



Catalyze

Resilient Ecosystem
for Lasting Impact

IMPACT REPORT

Catalyst Changers Ecosystem Pilot Project
Cohort 1 - 2022/2023



-  **@goto.impact**
-  **GoTo Impact Foundation**
-  **info@GoTo-Impact.org**
-  **<https://goto-impact.org/>**

COPYRIGHT 2023

GoTo Impact Foundation (GIF)

All rights reserved. No part of this publication may be produced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical photocopying, recording or otherwise, without prior permission of GoTo Impact Foundation (GIF).



Table of Contents

- Executive Summary
- About GoTo Impact Foundation
- CCE Program Overview
- Pasaran Wawai Pilot Project
- Semarang Berdaya Pilot Project
- Makassar Je'ne Tallasa Pilot Project
- Our Partnerships

Executive Summary



GoTo Impact Foundation (GIF) is on a mission to build innovation ecosystems by mobilizing and deploying people, capital, expertise, and knowledge towards a sustainable civilization. Driven by a conviction to elevate Indonesia's core value of "gotong royong", GIF envisions a world where the collaborative strength of communities ignite a perpetual cycle of innovation, propelling catalytic change.

That's why GIF launched Catalyst Changemakers Ecosystem (CCE) - an innovation ecosystem building program - to bring together impact players who collaborate and co-create to tackle climate challenges in Indonesia.

Picture Pasaran Island, where the rhythm of life is intertwined with local commerce and the production of anchovy and salted fish. Yet, waste pollution tainted this paradise. We stepped in with a circular economy-based waste management system, turning trash into treasure. The island's community, once unknowingly contributing to the problem, is now leading the charge for a cleaner future.

In Semarang's flood-prone Meteseh district, lives were repeatedly disrupted. We introduced a zero run-off technology system, a lifeline that safeguards against inundations. Meteseh is now better equipped to stand firm against the fury of flooding.

Tallo, the coastal gem of Makassar City, yearned for clean water. We delivered with a rainwater harvesting and treatment system, quenching the thirst of a community deeply rooted in fisheries and ship manufacturing. Clean and safe water is no longer a dream, but a reality.

In essence, the Catalyst Changemakers Ecosystem, driven by GoTo Impact Foundation's unwavering commitment, is molding Indonesia's future into one of resilience, clean water, and sustainable prosperity. Challenges may have crossed our path, but they only fueled our determination. Lessons learned are now our guiding stars, lighting the way toward a brighter Indonesian horizon. Together, we're scripting a story of enduring impact in Indonesia.

About GoTo Impact Foundation

An impact catalyst organization founded by GoTo that combines the compassion of foundations with the innovation spirit of social entrepreneurs.

Accelerating Impact through Innovation Ecosystems

Our organization doesn't just address problems; it transforms them into opportunities. We harness the power of 'gotong royong' (mutual collaboration) to co-innovate real-world solutions. The essence lies in building impact innovation ecosystems that mobilize people, capital, knowledge, and expertise. We're on a relentless mission to tackle Indonesia's most formidable challenges head-on.

Championing Climate Resilience

Environmental sustainability is not an option; it's an imperative. We're driving Indonesia's alignment with global standards in marine and terrestrial waste management. Our commitment extends to championing circular economy initiatives and reducing emissions. We're not just adapting to a changing climate; we're leading the way toward a more sustainable and resilient future.

In a world marked by challenges, GoTo Impact Foundation stands as a testament to the power of innovation, collaboration, and unwavering determination. Our foundation is more than just a name; it's a catalyst for change, a partner for progress, and a guardian of Indonesia's sustainable future. Together, we're pioneering a transformation that's impactful, innovative, and, most importantly, sustainable.



CCE OVERVIEW



IMPACT REPORT

Catalyst Changemakers Ecosystem Pilot Project
Cohort 1 - 2022/2023

Powering collective effort to **break barriers** and **resolve waste and water challenges** for Indonesia

Many cities in Indonesia still face clean water access challenges and natural disaster vulnerabilities. Through the Catalyst Changemakers Ecosystem and its Lab, GoTo Impact Foundation tackles these issues by cross-pollinating innovations developed in collaboration with Changemakers, to drive impact

In 2022, four water related **challenges** were addressed:



Improving water usage efficiency



Increasing community hydrometeorological disaster resilience



Improving clean water access and supply



Reducing waste in water



Catalyst Changemakers Ecosystem (CCE) aims to **catalyze interventions** by **co-creating technological solutions** to tackle waste and water issues and **address socio-economic vulnerabilities**.

Pilot Project: Solution Implementation

The project aims to **implement scalable ecosystem-based solutions** on the ground by combining **technology optimization** and **community enablement** to make a real impact on society.



Bandar Lampung

A **circular economy-based waste management system** to tackle waste pollution.



Semarang

A **zero run-off technology system** to reduce flood inundations.



SolusiBanjir.id
Indonesia Bebas Banjir



Makassar

A **rainwater harvesting & treatment system** to provide clean and safe water.



