

Workshop

Domestic climate finance mapping and planning

CHALLENGES AND OPPORTUNITIES

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





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

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

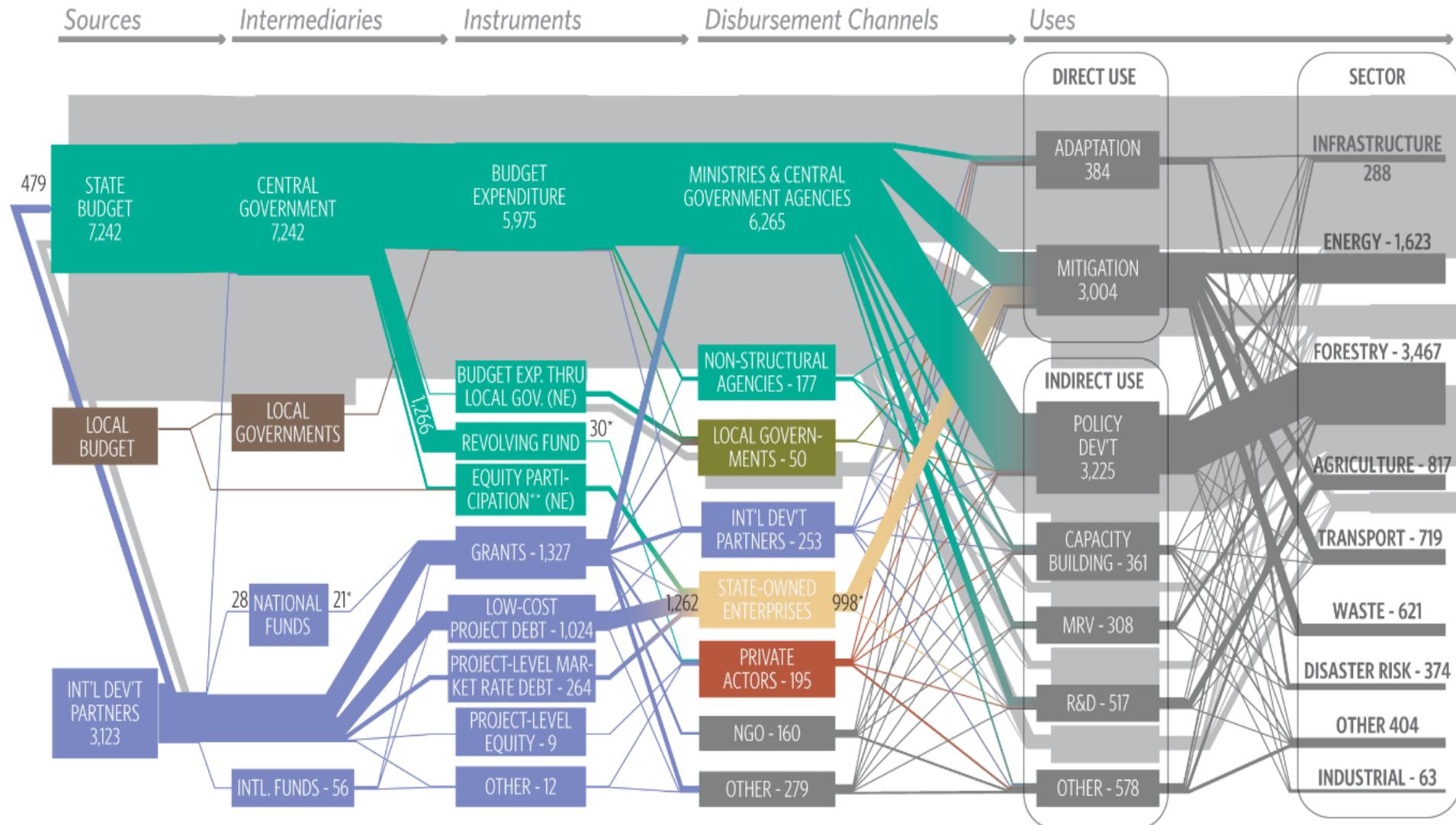


Captures life cycle of flows from providers of finance, intermediaries, instruments, disbursement channels, and uses



- 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

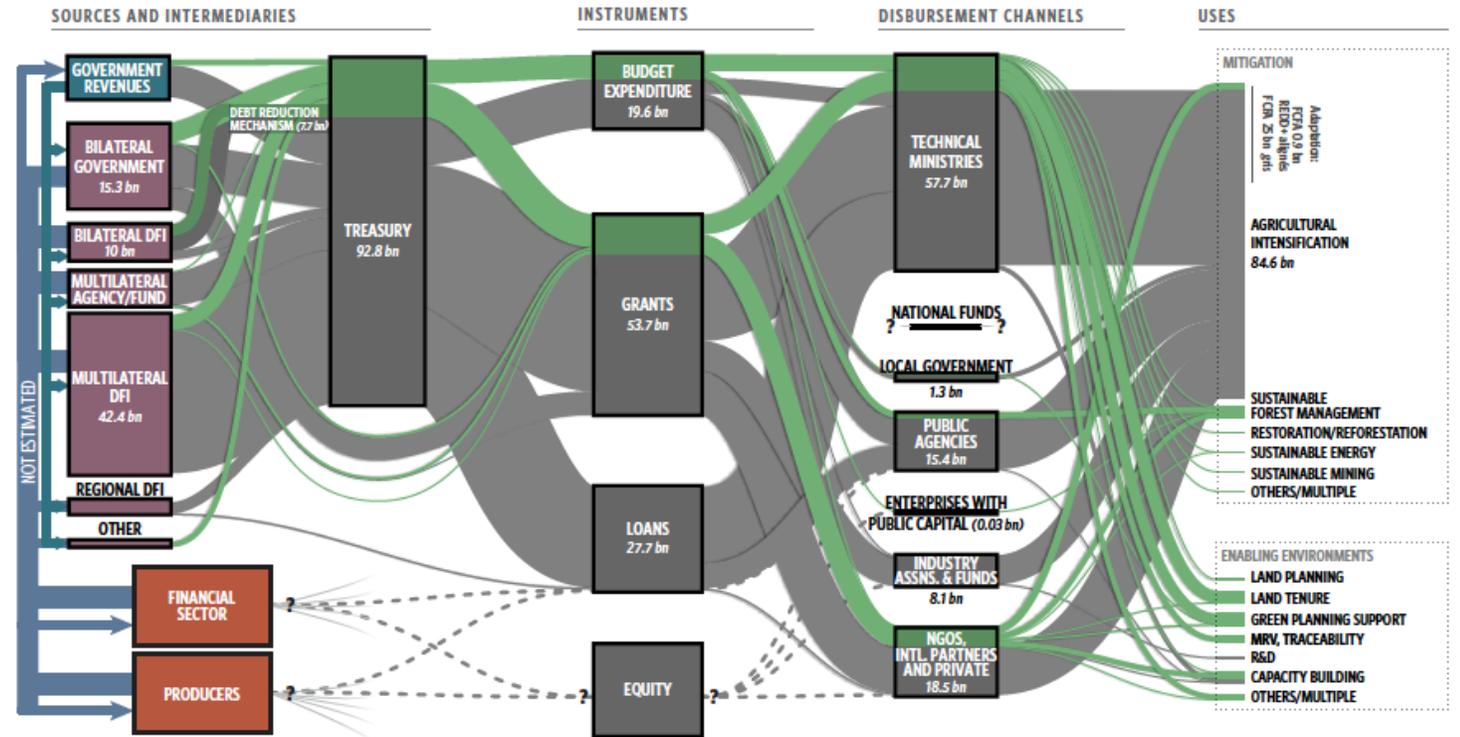


Côte d'Ivoire landscape led to a working definition of REDD+

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

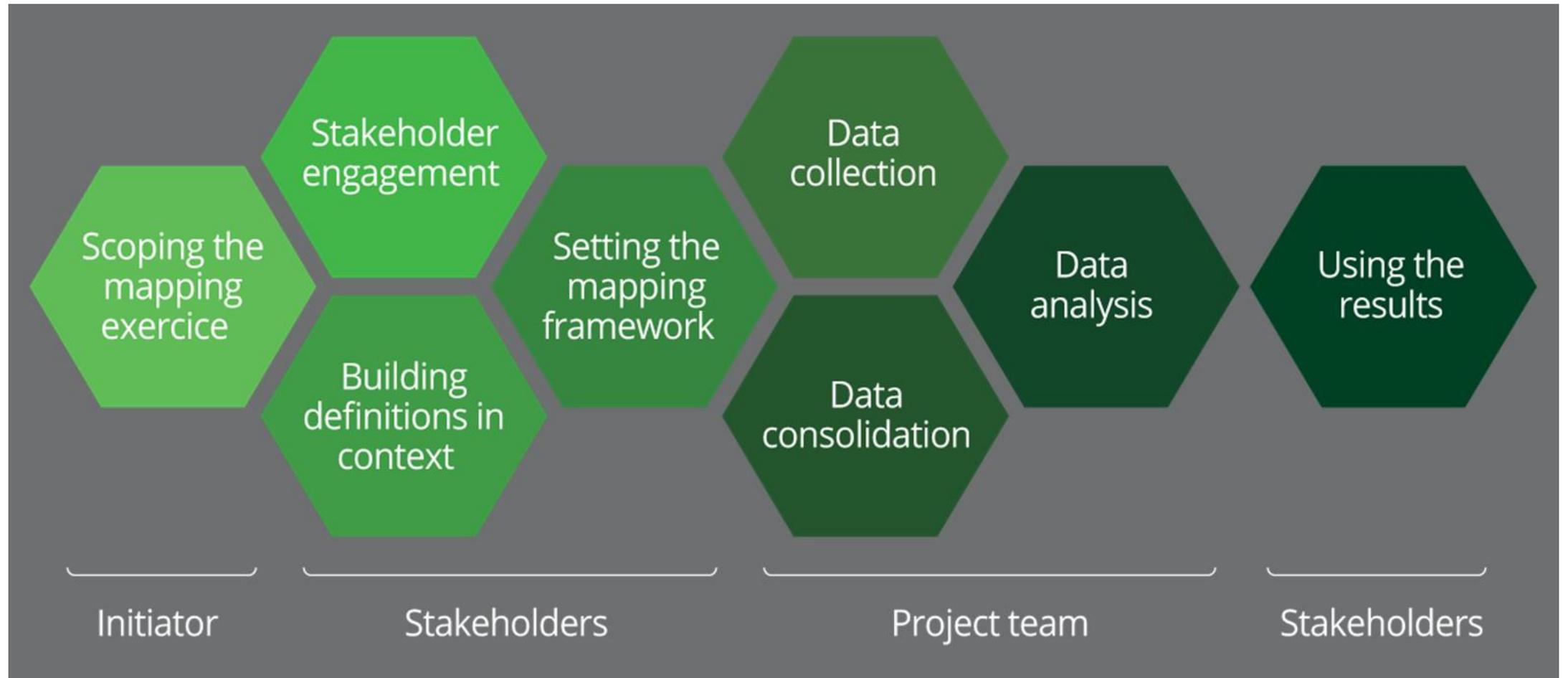


KEY

- PUBLIC MONEY** (Blue)
- PRIVATE MONEY** (Red)
- 2: UNKNOWN** (Grey)
- REDD+ ALIGNED FLOWS** (Green)
- GREY FLOWS** (Light Grey)

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.

