



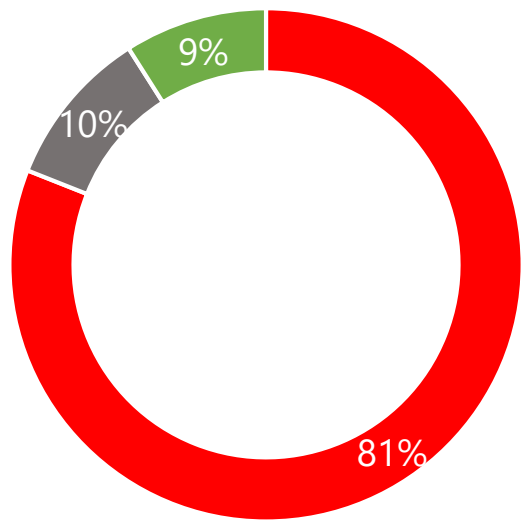
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# ADDRESSING AND BOOSTING CIRCULAR ECONOMY PRACTICE

## “NETWORK AND IMPLEMENTATION OF CIRCULAR ECONOMY”

# INDONESIA WASTE MANAGEMENT SITUATION

## Domestic Waste Treatment

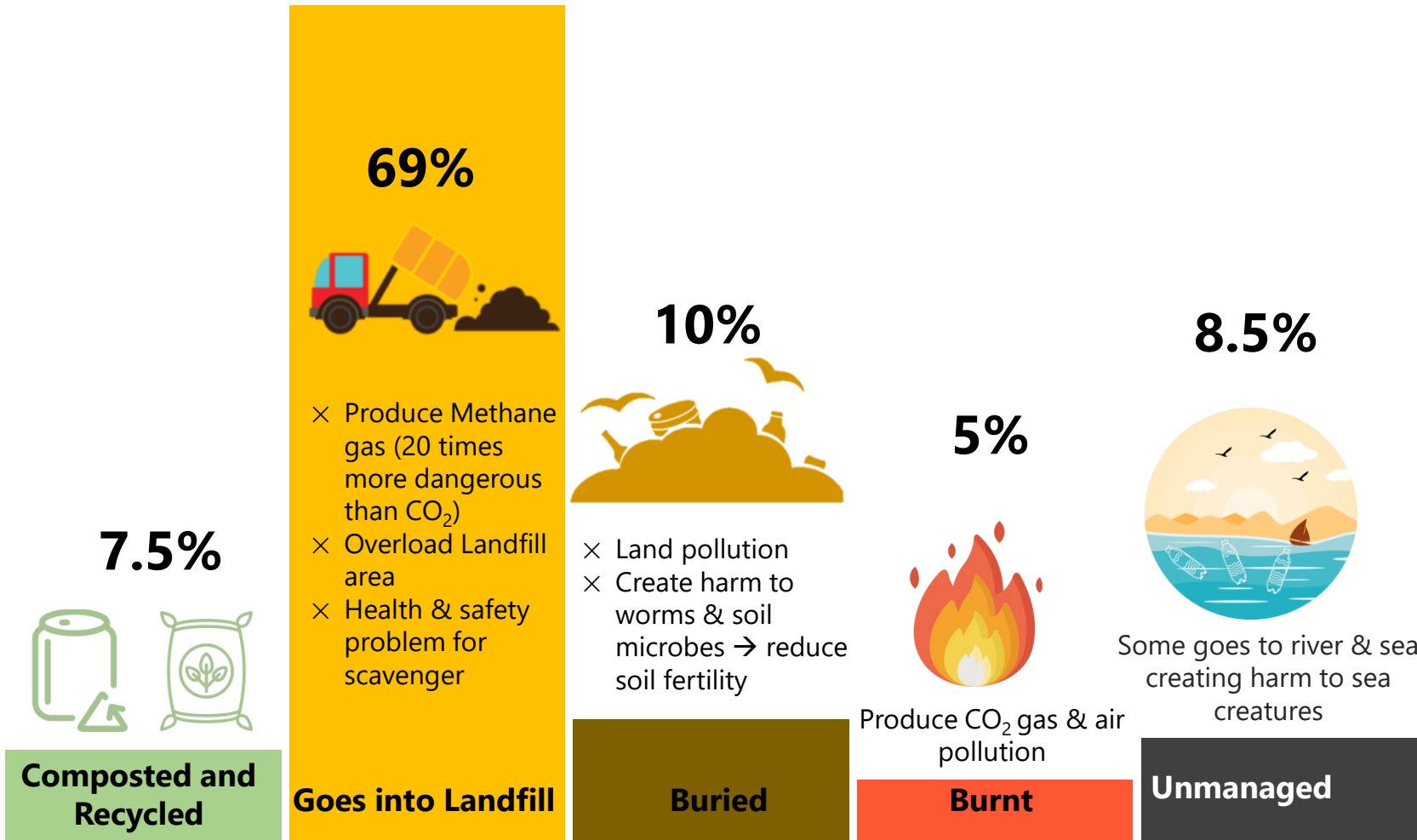


**81% waste not segregated**  
**10% waste sorted & disposed**  
**9% waste sorted & reused/recycled**

Ecosystem Issues

175.000 ton waste/day

## Current Waste Management & Treatment



# INDONESIA WASTE ECONOMY\*

**175.000 ton/day** of waste were estimated to be produced in 2016

Information	Linear Economy	Circular Economy
Cost of responsibility (per ton)	Rp 585.000	Rp 1.365.000
Cost responsibility waste management (per day)	Rp 102.375.000.000	Rp 144.335.123.698
Potential income (per day)	Rp -	Rp 79.214.843.750
Total Cost (per day)	Rp 102.375.000.000	Rp 65.120.279.948
Saving if we process the waste with Circular Economy (per day)	Rp	37.254.720.052

## CIRCULAR ECONOMY IMPACT on INDONESIA

**Saving annualy Rp 13.597.972.819.010 or \$ 906.531.521**

**Economic Income Rp 28.913.417.968.750 or \$ 1.927.561.198**

\*)data, research, assumption by waste4change's team from many sources