Key Highlights

Based on interventions conducted from September 2022 up to April 2023

PASARAN WAWAI PILOT PROJECT

23 METRIC
TONS

total waste reduced on
Pasaran Island

24 METRIC
TONS

waste collected and
transported on Pasaran
Island

SEMARANG BERDAYA PILOT PROJECT

53%

reduced flood
inundation height

230 people

directly affected by reduced
inundation

MAKASSAR JE'NE TALLASA PILOT PROJECT

92%

of 141 households were
consuming safe drinking
water

67%

reduced costs of
accessing safe drinking
water



PASARAN WAWAI PILOT PROJECT



IMPACT REPORT

Catalyst Changemakers Ecosystem Pilot Project
Cohort 1 - 2022/2023

Pasaran Island

At a Glance

Located one kilometer away from the provincial capital, Bandar Lampung, **Pasaran Island (“Pulau Pasaran”)** has long been prominent as a central **production base for anchovies and salted fish**. As a result, majority of the inhabitants work as fishermen or labor in the fish processing business.

As a reclaimed island, **waste was used as the foundation of residents’ homes**. Not knowing of the adverse impact, littering was once perceived as a way to help neighbors to build their homes. This was exacerbated by the fact that the Island was connected to the mainland by a narrow bridge which has made waste collection all the more challenging.



90%

of communities in Pasaran island **threw trash in the land and sea***

Lack of access

to **waste transportation** on the island



2,864 kg

waste per week **piled up** on the Island*

About **Pasaran Wawai Project**



The Pasaran Wawai project aimed to empower the coastal community to transition towards **circular economy coastal waste management** by mainly targeting 121 households in 2 neighborhoods (“RT”) consisting of 72% female and 28% male beneficiaries.



MEET OUR CHANGEMAKERS FROM BANDAR LAMPUNG



**gajalah
kebersihan**



angkuts



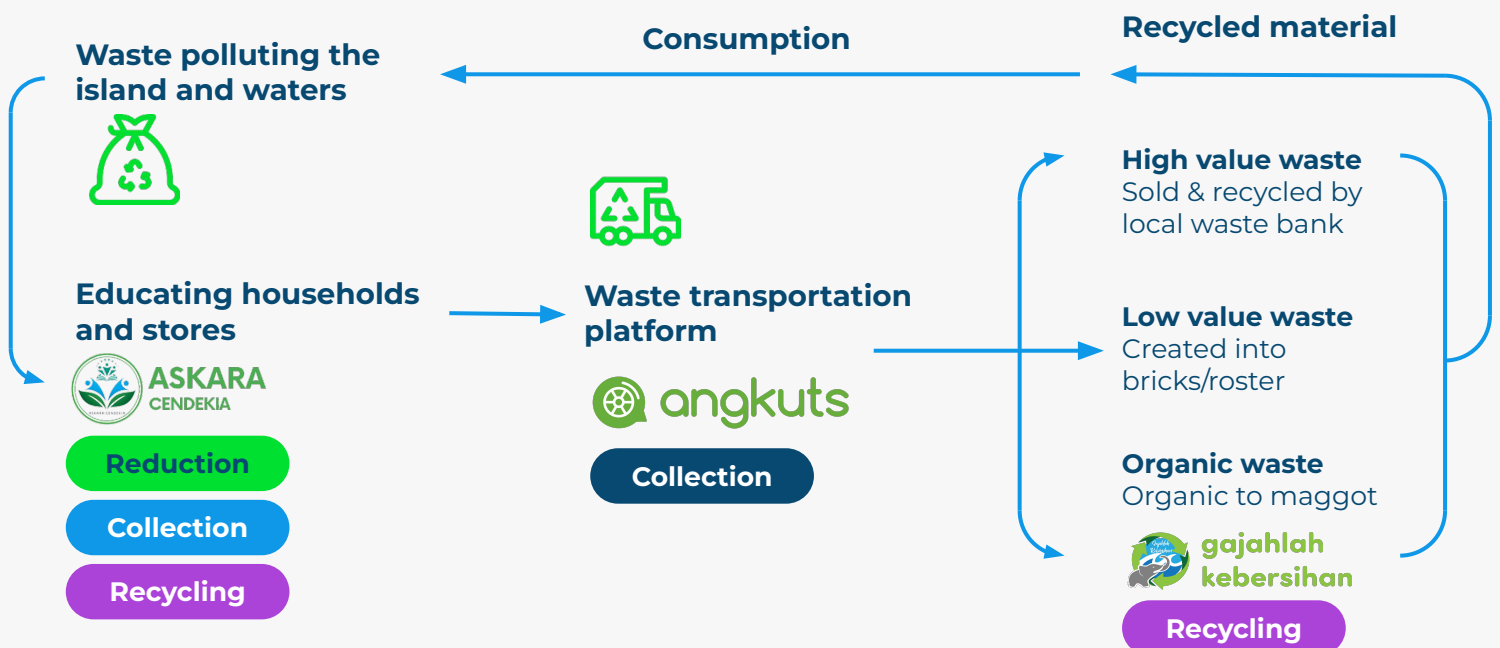
**ASKARA
CENDEKIA**

Gajalah Kebersihan is a youth organization that focuses on empowering coastal communities in circular economy waste management to tackle marine debris issues through education, campaign, and ecopreneurship approaches.

Angkuts aims to reduce people’s habits of disposing waste to the environment by providing an on-demand monthly subscription-based waste transportation service.