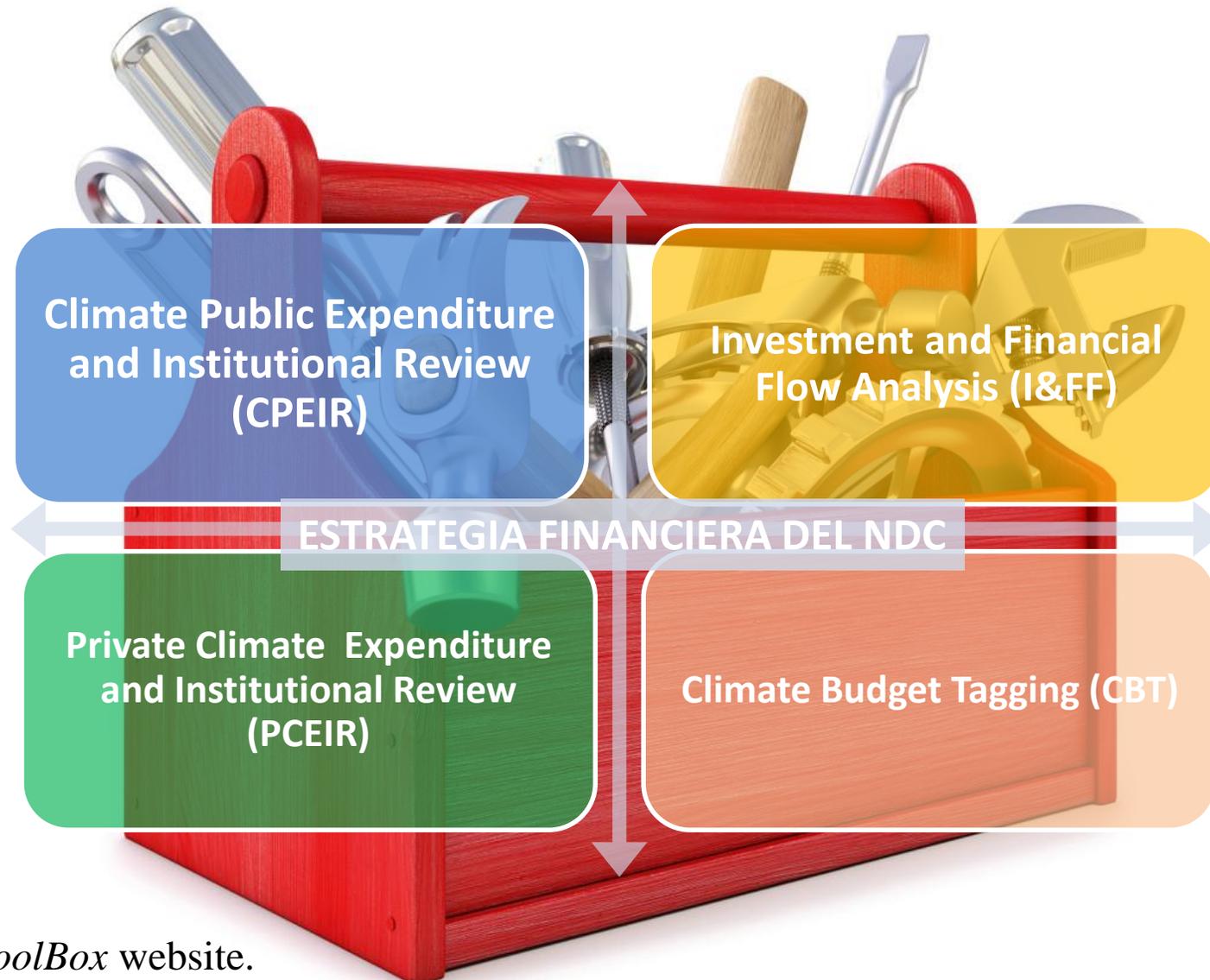
Land-use Finance Mapping Tool



Metodologías para análisis del financiamiento climático desarrolladas por PNUD



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Resilient nations.



NDC Toolbox website.

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





PNUD en el monitoreo de las finanzas climáticas



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

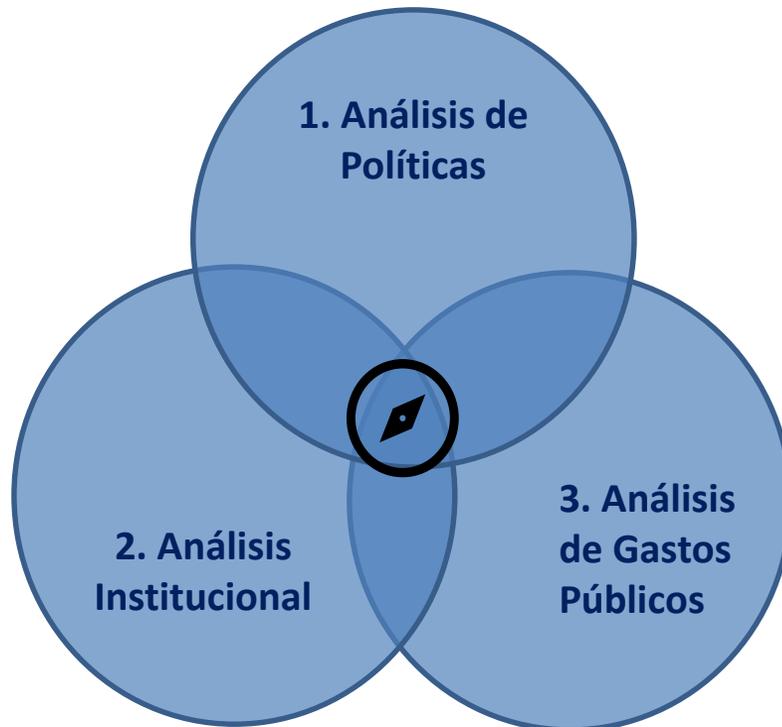
Estructura del CPEIR



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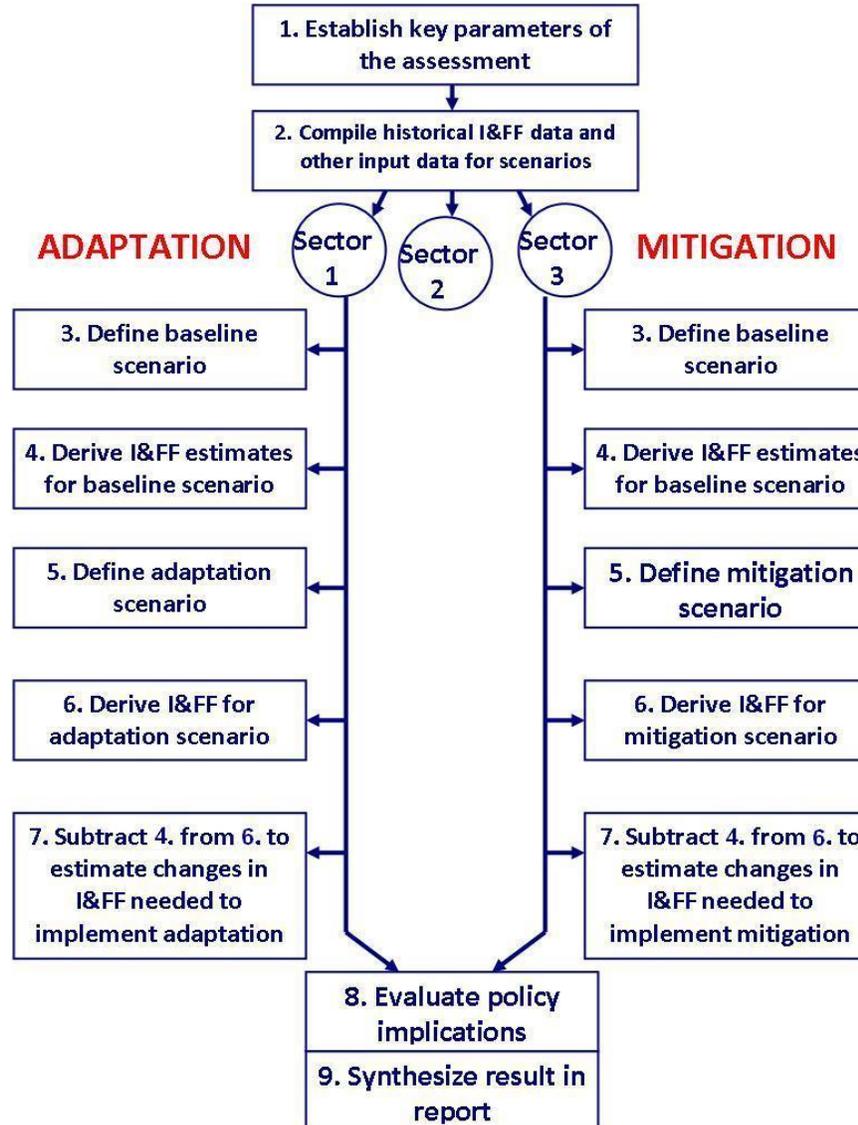
Diagnóstico de las oportunidades y limitaciones para incorporar el cambio climático (NDC) en el proceso de asignación y ejecución del gasto público nacional

