

 Brussels, Belgium

# Connecting Global Minds for Circularity

As part of the  
GIZ Circular Economy Week  
in Brussels 2024



# Hosted by GIZ's Global Programmes

## Go Circular

on behalf of the German Federal Ministry of Economic Cooperation and Development

On behalf of



## Environmental Protection Worldwide

on behalf of the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection

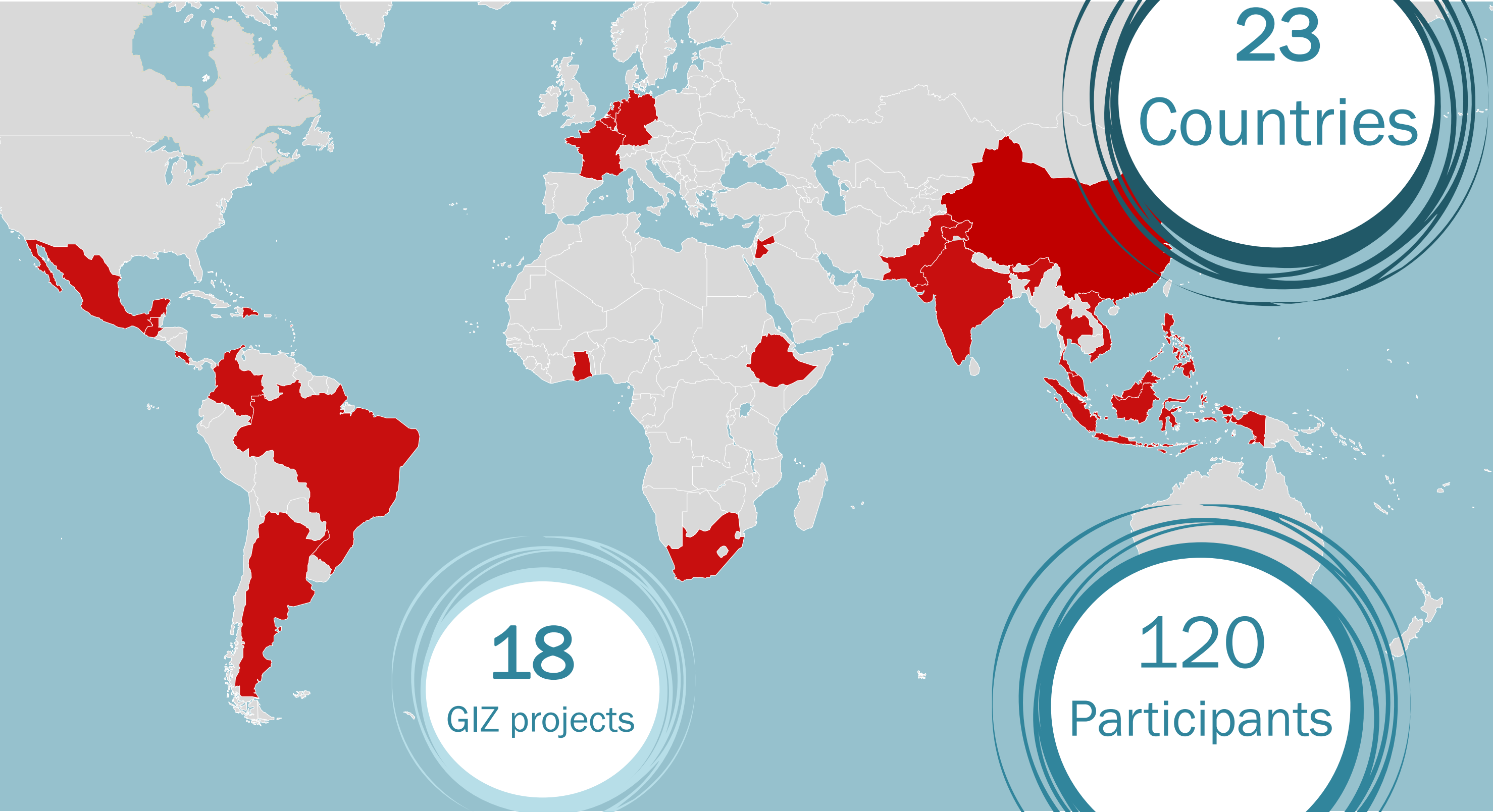
On behalf of:



of the Federal Republic of Germany



# Countries represented in today's event



**23**  
**Countries**

**18**  
GIZ projects

**120**  
Participants

- ASIA**  
China  
India  
Indonesia  
Jordan  
Malaysia  
Pakistan  
Thailand  
Vietnam

- AFRICA**  
Egypt  
Ghana  
South Africa

- EUROPE**  
Belgium  
France  
Germany  
The Netherlands

- LATIN AMERICA & The CARIBBEAN**  
Argentina  
Brazil  
Colombia  
Costa Rica  
Dominican Republic  
Guatemala  
Mexico  
St. Lucia

# International cooperation, partnerships and alliances - imperative for a shift to Circular Economy



## Global Sustainability

- Circular economy principles contribute to a large set of the UN's **Sustainability Development Goals (SDG)**.
- International partnerships are imperative to **align policies, share best practices and mobilize resources**



## Resource Efficiency

- Circular economy promotes the efficient use and reuse of resources by **addressing global challenges like environmental pollution, climate change, biodiversity loss** and resource scarcity.



## Economic Development

- Circular economy fosters **sustainable economic growth** by creating new **business opportunities, promoting innovation** and **creating new job opportunities** across international value chains.

# Agenda

Time	Topic
09:00 – 09:15 am	Welcome
09:15 – 10:30 am	<b>Session 1: Circular Economy Finance</b>
10:30 – 11:00 am	Coffee break ☕
11:00 – 12:30 pm	<b>Session 2: Cities as Drivers for Circularity</b>
12:30 – 01:30 pm	Lunch and networking 🗨️ 🤝
01:30 – 03:00 pm	<b>Session 3: Interactive Thematic Networking</b>
03:00 – 03:30 pm	Coffee break ☕
03:30 – 04:50 pm	<b>Session 4: Impact of EU Circular Economy Policies on International Value Chains</b>
04:50 – 05:15 pm	Endnote



# Opening Welcome Note

## Lars Selwig

German Federal Ministry for Economic  
Cooperation and Development (BMZ)



## Dr. Inga Wagner

German Federal Ministry for the  
Environment, Nature Conservation,  
Nuclear Safety and Consumer  
Protection (BMUV)





**Session 1**

# **Circular Economy Finance**

# Keynote

## Global context of circular economy finance

**Mauricio Vélez García**

Asobancaria, Colombia





# Circular Economy for the banking sector

Mauricio Vélez, Head of Sustainability  
Banking Association of Colombia

April 2024, Brussels.

# What does circular economy mean for people, planet and profits?

1

A global circular economy will allow us to fulfil people's needs with only 70% of the materials we now extract and use

2

In 2023, recycled or secondary materials account 7.2% of all materials inputs into the economy.  
2018: 9.1%  
2020: 8.6%

3

Extracted materials have increased from 28,6 Gt in 1972 to 101.4 Gt in 2021. We could reduce it by one-third or it could reach 184 Gt in 2050

4

Circular economy could have USD 4.5 trillion potential for economic growth by 2030 and USD 700 billion in consumer material savings

## Circularity in banks



### Sustainable or green financial products and services

- Credit portfolio: green loans, leasing or renting for circular projects, assets or activities, according to the green taxonomy.
- Circular criteria to design new financial products such as sustainability linked loans or bonds as well as circularity linked loans (mostly for large corporations), using KPIs such as food waste reduction, % of recycled materials / raw materials.
- Blended finance: rediscount credit lines or grants from development banks or public institutions to partially cover the risk for commercial banks and reduce the rate for borrowers, in specific destinations such as circular economy.

## Circularity in banks



### Risk management

- Analyze circular criteria through the Environmental and Social Risk Management (ESRM) system to check alignment with the global or national framework, such as the green taxonomy.
- As part of the credit risk process, banks can include circularity metrics such as extended producer responsibility (EPR), scarcity of materials, new regulations for use of resources → mitigating the risk of default.
- Boosting circular finance by adding a circular lens to risk management, for example, implementing a circular risk scorecard in the decision-making processes to define financial conditions in lending or specific covenants with clients.

# SUSTAINABLE FINANCE GOALS (SFG)



Finance for  
**the planet**



Finance for  
**equality**



Finance for  
**diversity**



Finance for  
**wellbeing**



TARGETS 2030





Finance for  
**the planet**

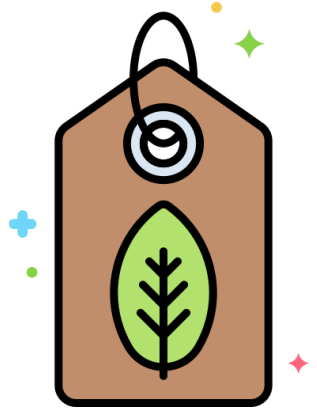
# Green lending portfolio

2023: \$4 USD billion (3% of total portfolio)

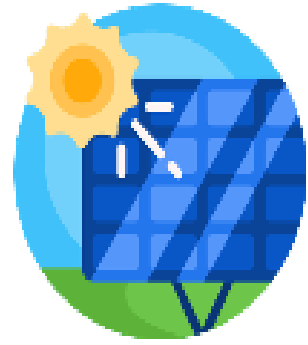
Goal 2030: **\$35 USD billion (11%)**

# Sustainable lending portfolio

2023: \$18 USD billion



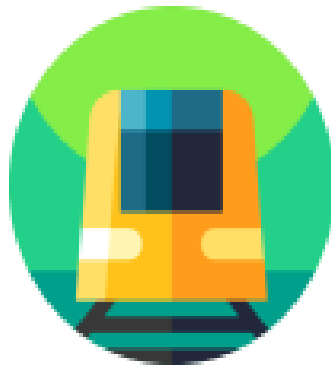
# Number of financial institutions with green products and services



**11**  
Energy



**6**  
CO2 Capture



**10**  
Transportation



**5**  
Water and waste



**9**  
Building



**4**  
Information &  
Technologies



**9**  
Land Use



**3**  
Manufacturing

**15 financial institutions in Colombia with green lending portfolio**



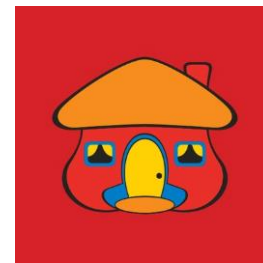
# Financing Program for circular economy



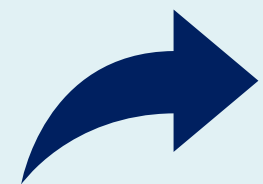
# Financial institutions



Banca♥mía



## Results

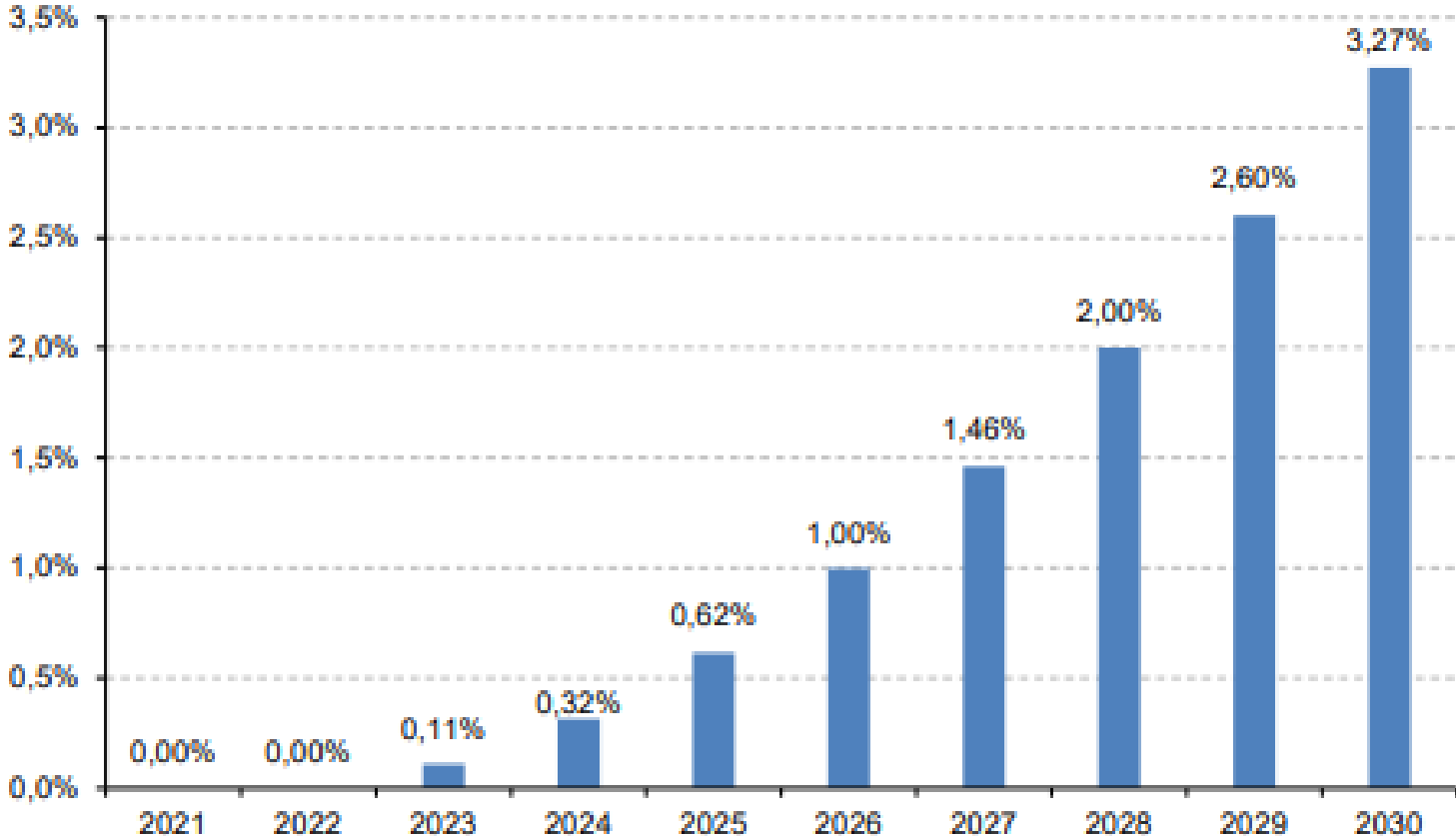


- Colombia has a National Circular Economy Strategy (ENEC) launched in June 2019. This is aligned with the National Green Business Plan 2022 - 2030 and the National Development Plan 2022 - 2026. This Plan has a goal of 12,630 verified green businesses, 150,000 new green and inclusive jobs, and \$2.1 billion COP by 2030.
- Major lines of action: flows of industrial and mass consumption materials, biomass, energy sources, water and construction materials.
- **Criteria for Circular Economy Projects.** **Bancolombia:** Waste management, Circular models, Extension of life product, Products as a service, Platform models. **Bancóldex:** Waste recovery, Reduction in the use of natural resources, Recycling.

# What would happen to the Colombian economy and GHGs if policies and actions for the Circular Economy are promoted?

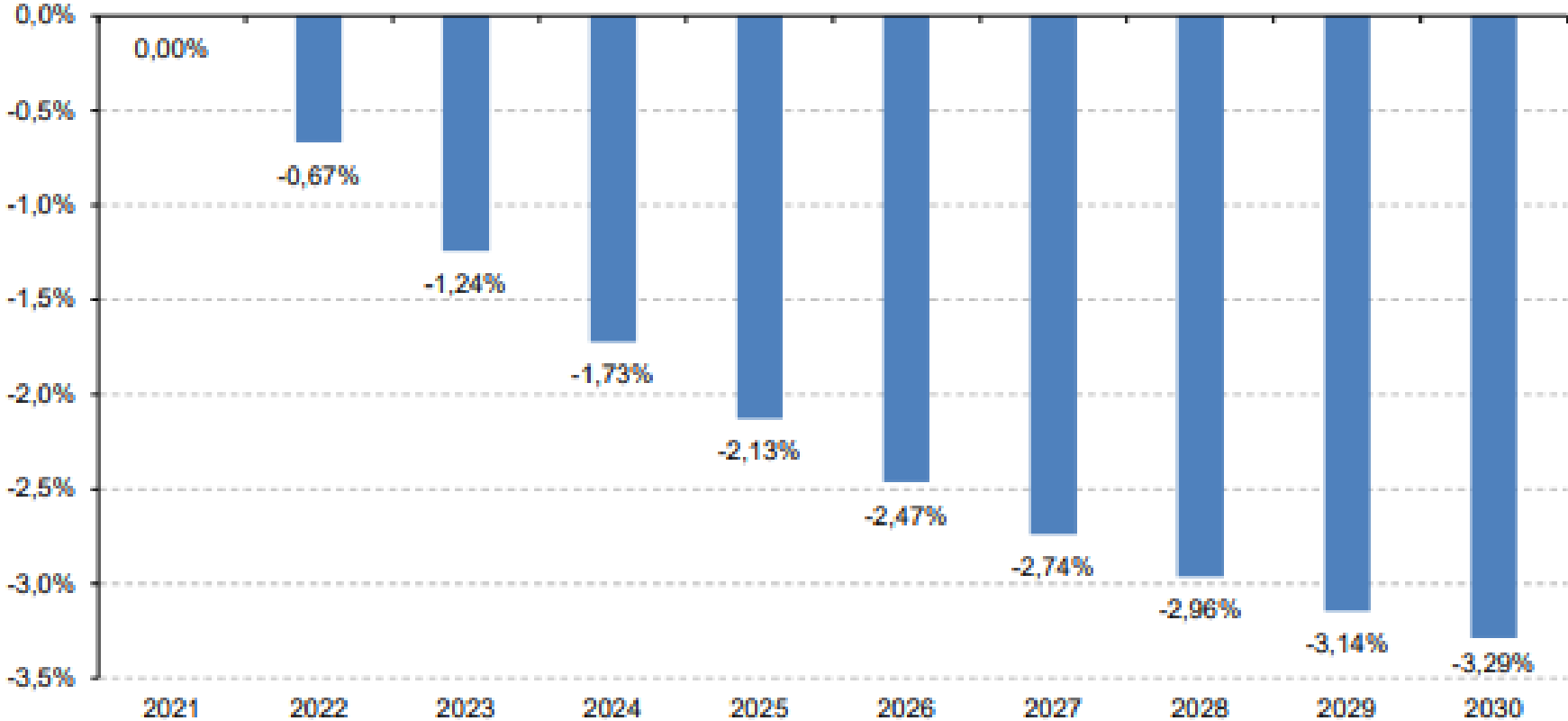
By 2030, Colombian GDP would be higher by 3.27%.

### Colombia: percentage effect of the circular economy on GDP



Source: CEPAL, 2023

### Percentage effect of the circular economy on emissions in 2030 in Colombia

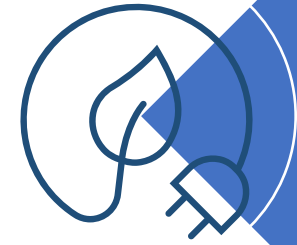


Source: CEPAL, 2023

Bank	Bancóldex	Bancolombia
Type of Bank	Commercial	Development
Types of projects funded	Circular Economy, Energy Efficiency and Transition and Bioeconomy.	Energy efficiency, renewable energy, cleaner production, sustainable mobility, sustainable agriculture and livestock, sustainable, sustainable construction-
Criteria to be financed	<ul style="list-style-type: none"> <li>• Waste recovery.</li> <li>• Reuse of materials.</li> <li>• Reduction in the use of natural resources.</li> <li>• Recycling.</li> </ul>	<ul style="list-style-type: none"> <li>• Waste management.</li> <li>• Circular Models.</li> <li>• Extension of useful life.</li> <li>• Products as a service.</li> <li>• Platform Models.</li> </ul>
Target Customer	micro (34%), small (17%), medium (43%) and large (6%) companies.	Mostly medium and large companies
Financial Product	<ul style="list-style-type: none"> <li>• Line of credit under the rediscount and microfinance mechanism</li> </ul>	Lending

# Colombian Green Taxonomy - Circular Economy

Assets and activities with their eligibility criteria in circular economy issues of Colombia's green taxonomy.



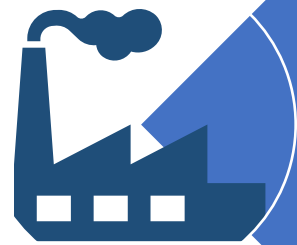
## Energy Sector:

- EGE3. Electricity generation from wind energy.
- EGE7. Electricity generation from biomass, biofuels and biogas.
- EP8. Low-carbon hydrogen production.



## Construction sector:

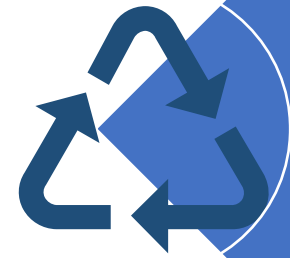
- C1. New buildings



## Manufacturing Sector

- M7. Components involved in the manufacture of plastics in primary form.

# Colombian Green Taxonomy - Circular Economy



## Waste Management and Emissions Capture Sector:

- RC2. Separate collection and transportation of non-hazardous waste in the source-segregated fraction.
- RC6. Energy production from non-recyclable waste fractions (thermal treatments).
- RC8. Artificial capture, transport and storage/use of GEI



## Transportation sector:

- T3. Transportation infrastructure.



## Water supply and treatment sector:

- A2. Sanitary and combined sewer systems and combined.
- A3. Wastewater treatment systems.

Assets and activities with their eligibility criteria in circular economy issues of Colombia's green taxonomy.



# Thank you!

 Avenue 9 # 74-08 floor 9, Bogotá

 60 1 3266600

 Asobancaria Colombia

 @asobancariaco

 @Asobancaria

 <https://www.asobancaria.com>

# Measures and Activities in Europe

**Bettina Dorendorf**

KfW, Germany





KFW



KFW

# GIZ Networking Day

## „Circular Economy Finance: Measures & Activities in Europe“

World Circular Economy Forum 2024  
Accelerator Session  
Brussels 18 April 2024

Bettina Dorendorf  
Senior Sustainability Manager, KfW (Germany)

# KfW at a glance

## Germany's flagship development agency

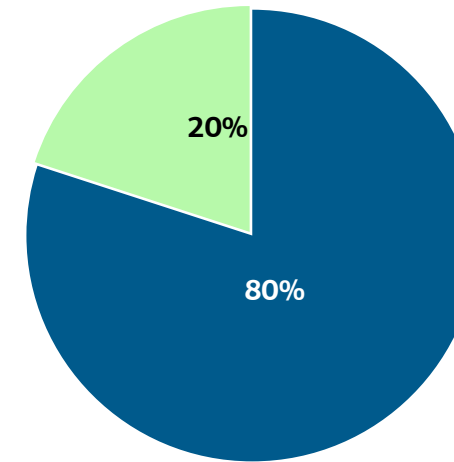
## Professionally supervised and regulated

- The promotional bank of the Federal Republic of Germany, established in 1948 as a public law institution.
- Benefits from explicit and direct statutory guarantee and institutional liability by the Federal Republic of Germany.
- Regulated by the “Law concerning KfW” and exempt from corporate taxes.
- Zero risk weighting of KfW's bonds according to the standardized approach of the Capital Requirements Regulation (CRR)
- Supervision by the German Federal Ministry of Finance and the German Financial Supervisory Authority “BaFin”.
- Subject to certain provisions of German and European bank regulatory laws by analogy, in large part with effect from January 1, 2016.

## Ratings

Rating	Agency
AAA	Moody's
AAA	Scope
AAA	S&P
Rating	Agency
Prime	ISS ESG
AAA	MSCI
Advanced	Moody's ESG Solutions

## Shareholders



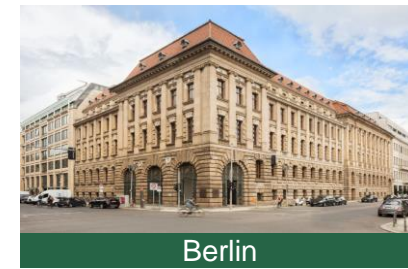
■ Federal Republic of Germany

■ German federal states

Headquarters: Frankfurt am Main  
Branches: Berlin, Bonn



Frankfurt



Berlin



Bonn



Cologne (DEG)

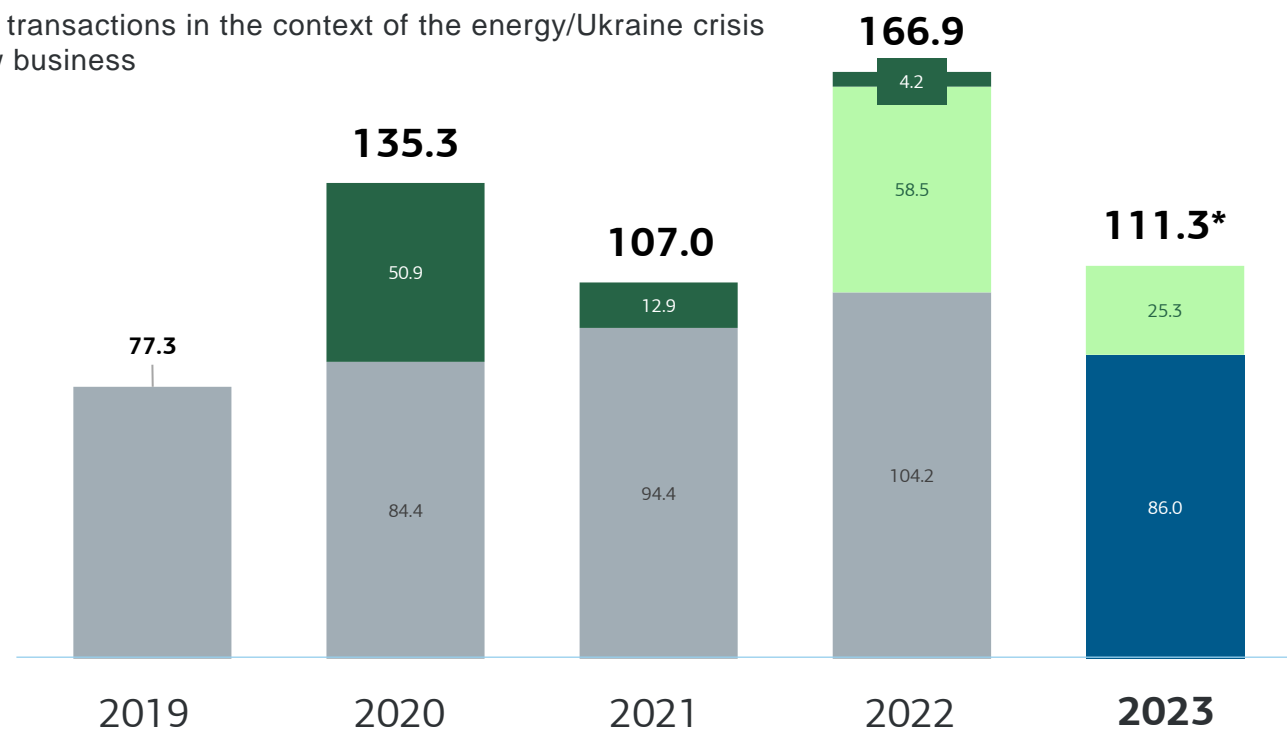
A rating is not a recommendation to buy, sell or hold securities. Ratings are subject to revision or withdrawal at any time by the assigning rating organization. Each rating should be evaluated independently of any other rating.