# THE ROLE OF STAKEHOLDERS



Indonesia already have the stakeholders,  
but a better **responsibilities**  
& **transparency** are still needed



The need for an **upstream to downstream coordination** from national to regional levels, with clear roles and responsibilities



The need for **valid and accessible** database to provide clearer picture on the possible intercity collaboration.



**Industry** is not only the brand owner, but also retailers, virgin plastic producers, packaging supplier, and recycling industries.

The **roles and responsibilities** are already stated,  
but the question is  
**have we done it yet?**

The **spirit of Extended Stakeholder Responsibility** are  
needed to be formed into an **action**



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# NETWORKING OF CIRCULAR ECONOMY THROUGH INDONESIA CIRCULAR ECONOMY FORUM





## The Indonesia Circular Economy Forum

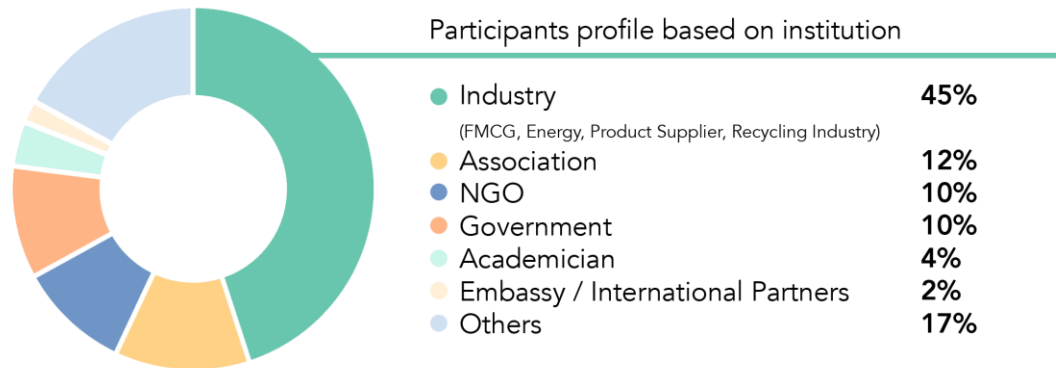
is an annual event that **brings together all decision makers** from **government, companies**, as well as **environmental issues enthusiast** to sit together and discuss about the issues and the potential of Indonesia implementing circular economy concept in the future.