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



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

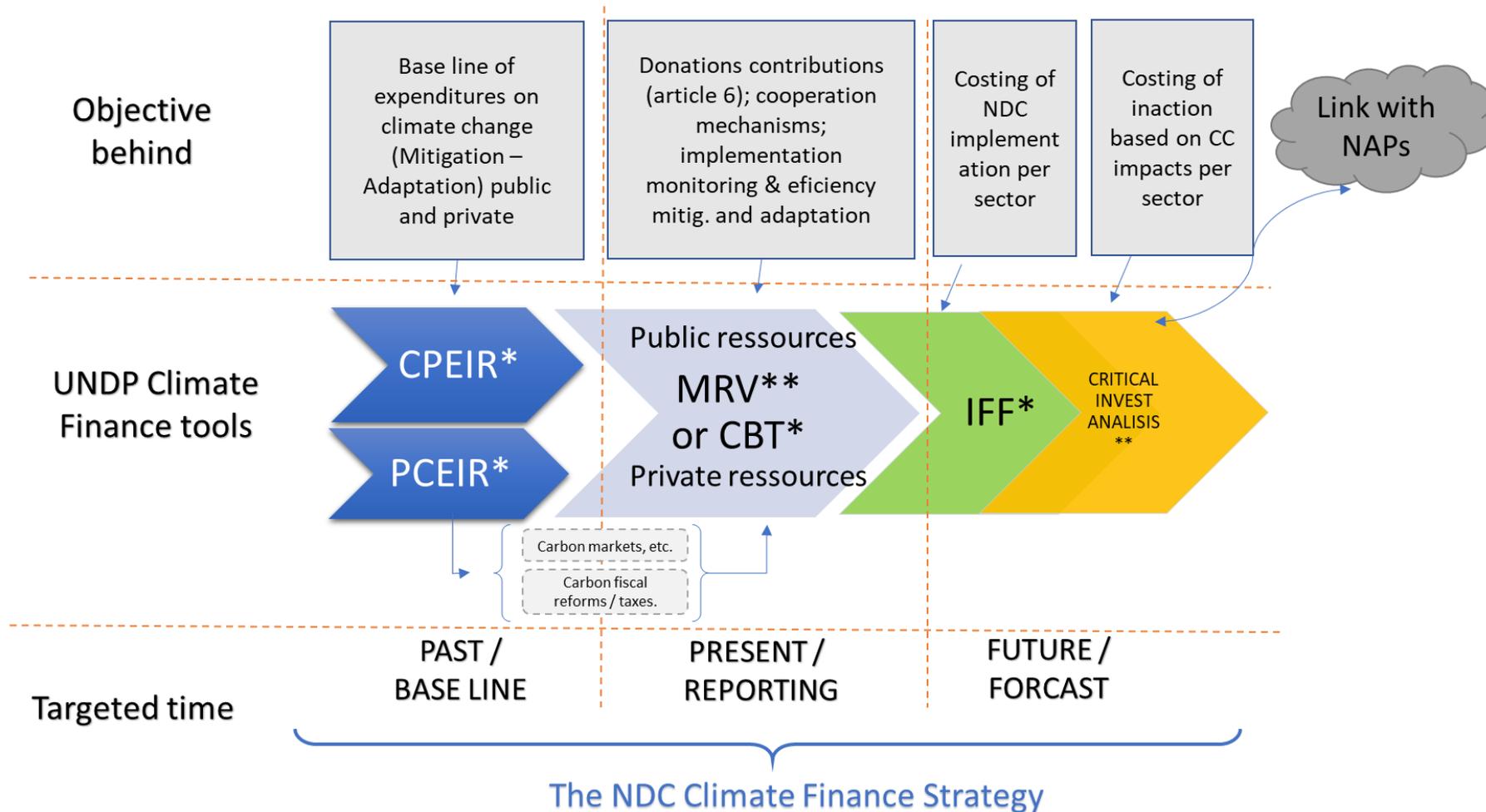
4

- 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



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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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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



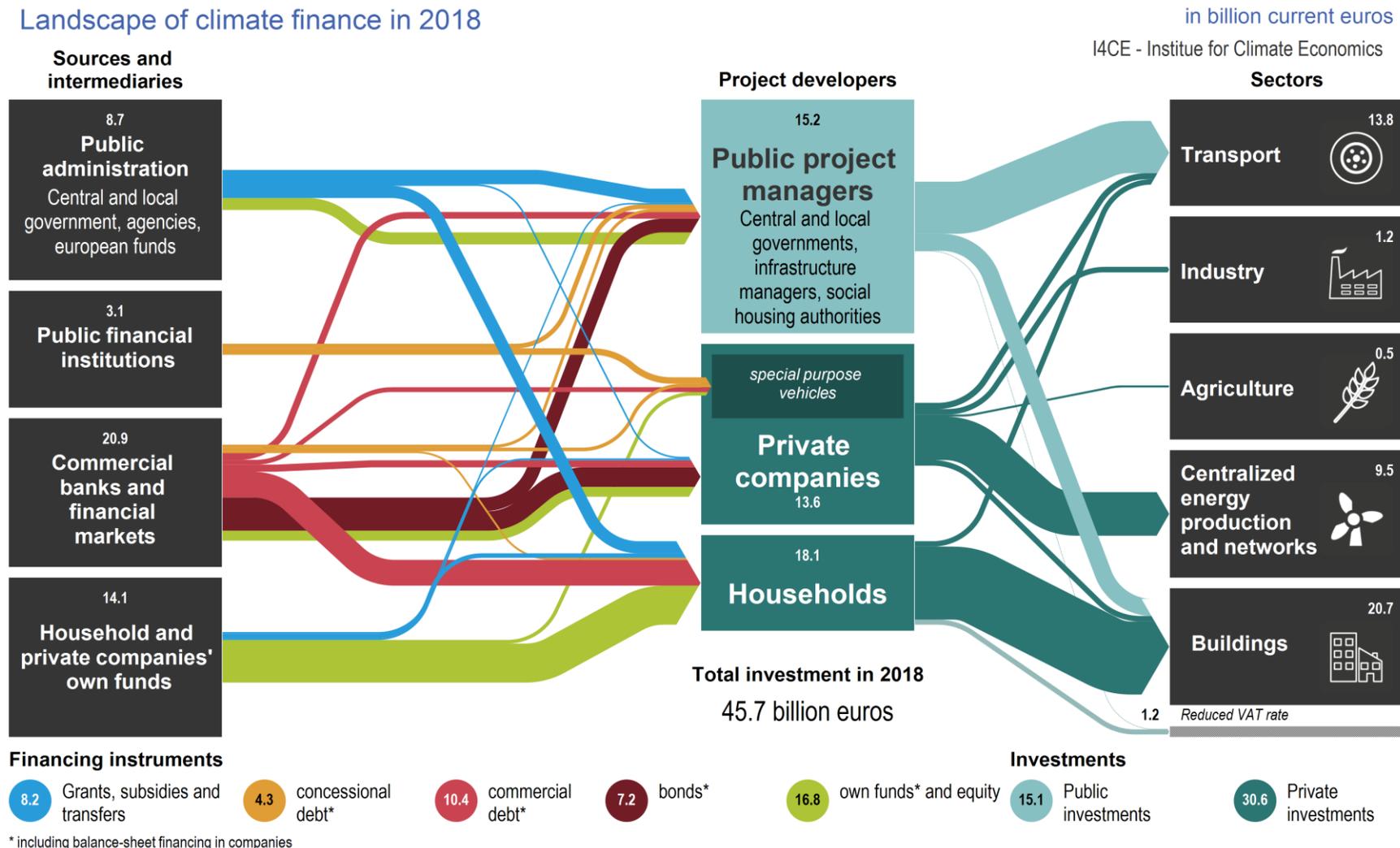
ADEME



Agence de l'Environnement
et de la Maîtrise de l'Énergie

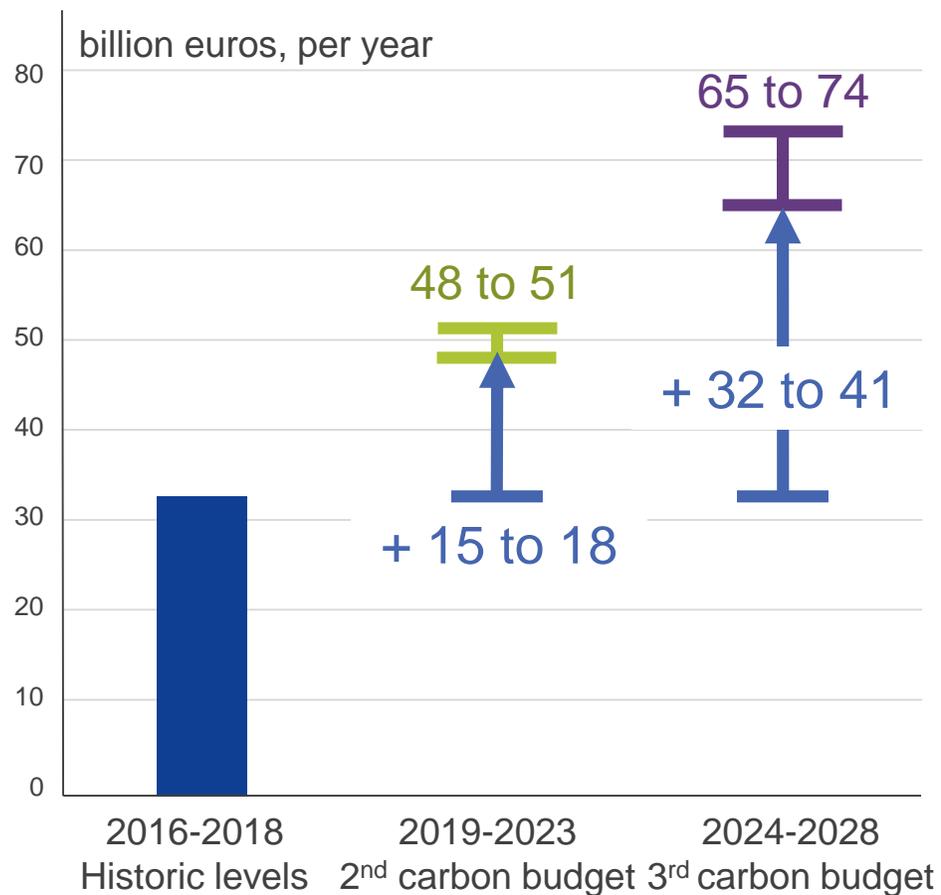
Climate investments in 2018: 45.7 billion euros