# 111.3 billion euros\*

## New business

(EUR in billions)

- Coronavirus aid
- Mandated transactions in the context of the energy/Ukraine crisis
- Other new business



# KfW Group 2023

## New business at pre-COVID levels



KfW / Alex Habermehl

### 77.1

Domestic promotional business

### 24.2

Export and project finance

### 10.9

Development finance

### 0.5

Financial markets

\*Adjustment for commitments of Export and project finance with refinancing from KfW programme loans (2022: EUR 241 million, 12/2023: EUR 1.33 billion)

# Joint Initiative on Circular Economy

## Background, objectives and activities

- 6 large **European Promotional Banks** (EIB, KfW, BGK, CDP, CPP, ICO)
- **Main motivation:** enable market development and growth of a circular economy
- **Activities & Results 2019 – 2023**
  - **EUR 10 bn+ finance** for circular economy
  - Strengthening **awareness & visibility**
  - Supporting classification of **Circular Economy activities** - the "9 R" principle
  - **Knowledge building**
    - **Webinars** showcasing & promoting circular economy business models in **key sectors (textile, cities & regions, buildings)**



© KfW / Jonas Wresch

# Regulatory activities and sustainable finance

## Dynamic regulatory activities 2019 to date

- 2020 CE Action Plan
- Recent: Regulation Eco Design and Batteries; Right to Repair
- ... but limited growth of circularity rate: 11.4% to 11.8% (2025-2021, Eurostat)

## Expanding sources of finance for Circular Economy

- ...but private investors & dedicated funds/bonds still at small scale!

## European sustainable finance agenda

- creating **spotlight on Circular Economy**
- **EU Taxonomy Regulation** - 6 environmental objectives
  - **Circular Economy** forming part of the six environmental objectives of the EU Taxonomy

## EU Taxonomy: 6 environmental objectives

- 1- Climate change mitigation
- 2- Climate change adaptation
- 3- Sustainable use & protection of water & marine resources
- 4- **Transition to a circular economy\*\***
- 5- Pollution prevention & control
- 6- Protection & restoration of biodiversity & ecosystems

\*\* Delegated Act defining 35 economic activities & technical screening criteria /DNSH-criteria;

## EU Taxonomy: defining ecological sustainability

**Substantial contribution**  
to at least one environmental objective ([technical criteria](#))



„Do-no-significant-harm“ („DNSH“) check



Compliance with minimum **social safeguards**

Basis: economic activity

Basis: company

Source: KfW

# Reporting standard for Circular Economy: part of new sustainability reporting

## Corporate Sustainability Reporting Directive (CSRD) - new are of reporting

- CSRS reporting: based on new complex European Sustainability Reporting Standards (ESRS):
- Enlarged scope of application ( 50.000 Europ. companies)
- **Sustainability reporting: part of the management report → subject to audit**
- Comprehensive & **standardised reporting requirements** based on double materiality assessment

### Structure of the European Sustainability Reporting Standards (ESRS)

Environmental	Social	Governance	Cross Cutting
Climate change (E1)	Own workforce (S1)	Governance, risk management & internal control (G1)	General principles General strategy, governance & materiality assessment disclosures requirements
Pollution (E2)	Workers in the value chain (S2)		
Water & marine Ressources (E3)	Affected communities (S3)	Workers in the value chain (G1)	
Biodiversity & ecosystems (E4)	Consumers and end users (S4)		
Resource use & circular economy (E5)			

Source: KfW



# Conclusions & lessons learnt

- **Knowledge building, co-operation & advisory:**
  - **key** to foster **understanding** of circular value chains and implementation of business models
- Need to **define sector specific funding gaps**
- **Connecting** public and private funding sources: leverage
- Bringing together **business models and finance providers**
- **Standardisation:** need to work on **consistent data & metrics**



**Back-up**

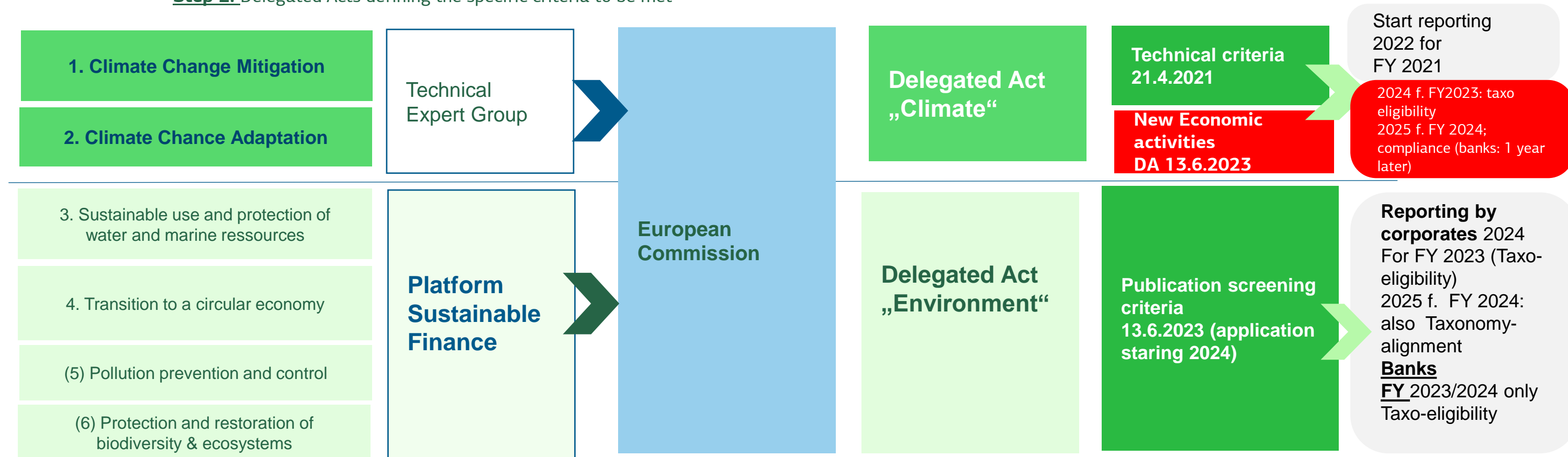
# Structure of the EU Taxonomy

## The Basics

### How does the EU Taxonomy work

**Step 1:** Regulation (EU) 2020/852, 18.6.2020) providing the framework; defining six environmental objectives to which an economic activity has to contribute

**Step 2:** Delegated Acts defining the specific criteria to be met



**Step 3: Identification of economic activities contributing to the environmental objectives ; definition of** Erarbeitung der technical screening criterie by the platform SF as a proposal-> consultation -> decision-> binding through adoptoin of EC Delegated Acts

**Schritt 4:** Revision / Changes made by EU COM (after market consultation), Binding character of screening via Delegated Act of EU Commission (procedure established via Taxo-Regulation).

# Environmental objective 4

## Transition to a circular economy

### **21 activities on the transition to a circular economy / 5 sectors**

#### **1. Manufacturing**

- 1.1. Manufacture of plastic packaging goods
- 1.2. Manufacture of electrical and electronic equipment

#### **2. Water supply, sewerage, waste management and remediation activities**

- 2.1. Phosphorus recovery from wastewater
- 2.2. Production of alternative water resources for purposes other than human consumption
- 2.3. Collection and transport of hazardous waste
- 2.4. Treatment of hazardous waste
- 2.5. Recovery of bio-waste by anaerobic digestion or composting
- 2.6. Depollution and dismantling of end-of-life products
- 2.7. Sorting and material recovery of non-hazardous wastes

#### **3. Construction and real estate activities**

- 3.1. Construction of new buildings
- 3.2. Renovation of existing buildings
- 3.3. Demolition and wrecking of buildings and other structures
- 3.4. Maintenance of roads and motorways
- 3.5. Use of concrete in civil engineering

#### **4. Information and communication**

- 4.1. Provision of IT/OT data-driven solutions and software

#### **5. Services**

- 5.1. Repair, refurbishment and remanufacturing
- 5.2. Sale of spare parts
- 5.3. Preparation for re-use of end-of-life products and product components
- 5.4. Preparation for re-use of end-of-life products and product components
- 5.5. Product-as-a-service and other circular use- and result-oriented service models
- 5.6. Marketplace for the trade of second-hand goods for reuse

# Viet Nam's Green Taxonomy, with a focus on Circular Economy

**Tran Quoc Trung**

Ministry of Planning and Investment,  
Vietnam





# **VIETNAM GREEN TAXONOMY WITH THE FOCUS ON CIRCULAR ECONOMY**

**Brussels, 18/04/2024**

# VIET NAM GREEN TAXONOMY (VGT)

1. VGT **drafted by MPI** and submit to Prime Minister for approval for 2 steps: **(i)** Clarification system of green sectors in Vietnam statistical indicator system (VSIS); **(ii)** National criteria framework for green taxonomy

## 2. **Methodology:**

- Covers the entire economy including 15 green fields, 80 green economy sectors
- Closely linked to the Vietnam Economic Sector System, compatible with the measurement and reporting system (MRV), in harmony with international and domestic standards and criteria (MONRE, MOST, ...)
- Consistent with VSIS (clarified green sectors)

## 3. **Scope:** Nationwide

# VGT vs FINANCIAL MOBILIZATION FOR CIRCULAR ECONOMY

- VGT is a basis for developing policies and incentive mechanisms for financial resource mobilization (projects and economic activities that meet green standards, creating favorable conditions to attract investment.)
- Ministries will develop sectoral sets of technical criteria based on VGT to classify green projects according to each industry/field as a basis for providing legal mechanisms and incentives for green industries.
- **Green Taxonomy for access green bond and green credit** drafted by MONRE with criteria environmental perspective-oriented criteria (developed in 2022 funded by GIZ).
- Circular Economy criteria developing by MPI links closely to VGT and references EU criteria (funded by GIZ) for the purpose of project based financial mobilization (incentives, investment policies and mechanism, access fund, commercial and concessional loans from commercial banks or financial institutions...).



# GIZ GO CIRCULAR SUPPORT TO MPI IN CE FINANCE

## Funders mapping and Developing guidelines on how to access different financing sources

- Surveys on CE SMEs and funders in Vietnam
- Funders mapping with their funding criteria
- Guideline on financing CE
- Training for SMEs and banking sector
- One-by-one consultancy upon SMEs' request

## CE Criteria to assess CE projects in Vietnam

- 5-6 core CE Criteria based on the CE ISO, EU Green Taxonomy and international practices
- Surveys and pilot application before official issuance under an MPI's decision

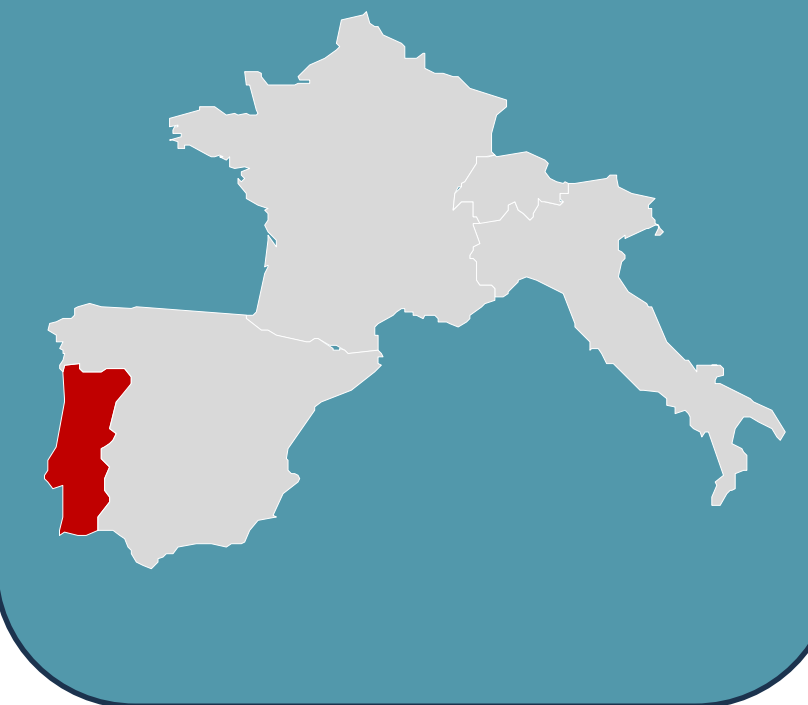


**Thank you!**

# Portugal: Financial needs, challenges, and opportunities of CE organisations

**Clara Garcia Parra**

The Canopy Lab



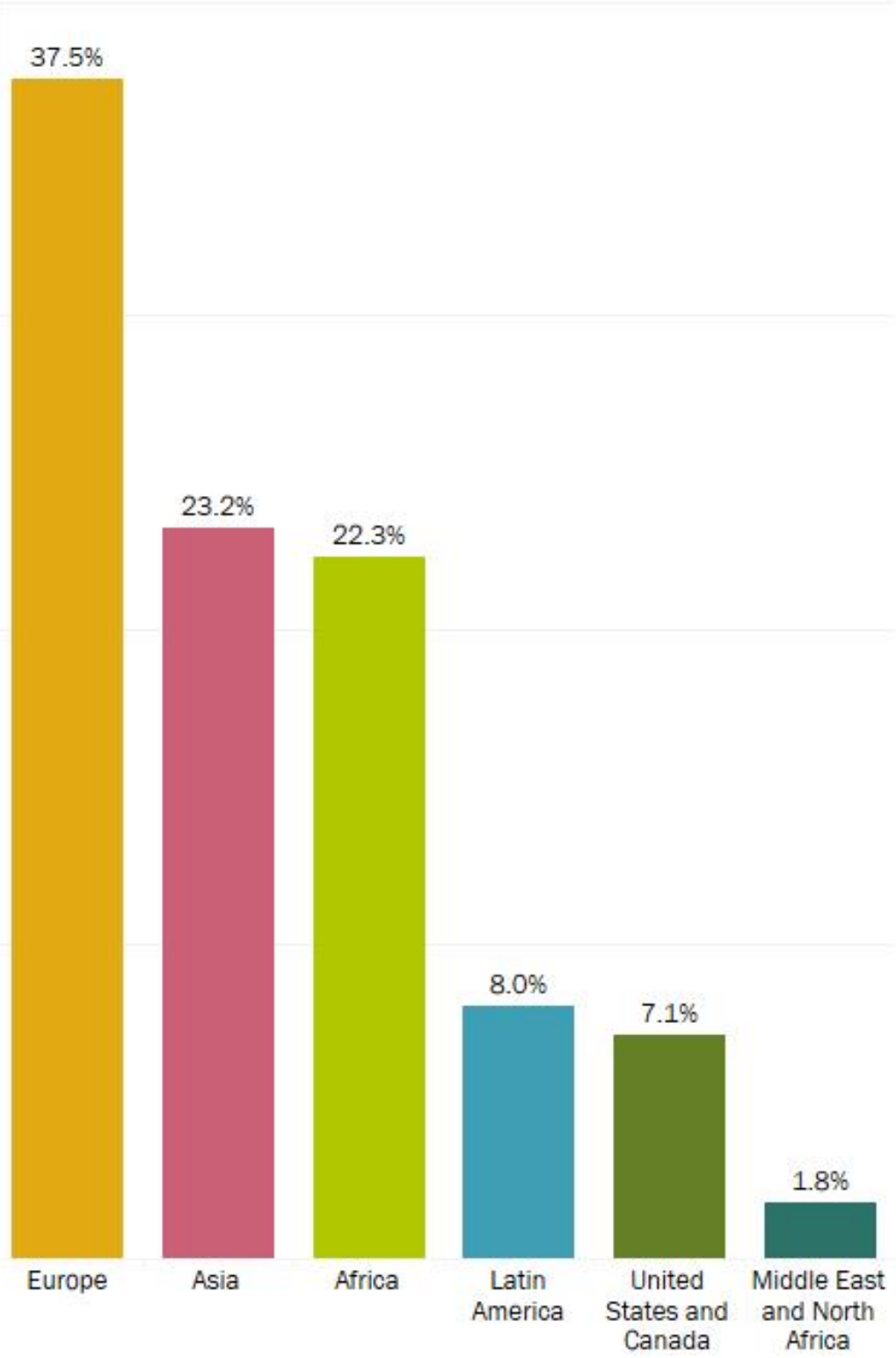
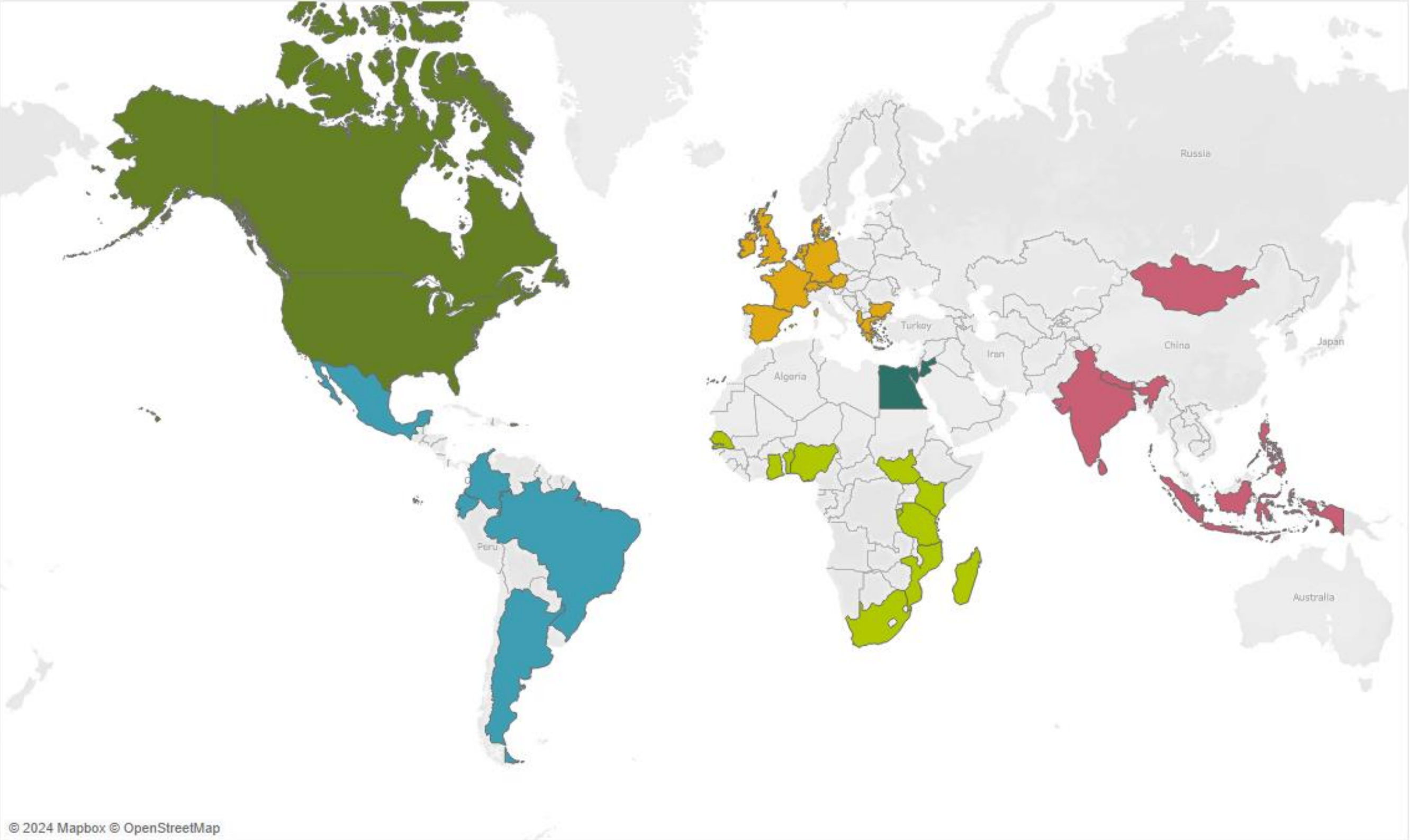
April 2024

# Circular Economy Financing Survey



**PREVENT**  
Waste Alliance

# Participant characteristics: broad participation, including CE SMEs from LMICs

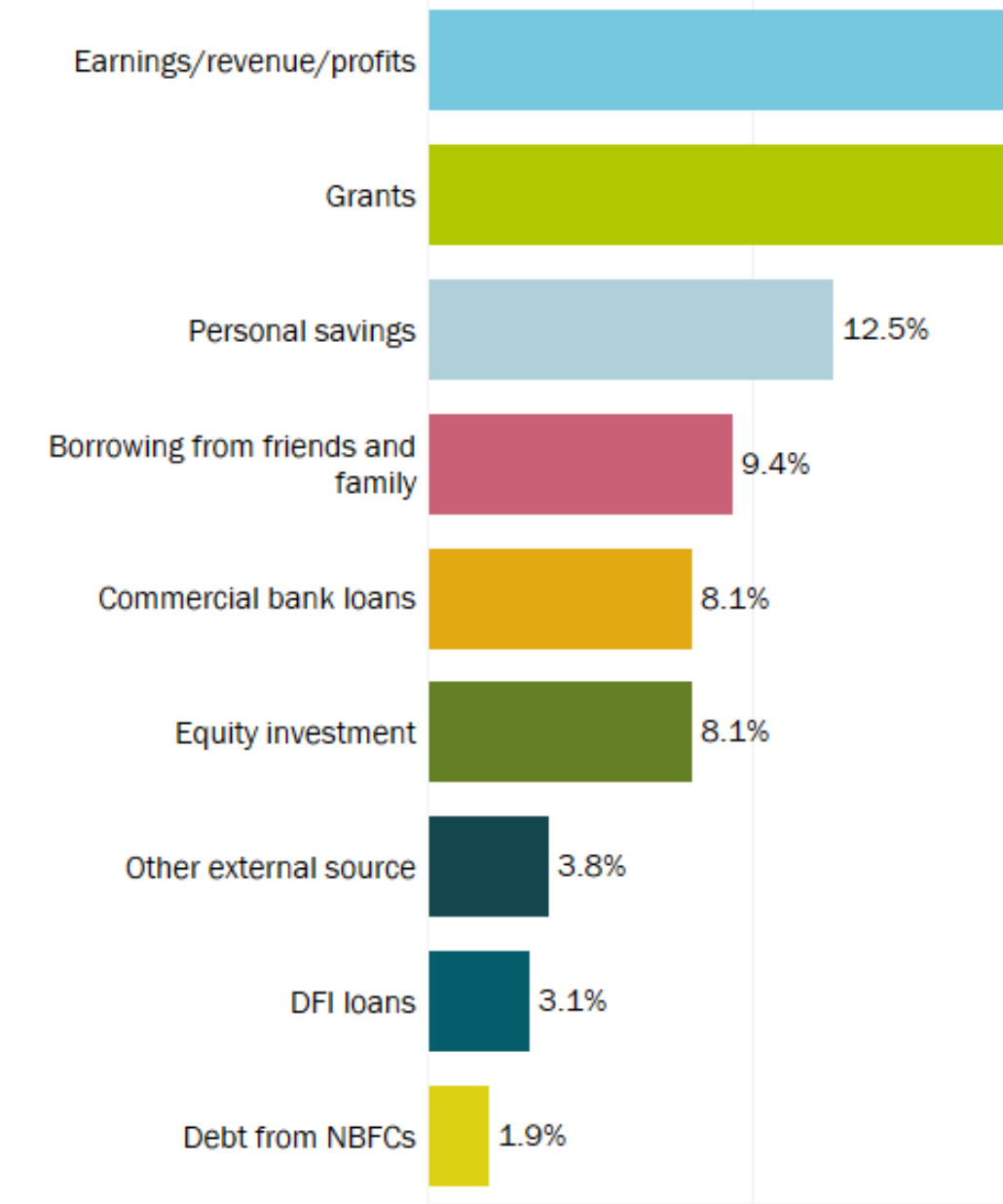


\*There were no respondents representing Oceania.