Askara Cendekia is a non-profit research institution that aims to increase community awareness and knowledge about social, economic, health, and environmental issues by empowering urban and rural communities through data-backed programs and initiatives.

Catalyzing the transition from a **linear to a circular** mindset and practices



Empowering Local Community through **Education on Waste Management**



Training on waste sorting and transportation for 354 households



Distribution of waste reduction package to 121 households



Training on composting & making eco enzymes



Training on waste recycling

Partnering with the Local Community to **Build a Sustainable Ecosystem**



Formation of Mother Cadres ("Ibu Kartini") as waste management champions



Formation of a Mother's Upcycled Craft Brand ("SEA Mama ")

Waste Transportation Service

Pasaran Wawai provides a **waste transportation service** by employing a driver from the local community and 3 mother cadres who assist the driver with collecting waste (“Ibu Pemilah”).



In addition, Pasaran Wawai provides facilities to enable the community to manage their waste such as **~40 communal waste bins** across Pasaran Island and **waste sorting bags and calendars** containing basic information on waste sorting for 354 households.



Recycling Innovation House



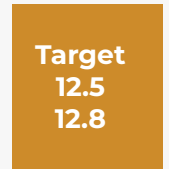
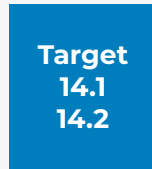
Pasaran Wawai built a recycling center called **“Rumah Inovasi Daur Ulang”** or **“Rindu”** (Recycling Innovation House) less than 1 km outside Pasaran Island. Rindu has operated as the central facility driving circularity in Pasaran Island since September 2022.

Plastic waste collected is shredded using machinery procured from Rebricks. The shredded plastic is then molded into rosters/construction blocks. The process is run by local youth who have been educated and engaged to **produce rosters.**



Rindu also runs **maggot cultivation** operations as a method to process organic waste collected.

High value waste and residual waste collected are sold to local waste bank and sent to landfills, respectively.



Step 1



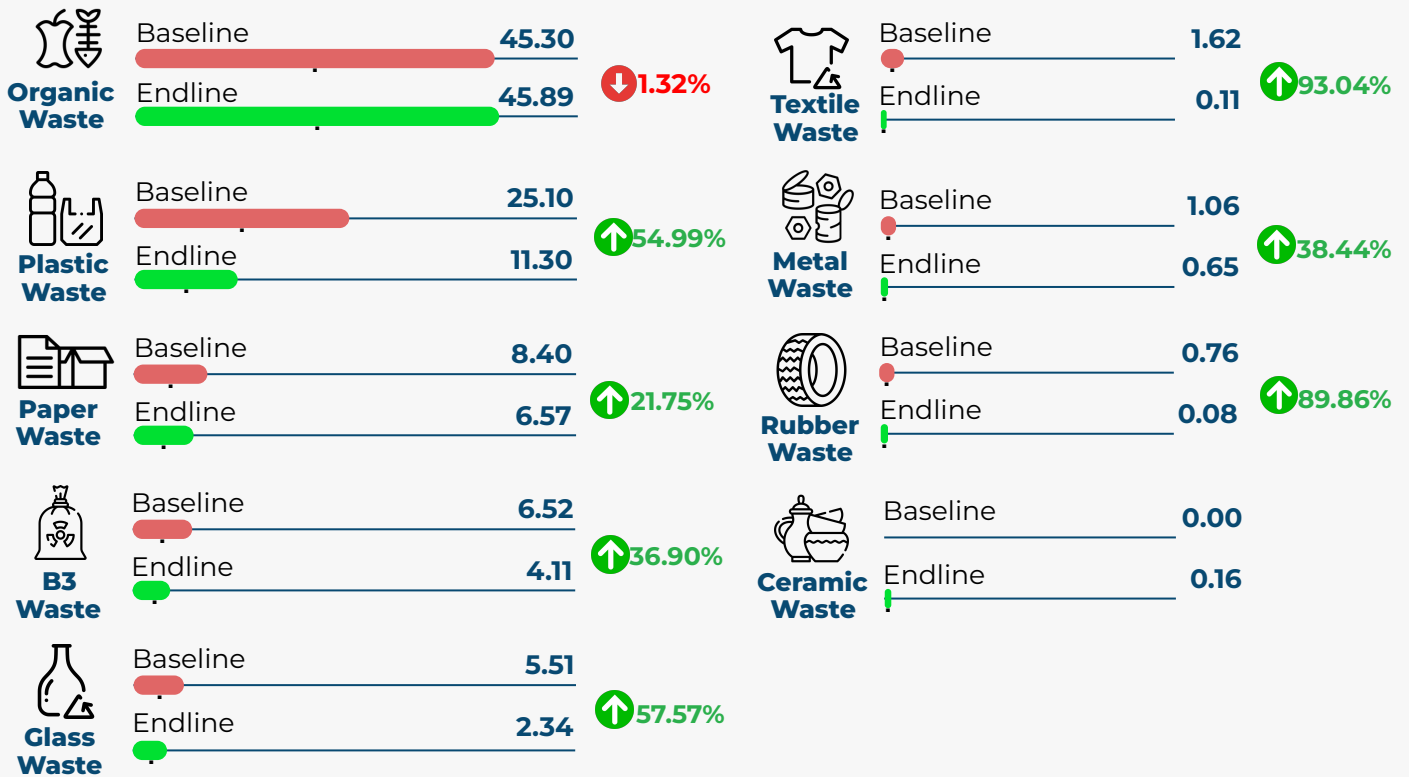
Education on Waste Management

- At the start of our program we empowered the local community through training on waste sorting and transportation for 354 households, plus distribution of waste reduction packages to 121 households
- In addition, we also conducted training on composting, making eco enzymes, and waste recycling