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

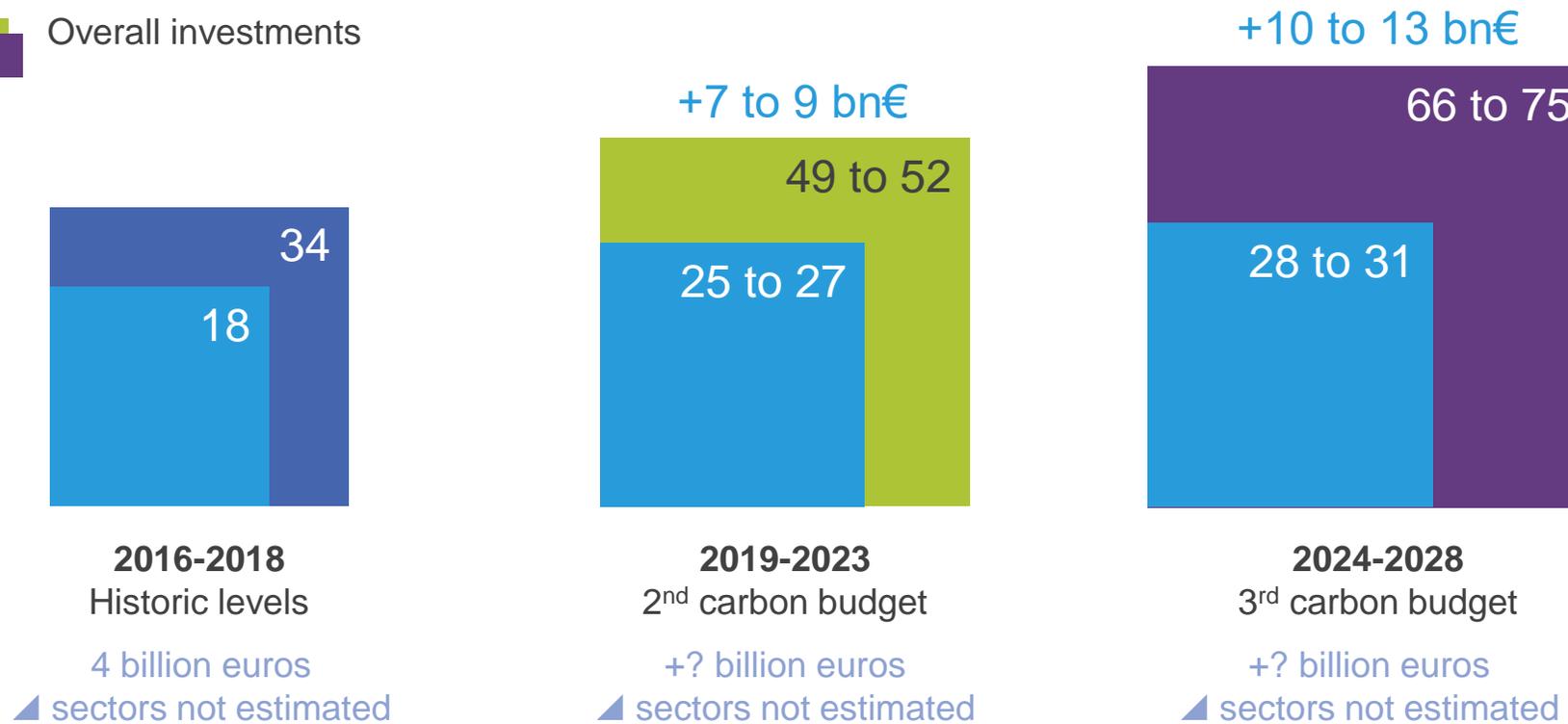
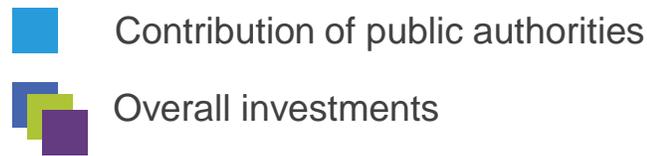


SECTORIAL COVERAGE OF INVESTMENT NEEDS

(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

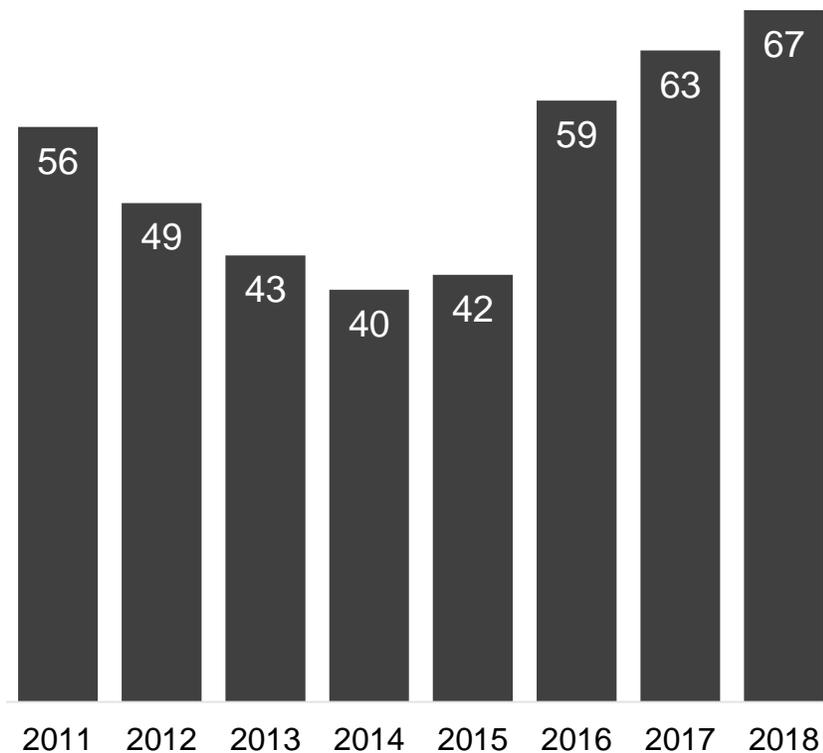
CONTRIBUTION OF PUBLIC AUTHORITIES TO THE FUNDING OF CLIMATE INVESTMENTS



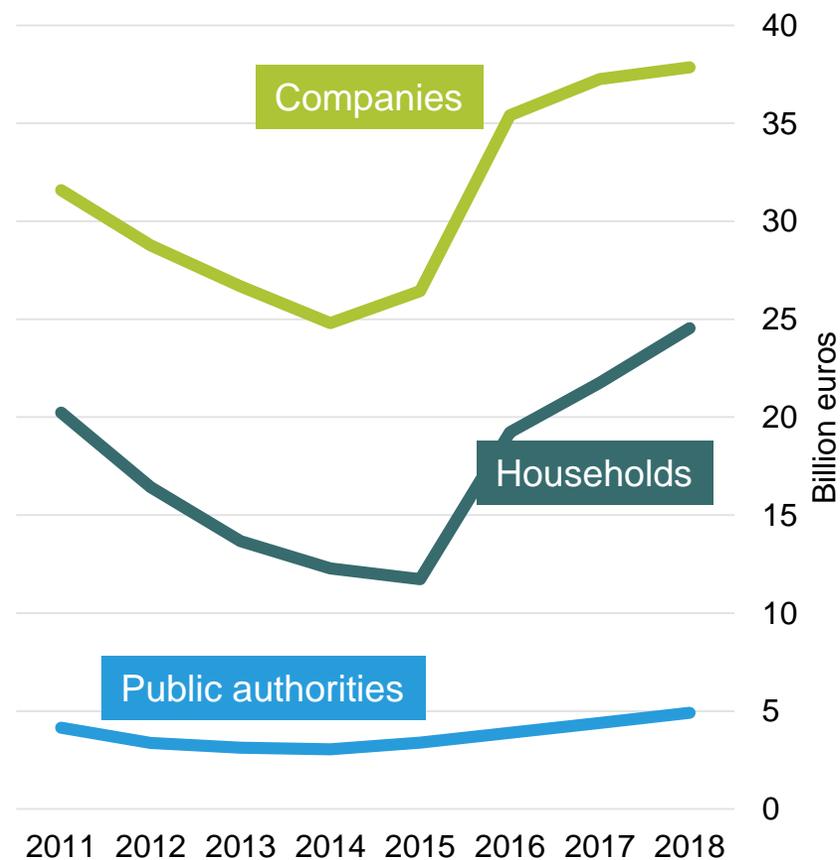
Financial flows projection principle: each sector achieved the investment objectives set in the SNBC by maintaining the proportion between public and private financing sources and instruments observed in 2016-2018.

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



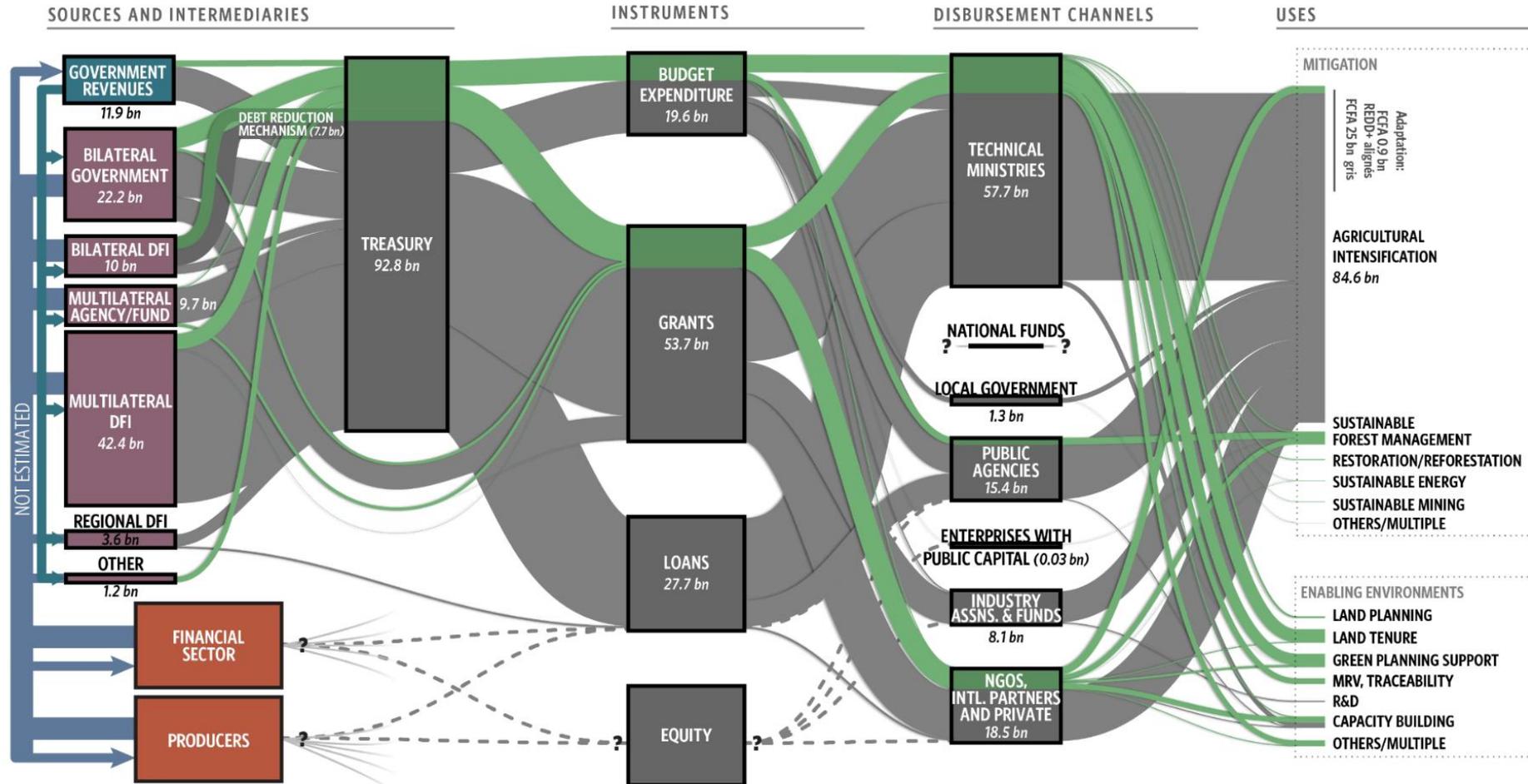
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THE LANDSCAPE OF REDD+ ALIGNED FINANCE IN CÔTE D'IVOIRE IN 2015

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



KEY

PUBLIC MONEY	PRIVATE MONEY	?: UNKNOWN	REDD+ ALIGNED FLOWS
PUBLIC FINANCIAL INTERMEDIARIES	UPSTREAM SOURCES OF FINANCE AND TRANSFERS BETWEEN ACTORS		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.