# Current financing sources: a perceived inability to tap into external funding

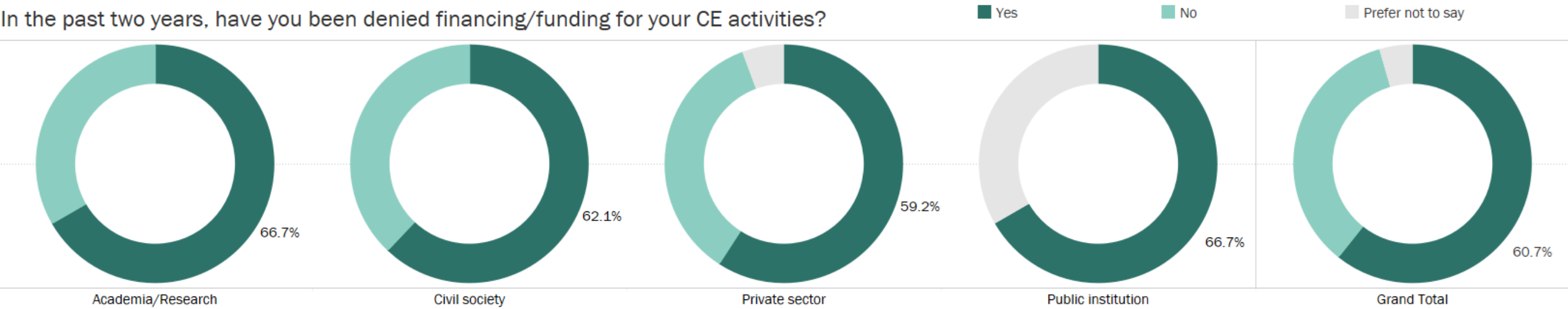
*“While there is enough money, this money is too focused on some topics. Circular economy is a very broad topic, and most funding goes towards a very narrow set of opportunities” KII participant*

Private sector respondents



N=160

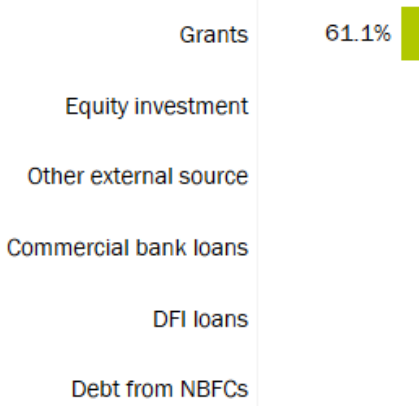
In the past two years, have you been denied financing/funding for your CE activities?



N=112

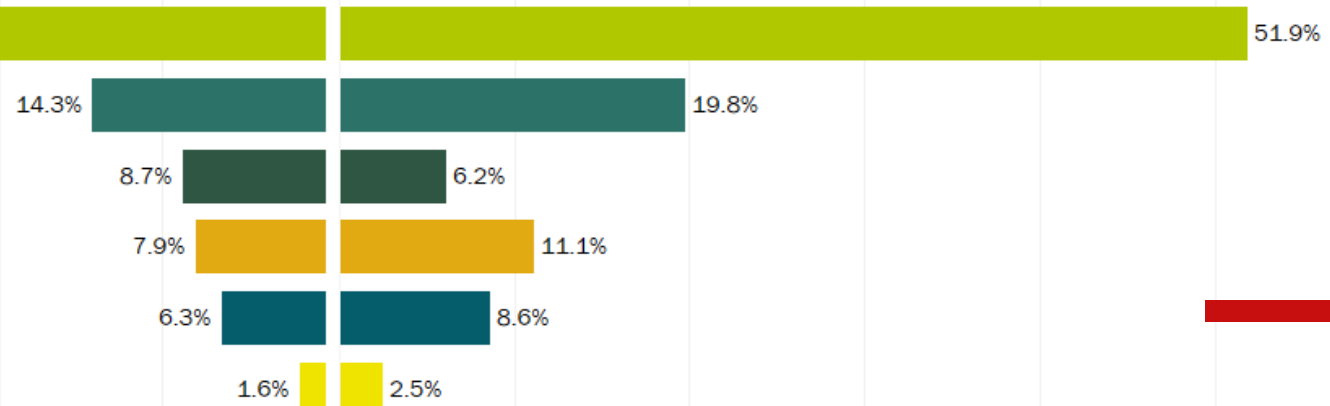
What were the sources that denied your application?

All respondent organisations



N=126

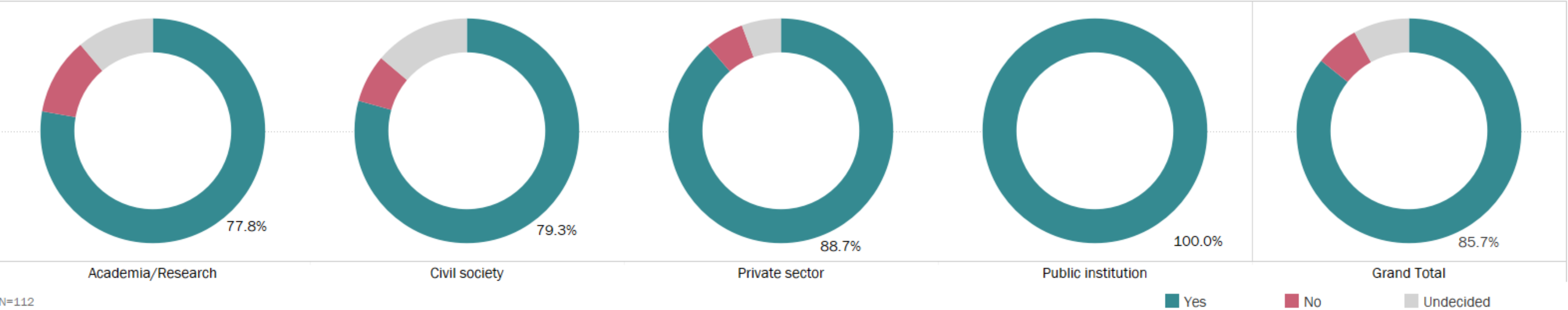
Private sector respondents



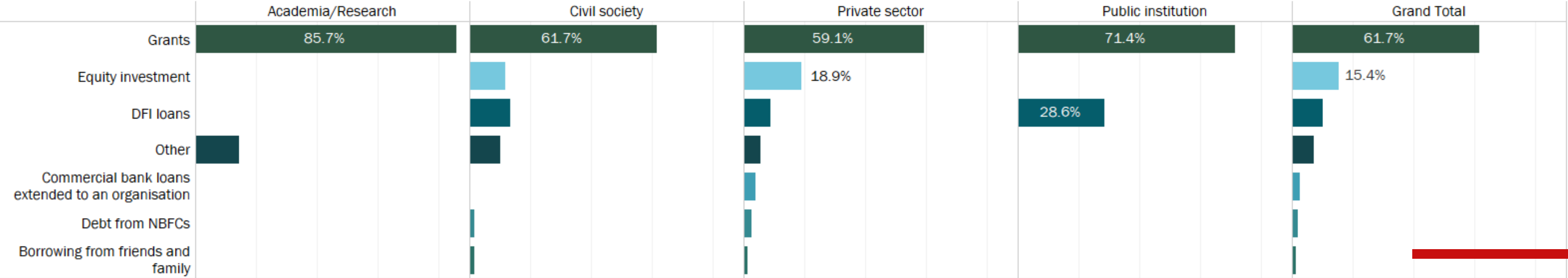
N=81

# Looking ahead: funding is needed, but organisations anticipate that it will be hard to obtain it

Are you planning to seek additional financing/funding for your CE initiatives within the next 12-18 months?



What sources of funding/financing are you most interested in exploring?



# Together for a Circular Economy

Reach out to us at: [contact@prevent-waste.net](mailto:contact@prevent-waste.net)



**PREVENT**  
Waste Alliance





# Panel Discussion

**Andrew Brown**

Organisation for Economic Co-operation and Development (OECD)

**Bettina Dorendorf**

KfW

**Enrique Cueva**

Vytal Mexico

**Tran Quoc Trung**

Ministry of Planning and Investment (MPI), Vietnam



# Check out GIZ's work on Financing Circular Economy

Newly released Spanish version, with country case studies of Colombia and the Dominican Republic



GIZ Report "Financing CE – Insights for Practitioners"

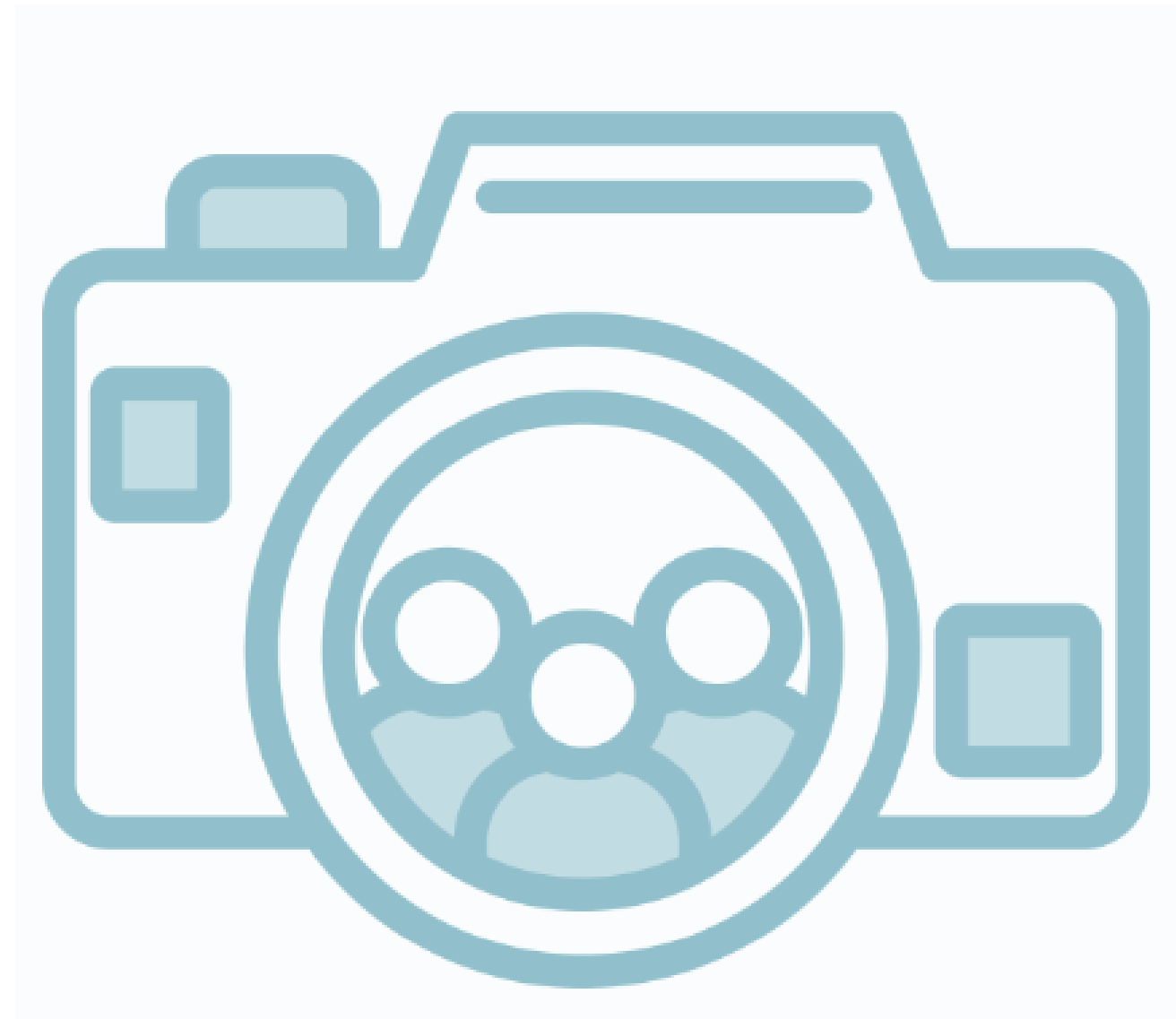
including a **Country Analysis of Colombia, Dominican Republic, Viet Nam, Albania and Rwanda**

Available in English, Vietnamese, **and now also in Spanish!**



[Financing Circular Economy – Insights for Practitioners \(giz.de\)](https://giz.de)

# Let's take a Group Photo



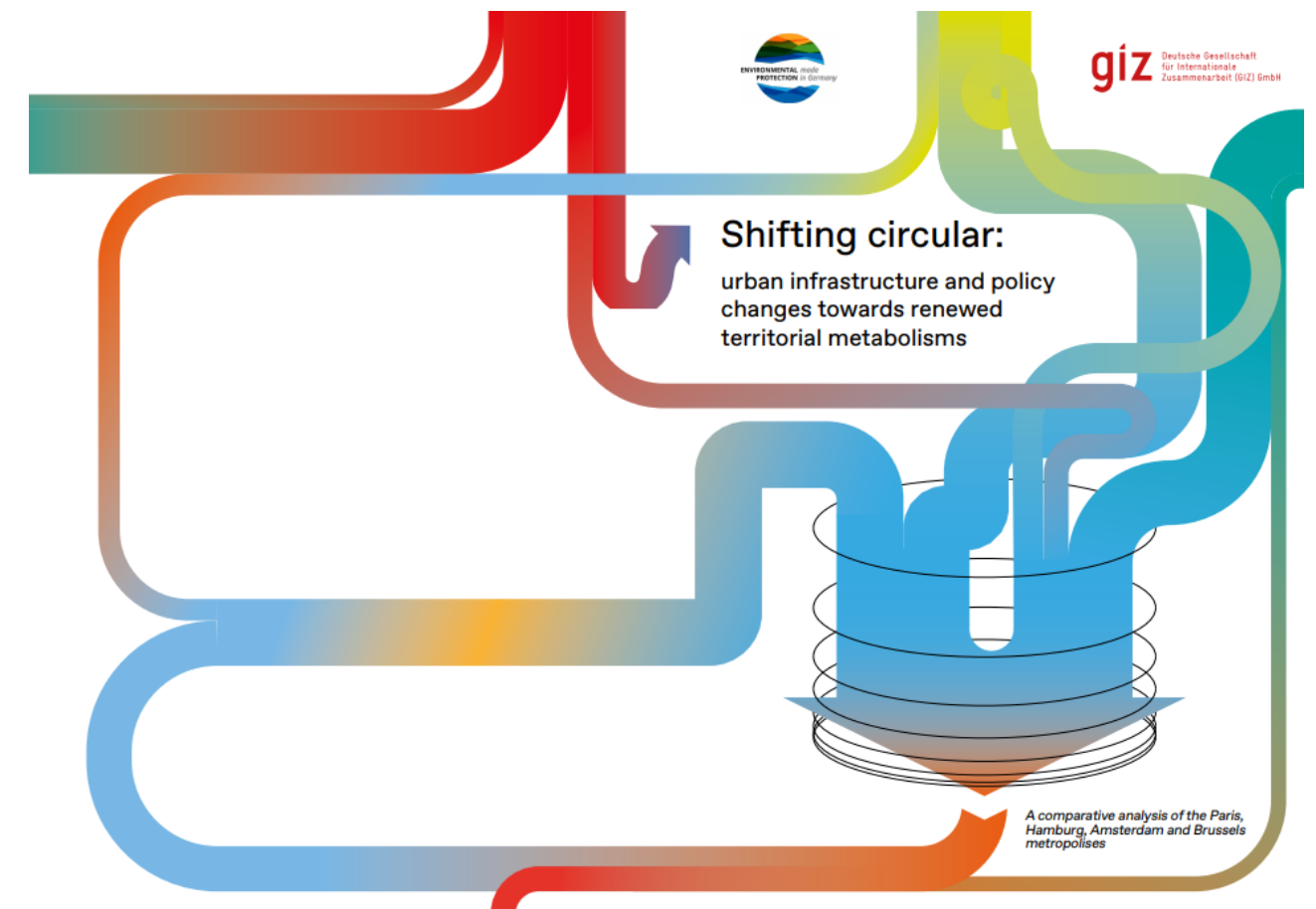
# Coffee & Tea Break

10:30 – 11:00



# Shifting circular: Urban infrastructure and policy changes towards renewed territorial metabolisms

A comparative analysis of the Paris, Hamburg, Amsterdam and Brussels metropolises



Find the research on the  
GreenTechKnowledgeHub:

[230616 Studie-Shifting-Circular\\_GIZU.pdf](https://greentechknowledgehub.de/230616-Studie-Shifting-Circular_GIZU.pdf)  
([greentechknowledgehub.de](https://greentechknowledgehub.de))





# Session 2

# Cities as Drivers for Circularity

# HAMBURG

Germany  
Wolf Kuehr



# BRUSSELS

Belgium  
Perrine Collin



# VIETNAM

National  
perspective  
Nguyen Minh  
Cuong



# TURRIALBA

Costa Rica  
Carlos Cordero Vega



# BANGKOK

Thailand  
Dr. Sujitra  
Vassanadumrongdee



# COLOMBIA

National perspective  
Ruth Quevedo



# Urban policies and infrastructures for the resource transition, or the complex governance of critical dilemmas

**Hugo d'Assenza-David**

Sciences Po Paris | The French Agency for Ecological Transition (ADEME)  
PhD Researcher | Policy Analyst





# Cities as Drivers for Circularity

## Breakout Sessions

**BIG VENUE**

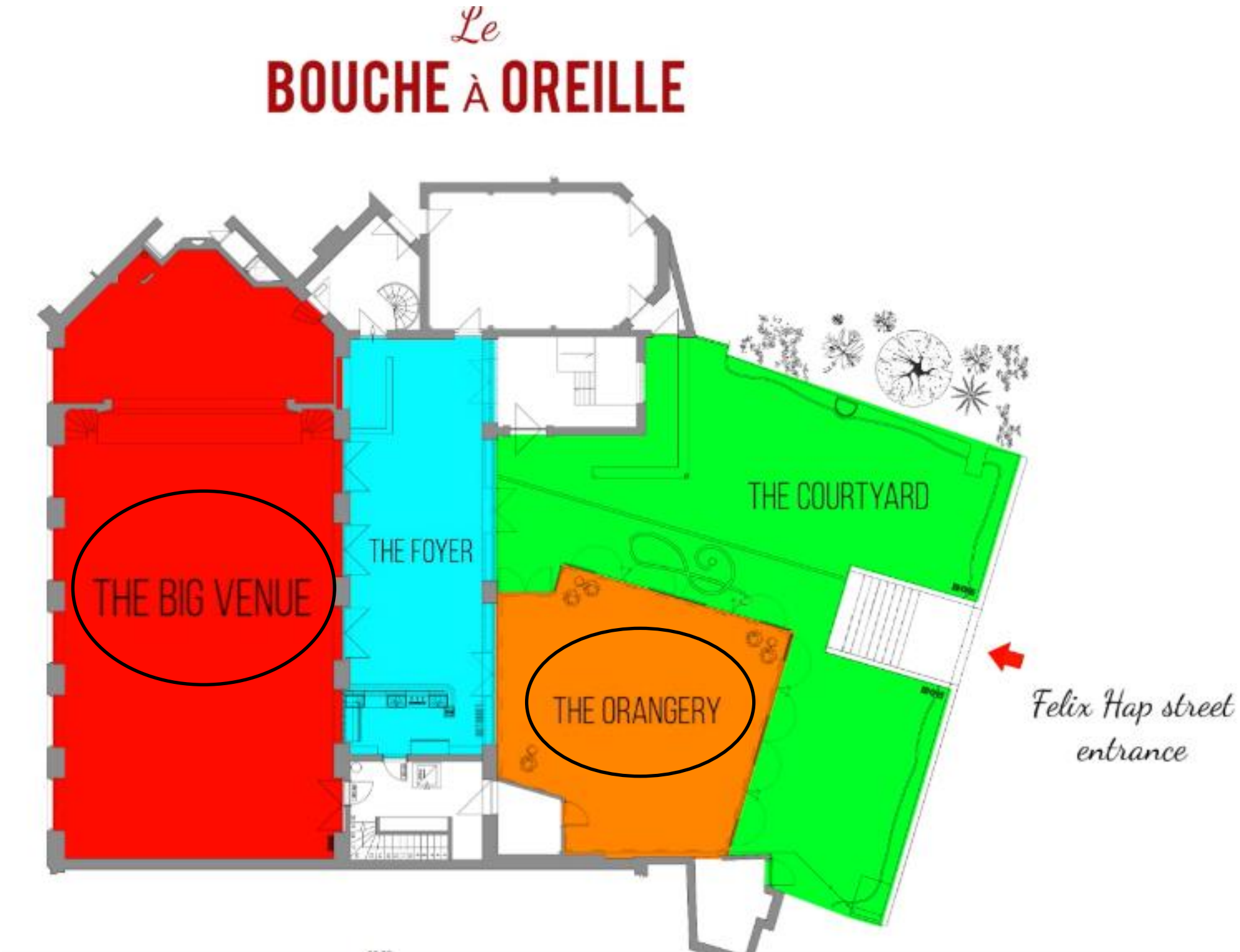
Round 1: COLUMBIA & BRUSSELS

Round 2: VIET NAM & HAMBURG

**THE ORANGERY**

Round 1: BANGKOK

Round 2: TURRIALBA



# Bangkok Metropolitan Administration's waste management and circular economy strategies: key achievements and challenges

**Dr. Sujitra Vassanadumrongdee**

Senior Researcher at Environmental Research  
Institute, Chulalongkorn University, Thailand





Connecting Global Minds for Circularity  
As part of the GIZ Circular Economy Week in Brussels 2024  
Session 2: Cities as Drivers for Circularity

# Bangkok Metropolitan Administration's waste management and circular economy strategies: Key achievements and challenges

Sujitra Vassanadumrongdee, Ph.D.  
Environmental Research Institute, Chulalongkorn University  
[sujitra20@gmail.com](mailto:sujitra20@gmail.com)



# Outline of presentation

1. BMA's waste situation
2. Current policy and plan on solid waste management
  - Action plan on waste management at source
3. Public-private partnerships
4. Overview of on-going projects and activities
5. ERIC-led project supported by the ThaiHealth
6. GIZ-CAP SEA project
7. Key achievements and challenges

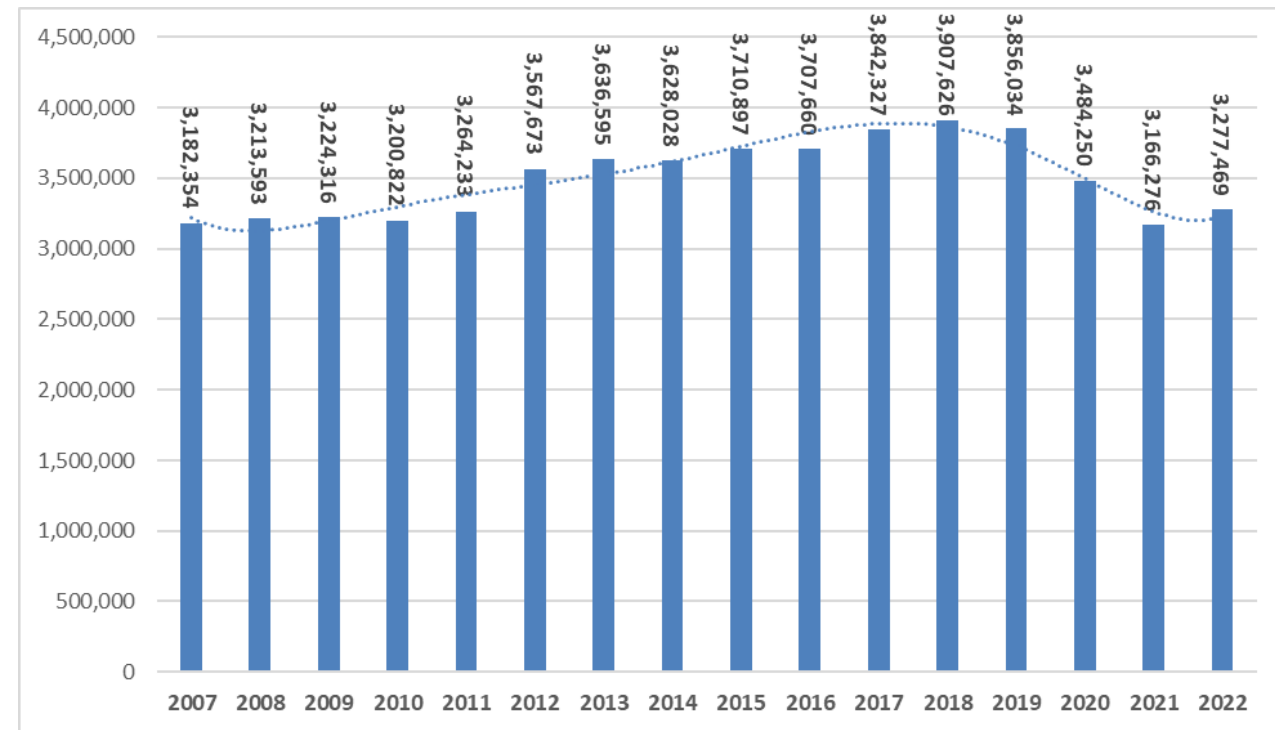


Acknowledgement: GIZ's MA-RE-DESIGN project funded by BMUV

[Preventing marine litter in Thailand by reducing, redesigning and recycling plastic packaging \(MA-RE-DESIGN\) - giz.de](https://www.giz.de/en/projects/ma-re-design/preventing-marine-litter-in-thailand-by-reducing-redesigning-and-recycling-plastic-packaging)

# BMA's waste situation

## Annual waste collected volume in Bangkok (ton)



- In 2023, the number of inhabitants in Bangkok Metropolitan Area, is estimated to amount to around 11.07 million people
- The number of international visitors in Bangkok reached 25.8 million visitors in 2023.

Most trash in Bangkok lack of sorting at source with a common excuse that it is meaningless to sort as BMA put everything in one truck anyway.