It aims to raise the awareness of the audiences as well as to identify opportunities to work on the implementation of circular economy in Indonesia.

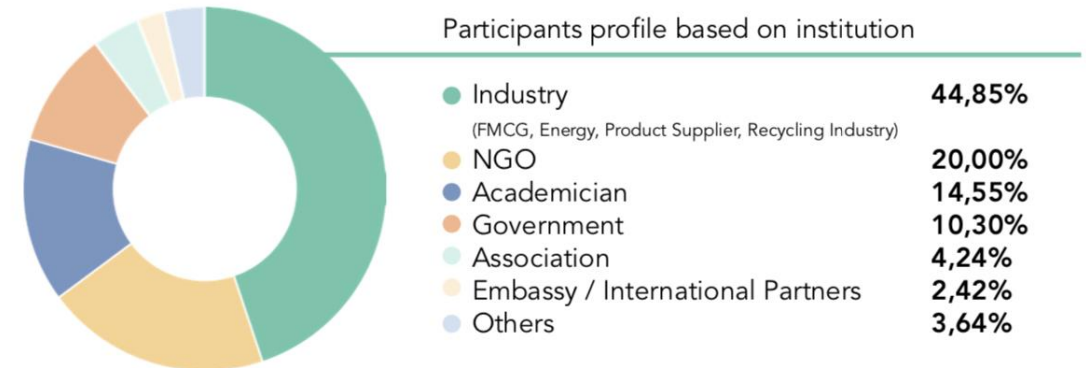




**90** Participants in total



**169** Participants in total



**The Indonesia Circular Economy Forum** targets the **decision maker** on various sector, so **collaboration** will be done more effectively and the result of the forum can be **implemented immediately** at each respective areas