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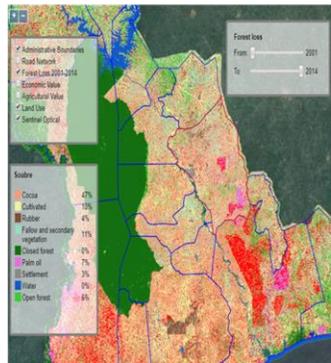
CLIMATE
POLICY
INITIATIVE

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

- Inventaire des terres** qui classifie 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 1 et II/SPOT pour plus de précision
- Cadre de valeur socio-économique** qui met l'accent sur les mécanismes d'incitation 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
- Système d'alerte rapide** afin d'améliorer l'application de la loi en :
 - Identifiant 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

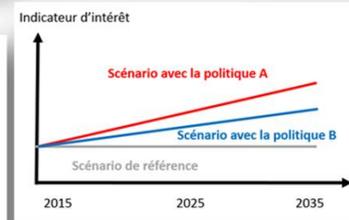
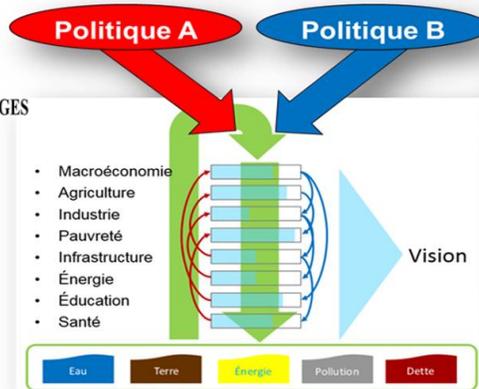
MODEL THRESHOLD 21(T21) CÔTE D'IVOIRE

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

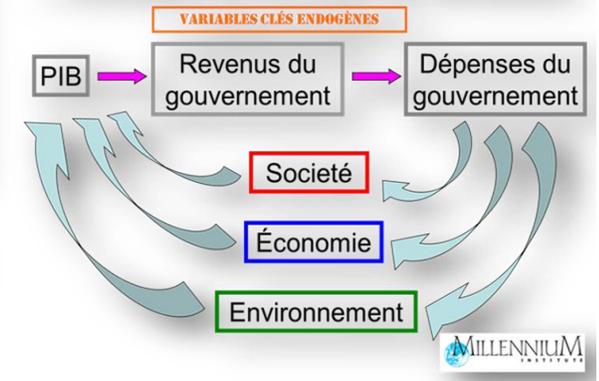


T21-iSDG Côte d'Ivoire



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)

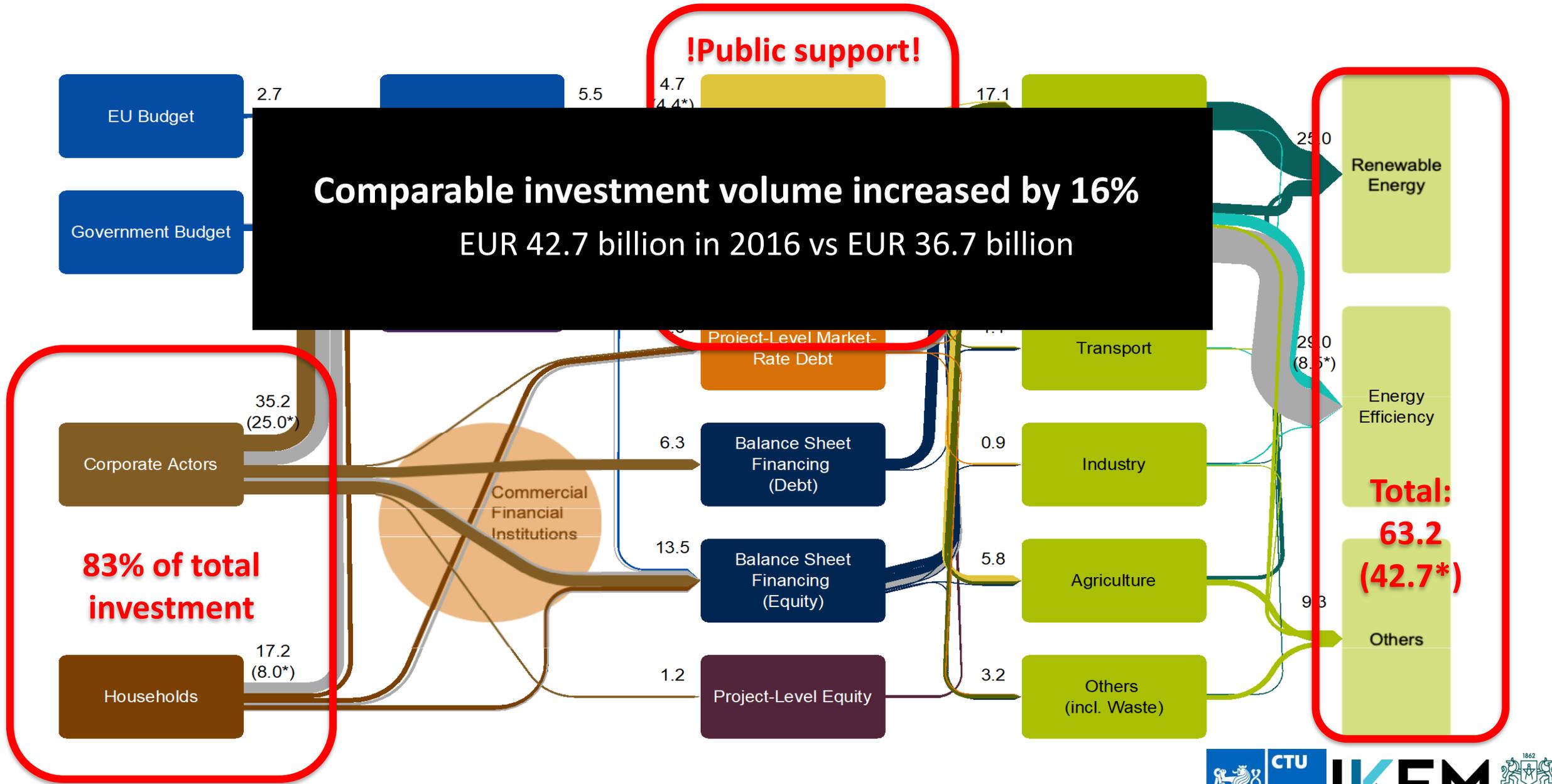
Michaela Valentova, PhD

Czech Technical University in Prague (CVUT)

Agris Kamenders, PhD

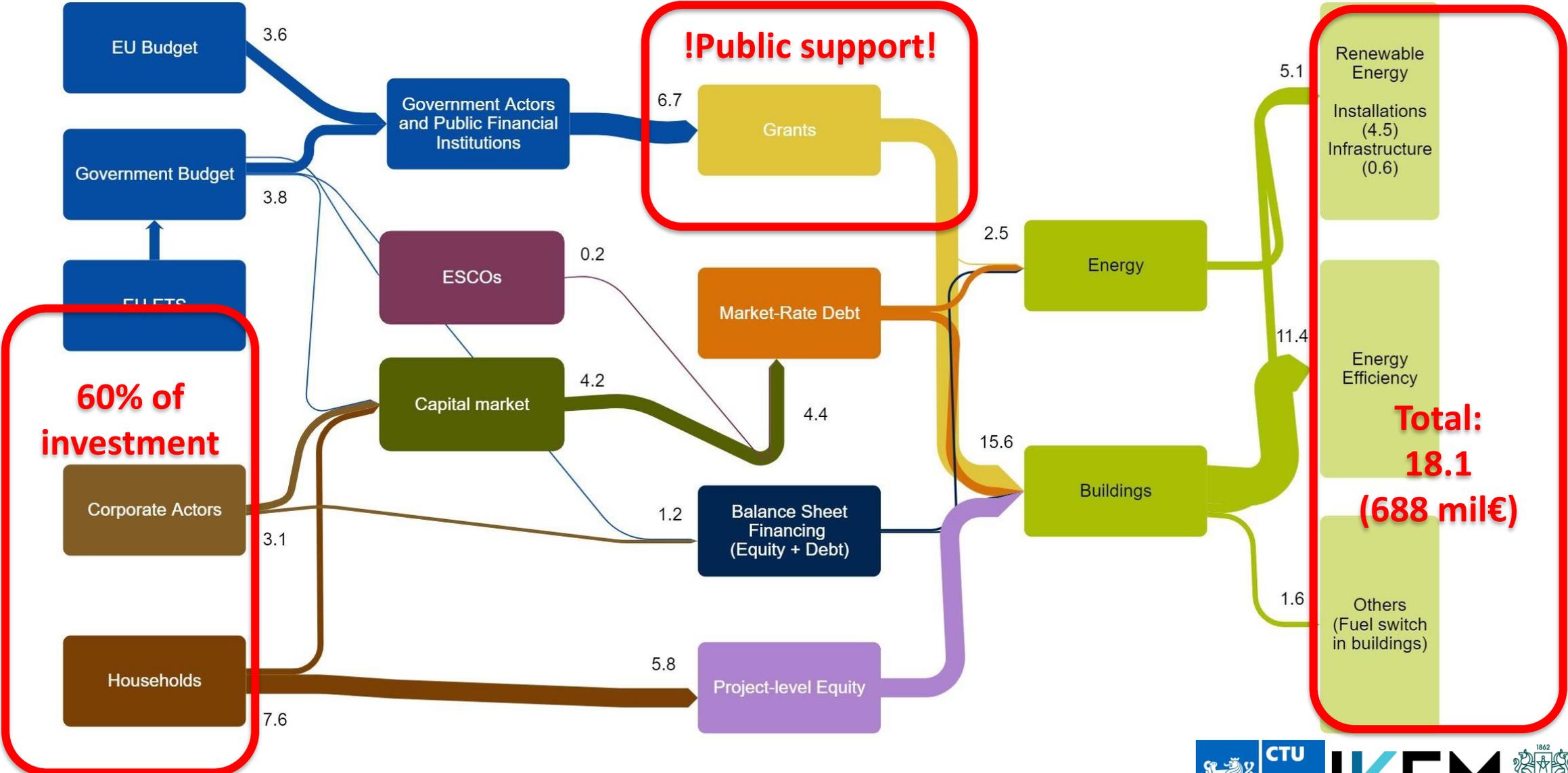
Riga Technical University (RTU)