Solid waste is collected in one truck though waste collectors have sorted recyclables as their extra earning



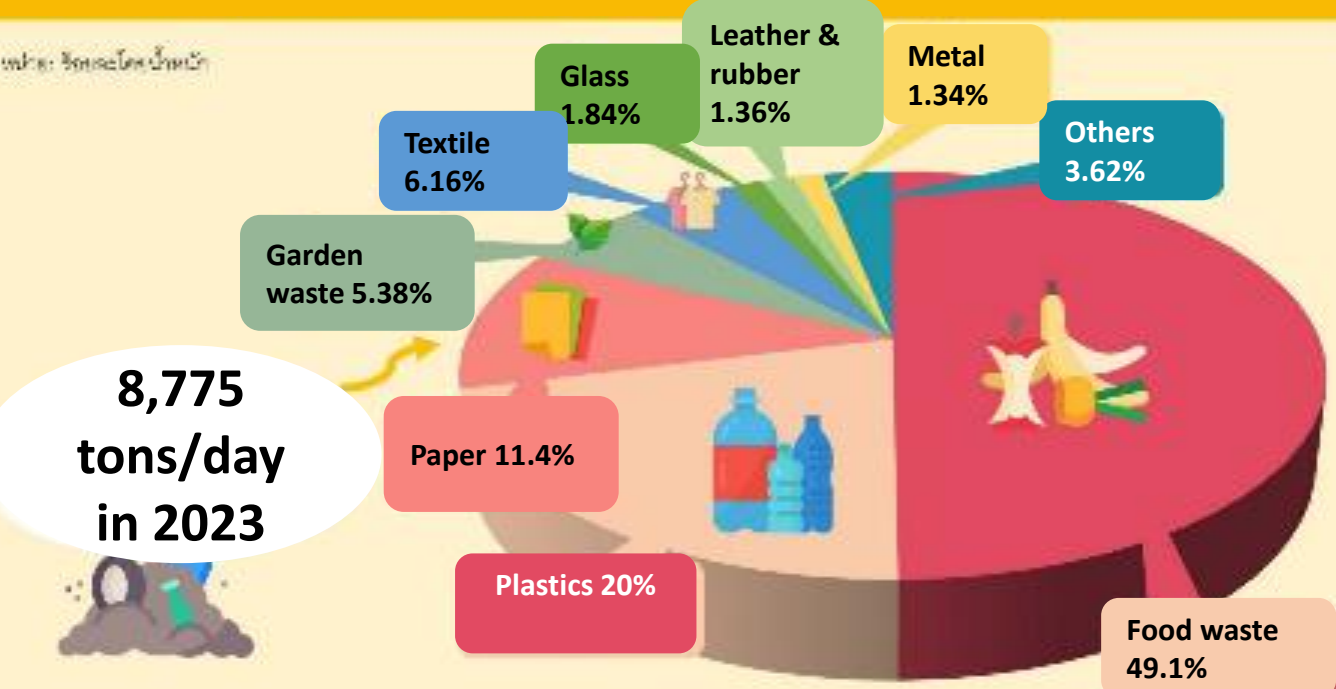
Littering & fly tipping into canals



Mixed waste is loaded at On-nut Transfer Station which has a compost facility –very smelly.



## BMA's waste composition in 2023

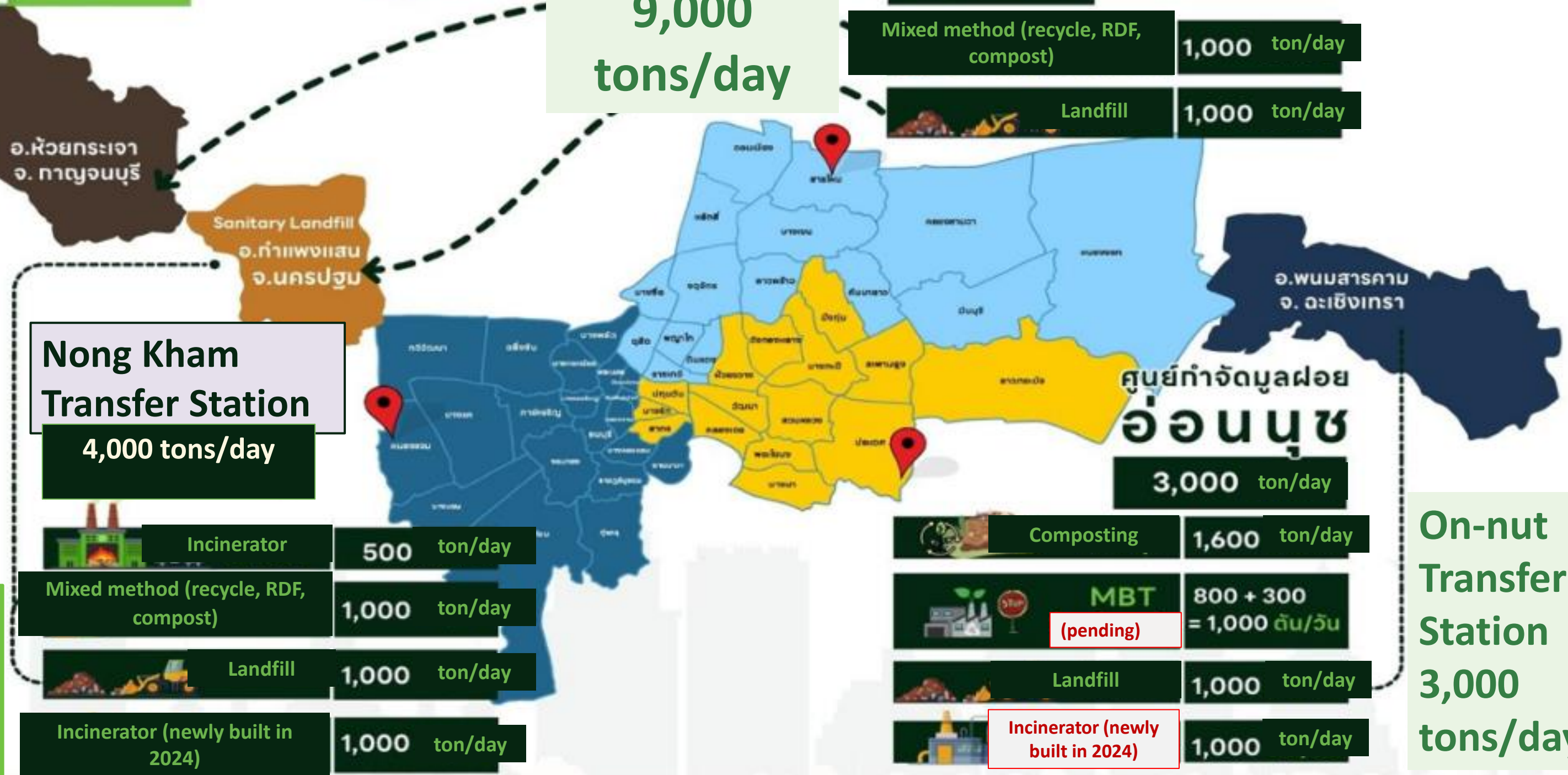


Most collected waste is sent to landfills in other provinces, some is sent to a small incinerator. Two big incinerators will be built in 2024.

การทำจัดมูลฝอยในปัจจุบัน



Total collected waste: 9,000 tons/day



Focusing on waste collection and landfill diversion

On-nut Transfer Station 3,000 tons/day

# Current policy and plan on solid waste management

BMA Governor:  
Dr.Chadchart Sittipunt



Advisor to BMA Governor & Chief Sustainability Officer (CSO): Mr. Pornphrom Vikitsreth



1. Creating waste sorting models and developing comprehensive waste sorting at the district Level
2. Good urban environment, proper drop-off points for general waste, No uncollected waste
3. Focus on targeted separation of organic waste at the source
4. Small-sized garbage trucks that access every household
5. Return waste to the system (drop-off points, waste banks)
6. Development of prototype BKK Food Bank, concretely delivering food to vulnerable groups

(Good health policy)  
Clean, safe and free drinking water city-wide

# Public-private partnerships

Various groups of CSOs and companies working with BMA on waste management towards CE

30 June 2022: CSOs led by ERIC met BMA Governor to deliver the draft Action Plan on Sustainable Waste Management





# Action plan on waste management at source



A compact truck with modified food waste bin at the back in pilot districts (not practical)



A dedicated truck for food waste collection 1 truck/district only (need to invest more)

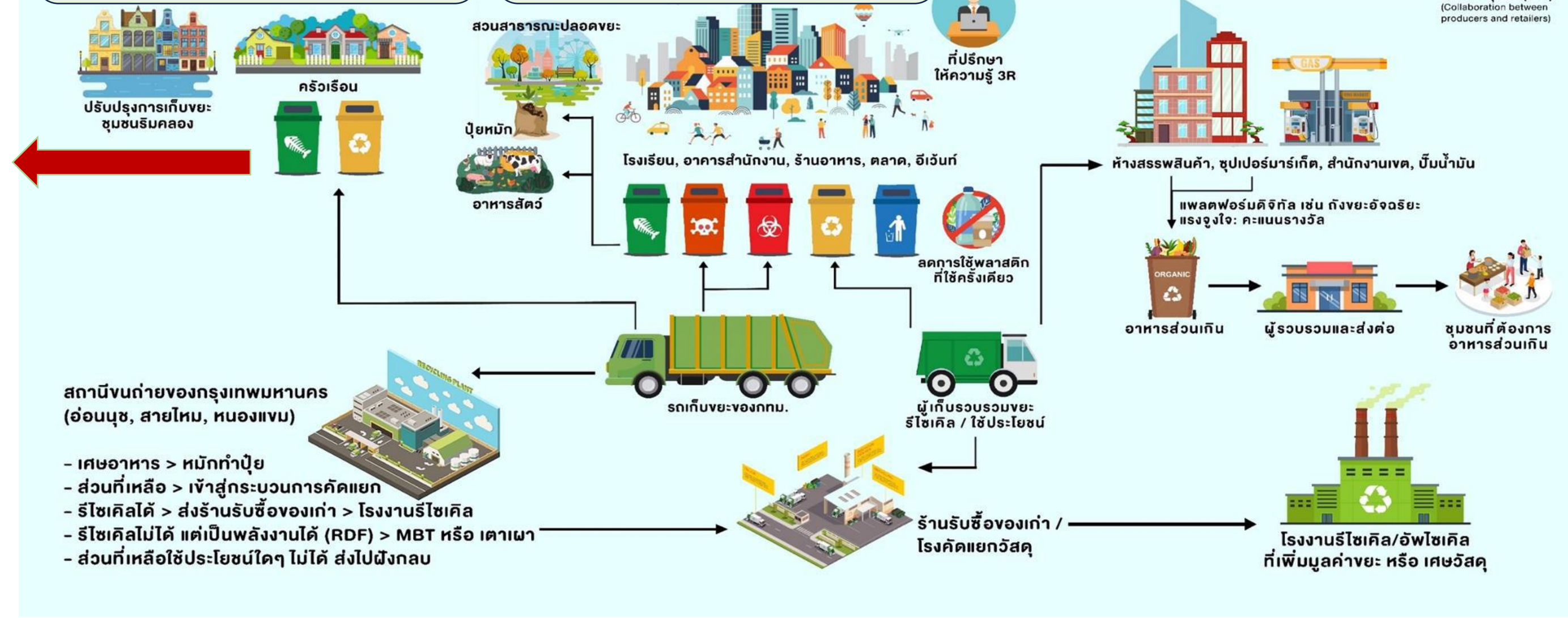
## เขตนำร่องลดและคัดแยกขยะ

Pilot Zero-Waste District

**Level 1: 'No Mixed Waste' Campaign**  
(Separate organic waste from other wastes)

**Level 2: BKK Zero Waste Network** (Promoting waste reduction and segregation at source)

**ระดับที่ 3:** เพิ่มจุดรับขยะ/ วัสดุที่คัดแยกแล้ว Drop-off Point ตามพื้นที่สาธารณะให้ทั่วถึง



Database, Dashboard  
ฐานข้อมูล / หน้าจอข้อมูล  
พัฒนาฐานข้อมูลกลาง  
แสดงแหล่งกำเนิดที่เข้าร่วม  
โครงการลดและคัดแยกขยะ

**มือ 5 เศษ**  
มีวิเศษกรุงเทพ (EPR)  
(Collaboration between producers and retailers)

# Overview of on-going projects and activities

BMA's own projects & cooperation with private sector and civil society organizations (CSO)

## Reduce

Work with CSOs on water refill stations & single-use plastics reduction initiatives

Declaration of Intention to reduce the use of single-use plastics in BMA's offices & affiliations



## Redistribution surplus food

BKK Food Bank Centers at district offices (rescue food waste and help the poor) in cooperation with SOS



## Recycle

Campaign on food waste sorting with limited separated collection routes

Pilot districts on zero-waste organizations

Zero-waste schools

Work with PPP Plastics and CSOs on recyclables drop-off points



## Clean-up

-Terracycle Thai Foundation's Clean up at Lad Phrao Canal  
-Ocean Cleanup (Mar 2024) Chao Praya River



# Incentive mechanisms

1

**Awards for zero-waste organizations**  
(18 types of waste generators targeting shopping malls)

2

**Increasing waste collection and disposal fees**  
by weights/volume (non-households) or by segregation efforts (households) to be announced by September, effective next year

3

**Drafting a local ordinance on mandatory waste segregation (with separate collection systems)**



(very important but less priority)

## Organizations:

The fee rate will be increased 3 times and increased by volume (PAYT) → incentivize waste reduction & segregation

## Households:

Mixed waste household: 60 THB/month

Waste sorting household (register via BKK Waste Pay App): 20 THB/month

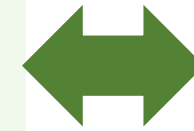
# BKK Zero-Waste Initiative

(Implemented by ERIC and alliance, financed by the ThaiHealth)



## Activity 1

Data platform, website & waste segregation guides



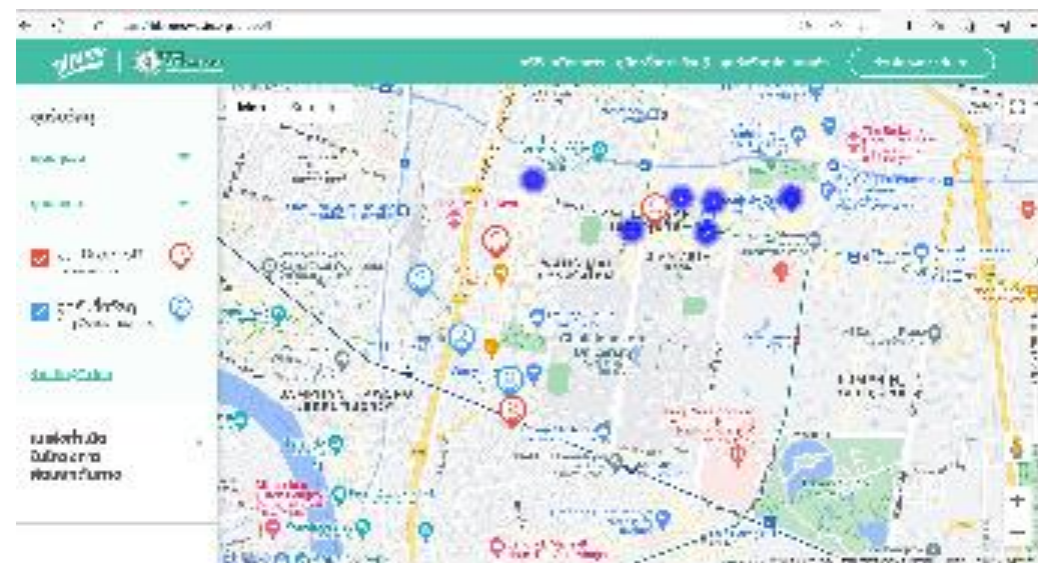
## Activity 2

- Supporting 84 organizations in two pilot districts to reduce and segregate waste at source (Pathumwan & Non Kham Districts)
- Promote separate collection systems for food waste and RDF



## Activity 3

Pilot Black Soldier Fly (BSF) larvae farming to eliminate food waste (capacity 1-2 tons/day) at Nong Kham Transfer Station



# Increasing waste collectors and drop-off points

Waste Buy Delivery



Wake Up Waste



Recycoex

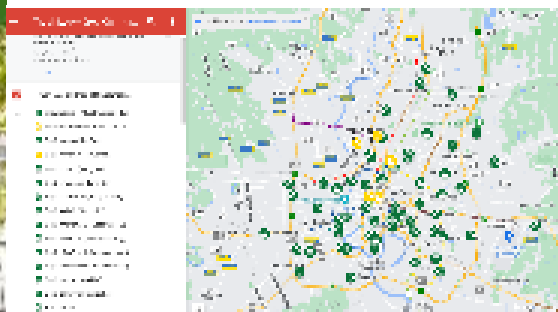


Trash Lucky

Smart Recycling Bin

ที่แรกในไทยพร้อมให้คุณรีไซเคิล และลุ้นรางวัล กว่า 2 ล้านบาท!!

60 จุดทั่วกทม.และปริมณฑล



<https://bit.ly/tldropoffs>

- จุดตั้ง:
1. Lotus's ลาดพร้าว
  2. The Mall งามวงศ์วาน
  3. NIA

Recycle Day



มือวิเศษ กรุงเทพ PPP Plastics

ศาลาว่าการกทม. และสำนักงานเขต 50 เขต



# Drop-off points & smart recycling hubs by PPP Plastics



A feasibility study on a material recovery facility (MRF) at Nong Kham Transfer Station



# Results

**How to ทิ้ง**

ถ้าเริ่มแยกขยะวันนี้ จะแยกอย่างไร?

**ขยะทั่วไป**  
ขยะแห้ง เศษผ้า เศษกระดาษ

**ขยะสด**  
เศษอาหาร

**ขยะที่มีลักษณะพิเศษ 4 ประเภท**

- ขยะรีไซเคิล**  
กล่อง กระดาษ ขวดพลาสติก กระป๋อง ขวดแก้ว
- ขยะอันตราย**  
หลอดไฟ แบตเตอรี่ กระจก และสิ่งอันตราย เครื่องใช้ไฟฟ้า และ เครื่องสำอางหมดอายุ
- ขยะชิ้นใหญ่**  
เครื่องใช้ไฟฟ้า โต๊ะ เก้าอี้ ตู้ เตียง
- ขยะติดเชื้อ**  
หน้ากากอนามัย แอลกอฮอล์

ขอบคุณที่ช่วยกันแยกขยะ กทม. สัญญาว่าจะไม่เทรวมครับ!

**ลดขยะ ไม่เทรวม**  
กทม. 50 เขต

**ขยะอันตราย**  
• หลอดไฟ  
• แบตเตอรี่  
• สารไวไฟ  
• สารกัดกร่อน  
• สารพิษ  
• สารปนเปื้อน  
• สารเคมี

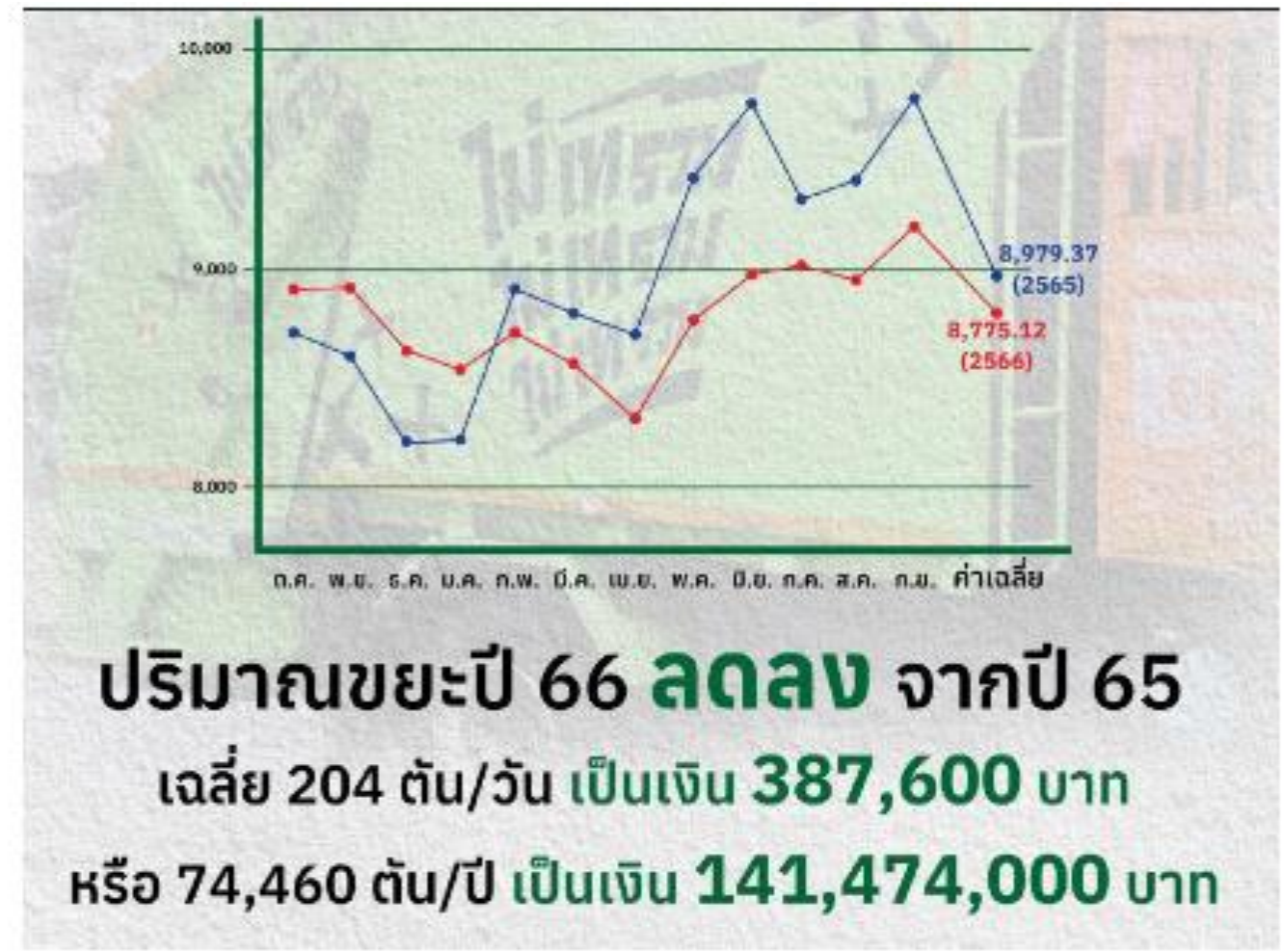
**ขยะรีไซเคิล**  
• กระดาษ  
• พลาสติก  
• แก้ว  
• โลหะ

**ขยะเศษอาหาร**  
• เศษอาหาร  
• เศษผัก  
• เศษผลไม้

**ขยะทั่วไป**  
• ถุงพลาสติกเป็นอาหาร  
• ซองบะหมี่ กุ้งขม  
• กล่องโฟม  
• ผ้าอ้อมสำเร็จรูป

**เราชวนคุณ ไม่เทรวม**  
“ช่วยระบุข้อความบนถุงขยะ เพื่อสะดวกในการคัดแยกขยะ”

กทม. @PRbangkok



Note:  
1 ตัน = 1,900 บาท  
ค่าเก็บ 1,200 บาท  
ค่ากำจัด 700 บาท

Collected waste has been reduced by 204 tons/day (average) saving the collection and disposal cost at 387,600 THB per day

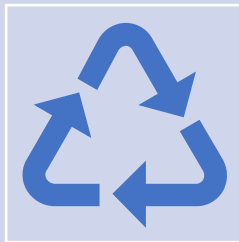
In one year, waste reduction would help BMA saving the waste disposal cost amount 141 million THB

# CAP-SEA project activities

as part of the GIZ global project “Environmental Protection Worldwide”  
on behalf of the German Federal Ministry for the Environment and Consumer Protection



The city of Bangkok has ambitious environmental goals, including waste reduction. Therefore, the Bangkok city administration is highly interested in collaborating with CAP SEA as part of the BMUV Export Initiative Environmental Protection (EXI) project to develop approaches for avoiding single-use plastics.



The EXI project will create a guide for avoiding single-use plastics through local reusable and/or deposit systems at the community level.



Furthermore, the EXI project will support the introduction of water refill systems in Bangkok by providing recommendations for the deployment and maintenance of such refill systems.

Refill Bangkok  
Network led by  
EJF and BMA





# Key achievements and challenges

1. **BMA's waste management in transition**—from cleanliness & disposal to sustainable waste management & CE
2. During the past 2 years, the total amount of residual waste has slightly declined due to various waste segregation campaigns ('No Mixed Waste') with support from private sector and CSOs.
3. So far BMA has focused mostly on waste segregation for recycling, more work to be done on waste reduction especially single-use plastics.
4. Need more investment on separate collection systems, reallocation of manpower from street sweepers to campaigners on waste segregation.
5. BMA need to work closely with CSOs and companies to advocate for waste reduction and segregation at source.
6. Try to incentivize households and organizations to reduce waste by increasing waste collection and disposal fees
7. Need strong political wills on mandatory waste sorting and improve governance.