Result:

- Total waste was reduced by 23 metric tons. equivalent to 24.45% of total waste produced.
- Daily waste generated per person was reduced from 0.29 kg to 0.22 kg
- 338 kg of waste was recycled at home.
- This home recycling effort comprised 48.70% organic waste and 51.30% inorganic waste.

Waste Reduction



Factors behind Waste Reduction in Pasaran Island



- 29.8%** Pasaran Wawai Waste Transportation
- 28.1%** Pasaran Wawai Educational Activities
- 22.3%** Others
- 19.8%** Pasaran Wawai Project

121 target households were interviewed at the end of the pilot project and **78% stated that Pasaran Wawai project was the main factor behind waste reduction in Pasaran Island**. 29.8% interviewees stated that waste transportation was the main factor, whereas 28.1% stated that education activities were the main factor driving this outcome.

* Waste reduction calculation refers to SNI 19-3964-1994. The baseline data was based on internal data collected by Gajahlah Kebersihan in October 2021 whereas the endline data was collected in May 2023

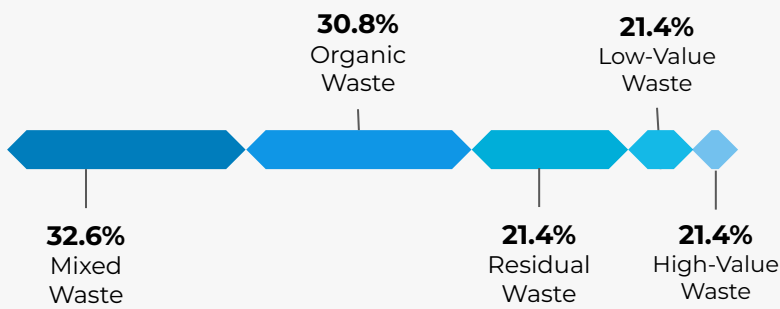
Step 2

Collection and Transportation



- We collected and transported **24 metric tons of household waste** for the whole Island consisting of 354 households.
- **39% of this waste**, which is equivalent to 9 metric tons, was **successfully recycled**, diverting it from disposal and environmental leakage.

Waste Collected & Transported

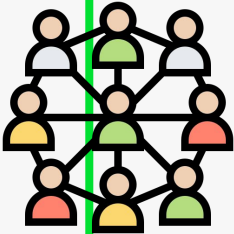


Waste Recycled after Being Transported



Step 3

Community Engagement



- We engaged with the community on Pasaran Island, where **72% of total households** subscribed to our **Angkuts waste transportation service**.
- This widespread adoption helped us in our mission to **scale up our program**.
- The community has been **empowered to create their own innovations** such as an Upcycled Craft Brand (SEA Mamas).

Step 4

Creating Green Jobs

- As a result of our sustainability initiatives, we were able to **create more than 50 green jobs**.
- An impressive **73% of these jobs were filled by female workers**, promoting gender diversity in our workforce.



Beneficiaries Stories

As the RT 10 leader, Mr. Edi could not enforce waste management practices in his community. However, Mr. Edi has been instrumental in supporting the implementation of Wawai Pasaran project by sharing his knowledge in the community to Mother Cadres and group leaders of fish processing business.

*“The program has helped to improve the community awareness (on managing their waste) to the extent that they are **willing to pay retribution fees for waste transportation service**. As a result, the waste piled up (on the Island) has been significantly reduced. **Recycling activities that turn waste into valuable products have also helped the community involved to earn extra income.**”*



Edi
RT 10 Leader

Catalyzing the spirit of “gotong royong” or mutual collaboration



Mulyani
Shop Owner &
Mother Cadre

As a shop owner and one of Mother Cadres, Ms. Mulyani has high hopes that after the implementation of Pasaran Wawai, the Island can have a higher potential to grow their tourism so that her business can grow as well.

“The waste has been reduced quite significantly, the environment has become cleaner, and the spirit of “gotong royong” (mutual collaboration) has grown in the community.”

Project Sustainability

- Sales of rosters produced by **local youth**
- Sales of SEA Mama **upcycling products**
- Sales of **maggots** fed by organic waste

- **Gajahlah Kebersihan** continues to lead the operations of Rindu
- **Ibu Pemilah** employed to collect waste and retribution fee & **Ibu Kartini** continue to volunteer as waste management champions

Eco-edutourism package in Pasaran Island



Angkuts mobile app allows monthly subscription to waste transportation services and online retribution payment

- **Circular Letter from Head of Kota Karang Sub-District** on waste management practices and retribution fee in Pasaran Island
- **MoU between Head of Kota Karang Sub-District and Angkuts** on waste transportation service and retribution fee collection