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



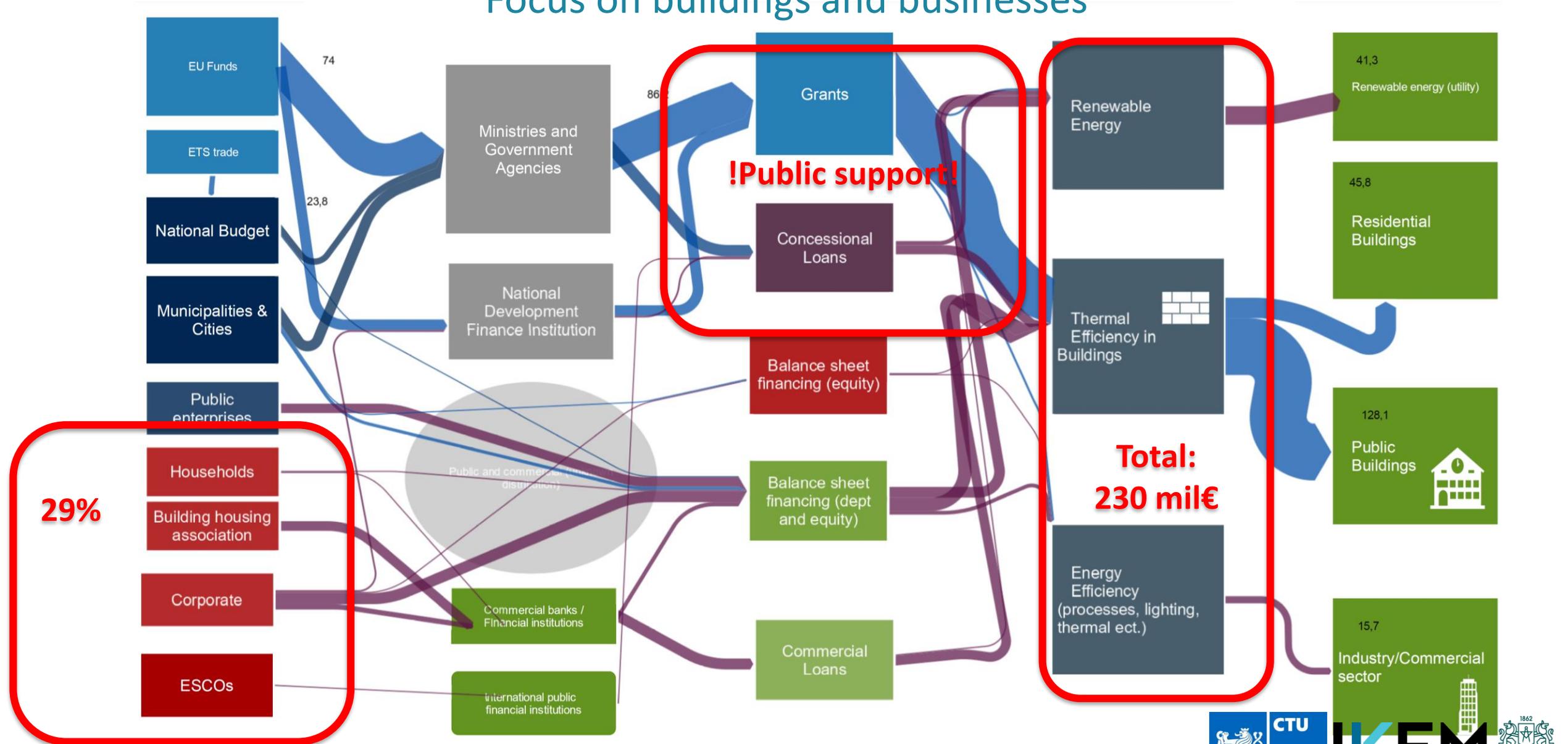
Climate and energy investment map of Czechia, billion CZK. Status 2017.

Focus on buildings and renewable energy supply & infrastructure



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

Focus on buildings and businesses



IKEM

Institute for Climate Protection, Energy and Mobility
Aleksandra Novikova | aleksandra.novikova@ikem.de

CIC2030 project

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



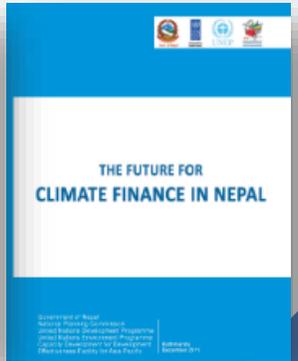
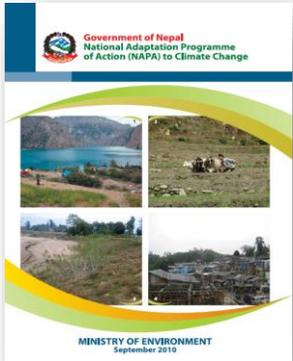
Integrating Climate Finance in the Budget: A Case from Nepal

Kailash Raj Pokharel

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

Evolution of Governance of Climate Finance

2010

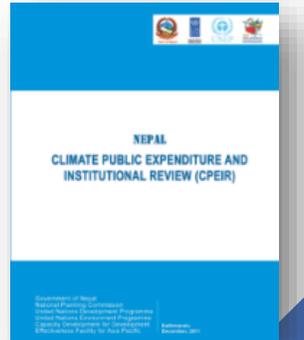


National Adaptation Programme of Action

Climate Change Policy

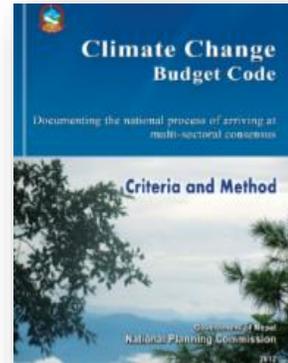
Future for Climate Finance

2011



Climate Public Expenditure & Institutional Review (CPEIR)

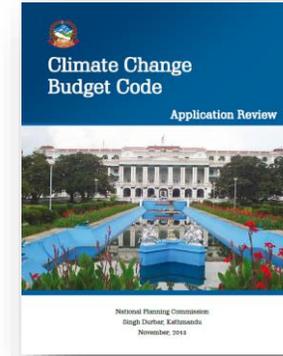
2012



Climate Change Budget Code

- 11 Criteria developed
- Tracking of budgeting of Budget

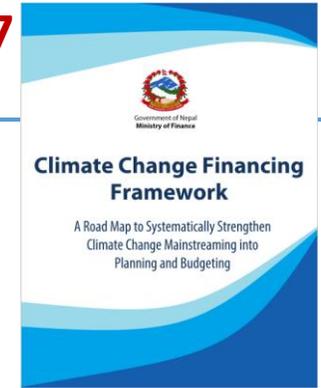
2013



Climate Change Budget Code: Application Review

- Review of 11 Ministries on CC Budgeting

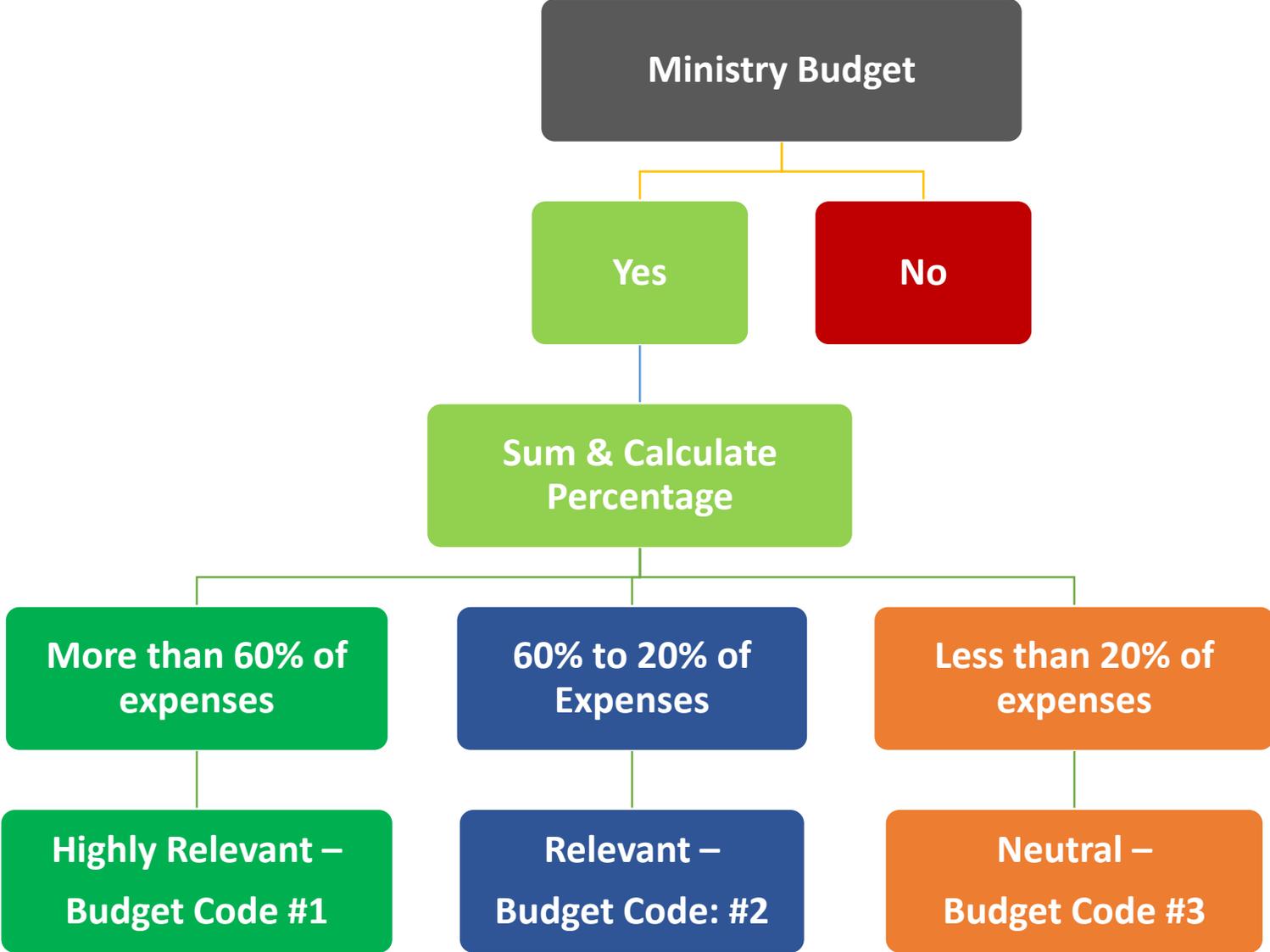
2017



Climate Change Financing Framework (CCFF)