# Brussels: Insights from Brussels' circular reindustrialization

**Perrine Collin**

Coordinator of regional FabLabs,  
[citydev.brussels](http://citydev.brussels), Belgium



# The role of Colombian cities from a national perspective

**Ruth Quevedo**

Executive Director of the Colombian Drinking Water and Basic Sanitation Regulatory Commission, Colombia





**30**  
**Años**



**Comisión  
de Regulación  
de Agua Potable y  
Saneamiento Básico**

# The role of colombian cities in the transition to Circular Economy

Opportunities and challenges for one **fair model**

Executive Director  
Ruth Maritza Quevedo Fique





01

## KEY FACTS

# RESULTADOS COLOMBIA

## TOTAL NACIONAL

### ¿CUÁNTOS SOMOS?

2018 / Población

Personas censadas  
en hogares particulares  
**43.835.324**

+  
Personas en Lugares  
Especiales de Alojamiento (LEA)  
**329.093**

=  
**44.164.417** de personas  
efectivamente censadas

+  
8,5% del total de personas  
en hogares particulares  
**4.094.077**  
de personas omitidas

=  
Estimación preliminar de  
**48.258.494** DE PERSONAS

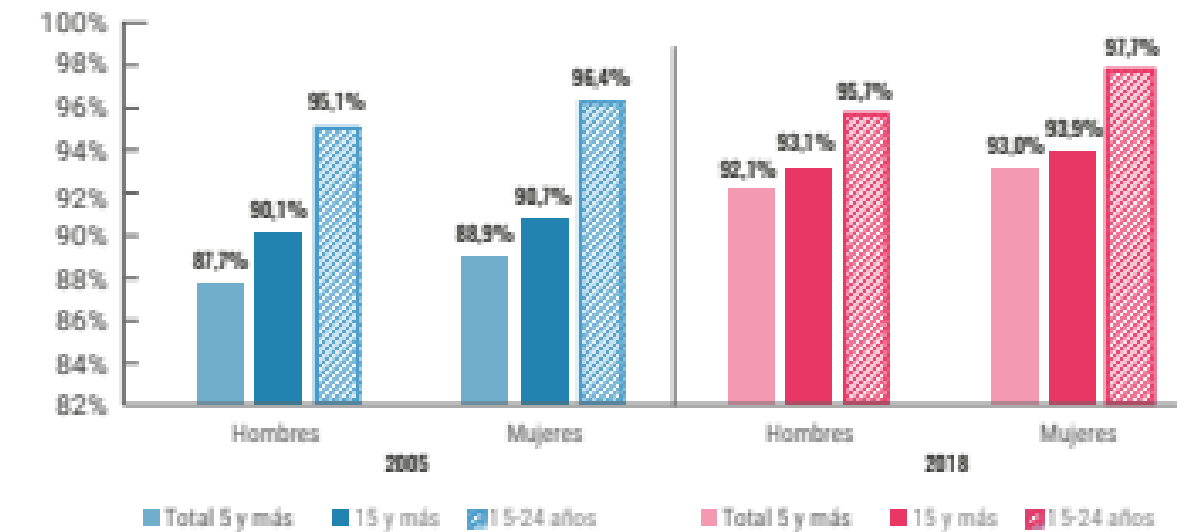
**51,2%**  
SON MUJERES

Por cada  
**100 hombres**  
hay 104,7  
mujeres

**48,8%**  
SON HOMBRES

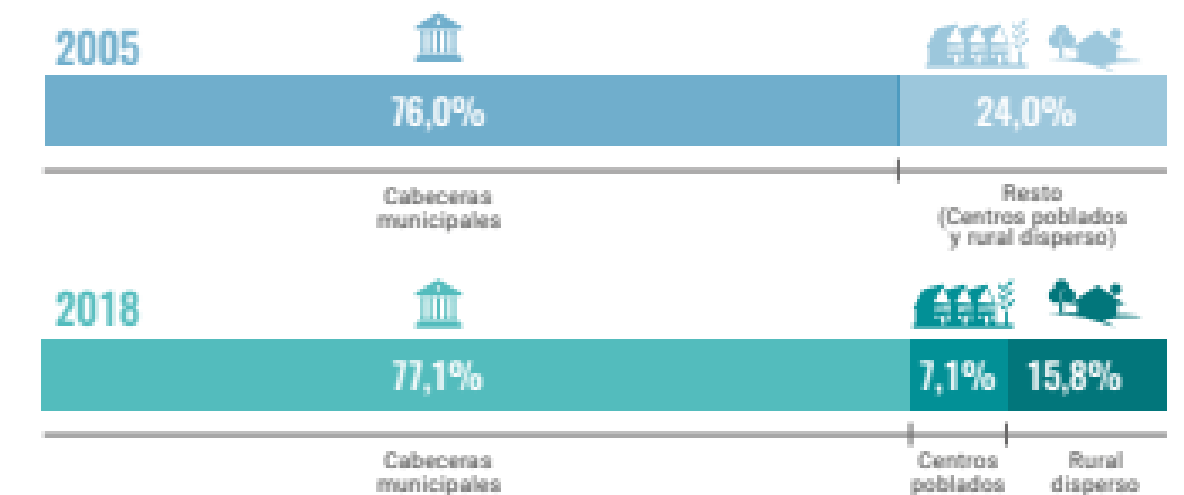
Por cada  
**100 mujeres**  
hay 95,5  
hombres

### ALFABETISMO: LEER Y ESCRIBIR



### ¿DÓNDE ESTAMOS?

#### DISTRIBUCIÓN DE LA POBLACIÓN POR UBICACIÓN



Colombia's population is made up of 48 million people, 85% of whom live in urban areas and municipal capitals, and 15% in rural areas.



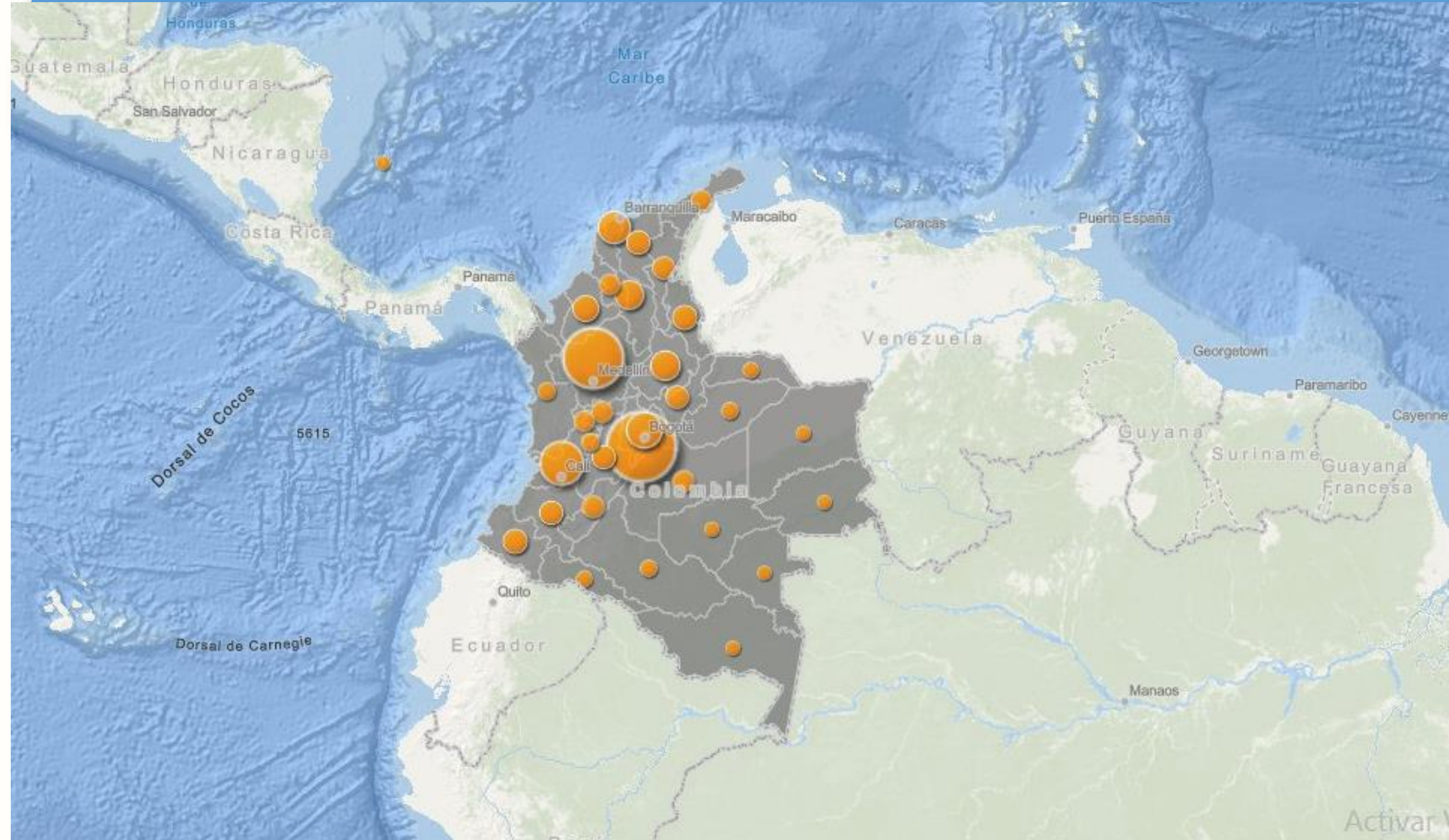
The summary of the political-administrative division is: 32 departments, 1,101 municipalities, 20 non-municipalized areas.

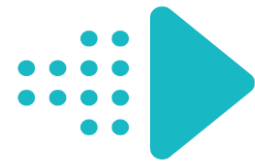


# ANNUAL PRODUCTION IN TONS PER CITY

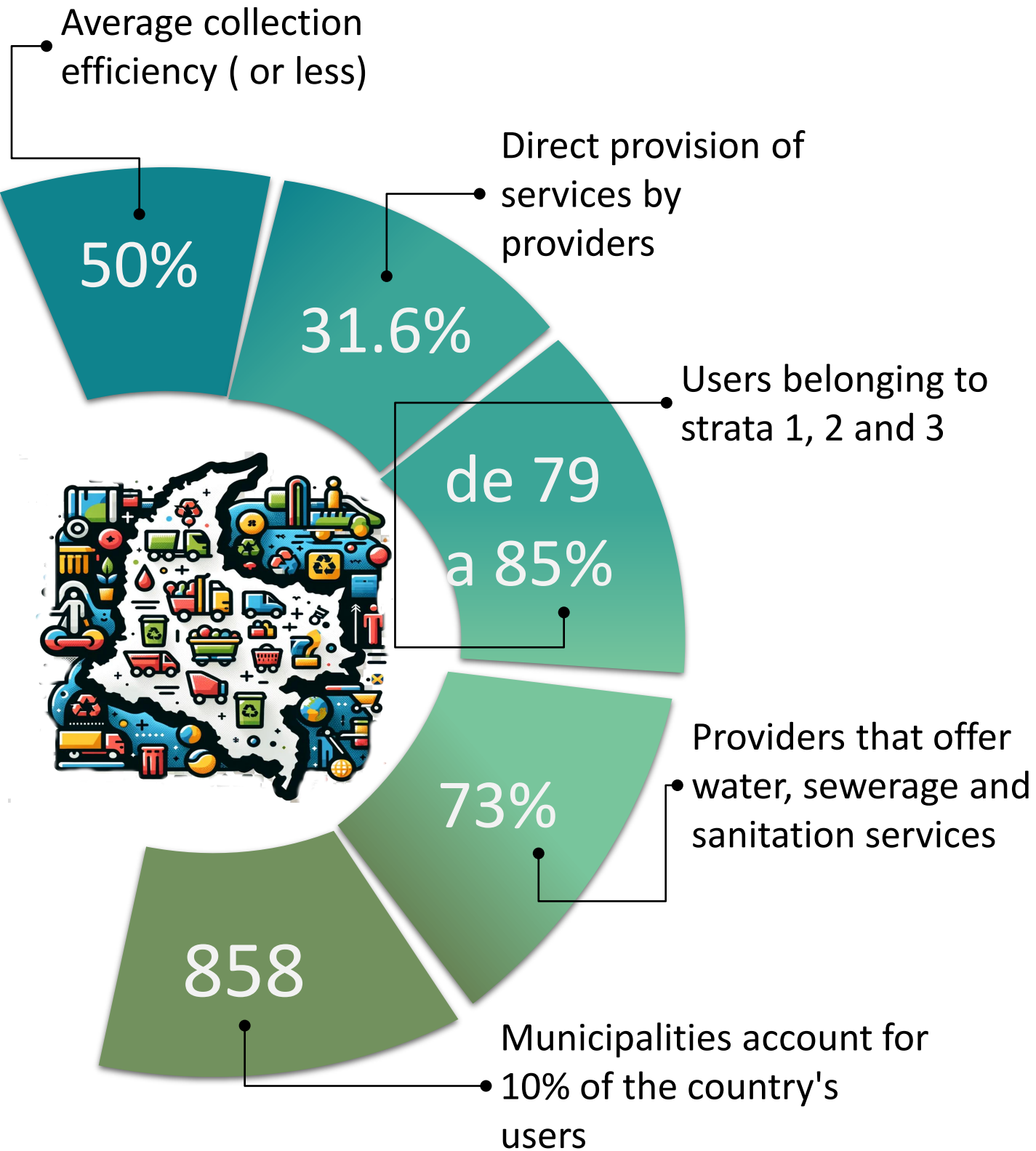
## Population Census-2018

Cartagena	470.000
Bogotá	2.239.000
Barranquilla	539.000
Bucaramanga	192.000
Cali	630.000
Medellín	680.000
San José de Cúcuta	250.000
Soacha	174.000
Soledad	210.000
Villavicencio	157.000

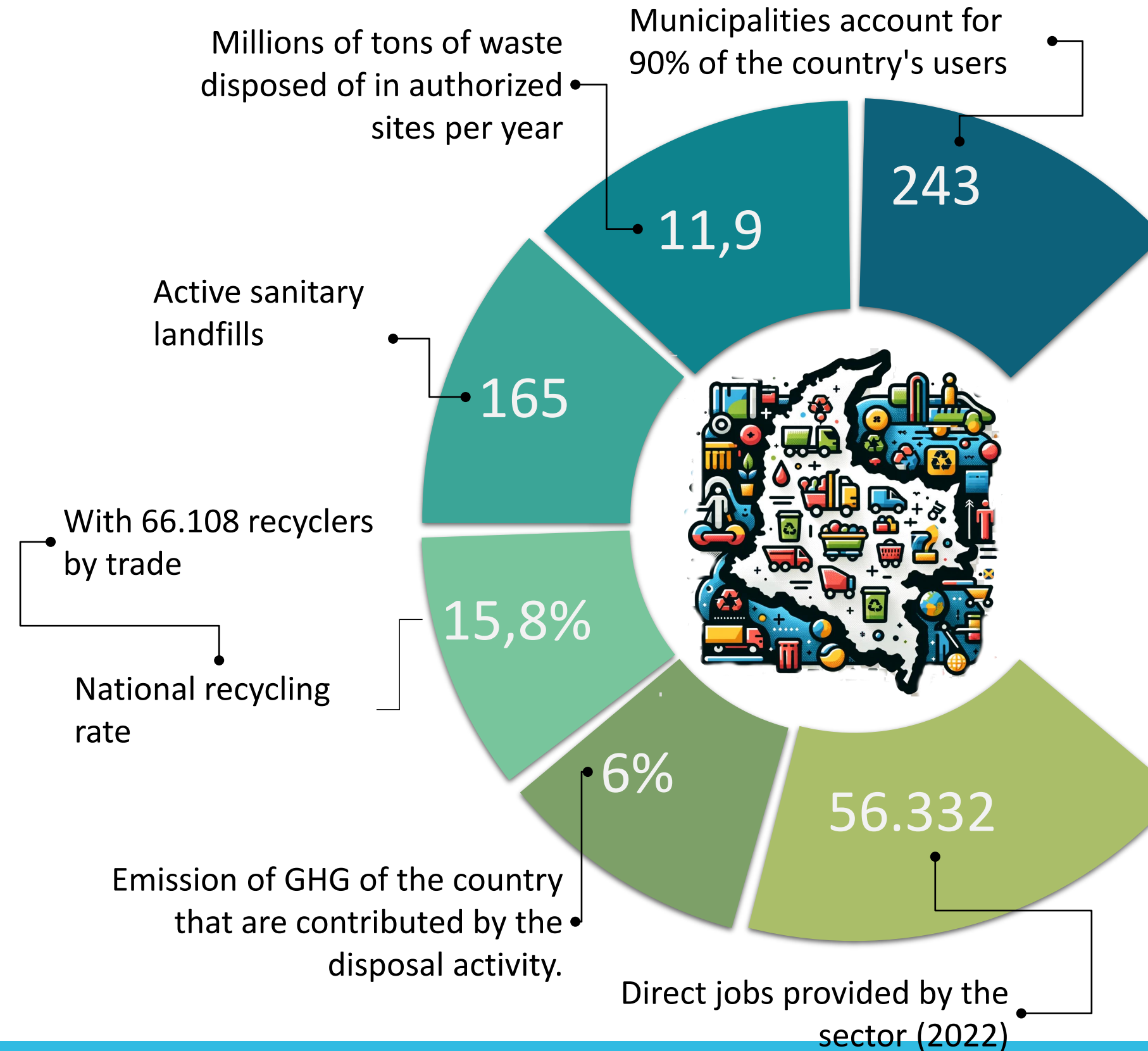




## SMALL MUNICIPALITIES



## LARGE MUNICIPALITIES



Colombia has the sixth largest water reserves in the world

1

In 2020, the domestic sector's water demand was only 8.8% of the total.

2

Tariffs only cover 16% of investment and operating costs

3

8.3 billion pesos are required to achieve 68.6% wastewater treatment rate

4

By 2020, only 52.02% of the total wastewater produced was treated.

5



6

In 2022, there were 11.7 million subscribers to the water supply system

7

In 2022, there were 10.7 million sewerage subscribers available.

8

In 2022, there were 340 million m<sup>3</sup> of water consumed.

9

There are 207 urban centers vulnerable to shortages during the dry season

10

There are 254 urban headwaters vulnerable to water shortages during the rainy season.

**03**

## **National Development Plan 2022-2026**



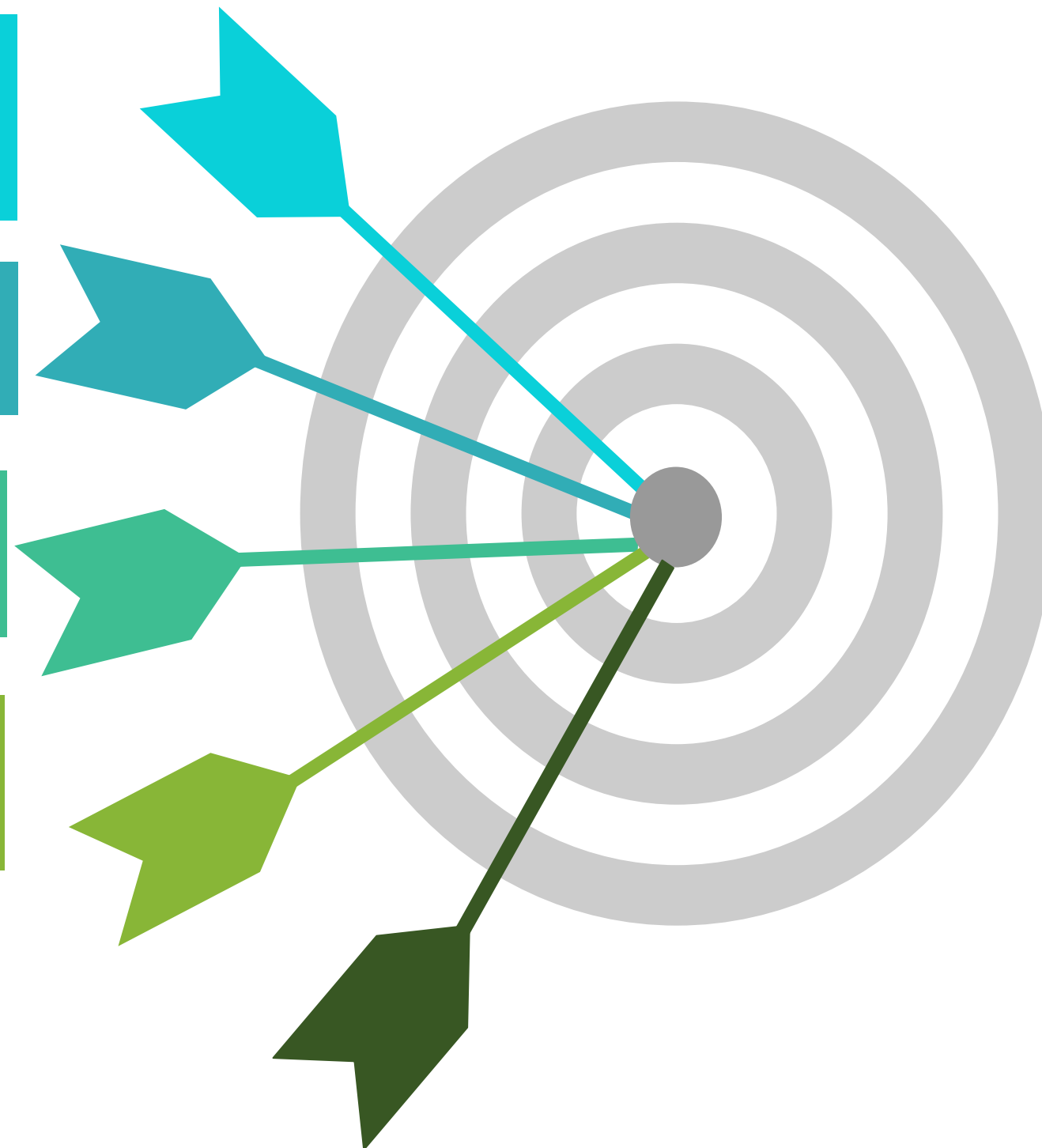
Land use planning around  
water and environmental  
justice

Human security and social  
justice

Human right to food

Productive transformation,  
internalization and climate  
action

Regional Convergence



Environmental justice and inclusive  
governance

Democratization of knowledge and information.  
Capacities of local governments and communities  
to make land use and territorial planning decisions.

Reduce regional gaps and territorial  
focus

Recognize territorial diversity, differences in needs  
and service delivery capabilities at the regional  
level.

Productive transformation

Modernize the vision and mission of sanitation services with  
an environmental service perspective. Integrate all service  
flows in their management and financing / Include the  
popular economy in reindustrialization processes.



## Article 227 – Zero Waste Program

**Article 227 – Zero Waste Program:** *“The Zero Waste Program, headed by the Ministry of Housing, City and Territory, shall be created within a maximum term of 1 year from the entry into force of this law, which will articulate the **instances of the national government, territorial entities, public utilities and civil society; it will guarantee the participation of the recycling population and their organizations, promoting their inclusion and socioeconomic insertion; It will determine the regulatory, supervision and control aspects, and the investments required to advance in the elimination of landfilling towards the implementation of technological and environmental parks, waste treatment and valorization, promotion of technological development, environmental conservation and climate change mitigation; it will define a strategic plan for the definitive closure of open dumps and transitory cells, promoting solutions that prioritize the treatment and use of waste; and it will promote the circular economy”.***



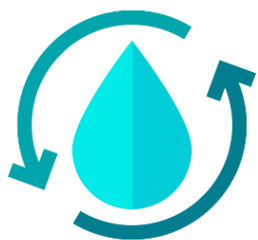
## COMPETENCES OF THE MUNICIPALITIES



Ensure the efficient provision of the service, by public utilities of official, private or mixed nature, or directly by the central administration of the municipality.



Define the areas for the location of sorting and utilization stations, utilization plants, waste disposal sites and transfer stations.



Implement and put into practice the efficient use and reuse of water and the zero waste policy.



Implement land use planning around water and access to water and basic sanitation.

# Bets for local and regional authorities

Incorporate the circular economy approach in development plans.

PGIRS que avancen en la circularidad de residuos

Strengthen and promote community solutions for water and sanitation management.

Closing gaps in rural and hard-to-reach areas.

Promote municipal associativity

Incorporating the popular economy into water and sanitation management



**MUCHAS GRACIAS  
POR SU ATENCIÓN**



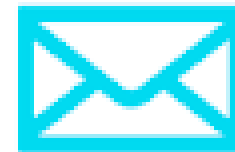
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**Desde el exterior:** con +57(601)

**Fax:** (60+1) 4897650

**Línea Gratuita Nacional:** 01 8000 517565

**Línea anticorrupción:** (60+1) 4873820 Ext. 235



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# Circular economy in Viet Nam: from legal framework perspective to practical implementation at the city level

**Nguyen Minh Cuong**

Deputy Director at the Division of  
Domestic Waste, Pollution Control  
Department at the Ministry of Natural  
Resources and Environment, Viet Nam



# Legal framework for CE in Vietnam

## 1. Introduction to Circular Economy in Vietnam

- **Definition:** Circular economy focuses on reducing raw materials, extending product life cycles, and minimizing waste generation.
- **Legal Framework:** The 2020 Law on Environmental Protection mandates the integration of circular economy principles into development strategies and waste management.

## 2. Key Objectives of the Circular Economy Scheme (2022)

- ✓ Reduce greenhouse gas emissions intensity by 15% by 2030, supporting net-zero emissions by 2050.
- ✓ Aim to reuse, recycle, and treat 85% of plastic waste by 2025.
- ✓ Target to treat 50% of municipal solid waste according to circular economy standards by 2030.

# Legal framework for CE in Vietnam

## 3. Policy Tools to Promote Circular Economy Adoption

- **Command and control measures:** Bans, restrictions, environmental permits, and sanctions.
- **Economic instruments:** Taxes, fees, subsidies, and waste reduction allowances.
- Public education and persuasion campaigns.

## 4. Principles for Waste Management

- ❖ **Extended producer responsibility:** Manufacturers and importers must recycle or contribute to recycling funds.
- ❖ **Utilization of waste as raw materials or fuels** if meeting quality standards.
- ❖ **Charging for waste collection** based on volume and type, exempting recyclable and hazardous waste.

# Legal framework for CE in Vietnam

## 5. Upcoming Agenda for Circular Economy Implementation

- ❖ Develop a National Action Plan for Circular Economy.
- ❖ Establish specific criteria and indicators for industries and fields.
- ❖ Provide guidelines for integrating circular economy principles into various strategies and waste management plans.

