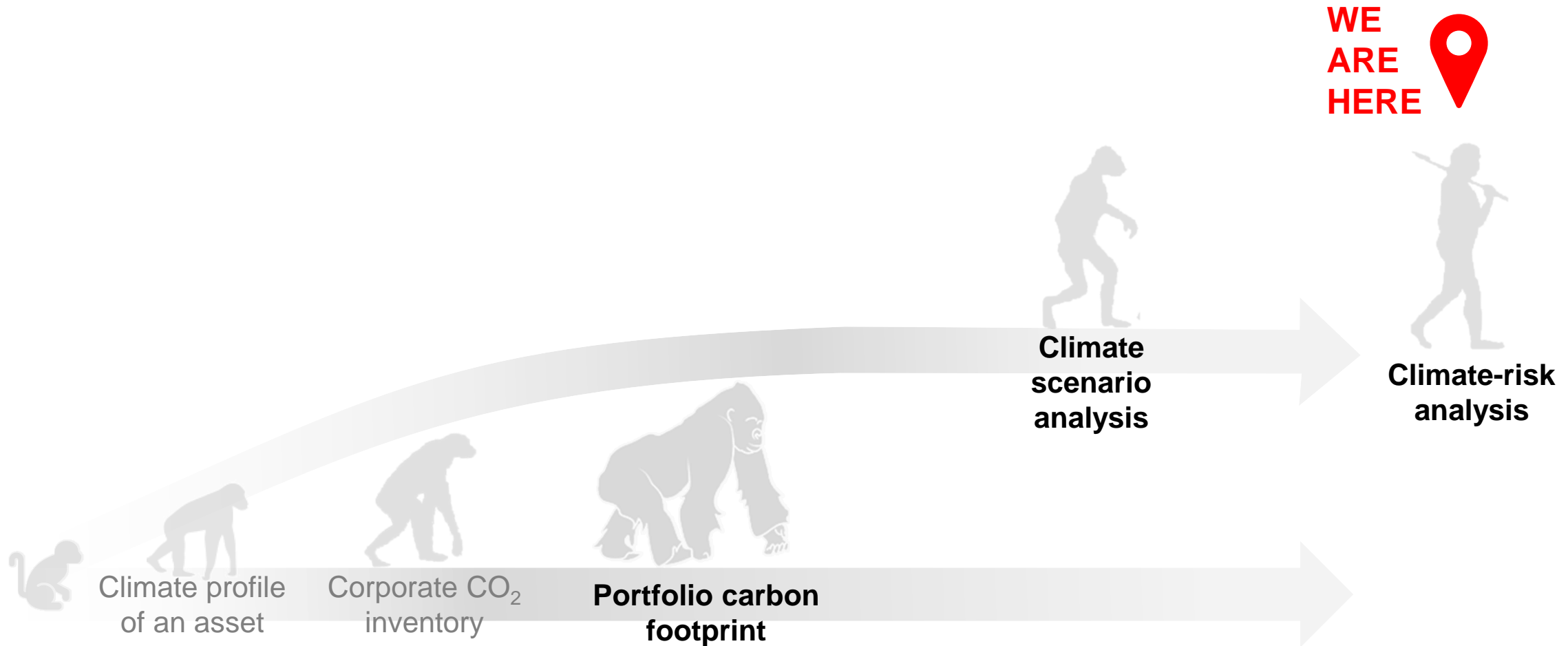
2000

2005

2013

2016

2019



# PACTA IN FIGURES – [transitionmonitor.org](https://transitionmonitor.org)

Leading climate-related portfolio analysis tool in the finance sector

**1,700+** individuals from **more than 1,000** institutions  
have used the tool to conduct over **6,700 tests**



Sept 2019 figures

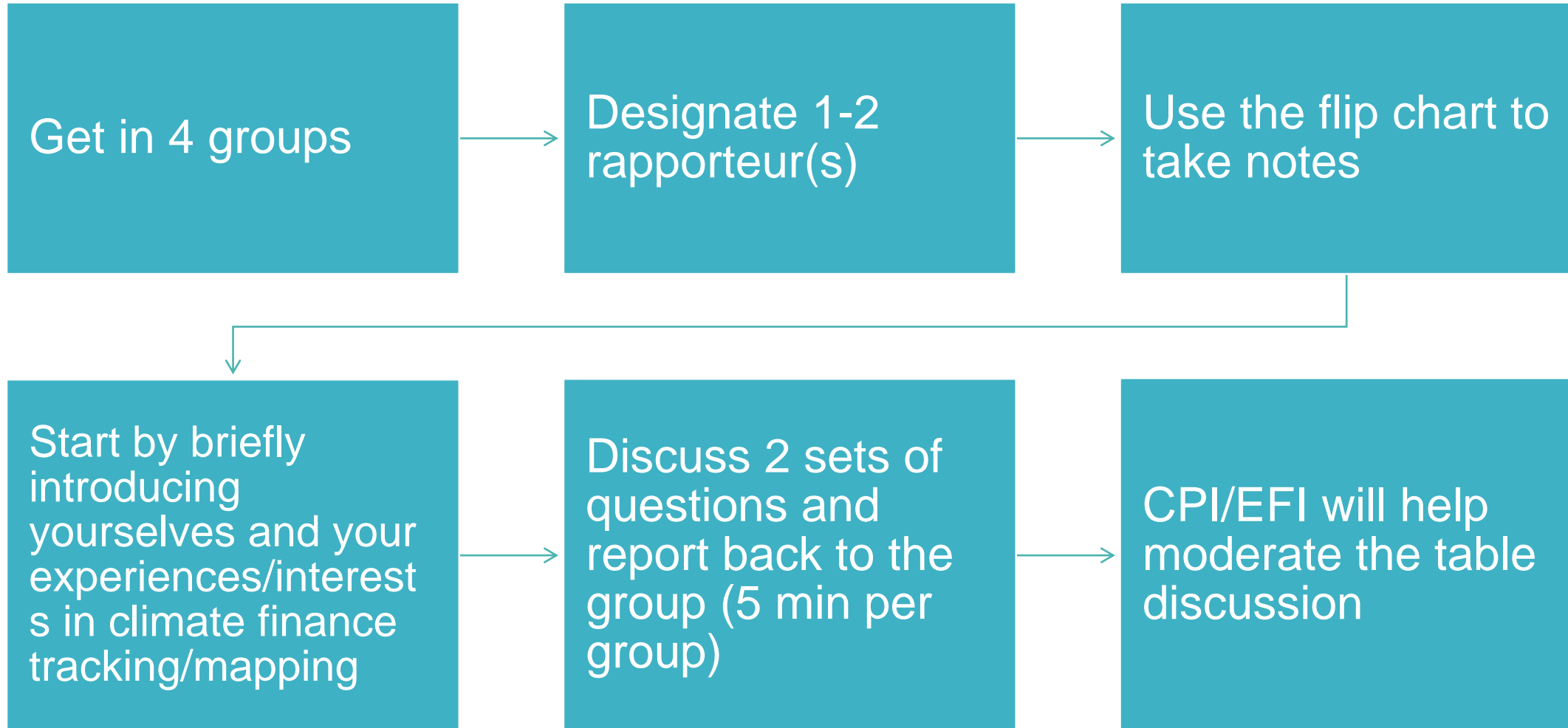




# Break-out groups

Using climate finance mapping to influence policies, mobilize and redirect investment

# Group work



# Questions

Introduce yourself and interest/experience

## Question 1: Influencing policy and spending

- What have been the **key outputs**/what are the key expected outputs of finance tracking/mapping?
- How have they influenced policy or programming processes? What **impact** would you expect from such work?
- What **issues/barriers** have you faced in using the analysis to influence policy and investments?

## Question 2: Practitioners' needs going forward

- Do the tracking/mapping approaches **fit** your needs?
- List **needs and priorities** going forward for the implementation/replication of tracking exercises

# Thank you for participation!