

Transforming Collection and Waste Management Systems by Empowering its Main Stakeholders



Inclusive Recycling in Indonesia

Since 2019 - 2022



DANONE
·ECOSYSTEM

Waste Pickers in Indonesia



In Indonesia,
waste pickers play a pivotal
part in the collection process¹

83% of the plastic waste in
Java is collected by them

Yet...

Waste pickers face **challenges**³:

- Low social recognition of waste pickers work
- Unsafe working environment
- Gender wage gap: on average, women earn ~ 50% less income⁴



Leading to...



Difficult livelihoods

- **Low income:** waste pickers' income are equivalent or below the minimum wage in Jakarta (2013)
- **Unstable income:** variation of waste value
- **Low financial literacy** and **difficulty to access its services**



Marginalized communities

- **Structural difficulties** to access basic health and educations services
- Waste pickers are often **viewed as unclean and less educated** by their communities



Health problems

- Daily exposure to **hazardous waste material**
- Waste collected **without protection** against sun, sharp objects and harmful bacteria

Environmental Challenges

A resilient and structured **waste-circuit** is key to divert waste from landfill



Yet...



- There is a lack of structured recycling systems⁵
- Low awareness among households regarding plastic pollution and the need to recycle
- Low awareness on proper waste disposal, leading to high littering behaviour



Leading to...



340K+ tons/year⁶
of plastic makes its way from Indonesia's rivers and streams into the ocean

That's why, in 2021, a **coalition of public and private partners** joined forces to foster a new recycling culture and empower the recycling stream



*The **Inclusive Recycling in Indonesia** project was born!*



How it Works⁷

The Indonesian waste management system is composed of both **informal** and **formal** actors

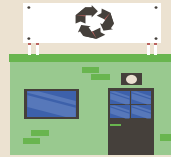
Informal: Collection Centers

Collection Centers purchase the recyclable waste picked up by **waste pickers**



Formal: Sorting Centers

Sorting Centers collect wastes from households picked up by **Sorting Centers employees**



Fostering both informal and formal actors involvement is critical in building an inclusive and efficient waste management system⁷



The *Inclusive Recycling In Indonesia* supports the **development of waste management ecosystem** through:



Professional Empowerment

- Provide comprehensive support to both informal and formal actors



Awareness Campaigns

- Advocate for better policies
- Increase recognition of waste pickers among citizens
- Raise awareness among citizens about the importance of recycling



Operations Support

- Strengthen capacity building: upgrade and build Sorting Centers



Waste pickers and Sorting Centers employees receive support on:



Training

- Receive safety and health education
- Receive waste management education



Social Support

- Access to better working conditions
- Increase of incomes



Equipments

- Access to protective equipment: aiming at protecting them and enhancing their social recognition

A **specific support** is then offered to workers

Informal



Access to saving accounts



Increased income thanks to waste segregation education

Formal



Sign employment contracts to get role transparency and salary stability

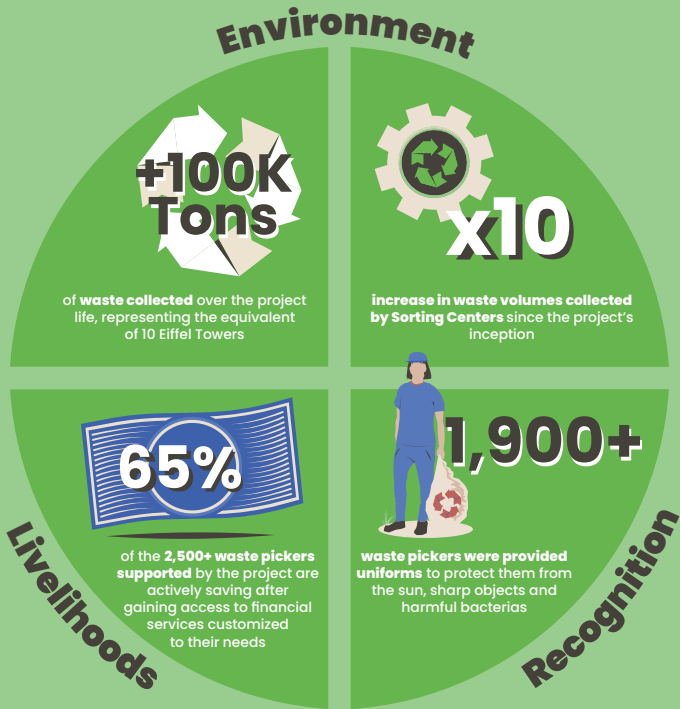


Receive workers insurance

The empowerment of waste-circuit stakeholders ensures the **efficiency** and **productivity** of Collection & Sorting Centers allowing to:

- (1) Ensure their financial sustainability
- (2) Increase collection rate having a positive impact on the environment

Leading to a Positive Impact on the Whole Ecosystem⁸



"My name is Mujirah. I am 53 years old. I have worked as a waste picker at the Sentral Busa Yogyakarta collection center for 2 years. Thanks to the *Inclusive Recycling In Indonesia* project I took a recycling training course that helped me to distinguish which bottles I can recycle or not. I also learned how to manage my finances. Now I can manage my everyday expenses and I save money for my children's school fees. It is easier to work and my working conditions have also improved."

- Iby Murjirah, Waste picker

Partners & Roles



AQUA

Brings end-to-end plastic value chain expertise
Ensures project management
Provides project funding

DANONE ECOSYSTEM

Brings co-creation spirit
Provides expertise & guidance
Brings systemic and sustainable approach
Provides project funding

VEOLIA

Brings sorting expertise
Training module design and implementation
Brings project management to Collection Centers
Provides project funding

YPCIINGO

Ensures project execution and coordination
Designs and implements training
Shares community development expertise

Sources:

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- 1 Darus, Nurdiana; Tamimi, Maya; Tirawaty, Silvi; Muchtazar, Muchtazar; Trisyanti, Dini; Akib, Rangga; Condorini, Dyota; and Ranggi, Khair (2020). "An overview of plastic waste recycling in the urban areas of Java island in Indonesia". Pages 402-415. [Online] <https://shorturl.at/bszD1>
- 2 Angeline Callista and Brasukra G. Sudjana, "Formalizing 'pemulung' toward humane waste system" (2021) [Online] <https://rb.gy/j0qf7n>
- 3 Waste pickers challenges: ScienceDirect, "Scavenger cooperatives in Asia and Latin America", (2000) [Online] <https://shorturl.at/iwAN6>
- 4 Gender differences: Kristanto, Gabriel Andari et al. "Challenges confronting waste pickers in Indonesia: An on-field analysis." Waste Management & Research 40 (2021): 1381 - 1389. [Online] <https://shorturl.at/kozB9>

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- 5 Deloitte, "Uncovering Indonesia packaging waste management" [Online] <https://shorturl.at/qrHLW>
- 6 Indonesia Water Portal, "Plastic Waste Discharges from Rivers and Coastlines in Indonesia", (2021) [Online] <https://shorturl.at/gwT78>

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- 7 Danone Ecosystem, "How to Transform Recycling Systems by Empowering Main Waste-circuit Stakeholders" (2020) [Online] <https://shorturl.at/aitz0>

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- 8 Environmental and social impacts: Results based on an impact study conducted by TechnoServe on the "Inclusive Waste Management in Indonesia" program in March 2023