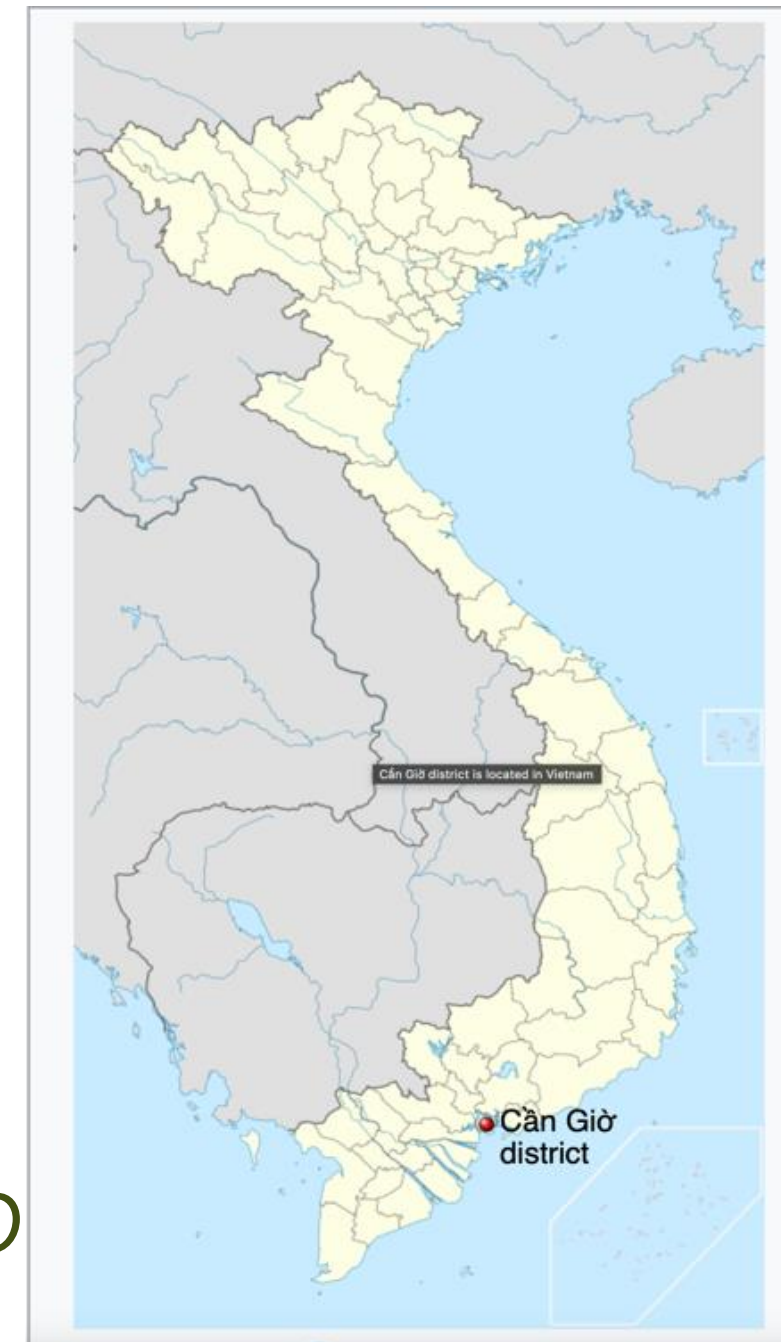
# Practical implementation at the city level

## ❖ Success Stories and Opportunities in Can Gio District, Ho Chi Minh City

- Project "Promoting the Circular Economy of Plastic Waste in Can Gio District"
- Implemented by Green Development Support Center (GreenHub) and Can Gio District People's Committee (2022 – 2023)
- Supported by The Coca-Cola Foundation

### ➤ **Can Gio District Overview**

- ✓ Coastal suburban district of Ho Chi Minh City
- ✓ Area: 704 km<sup>2</sup>, Population: 71,526
- ✓ Home to Can Gio Mangrove Forest, UNESCO Biosphere Reserve



# Practical implementation at the city level

## Success Story 1: *Establishment of Stable Connection*

- Addressing Plastic Waste Challenge in Can Gio:
  - 15,000 tons/year with 7-8% annual increase; only 15% recycled
- Circular Economy Model Implementation:
  - Establishing connections between waste collectors, warehouses, and recycling plants
- Impact:
  - Stabilized shipments, recycled over 62 tons of plastic waste



# Practical implementation at the city level

## Success Story 2: *Improving Collection Efficiency*

- Support for Small Waste Warehouses: Ms. Nguyen Thi Chau and Ms. Le Thi Chinh
- Provision of New Collection Carts
- Results: Increased waste collection capacity, sustainable livelihoods





# Practical implementation at the city level



## Success Story 3: Empowering Women

- **Green Garment Team:**
  - Utilizing materials from billboards and scrap fabric
  - Production of eco-friendly products, market sales, brand development
- **Women-led Waste Collection Campaign:**
  - Contest to promote recycling, community engagement
- **Results:** Increased waste collection, charity initiatives



# Practical implementation at the city level

## Success Story 4: *Alternative Solutions for Organic Waste*

- Advanced Training on Waste Classification and Recycling:
  - Composting, making bio-cleaning agents
- Household-Level Implementation:
  - Training and provision of composting tools
- Result: Community engagement, organic waste recycling



# Practical implementation at the city level

## Success Story 5: *Sustainable Tourism and Mangrove Conservation*

- **Waste Management in Vam Sat Tourist Area:**
  - Trash can design, strategic placement, awareness campaigns
- **Role of Tourists in Environmental Conservation:**
  - Active participation in waste management, sustainable tourism culture



# Practical implementation at the city level

## Success Story 6: *Environmental Education*

- GreenTalk Competition and Training Programs:
  - Theme: "Green schools recycle plastic waste"
  - Aim: Raise awareness, promote waste segregation and circular economy
- School-Level Initiatives:
  - Environmental clubs, child propagandists, slogan promotion
- Result: Enhanced understanding, advocacy for sustainable practices



# Opportunities

## ➤ Global Waste Management Outlook (2024)

- MSW increase from 2.3 billion tonnes (2023) to 3.8 billion tonnes (2050).
- Direct cost in 2020: Estimated USD 252 billion or USD 361 billion w/hidden costs consideration (pollution, health, climate change)
- Without intervention, double to USD 640.3 billion per annum by 2050.
- Potential savings: Implementing waste prevention and management measures could limit costs to USD 270.2 billion by 2050.
- Circular economy impact: adoption of circular economy principles could result in a **net gain of USD 108.5 billion per year.**

## ➤ Solid Waste Management in Vietnam

- MSW in Vietnam (2023): 24.5 million tonnes, projected to ~30.7 million tonnes in 2050 (Landfills: 64%; Waste-to-energy incinerators: 10.25%; Normal incinerators: 9.6%; Composting plants: 16.15%.)
- Funding: State funds: USD 481 million ~ 0.23% of GDP, lower than the global average of 0.5%.  
Investment needs: Doubling investment (~USD 1 billion) in waste management sector required for proper and environmentally sound management.
- Alternatives: Implement waste prevention and management measures, adopt circular economy models.
- Opportunities: good practices and success stories indicate potential for circular economy adoption in Vietnam (**net gain from USD 16 million to USD 30 million annually until 2050.**)

# What's next?



Connecting Global Minds for Circularity

# Thank you very much for your attention!

Questions/suggestion?

Please contact:

Mr. Nguyen Minh Cuong

Email: [nmcuong@monre.gov.vn](mailto:nmcuong@monre.gov.vn)

Whatsapp, Viber: +84903406458

# Efforts on Circular Economy and Public Policy: Turrialba City Case

**Carlos Cordero Vega**

Director of Secretariat of Planning for Environment and Energy Sector of Ministry of Environment and Energy, Costa Rica





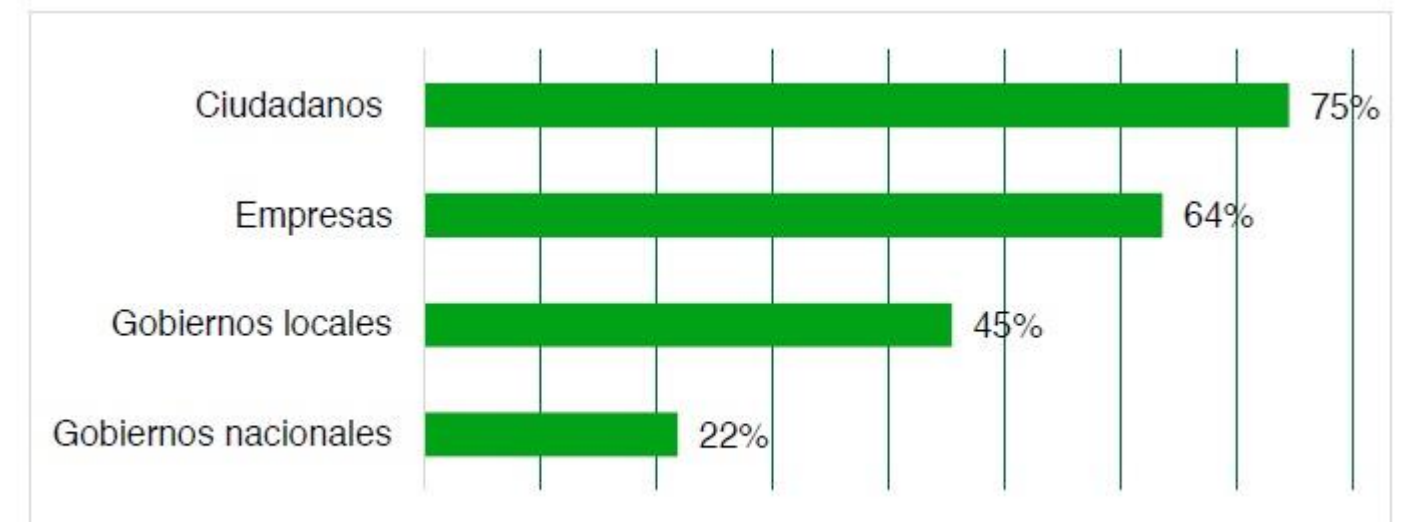
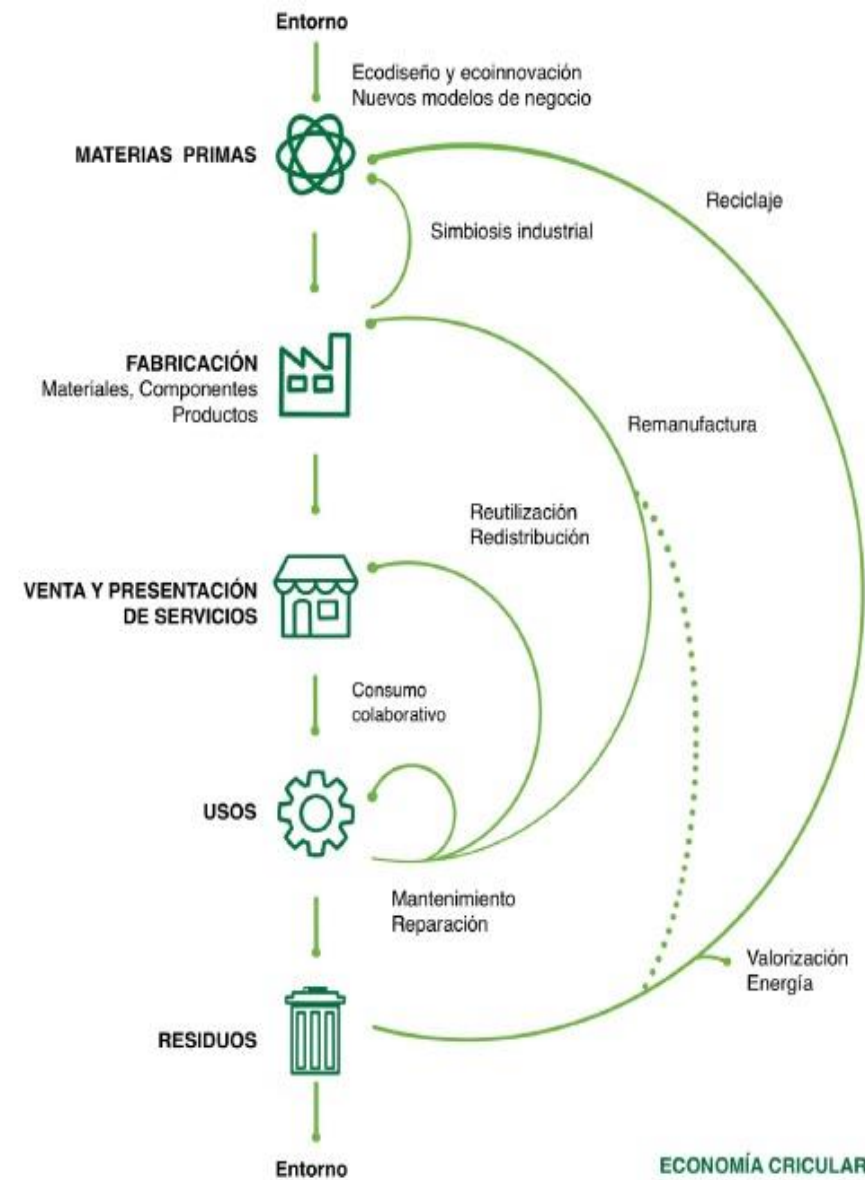
# Turrialba



Area	
• Total	56.1 km <sup>2</sup> (21.7 sq mi)
Elevation	
	646 m (2,119 ft)
Population (2011)	
• Total	26,680
• Density	480/km <sup>2</sup> (1,200/sq mi)



# Step by step guide for Circular Economy in Local Governments



# Step by step guide for Circular Economy in Local Governments

1. Definition of Circular Economy in the context of local governments.
2. Benefits from Circular Economy.
3. Beneficiaries of Circular Economy.
4. Success factors.
5. Barriers identification (the challenges).
6. Implementation: A general description, indicating the expected result of it, a detailed description of the activities, the resulting final product, examples of how the activity has been approached in previous experiences, tools that can be used to facilitate the execution, and It is important to highlight that Only those tools that are specific to CE are presented.

# Another efforts in Public Policy

Solid Waste Management Plan and Roadmap towards an Circular Economy in Turrialba:



Plan Municipal de Gestión  
Integral de Residuos Sólidos  
del cantón de Turrialba

2021-2026



Programa Regional  
Seguridad Energética y Cambio Climático  
en América Latina (EKLA)

KONRAD  
ADENAUER  
STIFTUNG

# Implementation

Potencial de reducción de emisiones planta de Compostaje Turrialba

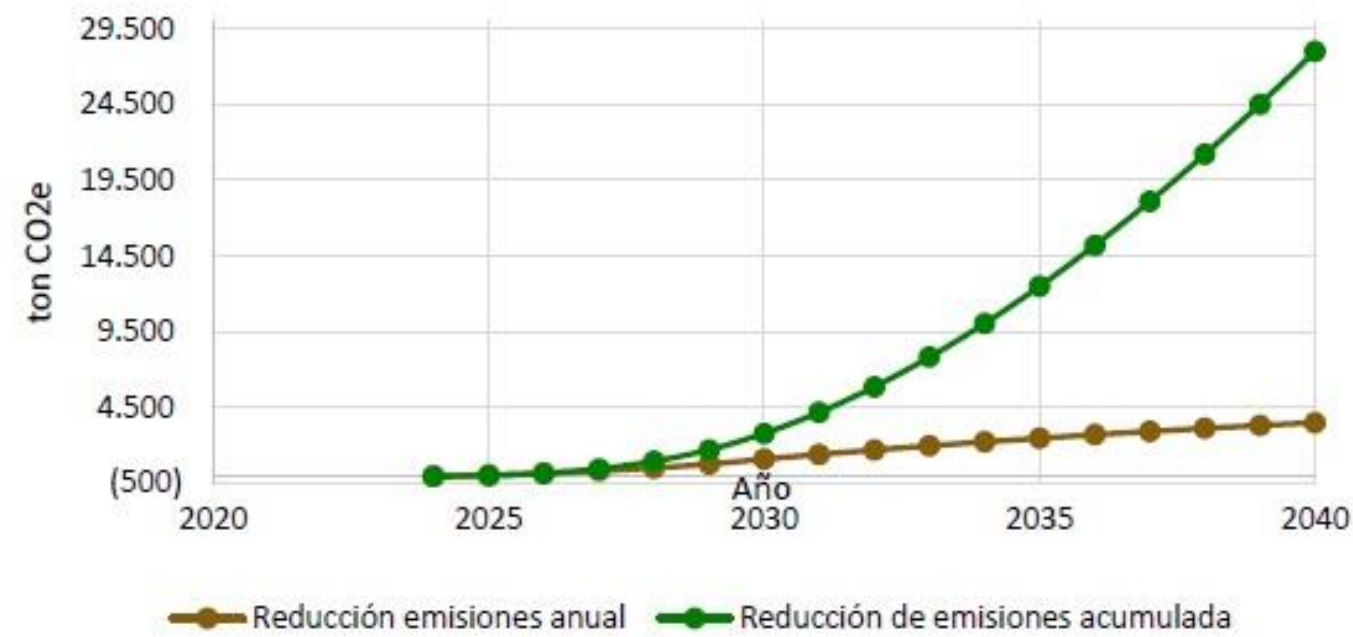


Figura 10: Potencial de reducción de emisiones acumulado planta de compostaje de Turrialba  
Fuente: Elaboración propia.

Comparación emisiones caso base vs proyecto de compostaje

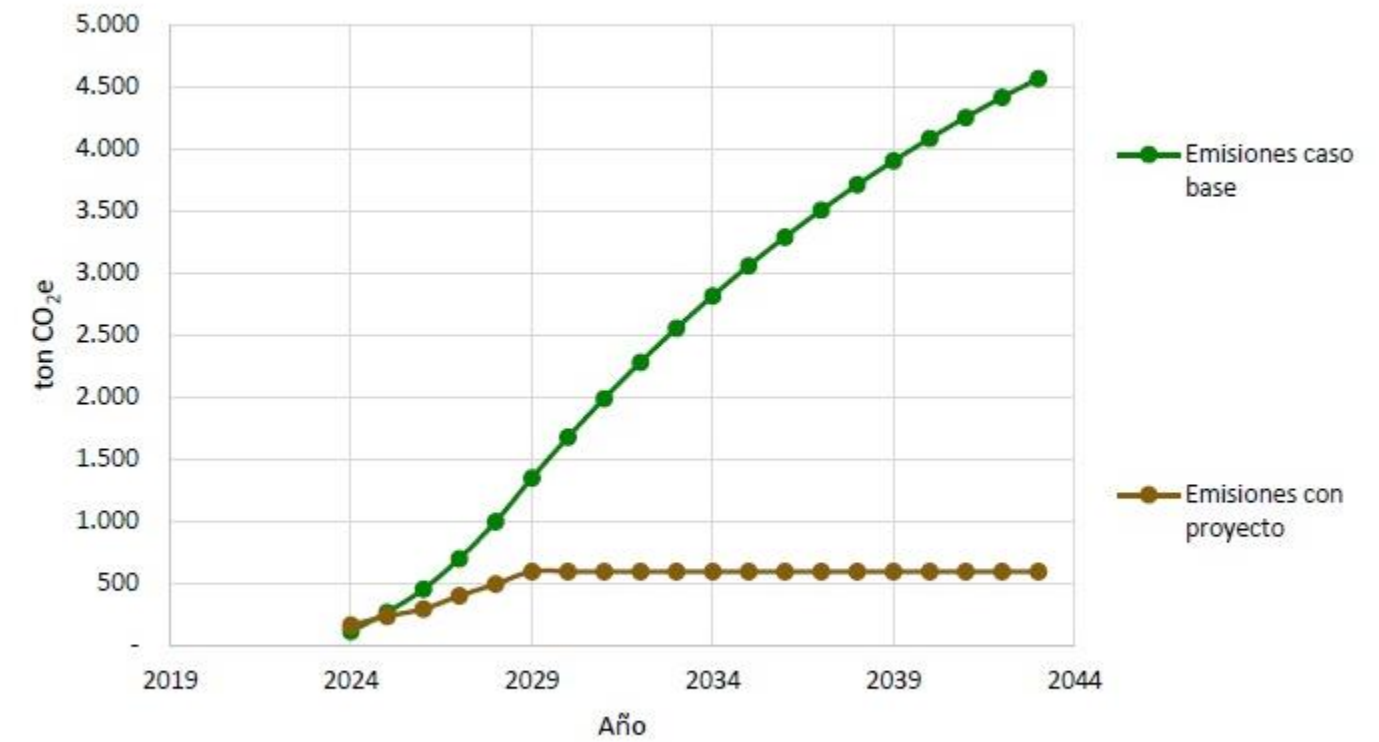


Figura 9: Comparación de emisiones en la situación base y con el proyecto de planta de compostaje  
Fuente: Elaboración propia.

**Potencial de caleamiento global años (ton CO<sub>2</sub>e)**

A 100 años (GWP = 28)

A 20 años (GWP = 81)

**Reducción de emisiones en 20**

11.489

39.458

# Solid waste transfer station



Figura 7: Ejemplos de sistemas de aireación forzada.  
Fuente: The Composting Handbook (Rynk, 2022).

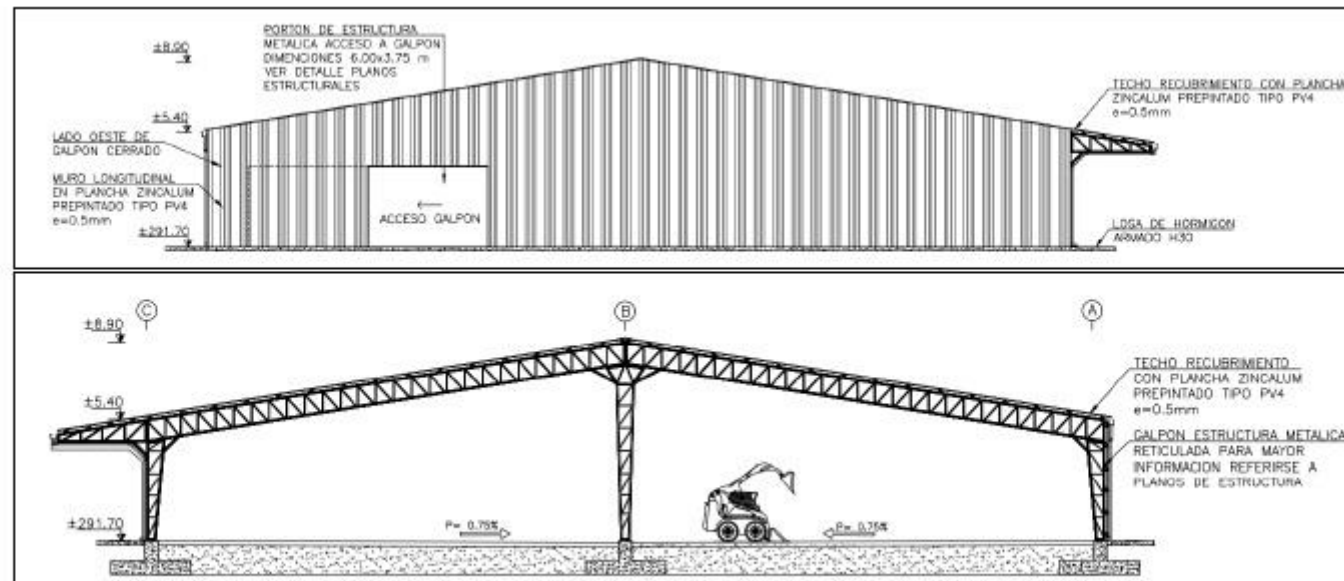


Figura 8: Ejemplos de galpón considerado en el diseño.

Componente:	Superficie:
Predio (Superficie Total)	47,499 m <sup>2</sup>
Planta de Separación y RDF	14,784 m <sup>2</sup>
Plasma	2,580 m <sup>2</sup>
Digestión Anaerobia	6,771 m <sup>2</sup>



# Hamburg: Produce locally, think globally

**Wolf Kuehr**

Independent Circularity Consultant,  
Germany



# Audience Interaction

What was your highlight from the city discussion in one word?







# URBAN METABOLISM

## Bending the Linear Economy: On urban Metabolism

Find the publication here:

[INTERSECTING on Bending the linear economy | Knowledge Hub for Green Technologies \(greentechknowledgehub.de\)](https://greentechknowledgehub.de)



A large head of broccoli is the central focus, resting on a wooden surface. Two colorful dinosaur figurines are positioned around it: a yellow and red long-necked dinosaur on the left, and a green and red bipedal dinosaur on the right. The background is a soft-focus green. A semi-transparent white banner is overlaid across the middle of the image, containing the text.