Partnership to Sustain and Scale Up Innovation

The **Head of Kota Karang** Sub-district signed an MoU with **Angkuts** to provide waste transportation service and retribution fee collection for Pasaran Island



“The community has become aware on how to manage waste massively. The community also no longer uses waste as a reclamation material. **This program will be scaled up to 20 neighborhoods (RT) in Kota Karang Sub-district.**”

Bambang Heriyanto SH.MH
Head of Kota Karang Sub-district

“**Pasaran Wawai project has catalyzed significant improvement in the community mindset and skill in managing their waste.** Pasaran Island has a great potential for Tourism and has been included in Bandar Lampung Tourism Master Plan 2022-2025”

Dr. Khaidarmansyah
Head of Bappeda of Bandar Lampung



Key Learnings

1 Organic Waste Processing

Rindu initially planned to focus on inorganic waste processing. However, a significant amount of organic waste was collected. Maggot cultivation facilities were therefore built in February 2023 to process the organic waste and ensure that it is not dumped in landfills.



2 Confluence of Rivers

Despite the significant amount of waste reduced and managed, it is still a challenge to reduce waste coming from other parts of the city. This is due to the fact that Pasaran Island's location sits at the confluence of several rivers. The potential for scale up in other areas is expected to solve this issue.



3 Potential for Eco-edutourism

Pasaran Island has been included in the Bandar Lampung Tourism Master Plan 2022-2025. The eco-edutourism concept, along with support for the local community, may help ensure that waste continues to be properly managed while realizing Pasaran Island's potential for tourism.





SEMARANG BERDAYA PILOT PROJECT



IMPACT REPORT

Catalyst Changemakers Ecosystem Pilot Project Cohort 1 - 2022/2023

Meteseh at a Glance

Meteseh is an urban sub-district located in Semarang, where it is part of the Babon Catchment area. Meteseh has been identified as one of the most **flood-prone areas**, resulting in significant socio-economic losses for over a hundred people in each instance.

RW 26, specifically the Dinar Indah Cluster, was selected as a project implementation location. This Cluster has undergone a massive **land use change, creating a limited green open space**. Moreover, the area did not have open land management. These factors has led to flood disasters in the Cluster after heavy rainfall.

About



The Semarang Berdaya consortium envisioned an **empowered community** through **education and technology**, thus becoming more resilient to devastating disasters such as floods.

MEET OUR CHANGEMAKERS FROM SEMARANG



ReservoAir is a joint venture between two Changemakers (who came together as a result of the CCE collaboration): Tech Prom Lab (PoreBlock) and Solusibanjir.id. Using zero run-off technology, ReservoAir provides **water management planning and adaptation services**. Built on their realization that product offerings alone were not enough to solve flood problems, they strive to build more comprehensive and integrated solutions.



Liberates Creative Colony is a collective space that has been facilitating various creative activities since 2011. The team at Liberates Creative Colony is dedicated to **continuous learning, contributing ideas, and expanding their network** to tackle water-related challenges.

Integrated Technology for Powerful Solution



Pore Block

PoreBlock is a porous paving block with an infiltration rate 100x faster than ordinary paving blocks with a strength of up to K-225 or can withstand a truck load of 8 (eight) tons

The integrated technology reduces water runoff and builds groundwater reserves

Infiltration Wells

A well or hole in the soil surface functions to collect rainwater, which then infiltrates into the soil.

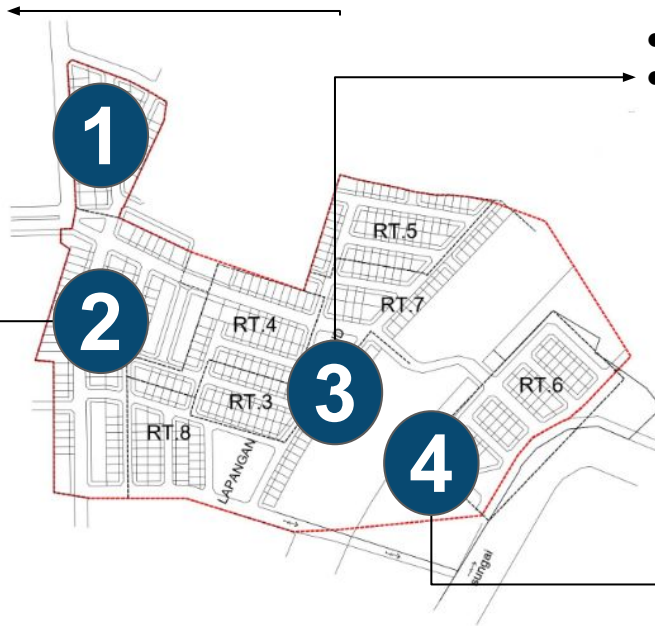


Technology Implementation

RT 1:

- 233 m² of PoreBlock
- 11 infiltration well with 11 m³ in volume (@1m³ each)

Map of RW 26 Meteseh Sub-district



Ar-Rahmah Mosque:

- 341 m² PoreBlock
- 3 infiltration well with 4.5 m³ in volume (@1.5 m³ each)

RT 2:

- 233 m² of PoreBlock
- 4 infiltration well with 4 m³ in volume (@1 each)

- RT 6 (Taman Pinayungan):**
233 m² of PoreBlock

Implementation Result

Infiltration wells and Pore Block installation



Educational Activities



Semarang Berdaya project convened 70 local residents to share information on flood risks in Meteseh and discuss what measures they can take to contribute individually and as a society



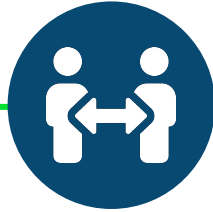
Key Highlights



Step 1

Implementing the Solution:

- After implementing our solution, we achieved a significant reduction in flood inundation height. The estimated reduction was an impressive 53%.
- This reduction in flood inundation height had a direct and positive impact on the community.