## Previous Events





# Sources Management

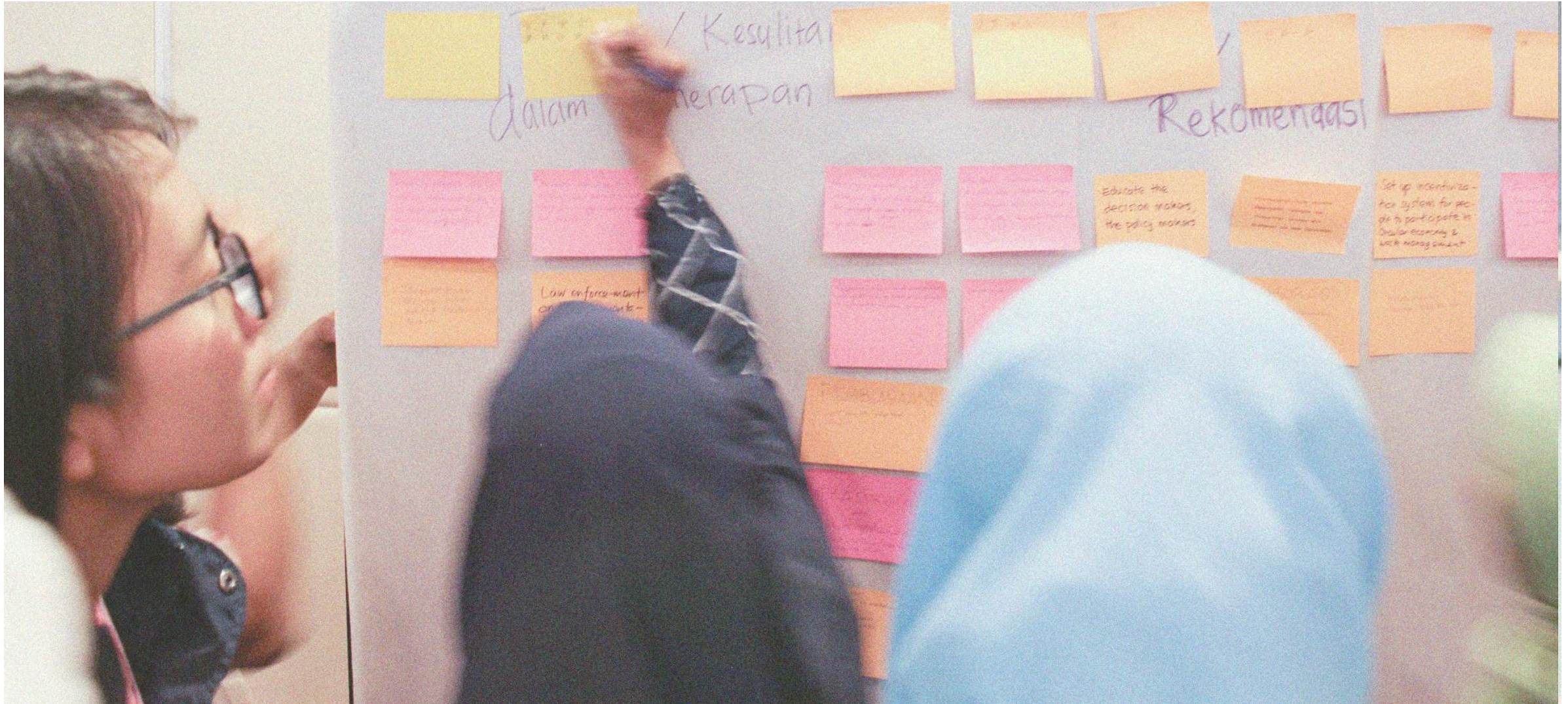
## rabaya



The 2<sup>nd</sup> Indonesia Circular Economy Forum 2018



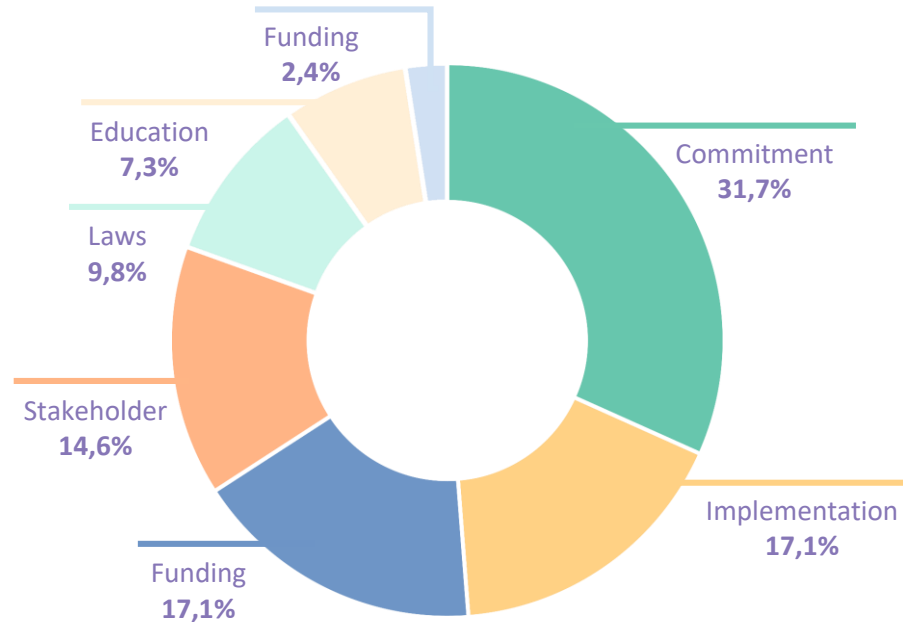
# Findings





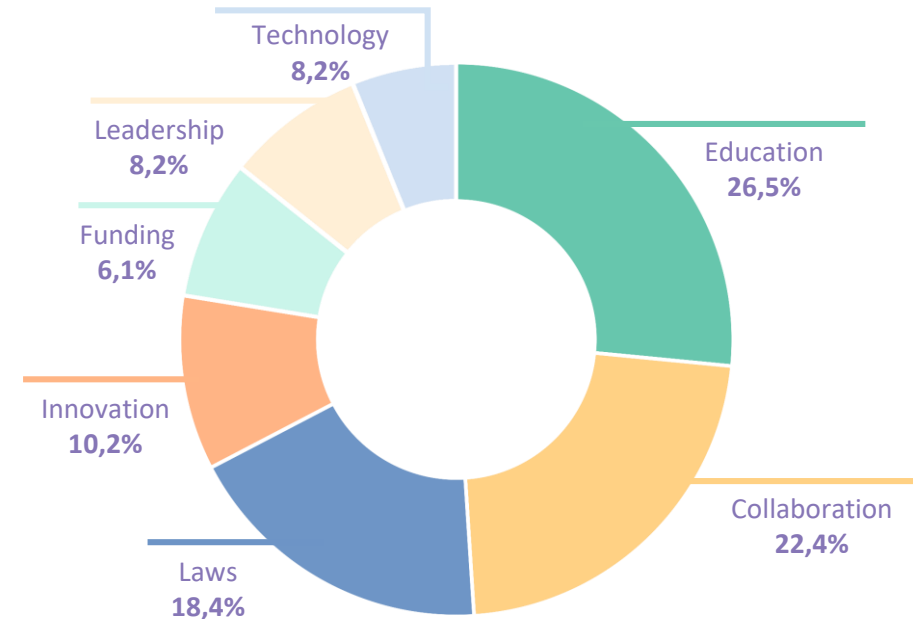
# Challenge in Implementing Circular Economy

## Challenges



Three main **challenges** are **commitment**, **implementation**, and **funds**.

## Solutions



Three main **solutions** are **education**, **collaboration**, and **laws**.

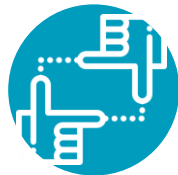




# Issues



**Jakstranas as a grand design** has manifested the spirit of circular economy in Indonesia through their target of waste reduction at 30%, and waste handling at 70% by 2025.



There are four main models towards sustainable transformation, which comprises circular economy, namely; Information and knowledge **sharing**, Specific **problem solving**, Formulating a new **business model**, and **Regulation** (new advocacy).



The need of **participation** from every element, **synchronization** of institutions, and **uniformity of parameters** in evaluating the achievement of the development are necessary for a shift towards circular economy.



The key points to achieve circular economy are **market access** with the satisfying quality and quantity and **integrated** collection system. With the two influential actors are **major companies** with massive system and broad coverage area and **small enterprises** (start-ups/informal sector) that can steer the circular economy ecosystem inclusively.



There is a huge circular economy potential in Indonesia through **converting the waste into a recyclable material**

# Call for Action



## Government

### Central Government

- Apply circular economy into RPJMN with clear KPI
- New standardization based on product / materials
- Circular economy education to all layers

### Regional Government

Implement circular economy values into RAD



## Academicians

- Analyze the **potential lost** by comparing linear economy and circular economy