# Lunch Break

**12:30 – 13:30**



**Session 3**

# **Thematic Networking**

# Themes

- 1) Extended Producer Responsibility (EPR)
- 2) Digitisation & Innovation
- 3) Behavioural Change & Waste Prevention



# Theme Cards

Group 1

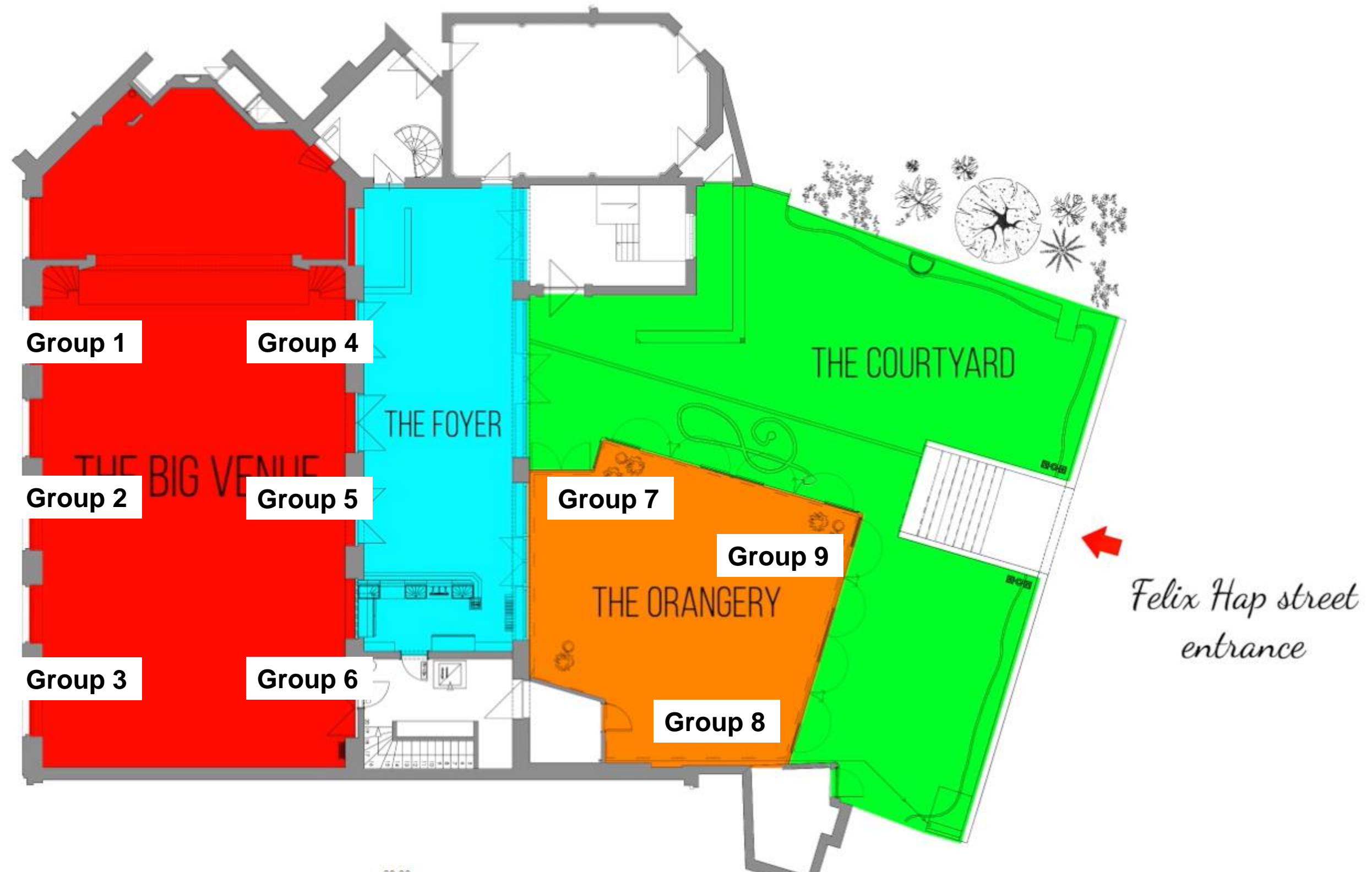
Group 2

Group 3



*Le*  
**BOUCHE À OREILLE**

1ST FLOOR MAP



# Coffee & Tea Break

3 pm – 3:30 pm





# Session 4

# EU Circular Economy Policies



# EU SWITCH Programme & EU Policies and trends in CE

**Matthias Reusing & Christiane Haziyo**

Delegation of the European Union to Zambia and COMESA, Zambia





# Impact of EU Circular Economy Policies on International Value Chains

by: **Matthias REUSING & Christiane HAZIYO**, European Union Delegation to Zambia & COMESA

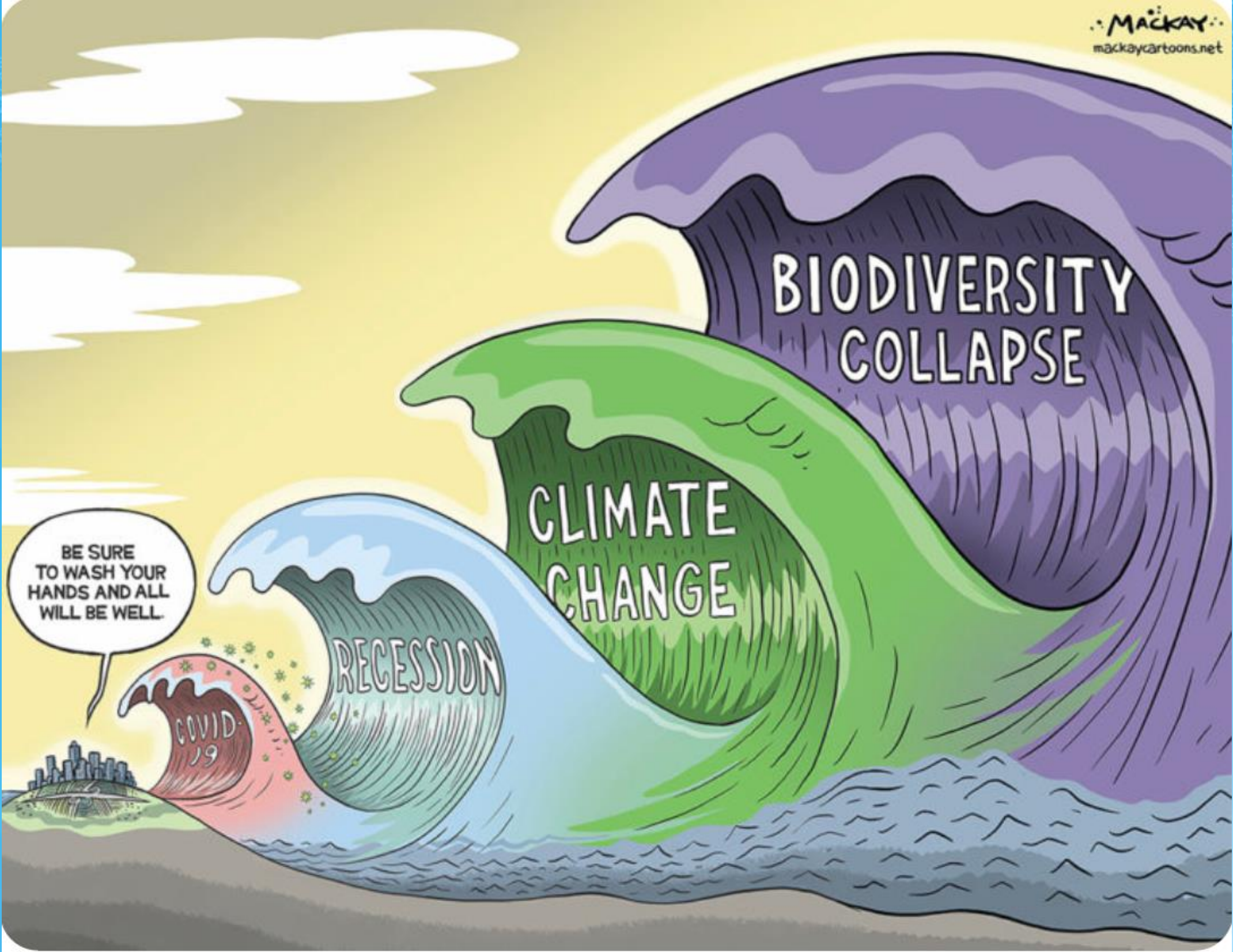
GIZ Circular Economy Week – Connecting Global Minds for Circularity

18 April 2024 in Brussels

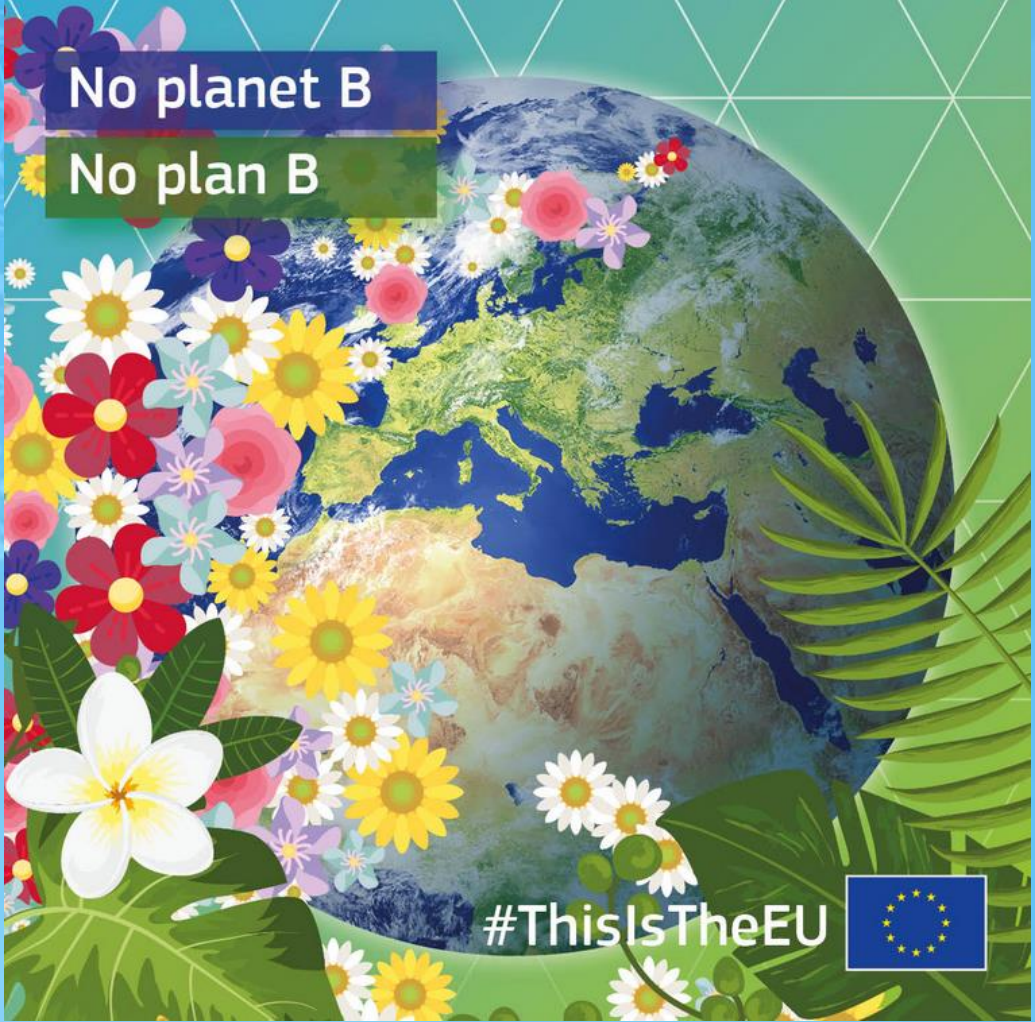


International  
Partnerships

# Global Challenges & Tsunamis



© Graeme Mackay



European Union  
**EXTERNAL ACTION**

# Why Circular Economy matters



Around **90 billion tons** of natural resources are extracted every year to support the global economy



Based on current trends, that number is expected to **more than double by 2050**



Currently, **only 9% of resources** find their way back into products after their first use



In **2019**, humans used nature's resource budget for the entire year by 29 July 2019, the **earliest overshoot** over the past 20 years



# Linear Economy Pathways...



# Reimagining Capitalism, in a World on Fire

REBECCA  
HENDERSON

REIMAGINING  
CAPITALISM  
IN A WORLD  
ON FIRE

**Professor Rebecca Henderson** researches & teaches at [Harvard Business School's](#) MBA programme

**Accordingly, we need to have critical conversations on:**

- 1) Creating Shared Value;
- 2) Building the Purpose-Driven Organization;
- 3) Rewiring Finance;
- 4) Building Cooperation;
- 5) Rebuilding Our Institutions & Fixing Our Governments;

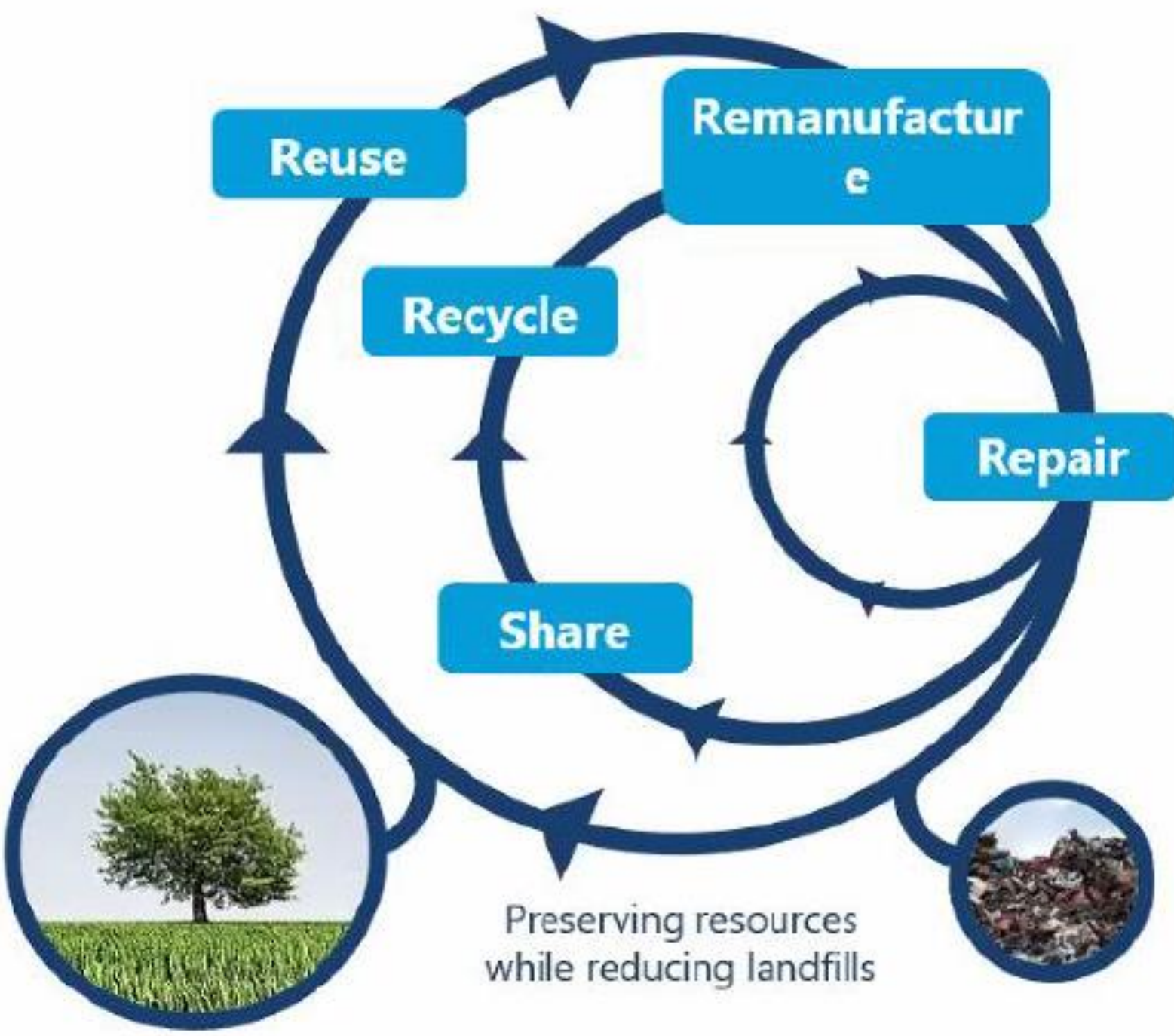


# From Linear to Circular

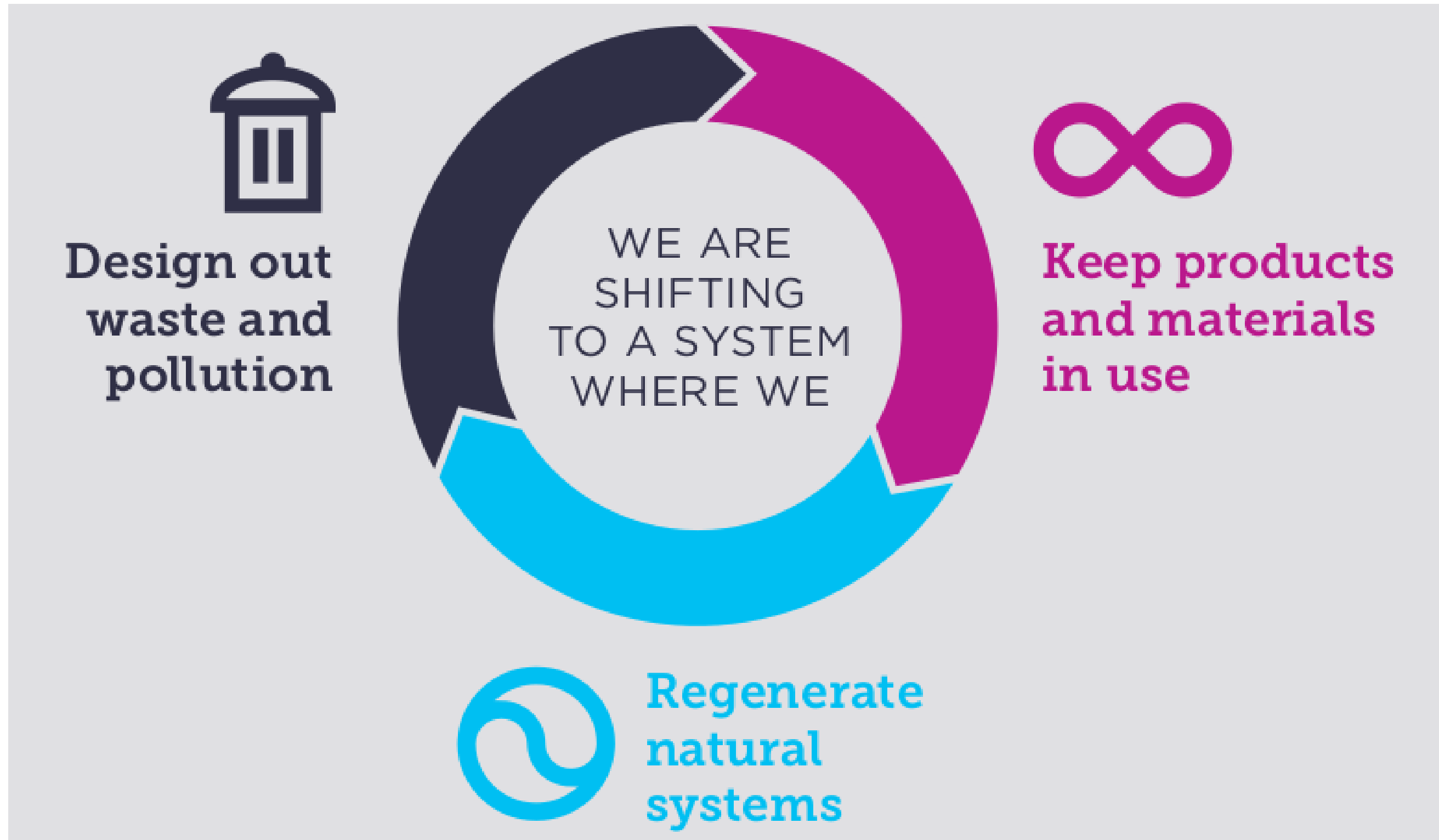
## Linear Economy



## Circular Economy



# The three Principles of Circular Economy







# Circular Economy Action Plan

For a cleaner and  
more competitive  
Europe

**DG Environment  
European Commission**



**CLIMATE  
PACT AND CLIMATE  
LAW**

**PROMOTING  
CLEAN  
ENERGY**

**INVESTING IN MORE  
SUSTAINABLE,  
SMARTER MOBILITY**

**PROTECTING NATURE**

**MOBILISING INDUSTRY  
FOR A CLEAN AND  
CIRCULAR ECONOMY**

# The European Green Deal

**FROM FARM  
TO FORK**

**ELIMINATING  
POLLUTION**

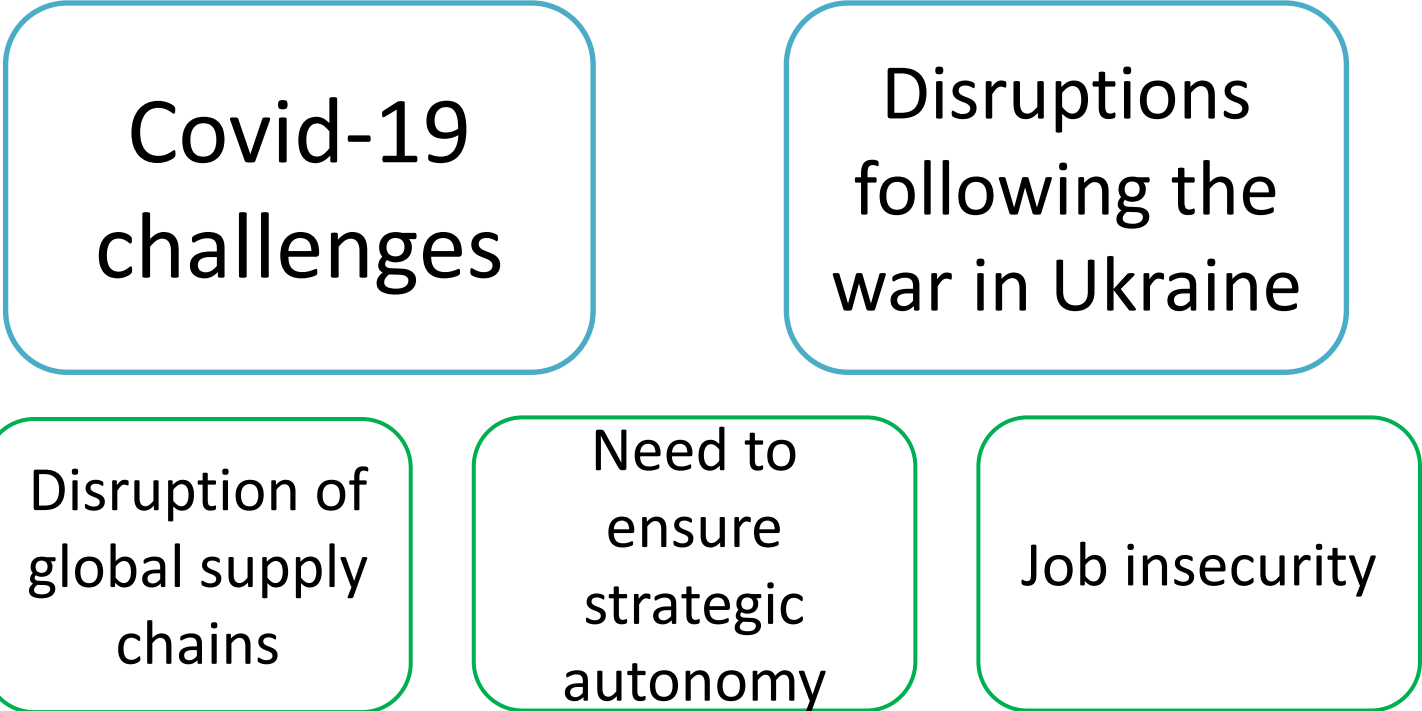
**LEADING THE  
GREEN CHANGE  
GLOBALLY**

**ENSURING  
A JUST TRANSITION  
FOR ALL**

**MAKING  
HOMES ENERGY  
EFFICIENT**

**FINANCING  
GREEN  
PROJECTS**

# A key to strategic autonomy



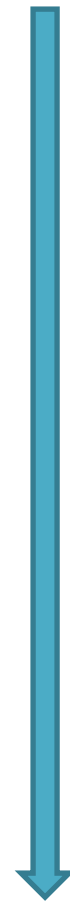
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## Circular economy is expected to:



# Circular economy: the business case

- **New business opportunities and new markets**

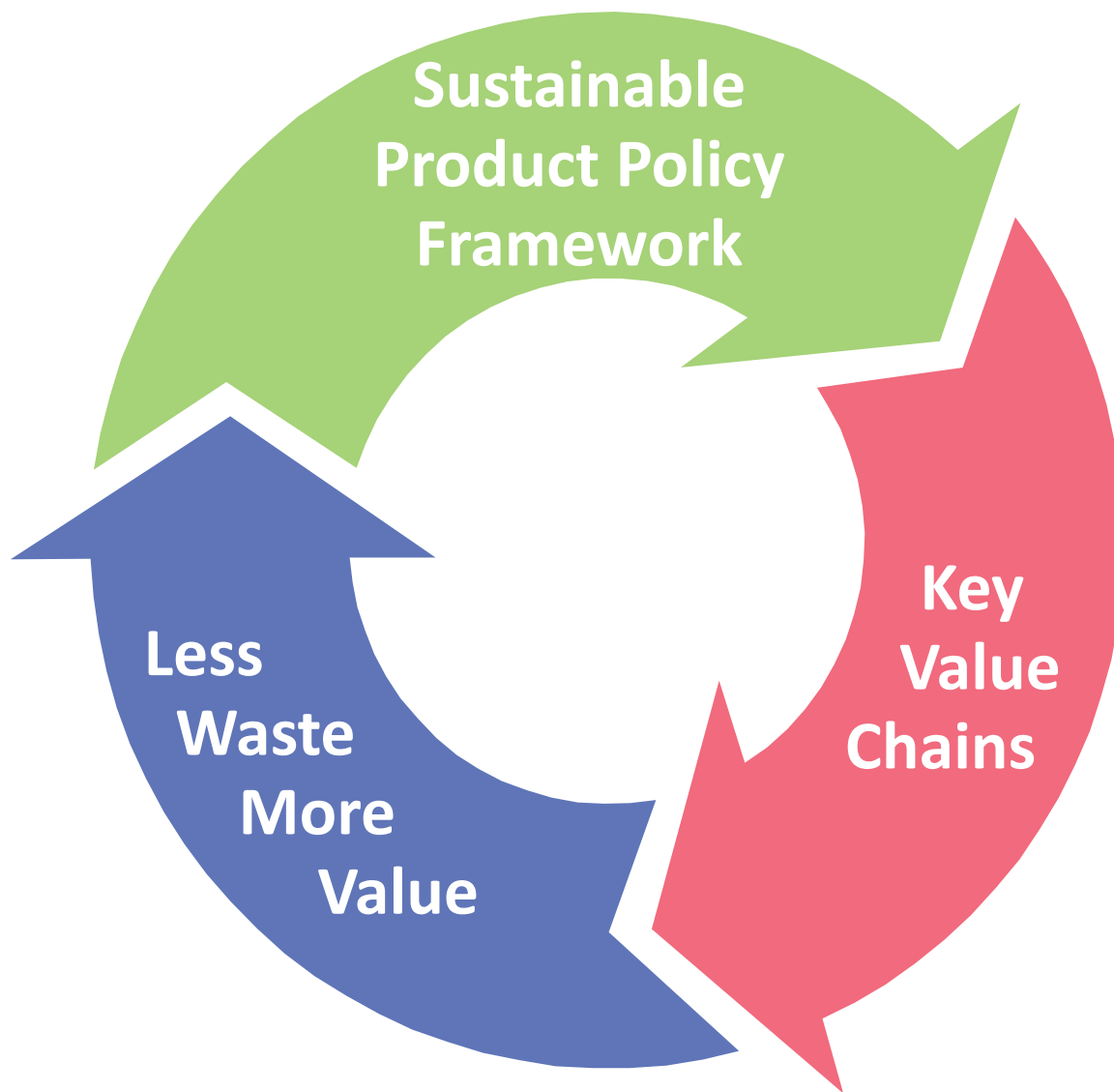


**Consumers' demand for more sustainable and circular products and services**



# Changing the way Europe produces and consumes

## 35 actions



Make sustainable products the norm in the EU  
Empower consumers and public buyers  
Sustainable production processes

Electronics and ICT  
Batteries and vehicles  
Packaging  
Plastics  
Textiles  
Construction and buildings  
Food, water and nutrients

Reduce Waste  
Reduce Waste Exports  
Boost market for high quality and safe secondary raw materials

**Making circular economy work for people, regions and cities**

**Circular economy as a requisite for climate neutrality**

**Getting the Economics Right**

**Financial Markets**

**Investments and R&I**

**Global Level Playing Field**

**Monitoring**

# Towards a global circular economy

- **EU Circular Economy Action Plan;**
  - Will pave the way for a cleaner and more competitive Europe.