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

Tracking Climate Budget: The Process



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 polices.*

• 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

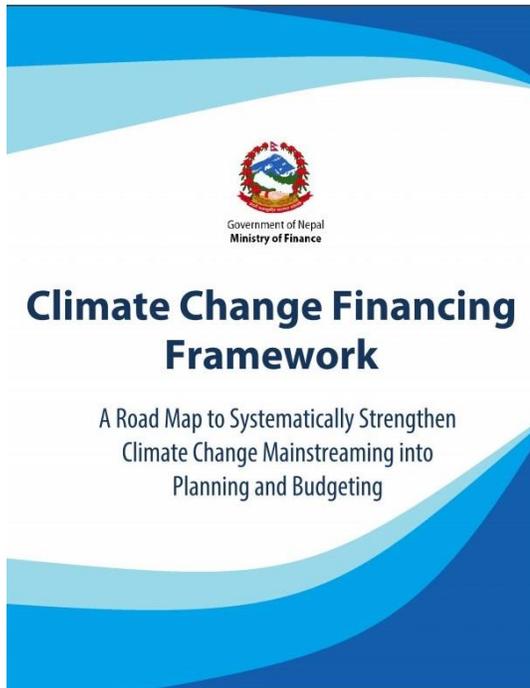
- *Continuously introduce PFM reforms for effective climate finance governance*

• 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*



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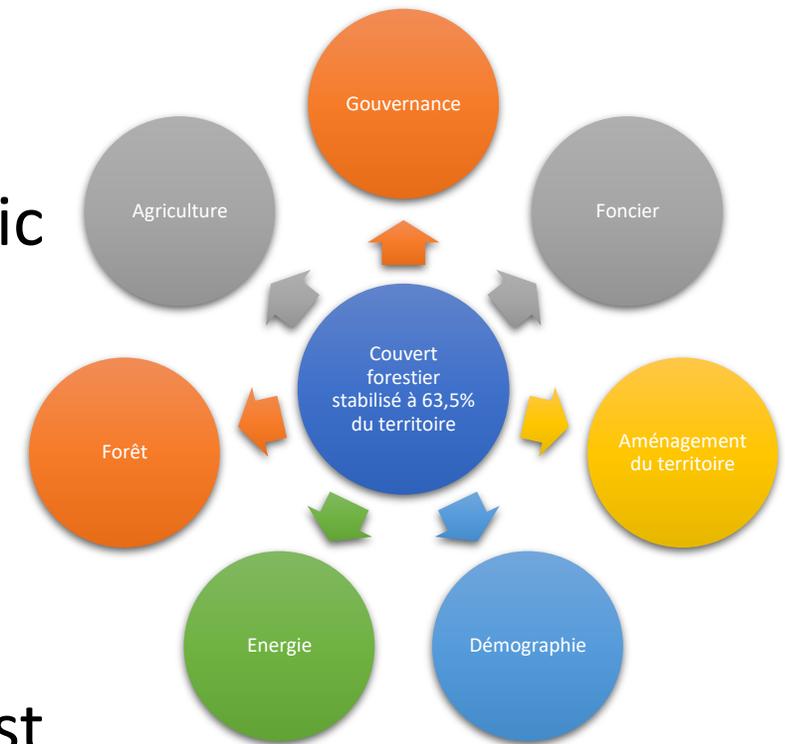
REDD+ Financial Flows in the DRC

COP25, 6th of December 2019, Madrid

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

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

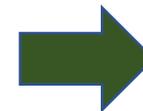
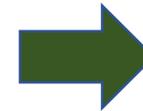
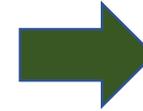
- Coordination by the Ministry of Finance
- Experts recruited on a competitive basis

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

Recruitment of
National Consultant
finalized in
October 2019

Recruitment of
International
Consultant finalized in
December 2019

Collection of data
Start January 2020

Analysis
2020-2021

Finalized Report
Mid-2021

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
- **Aleksandra Novikova**, IKEM, Landscapes of Climate Finance in Czech Republic, Latvia and Germany
- **Kailash Raj Pokharel**, Under Secretary, Ministry of Finance, Nepal
- **Victor Kabengele**, Deputy coordinator of the REDD National Fund, DRC
- **Gianluca Merlo**, UNDP NDC Support program
- **Adeline Dontenville**, EU REDD Facility, European Forest Institute
- **Simon Messenger**, Director, 2 Degrees Investing

landusefinance.org

Land-use Finance Tool

Home Why What How Tool Contact English

Land-use Finance Tool

Do you want to learn how to unlock finance for sustainable land use?

This Tool was developed by the EU REDD Facility and Climate Policy Initiative to help countries/jurisdictions and their partners better understand investments affecting forests at national and sub-national levels.

[TELL ME MORE](#) [ACCESS TOOL](#)

SOURCES INTERMEDIARIES INVESTORS

Land-use Finance Tool

A diagnostic tool that enables a quantitative analysis of the alignment of public and private investments with climate and forest objectives.

EU REDD Facility EPI

6.3 How to categorise data against the national land-use finance definition

Once the user has a clean consolidated dataset, records need to be filtered for their relevance, and categorised applying the land-use finance definition and typology developed earlier in this project (see Module 3) according to the following steps:

1. Classification of budget lines, activities and programmes into climate-aligned/conditionally-aligned
2. Applying a weighting strategy
3. Categorisation into dimensions in line with mapping framework (defined in Module 4)

6.3.1 Classifying budget lines, activities and programmes

The following guiding questions can be used to classify individual financial flows according to the definition developed in Module 3:

- Is the activity a known driver of deforestation or forest degradation, or does the activity contribute to atmospheric CO₂ removals?
- Does the activity improve upon business-as-usual practices, for example by contributing to emission reductions?
- Is the activity aimed at improving the enabling environment, for example towards implementation of the National REDD+ Strategy?

The process of classifying financial flows may identify additional sectors or activities that are considered climate-relevant, that were not considered during the initial definition setting stage. These additional activities can be incorporated into the typology to improve the overall definition of climate-relevant land-use finance.

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?



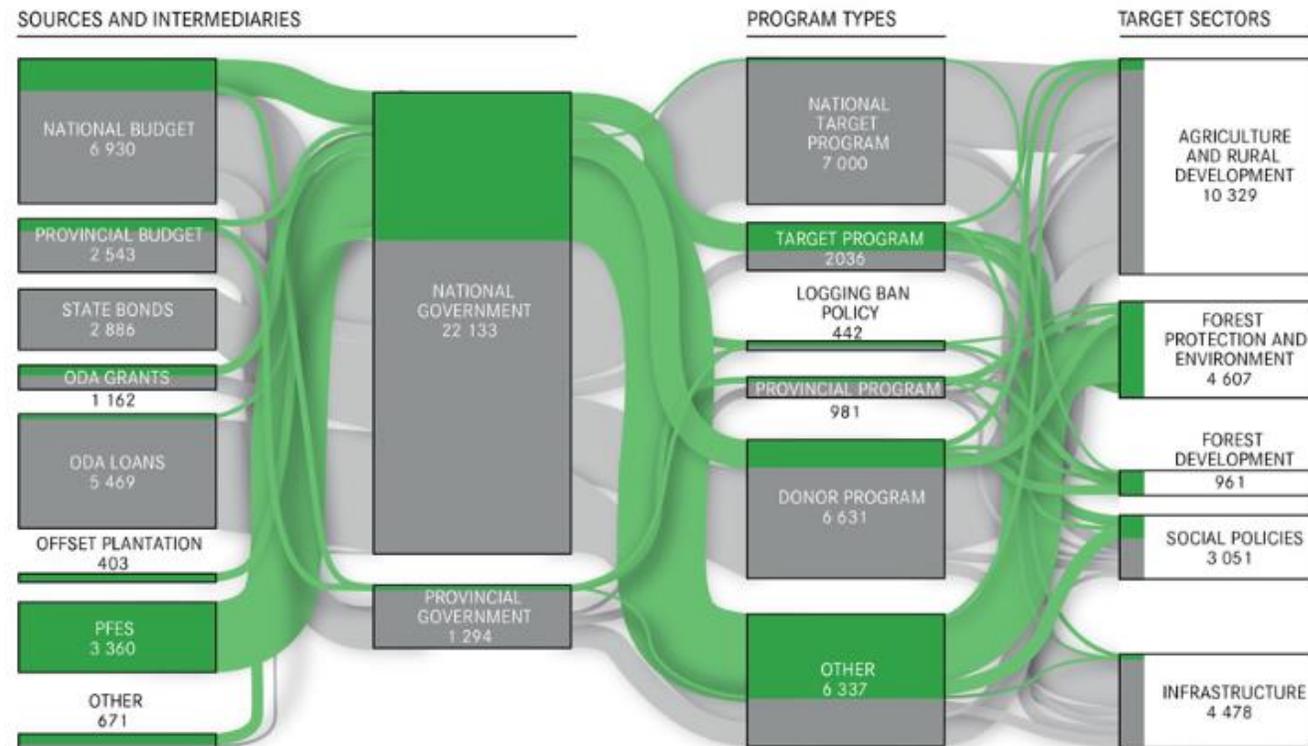
Monitoring

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



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)