Step 2

Direct Benefits to People:

- A total of 230 people in the affected area directly benefited from the reduced inundation.
- Among these individuals, 57% were women, and 43% were men, demonstrating the positive impact on gender-diverse groups.



Step 3

Knowledge Enhancement:

We conducted training sessions on zero runoff technology, and the participants experienced a remarkable 42% increase in their understanding of this technology.

SDG Goals & Targets



As one of the Ar-Rahmah Mosque Management, Mr. Sigit has an interest in creating a safe and comfortable place of prayer for the mosque congregation.

"After Pore Block is installed, **inundations around the area would subside at a faster rate.** The installation of Pore Block has successfully accelerate the receding time of inundation."



Sigit Wardoyo
Ar-Rahmah Mosque Management

Estimation of reduced inundation height was not calculated based on real live data since the endline data can only be collected during rainy season in January - February 2024. Two methods were employed:

1. Interview with local community on the height of minor and extreme flooding based on past events
2. Spatial and hydrodynamic modelling

The second method resulted in the percentage of reduction of inundation height. The percentage was then calculated with the interview result to obtain the estimated number of reduced inundation height

- Number of estimated people directly affected from reduced inundation was calculated based on the location of residents near the technology implemented, historical events, observation, photo, and interview with local community

- Data for increase in training participants' understanding was collected through pre-test and post-test to 58 participants

Project Sustainability

1 Local Committee Formation

- **Formation of local committees** represented by local leaders to execute the maintenance and operation of the technology
- **Development of Standard Operating Procedure** for the local committee

2 Knowledge Management

Development of website www.reservoir.com/proyek-semarang and booklet as knowledge storage and sharing

Partnership for Innovation and Scale Up



“Semarang Berdaya pilot project can be continued as a step to reduce the discharge of flood water in residential areas by collaborating across regional technical organizations. (The project) can be implemented in other areas that caused flash floods in Dinar Indah in order to diversify areas of flood management effort.”

Budi Prakosa ST,MT.
Head of Bappeda of Semarang

Key Learnings

- The integrated implementation of **Pore Block** and **infiltration wells** was relatively effective in reducing inundation in areas with higher elevation such as Ar-Rahmah Mosque and RT 1, as opposed to RT 6 where it has lower elevation and is located near the Babon riverbank
- **Two flash floods occurred** in RT 6 in January and February 2023 after embankment failure indicates that collaboration with various local government authorities and local community is necessary to scale up and co-create **holistic and sustainable flood solution**.
- **Soil analysis** conducted **pre-implementation** can help to determine appropriate project location.

MAKASSAR JE'NE TALLASA PILOT PROJECT



IMPACT REPORT

Catalyst Changemakers Ecosystem Pilot Project
Cohort 1 - 2022/2023

Tallo at a Glance

Located in the coastal area of Makassar City, most people in Tallo work in fisheries and ship manufacturing sectors. In 2021, Tallo was one of five sub-districts experiencing a clean water crisis in Makassar based on data from PDAM Makassar City.



Faced with difficulties for clean water, the residents resorted to queuing for hours at poor-quality communal wells or purchasing expensive depot water.

About



MAKASSAR
JE'NE TALLASA

The vision of *Makassar Je'ne Tallasa* is to enhance the economy, health, and social life of people in Tallo with accessible clean and safe drinking water. This is achieved through implementation of ecosystem-based solutions, technology, and community empowerment.

MEET OUR CHANGEMAKERS FROM MAKASSAR



Kopernik is a research and development organization focusing on the environment. It utilizes experimental collaboration to identify the most effective solutions towards achieving sustainable development and social well-being.



Terra Water Indonesia is a social enterprise manufacturing and selling ceramic water filters. Their mission is to make drinking water more accessible to everyone regardless of economic status and specifically for marginalized communities.



Celebes Green Project is a community initiative under the Celebes Kearifan Madani Foundation that brings together stakeholders to improve access to clean water through raising awareness, socialization, innovation and support.

How The System Works

Tallo, the coastal gem of Makassar City, yearned for clean water. We delivered with a rainwater harvesting and treatment system, quenching the thirst of a community deeply rooted in fisheries and ship manufacturing. Clean and safe water is no longer a dream, but a reality.

The system flow starts with Tametotto, a rainwater harvesting facility that can store rainwater, which collects rainwater during rainy days or rainy season. It can hold up to 45,000 litre and was built underground so that the space above the technology can be used for other community facilities such as parking lot, community space, etc.

Water from Tametotto was then filtered through Terra Water. Terra Water technology filters out bacteria and pathogens causing waterborne diseases and turns it into safe-to-drink water for 100 houses or 141 households.