- **conduct a study** on the implementation of the circular economy from multiple parties in various sector



## The Community and NGOs

- Understand what we can **contribute as a consumer**
- **Education and socialization** towards green label, green procurement, and sustainable consumption.
- Massive, structured, and systematic transformation.



## Industry

- Industrial collaboration
- Innovation
- Adopt and apply **circular economy practices**
- Increasing **playing field** for industries that will do recycling
- Adjustable **incentive mechanism**
- **Voluntary approach** as an entry point to inspire other brand owners



# Download the Report

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**LINK:**

**<http://bit.ly/CEF18REPORT>**



# Our Networks



**EMBASSY  
OF DENMARK**  
*Jakarta*



Kingdom of the Netherlands



**KAMAR DAGANG DAN  
INDUSTRI INDONESIA**  
*Indonesian Chamber of  
Commerce and Industry*





## The 3<sup>rd</sup> Indonesia Circular Economy Forum 2019

17 - 19 July 2019 JCC Senayan, Jakarta

**Indonesia Circular Economy Forum** is one of the best way to strengthen our network in circular economy and **we are open for all networks to collaborate**



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# IMPLEMENTATION OF CIRCULAR ECONOMY THROUGH SOCIAL ENTERPRISE, WASTE4CHANGE





# PT Waste4change Alam Indonesia

A social-enterprise founded in 2014 that give services in waste management with an environmental friendly and responsible approach

## The **FIRST** upstream responsible waste management service

Tagline: “Responsible Waste Management”

### OUR VISION

To become **leader** in providing **ethical and responsible waste management** solutions towards zero waste

### OUR VALUES

1. INTEGRITY
2. SOLUTION
3. RESPONSIBLE
4. COLLABORATION
5. CARING

### OUR STRATEGY

**Ecosystem change** for a responsible waste management by **collaboration and technology** towards Circular Economy & Zero-Waste environment

