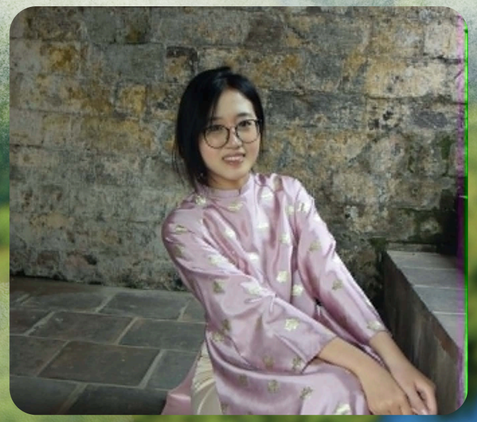
Glocal Sustainability Project Development Workshop



Ha Chi

Hanoi University



Dwi Valinia I

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Adinda Avrora

IPB University



Tri Wahyuni

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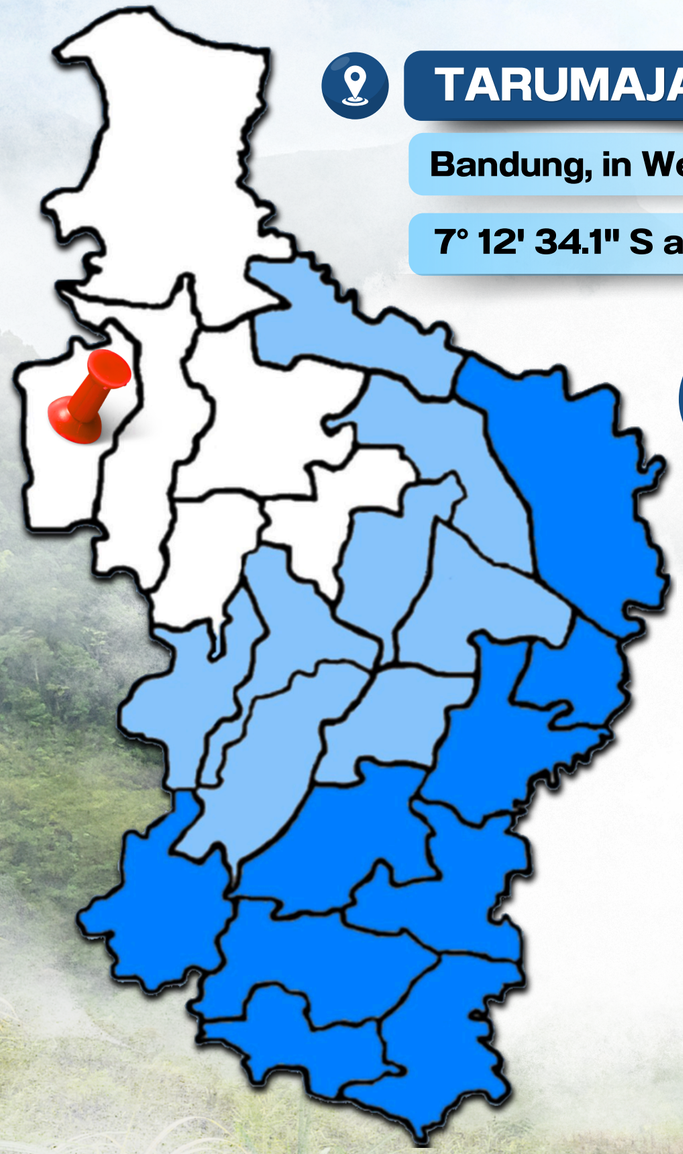


Njayl

Misamis University

Case Study : Citarum River, Indonesia

The Community



TARUMAJAYA

Bandung, in West Java, Indonesia

7° 12' 34.1" S and 107° 39' 31.1" E.

25-30 Families

Voices Commonly Heard

- Village leaders
- RT/RW representatives
- Local government
- Community elders
- Fishermen associations

Community Strenght

- Strong ***gotong royong*** *or* collective action **culture**
- **Active in clean-ups**, drainage maintenance, **mangrove planting**, and flood response
- **High social trust** and strong community networks

Voices Often Overlooked

- Women
- Youth & students







The Problem

CAUSE

No trash system + factories + too many people
= garbage goes into the river.

EFFECT

Dirty water + flooding + sickness (like Halimah's family) + no clean water to drink or cook with.





STATEMENT

"We know the Citarum's water is making us sick it killed my husband, it hurts my lungs, it marks our skin but the doctor never tells us what to use instead, because we have no other choice." (Paraphrased from the account of Iim Halimah, in Febriana Firdaus, "Rotten River: Life on One of the World's Most Polluted Waterways," The Guardian, November 2, 2020.)

The smallest change

Our solution follows the **LERD approach**, which is **CHEAP, SIMPLE, NATURE - BY - NATURE**

Bamboo TRASH TRAP



GEOGRAPHICAL



SKILLS



HOW THE TRAP WORKS

- **Captures** floating **plastic waste**.
- **Allows water** to continue **flowing**.
- Is **easy** to **remove** for regular cleaning.

WHY THIS IS THE SOLUTION

- Locally **available bamboo**.
- **Easy to build** with local skills.
- **Works with** the **river**.

=> Larger than individual clean-up efforts

=> Sustainabillity > Expensive tech

WHO IS INVOLVED





- THE INVISIBLE GIANT
- STATE LANDLORDS
- CORPORATE HQ BOARD (THE SPONSOR)
- THE VILLAGE HEAD

- OPPOSITION
- RIVERBANK NEIGHBORS
- DOWNSTREAM FARMERS
- THE LECTURE FATIGUE LOCALS
- SYSTEMIC CYNICS

Project Success Indicators

Reduction of Waste Entering the Citarum River

Target: 50% reduction in floating waste entering the Citarum River within 6 months.
Tools: Waste counting, volume measurement, photo documentation

Reduction of Unpleasant Odors

Target: 70% of residents report reduced odors within 6 months.
Tools: Household surveys, odor observation records, community feedback forms.

Water Quality Improvement

Target: Clearer water, reduced turbidity and detergent foam within 3-6 months.
Tools: Water turbidity observation, visual documentation, water quality test kit

Community Participation

Target: 70% of households involved in maintenance within 1 year.
Tools: Attendance lists, maintenance records, RT/RW reports

=> Monitoring will be conducted through weekly inspections, monthly community evaluations, and quarterly reviews with Pandawara Group to ensure project effectiveness.

Timeline

FROM SMALL ACTIONS TO BIG CHANGES

Month 1

Community mapping, stakeholder meetings, bamboo trap design

Month 2 - 3

Install bamboo traps, environmental education and training

Month 6

Routine maintenance mechanism, waste monitoring, improve trap design.

Year 1

Introduce waste sorting and recycling with other villages in Bekasi

Year 2

Expand bamboo traps and replicate the model in neighboring villages

Year 3

Scale into a LERD Project through government, NGO, and university partnerships for long-term upstream Citarum restoration.

Monitoring and evaluation are conducted across all aspects of the project

Conclusion

Our proposed solution focuses on empowering the Tarumajaya community to address water pollution in the Citarum River through a simple, practical, and community-driven action. By utilizing the community's existing strengths, involving key stakeholders such as local residents, government, and Pandawara Group, and implementing a small-scale vetiver biofilter system, the project aims to reduce pollution before it reaches the river. The initiative emphasizes collaboration, continuous monitoring, and community participation to ensure long-term sustainability. If proven effective, this pilot project can serve as a replicable model for other communities along the Citarum River, contributing to cleaner waterways and greater public awareness of environmental responsibility.