WATER SOURCING FLOW



Empower Community with Integrated Technology

141 households in 4 RT or neighborhoods in Tallo Sub-district was granted with **free access to clean water** through Tametotto facilities as an alternative to their existing clean water sources.

Technology that contributes solution to community needs



The Terra filter was distributed to **141 households in Tallo Sub-District** and **37 schools** in the area resulting in clean water access to more than **14,000** people

Education to Promote Self-Reliance and Water Resilience



Water Treatment Training for 95 beneficiaries in Tallo



Water Usage Training for 89 beneficiaries in Tallo

Key Highlights

SDG Goals & Targets



14,000
people

14,000 people benefited from Terra Filters

IDR
182,400

Households who accessed Tametotto in average experienced IDR 182,400 of cost savings

5
minutes

Tametotto has the potential to reduce time to obtain decent water by 5 minutes

92%

92% households consumed safe drinking water filtered (out of which 35% are of female family members)

21%

Households who consumed Terra Water took up an additional 21% more time in obtaining safe drinking water

67%

67% reduced costs in obtaining safe drinking water after using Terra Water

91%

91% households had good understanding of water treatment procedures 3 months after participating in the training

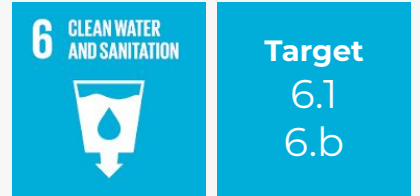
169%

Participants experienced 169% increase in average score of water treatment understanding 3 months after participating in the training

-79%

Participants experienced 79% decrease in average score of household water usage understanding 3 months after participating in the training

- Tametotto water was tested in Sucofindo laboratorium during pilot project. The result indicates that Tametotto water passes the maximum standard of clean water.
- Tametotto water filtered through Terra was tested in Sucofindo laboratorium during pilot project. Based on 4 water samples taken, the result indicates that 3 out of 4 samples are free from Coliform and E.Coli, therefore safe for drinking water. Failed test was due to sampled respondent misplaced charcoal in the filter reservoir which resulted in the presence of Coliform bacteria
- Data related to Water Treatment Training and Water Usage Training was collected through pre-test, post-test, and field observation to 74 and 89 participants, respectively



Key Highlights

Step 1

Adoption of Tametotto

8 households, which is approximately 6% of the total, have adopted Tametotto to access clean water. This shows the beginning of adoption in the community.

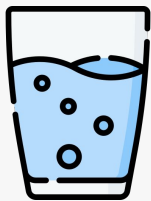
Result:

Cost Savings with Tametotto:

- Households that accessed Tametotto experienced an average cost savings of IDR 182,400.
- This represents a significant reduction in expenses related to obtaining clean water.

Time Savings with Tametotto:

- The use of Tametotto has the potential to reduce the time required to obtain decent water by 5 minutes.
- This time-saving aspect improves convenience for users.



Step 2

Increased Safe Drinking Water Consumption

- A remarkable 92% of households consumed safe drinking water filtered by Terra Water.
- Among these households, 34.73% of the consumers were female family members.

Result:

Cost Reduction with Terra Water:

- After using Terra Water, there was a substantial 66.80% reduction in the costs associated with obtaining safe drinking water.
- This reduction in expenses benefits the community.

Additional Time Required for Terra Water:

However, households that consumed Terra Water took an additional 20.87% more time to obtain safe drinking water.



Step 3

Education on Water Usage and Water Treatment

We conducted water usage training for 89 beneficiaries in Tallo and water treatment training for 95 beneficiaries in Tallo **to promote self-reliance and water resilience**

Result:

- As a result of the training, an impressive 90.54% of households had a good understanding of water treatment procedures three months after the training.
- On the other hand, households who participated experienced a substantial 169% increase in the average score of water treatment understanding during the same period.
- Participants in the training experienced a 79% decrease in the average score of household water usage understanding three months after the training.

* Tametotto water was tested in Sucofindo laboratorium during pilot project. The result indicates that Tametotto water passes the maximum standard of clean water.

** Tametotto water filtered through Terra was tested in Sucofindo laboratorium during pilot project. Based on 4 water samples taken, the result indicates that 3 out of 4 samples are free from Coliform and E.Coli, therefore safe for drinking water. Failed test was due to sampled respondent misplaced charcoal in the filter reservoir which resulted in the presence of Coliform bacteria

*** Data related to Water Treatment Training and Water Usage Training was collected through pre-test, post-test, and field observation to 74 and 89 participants, respectively

Beneficiaries Stories

Women, like Mrs. Rosdiana and Mrs. Trisdayani, are more likely to be responsible for **domestic tasks** including **procuring clean and safe water** for the household.



"I feel helped ever since Tametotto is installed because the water supply has become more sufficient compared to previous years."