### HOW WE DO IT

We collect and manage the waste responsibly while creating awareness and education about responsible waste management to change behavior towards Circular Economy & Zero-Waste



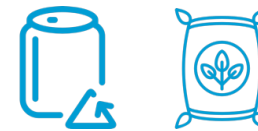
Education & Segregated Waste  
**Collection** From Source



Responsible Waste  
Collection



Material Recovery  
Facility



Sorted the Composted &  
Recycled Material



Waste Journey  
Report

# WHY WE STARTED?

There are  
**981 TPS 3R**  
in Indonesia  
*but mostly idle*



TPS 3R is a Waste Management Site for 3R activities which includes organic waste treatment and inorganic waste sorting

(Dinas Cipta Karya Kementerian PU, 2016)

There are  
**4.2K waste banks**  
in Indonesia but *not economically viable*



Waste Bank is a place for community to sort & collect recyclable waste that has economic value, then deposit it in a bank system (KLHK 2016)

There are  
**many recyclers** throughout  
Indonesia but *there is no sustainable supply*

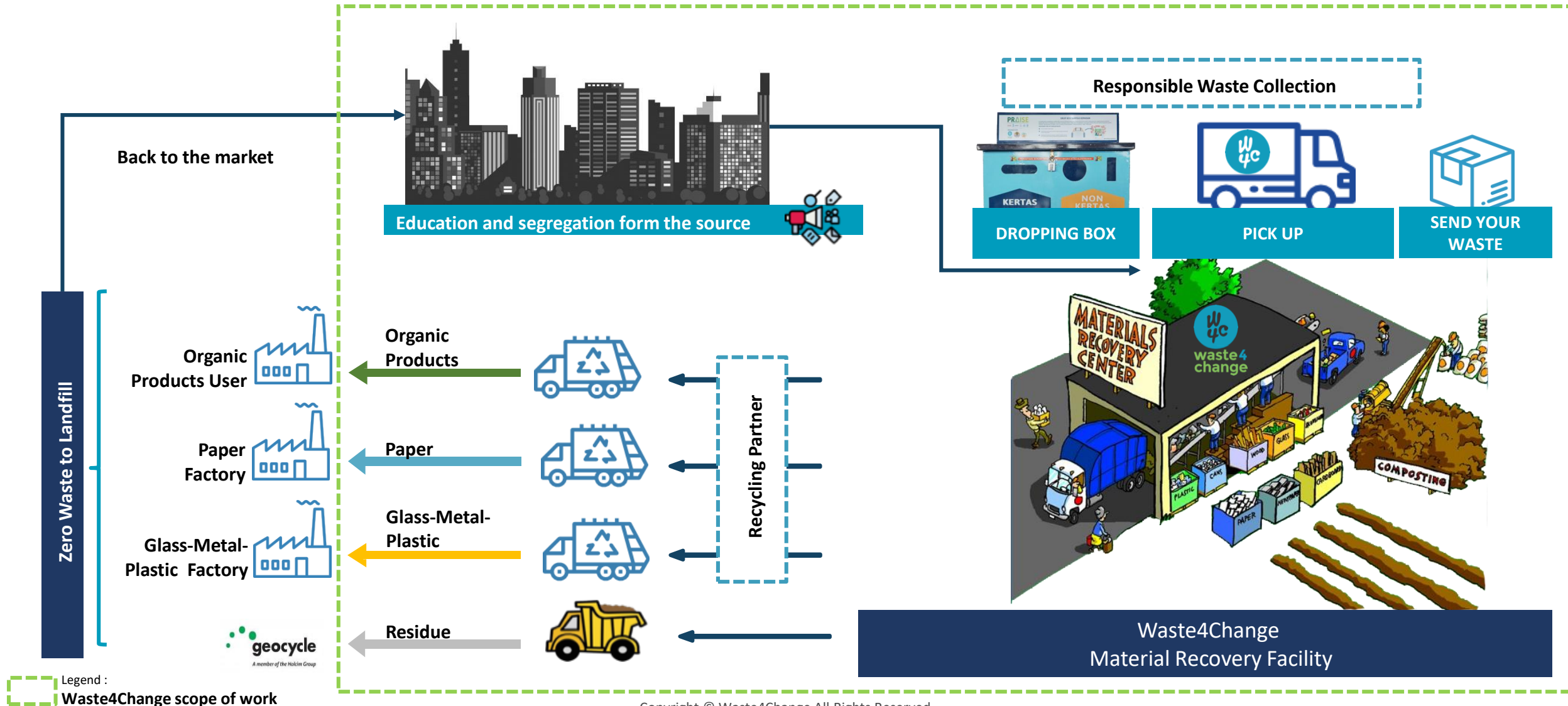


They are associated in ADUPI (Asosiasi Daur Ulang Plastik Indonesia) and APDUPI (Asosiasi Pengusaha Daur Ulang Plastik Indonesia)

A lot of stakeholders in waste business are already exist. However, they are currently working in an unorganised way, scattered and not integrated. Making the waste collection and management not in a most effective way.

**Thus, we will collaborate the existing potential stakeholders with the power of technology**

# WASTE4CHANGE CIRCULAR ECONOMY PRACTICE





# ANORGANIC FACILITIES





# Organic Facilities





# SOCIAL IMPACT: BETTER LIVELIHOOD



We tend to work with scavenger/waste picker and informal sector to give them better opportunity on their working environment.