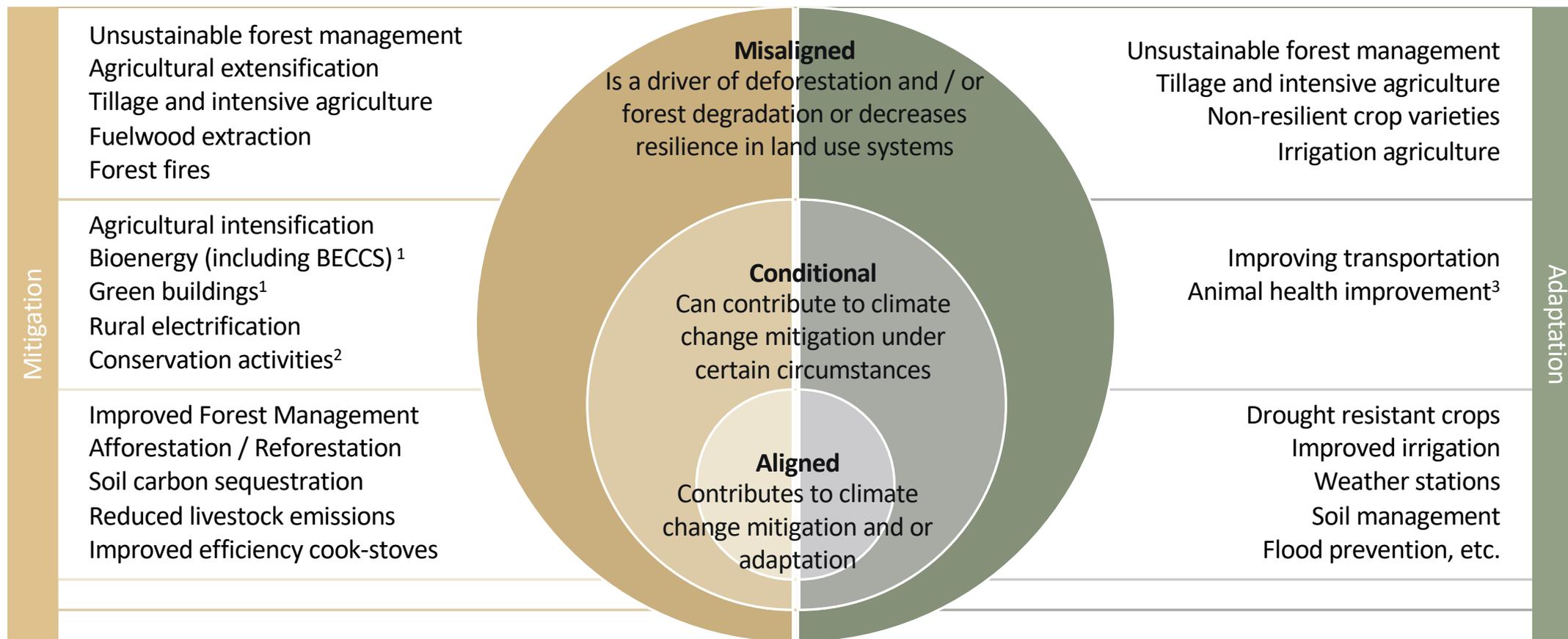
Non-aligned Planned activities whose impact on the forest cover is unknown. These planned activities are not aligned with the objectives of the NRAP, but could be if certain enabling conditions were in place.

NRAP: National REDD+ Action Plan
ODA: Official Development Assistance
PFES: Payments for Forest Environmental Services

All figures in VND billion



Mapping alignment of flows



¹ Can reduce emissions in other sectors but depends on the sustainability of supply

² If not managed at a large scale these may result in leakage

³ Does not always have adaptation benefits

Panelists

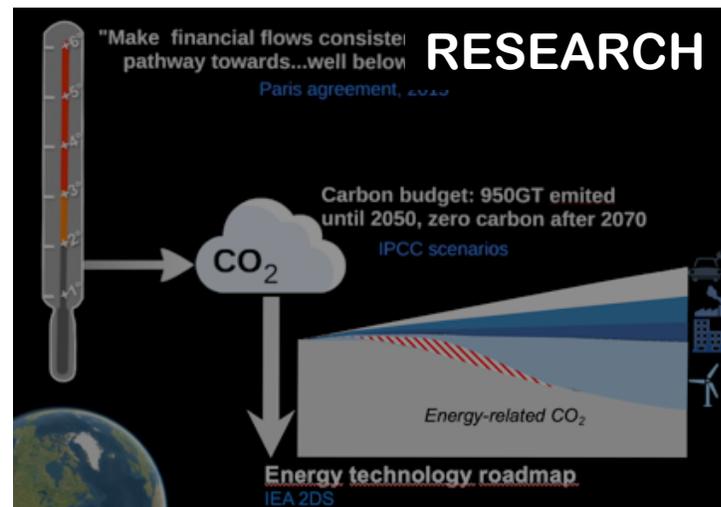
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ABOUT 2° INVESTING INITIATIVE

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

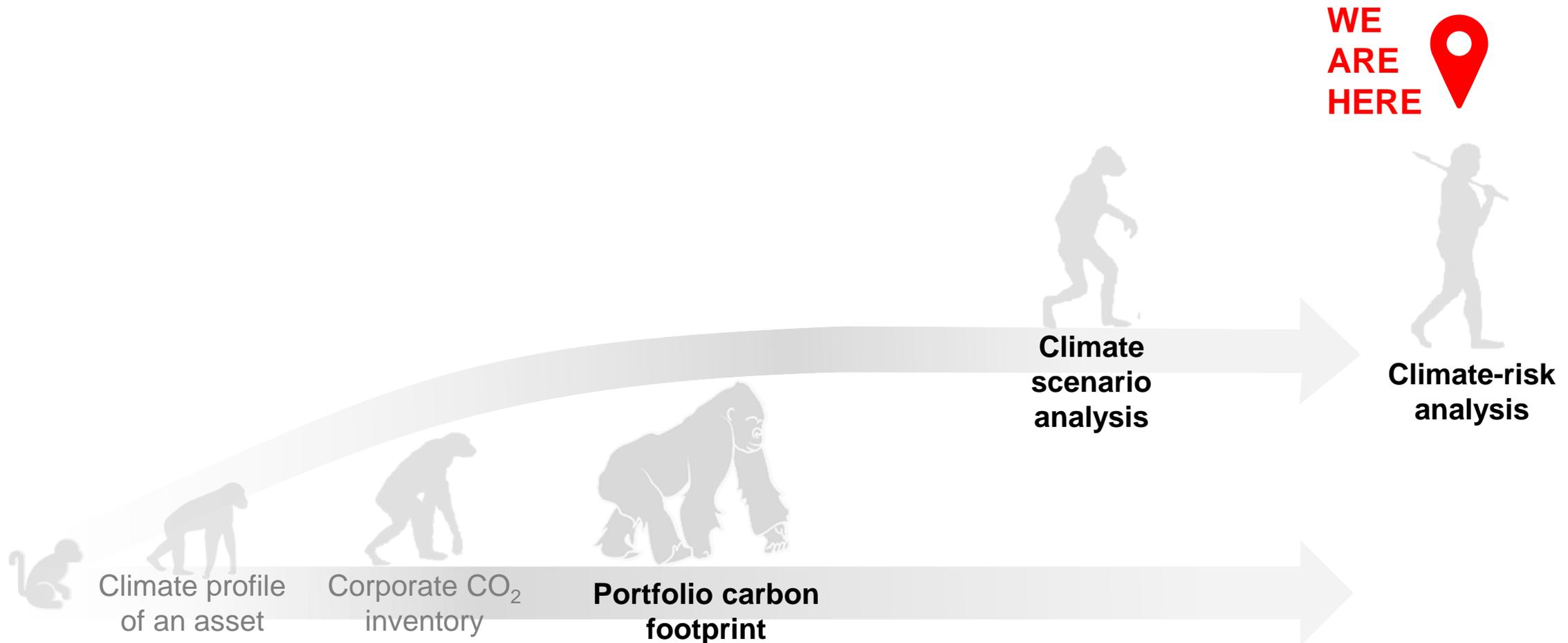
2000

2005

2013

2016

2019



PACTA IN FIGURES – transitionmonitor.org

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



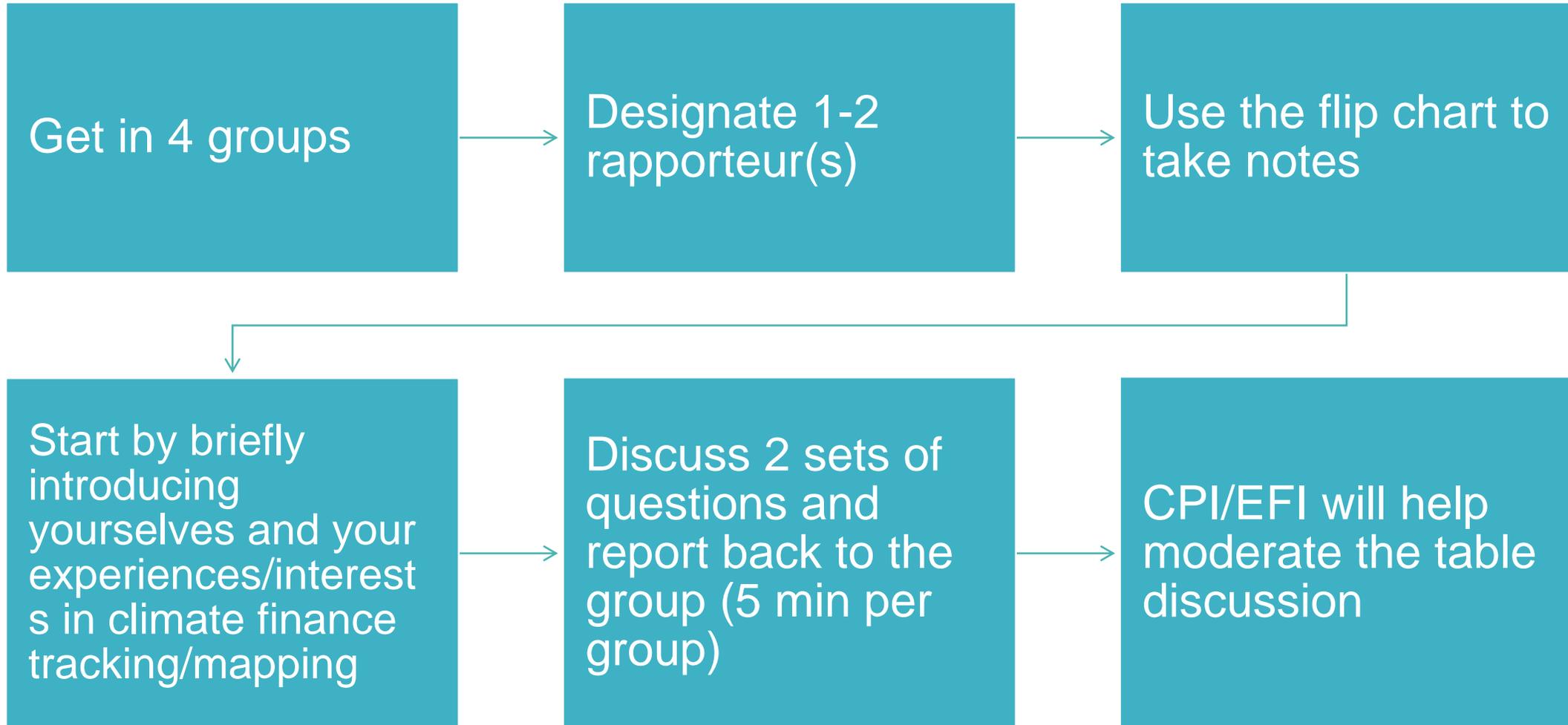
Sept 2019 figures



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!

EUREDD
Facility



CLIMATE
POLICY
INITIATIVE