Rosdiana
Homemaker



"The (Tametotto) water is cleaner than other sources the community usually access. In addition, socialization is often carried out to the community which has enabled us to frequently meet"

Trisdayani
Homemaker

Project Sustainability



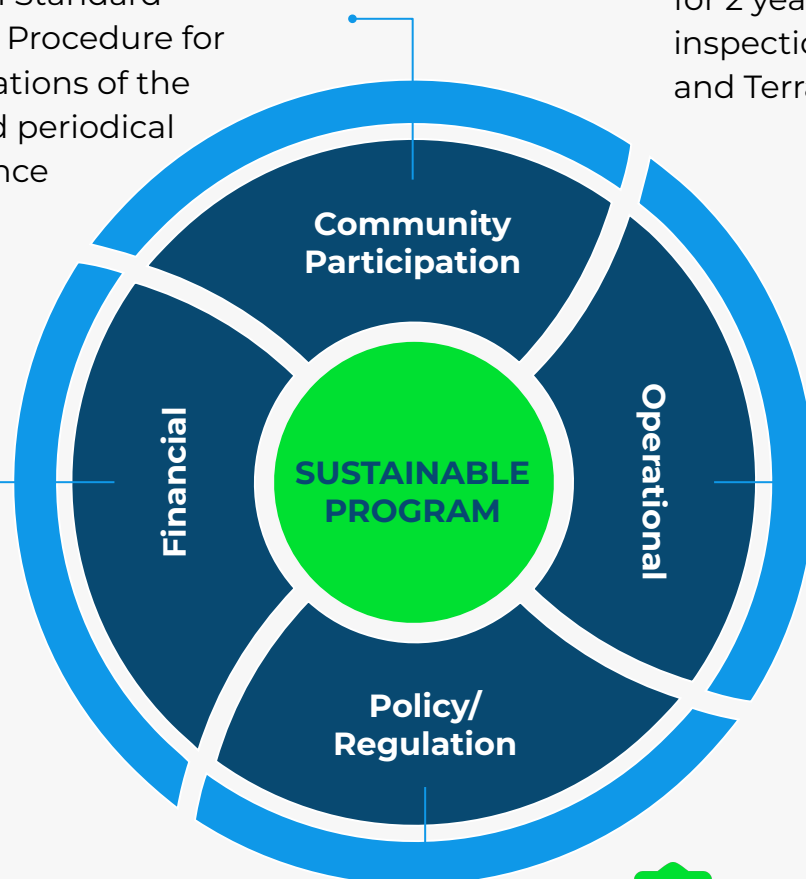
Establishment of **Tametotto Management Team**

represented by local leaders along with Standard Operating Procedure for daily operations of the facility and periodical maintenance



MoU between **Celebes Green Project** and **Puskesmas Rappokalling**

for 2 years routine inspection of Tametotto and Terra water



Potential **funding for Tametotto management** from Tallo District in 2024



Potential Decree (“*Surat Keputusan*”) from Head of Tallo District regarding Tametotto Management Team

Engage with Local Government for Sustainability



“Water access provided by the Je'ne Tallasa project has helped the community to meet their needs. Moreover, the project has benefit the community because they can save more money that would have otherwise been used to purchase drinking water.”

Alamsyah Sahabuddin, S.STP, M.Si
Head of Tallo District

Key Learnings

6%

households utilized free access to Tametotto clean water

Water intake schedule

Tametotto distribution schedule (3 PM - 5 PM) was deemed too short. The Tametotto Management Team has agreed to extend the schedule (8 AM to 5 PM).

Limited water purpose

Initial water sampling indicated that Tametotto was strictly limited for non-potable use. This made the residents prefer using the well instead. Last lab test indicates it can be used as potable water through filtration and boiling

Limit of water intake

Tametotto usage limit is set to 15 liters/person/day due to its capacity. This number did not meet the non-potable water needs. The community then agreed to prioritize Tametotto as potable water and reserves it for the dry season

Multiple households in one house

Several houses consist of more than one household. As a result, those households sometimes still need to boil water in big capacity which take up more time.

Households who consumed Terra water take up an additional **20.87%** more time in average in obtaining safe drinking water

OUR PARTNERSHIPS



IMPACT REPORT

Catalyst Changemakers Ecosystem Pilot Project
Cohort 1 - 2022/2023

Our Partners

Pasaran Wawai - Bandar Lampung

BAPPEDA Kota Bandar Lampung
Pemerintah Kota Bandar Lampung
Dinas Lingkungan Hidup Kota Bandar Lampung
Kecamatan Teluk Betung Timur
Kelurahan Kota Karang
Rebricks
UNILA SDGs Center

Semarang Berdaya - Semarang

Bappeda Kota Semarang
Dinas Perumahan dan Kawasan Permukiman Kota Semarang
Kelurahan Meteseh
SDGs Center Universitas Diponegoro
IHE DELFT
Institut Teknologi Sepuluh Nopember
Universitas Negeri Semarang
DISPERKIM

Je'ne Tallasa - Makassar

BAPPEDA Kota Makassar
Kota Makassar
Badan Pelestarian Cagar Budaya Provinsi Sulawesi Selatan
PDAM Kota Makassar
Dinas Kesehatan Kota Makassar
SDG Center Universitas Hasanuddin
Kelurahan Tallo
Kecamatan Tallo



Accelerate Innovation to Help People and Planet Thrive

*“Humanity’s 21st century challenge is clear:
to meet the needs of all people within the
means of this extraordinary, unique, living
planet so that **we and the rest of the
nature can thrive**”*

- Kate Raworth

- 
- 
-  goto.impact
 -  GoTo Impact Foundation
 -  info@goto-impact.org
 -  goto-impact.org