By joining Waste4Change, we provide them new opportunity to have **2-3x stable income**, **health insurance** and better working environment.



# COLLABORATION WITH PRODUCER/BRAND



We collaborate with brands such as FMCGs to reach more people to responsible with their waste.

The collaboration are meant to create an **sustainable business** environment and implement ESR (Extended Stakeholder Responsibility).



# COMMUNITY IMPACT: AWARENESS AND EDUCATION



## OUTCOME:

**Ecosystem change** for a responsible waste management by **collaboration and technology** towards Circular Economy & Zero-Waste environment

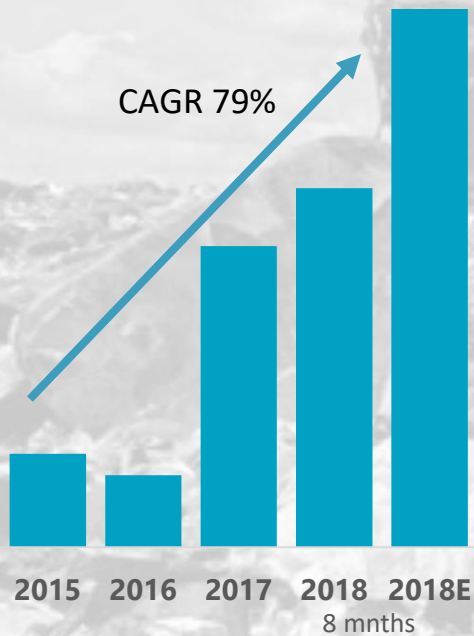
## PROGRAM:

- Indonesia Circular Economy Forum
- 3R School Adoption
- Landfill Tour
- Waste Induction Training
- Recycling Time



# WHAT WE HAVE ACHIEVED

## REVENUE



- 48% from our waste collection & management
- 52% from our education and campaign activities

## CLIENTS



#Private Company  
> 40 Companies  
6 Embassies and world organisation



#Residential  
>1,600 houses

## INFRASTRUCTURE



**Material Recovery Facility**  
2000 m<sup>2</sup>



#Operator  
(Waste Collector & Sorter)  
**19 people (67% growing)**

## WASTE COLLECTED & MANAGED



**3,500 tons** (accumulated)  
Current utilisation  
Avg. 7.5tons/day  
Max. 13.1tons/day



#Organic Waste  
Composted  
**30% - 60%**



#Waste Recycled  
**30 - 40%**



#Waste to Energy  
**10% - 20%**



Landfill  
**5% - 10%**

## REACH



**13.1K**  
followers



**2.5K**  
fans



**3.8K**  
followers



**2K**  
Avg. monthly visitors



# Let's Support Circular Economy Implementation in Indonesia



# Thank You

2018

[www.waste4change.com](http://www.waste4change.com) | [contact@waste4change.com](mailto:contact@waste4change.com)