## Leading efforts at global level to:



Keep resource use  
within planetary  
boundaries

Decouple global  
economic growth from  
resource use

Promote jobs creation  
within and outside the  
EU

An agenda to promote CE at bilateral, regional and multilateral level, including through development & international cooperation & partnership programmes



Negotiations for a  
global agreement on  
plastics

Global Circular  
Economy and  
Resource Efficiency  
Alliance

CE in free trade  
agreements

Outreach activities –  
i.a. Circular Economy  
Missions

Initiate discussions  
for a global  
agreement on  
natural resource  
management

# EU Directives/Regulations impacting Global Value Chains

- **EU Critical Raw Materials Act;**
  - Will ensure the EU's access to a secure, diversified, affordable and sustainable supply of critical raw materials.
- **EU Deforestation-Free Regulation;**
  - Will guarantee that the products EU citizens consume do not contribute to deforestation or forest degradation worldwide.
- **EU Carbon Border Adjustment Mechanism;**
  - Will fight carbon leakage and one of the central pillars of the EU's ambitious [Fit for 55 Agenda](#). It will equalise the price of carbon between domestic products and imports.
- **EU Directive on corporate sustainability due diligence;**
  - Will foster sustainable and responsible corporate behaviour and to anchor human rights and environmental considerations in companies' operations and corporate governance.
- **EU Ecodesign for Sustainable Products Regulation;**
  - Will improve EU products' circularity, energy performance and other environmental sustainability aspects.

# Stakeholder engagement

#CEStakeholderEU  
**European Circular Economy Stakeholder Platform**  
A joint initiative by the European Commission and the European Economic and Social Committee

Search in website

Advanced search

Home News and Events Knowledge Hub Toolbox Exchange About



Link to website:

<https://circulareconomy.europa.eu/platform/en>

## What's new

**The European Circular Economy Stakeholder Conference at the WCEF 2024!**

**Circular Economy – from Visions to Actions**  
European Circular Economy Stakeholder Conference  
15 - 16 April 2024 Brussels

16 Feb 2024

The European Circular Economy Stakeholder Conference will take place on 15 and 16 April

## Upcoming events

- World Circular Economy Forum 2024 (WCEF2024)**  
15 Apr 2024 - 18 Apr 2024  
Brussels, Belgium
- Reinventing the Wheel: Advancing tyre recycling**  
15 Apr 2024  
Brussels, Belgium
- Go Circular 2024**  
16 Apr 2024 - 17 Apr 2024  
Cologne, Germany
- The 29th ETRA Conference on Tyre Recycling**  
17 Apr 2024 - 19 Apr 2024  
Brussels, Belgium
- WCEF Accelerator Session | The power of partnerships: Stakeholder Engagement Platform Circular STEP**



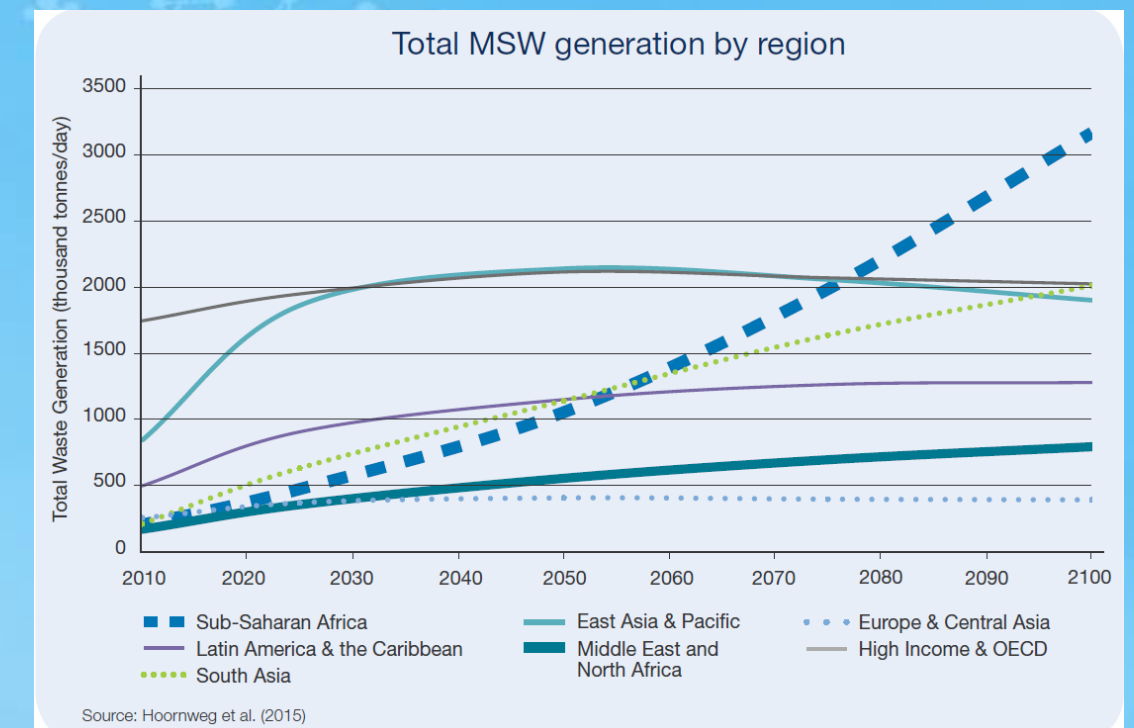
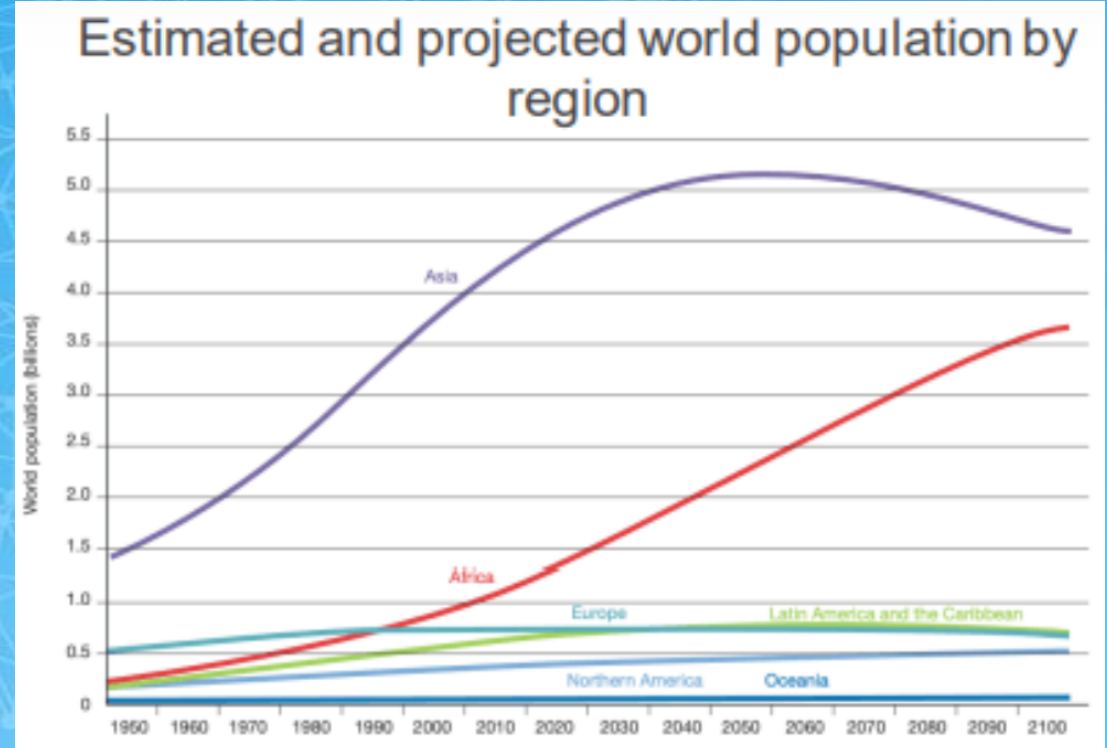
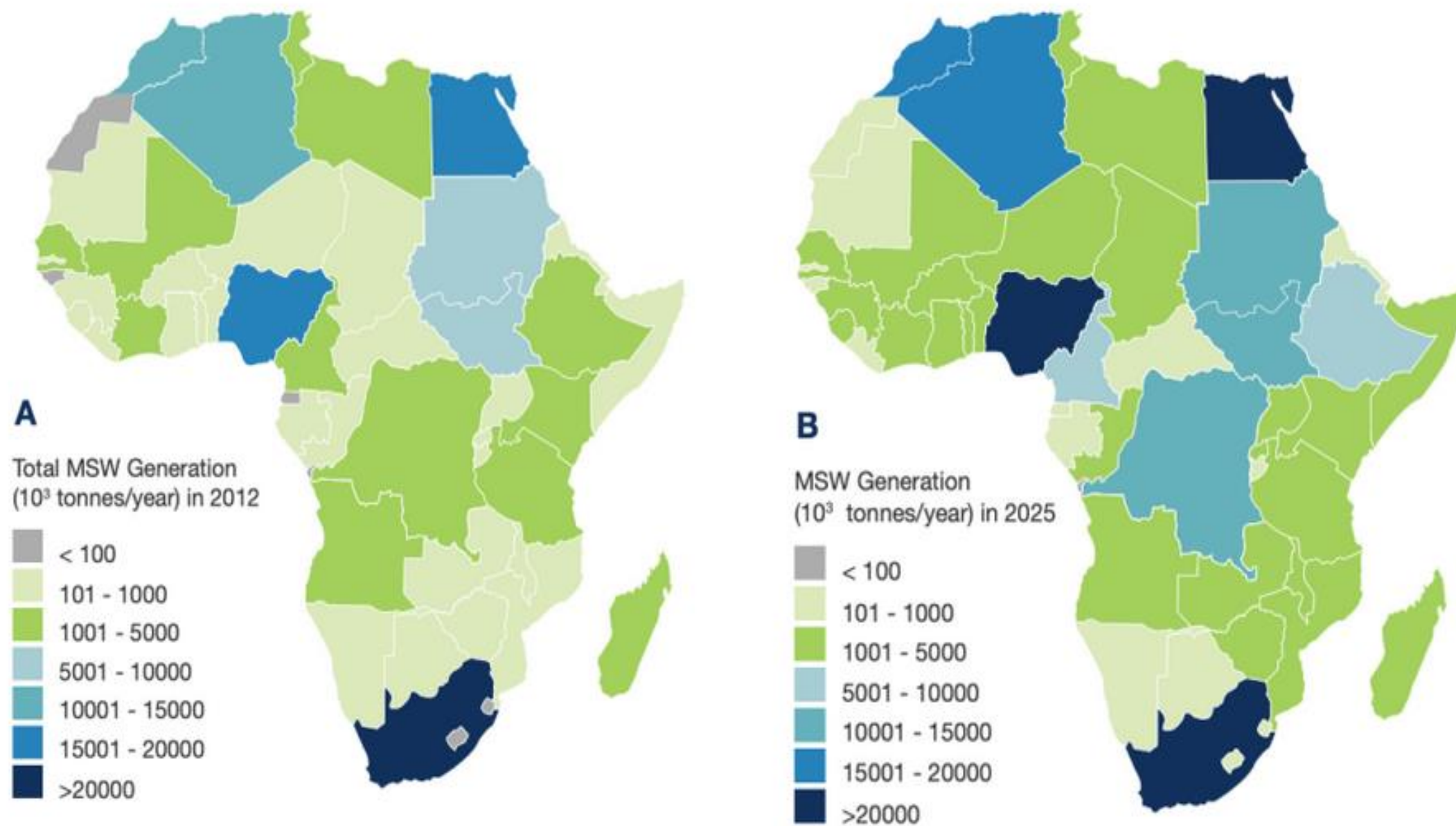


# **SWITCH to Circular Economy in East and Southern Africa (SWITCH-2-CE in ESA) program**



# Municipal Solid Waste (MSW) Generation in Africa...

**Total MSW generation (10<sup>3</sup> tonnes/year) of African countries in 2021 (A) and 2025 (B)**



Source: UN Habitat & UNEP



# Five Big Bets for Circular Economy in Africa, April 2021

In collaboration  
with Dalberg



AFRICAN  
CIRCULAR  
ECONOMY  
ALLIANCE



WORLD  
ECONOMIC  
FORUM

## Five Big Bets for the Circular Economy in Africa

African | Circular  
Economy Alliance

INSIGHT REPORT

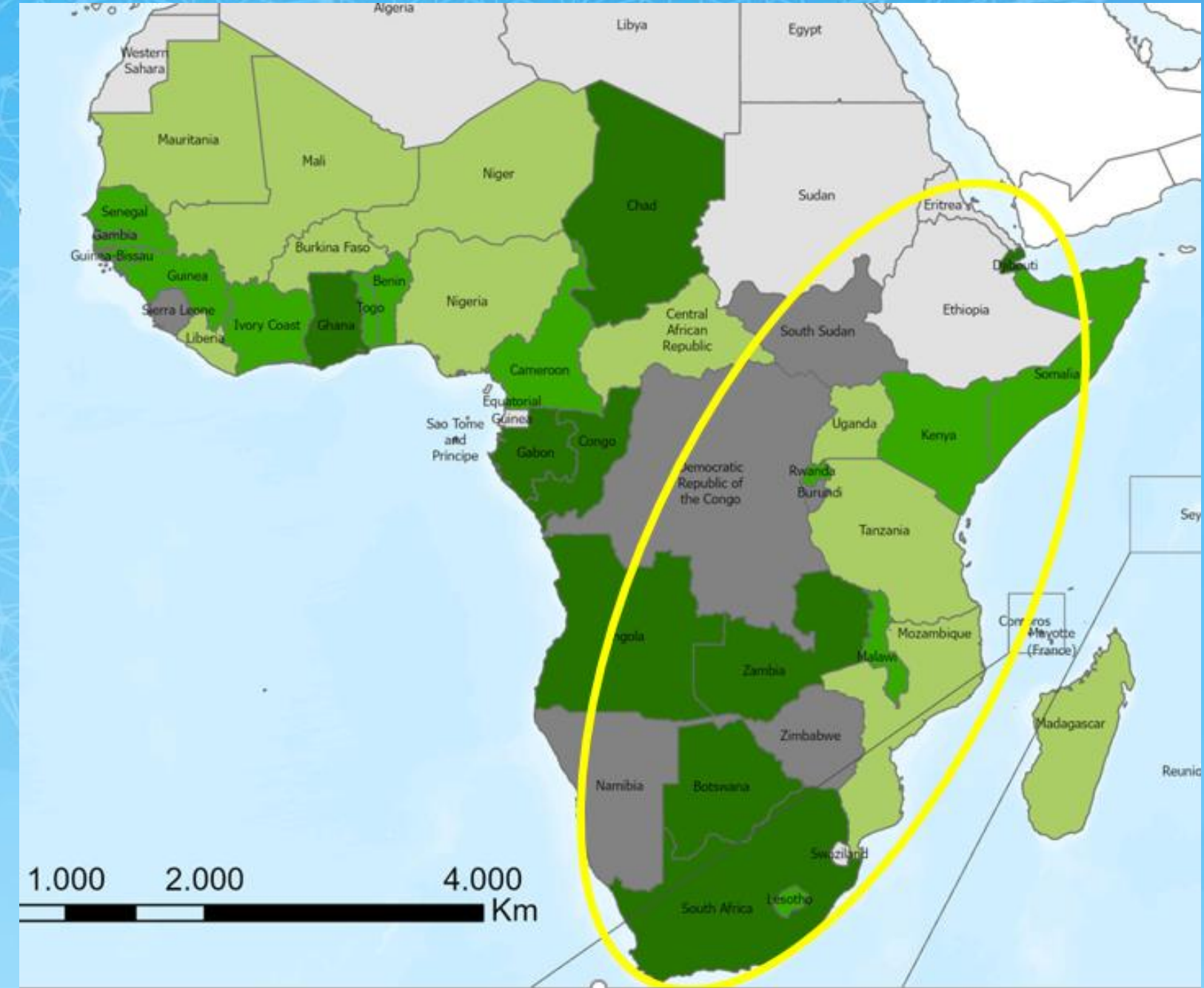
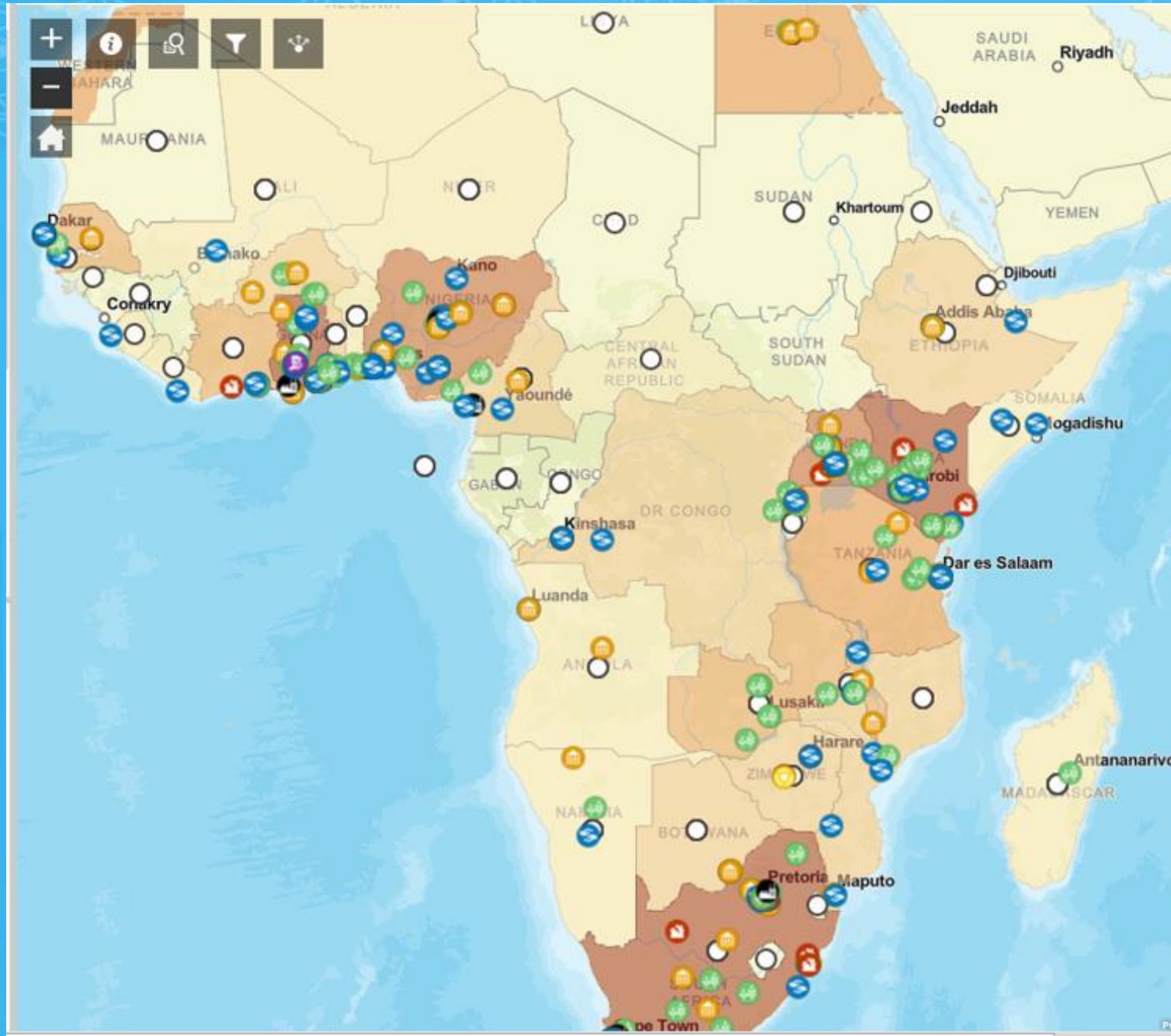
APRIL 2021

### Thematic opportunity areas

1. Food systems;
2. **Packaging;**
3. Built environment;
4. **Electronics;**
5. Fashion and textiles;

Note: The European Commission (i.e. DG ENV) is a member of the ACEA, representing also EU MS.

# Why a focus on East & Southern Africa?



Promotion of South-South Twinning & Peer-to-Peer Learning

# Stakeholder consultations and co-creation...

INTPA A.2 &  
F.2

DG ENV

EU  
Delegations  
(incl. missions)

Regional  
Economic  
Communities  
(REC)

Government

EIB, AfDB &  
EFDs

International

Organizations  
EU Member  
States

Consulting  
Firms

NGOs /  
CSOs

Private  
Sector

Etc.



# Networking Opportunities and co-creation...

World Circular Economy Forum, from 06 to 08/12/2023 in Kigali, Rwanda



# Three components of the regional CE programme...

**1) Business Enabling  
Environment  
& Investment Climate**



**2) Human &  
Skills Development**

**3) Matching Grant Facility  
(MGF)**

For Start-Ups, SMEs  
& Joint Ventures

## Main principles:

- **South-South** Twinning & Peer-to-Peer Learning;
- **Green & Digital** Transformation

# Objectives and Programme Components

**Overall Objective (impact): To promote sustainable growth and job creation in Africa**

**Specific Objective: To support the transition to Circular Economy in East & Southern Africa**

The Components in more detail...

**Component 1: Awareness, national policies, business enabling environment, investment climate and policy dialogues on CE enhanced**

- Promote South-South Cooperation & Twinning, across countries within the ESA region;

**Component 2: Human and skills in targeted PVCs improved**

- Peer-to-peer learning / South-South & North-South cooperation, including through e-learning platforms;

**Component 3: Matching Grant Facility (MGF) for innovative start-ups & transformative SMEs;**

- Annual calls for sustainable and circular business plans, targeting PVCs across the region / separate lots for start-ups and SMEs / stimulate joint ventures through business consortia across borders;



# Mobilizing additional Access to Finance for transforming SMEs

## Global Gateway Europe – Africa Investment Package:

- Mobilize additional loans for SMEs through Financial Instruments under the “**European Fund for Sustainable Development (EFSD+)**”;

- **Our potential partners:**

- European Investment Bank (EIB);



- European Finance and Development Institutions (EFDIs);



- African Development Bank (AfDB);



...and local banks within the ESA region

# World Circular Economy Forum 2024 in Brussels



## COMESA participants

- **Dr. Mohamed KADAH**, Assistant Secretary General – Programmes, COMESA Secretariat;
- **Ms Mshuka KAMWELA**, EDF Coordinator / EU relations, COMESA Secretariat;
- **Mr. Sudir CHUKUN**, COMESA Business Council (CBC);



## Zambia participants

- **Dr. Douty CHIBAMBA**, Permanent Secretary, Ministry of Green Economy & Environment (MoGEE);



No planet B

No plan B

#ThisIsTheEU



European Union  
**EXTERNAL ACTION**

# THANK YOU



# Audience Interaction



# Panel Discussion

## **Shalini Goyal Challa**

International Council for Circular Economy (ICCE), India



## **Stéphane Ardit**

European Environmental Bureau (EEB), Belgium



## **Asst. Prof. Dr. Piti Eiamchamroonlarp**

Chulalongkorn University, Thailand



# Never stop networking

## Join the GreenTech Knowledge Hub

Join our Communities of Practice

🗨 Meet other innovative decision-makers, experts, and practitioners

🗨 Align your efforts across countries and sectors

🗨 Benefit from inspiring tools, discussions, and expert online events



## Join the Prevent Hub

Join our Communities of Practice

🗨 Network with other circular economy practitioners

🗨 get access to the latest resources, calls, news, events and funding opportunities.

🗨 Join weekly matchmaking sessions to either present your work or learn about other members' activities



# THANK YOU

for joining us today

 **Never stop networking**

 **Safe travels**



 **Let's stay in touch**