

ENVIROCYCLE
ELECTRONIC RECYCLING

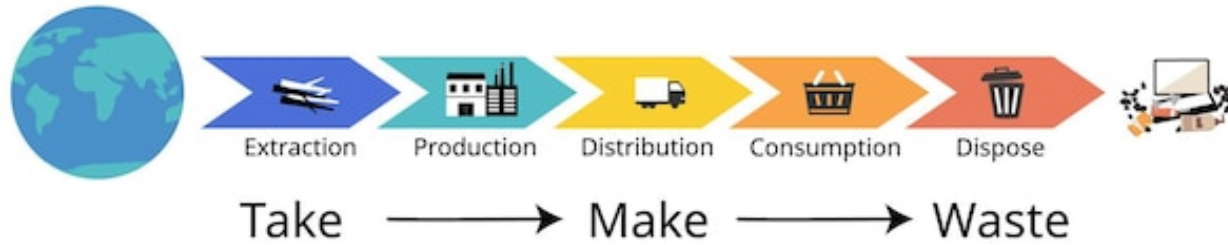
Circular Economy in Action:

*Transforming E-Waste Recycling in the
Philippines*



What is a circular economy?

The Linear Economy



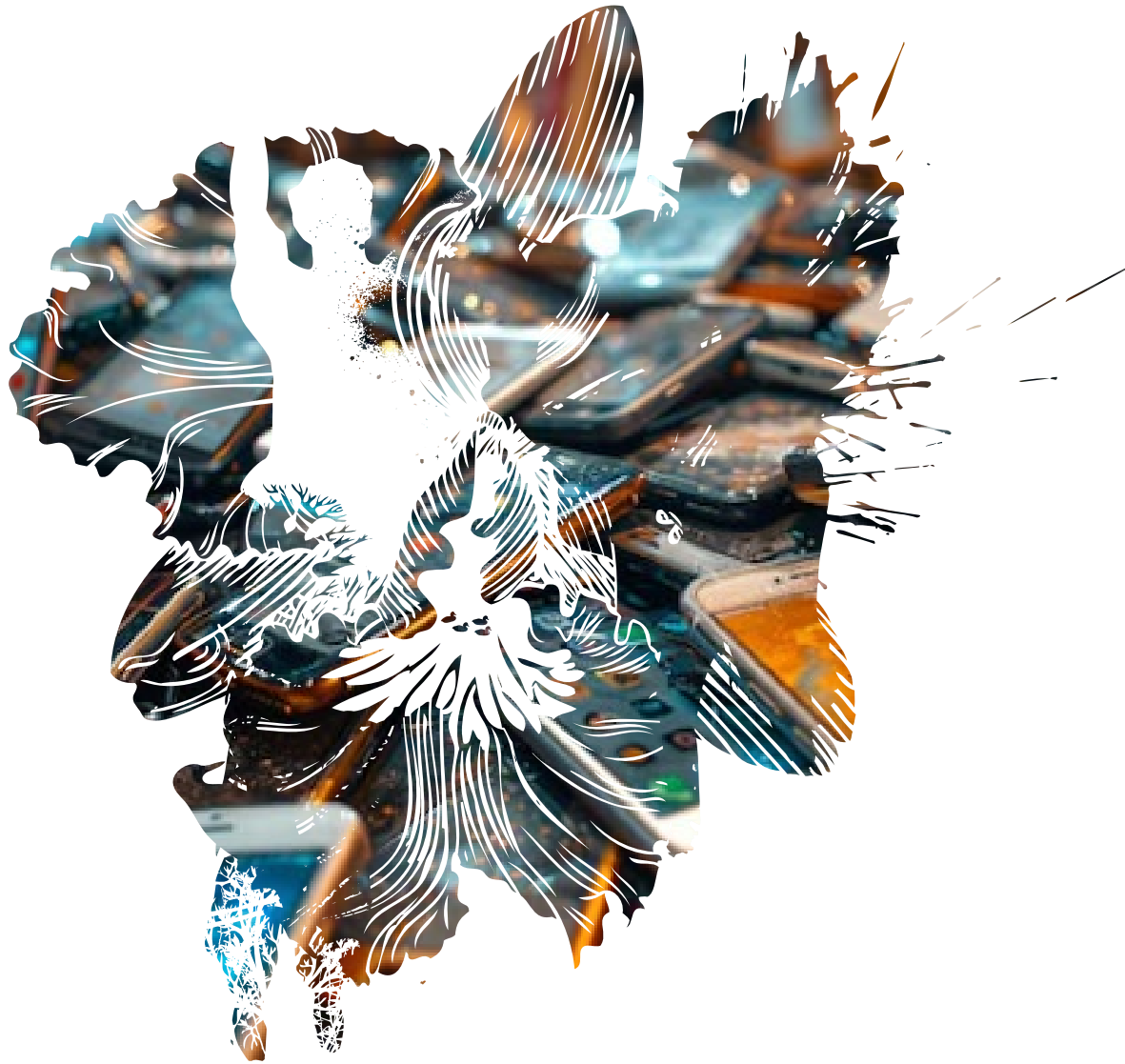
Environmental impact!

- Extraction of virgin materials
- Improper waste disposal
- Only 17% recycled



New way of thinking!

- Redesign for easy repair and recycling
- Refurbish, remanufacture, and reuse
- Recycle



Where does e-waste fit into this concept?

Dependence on electronics

- 15 billion mobile devices 2025
- 9 billion mobile subscriptions

Mining rare earth metals

- 1/3 global deforestation
- 7% of carbon emissions globally

Hazardous waste

- Environmental and health impact
- Lead, mercury, and arsenic

E-waste statistics

Global

- 62 million tons 2022
- 1.5 million trucks, enough to circle the globe
- Only 22% documented as recycled
- 1% rare earth metals demand met

Philippines

- 537 thousand tons 2022
- One of top SEA producers
- Few registered TSD facilities for e-waste
- With only 5 registered R2v3 facilities
- Most of the e-waste is processed by the informal sector in the Philippines

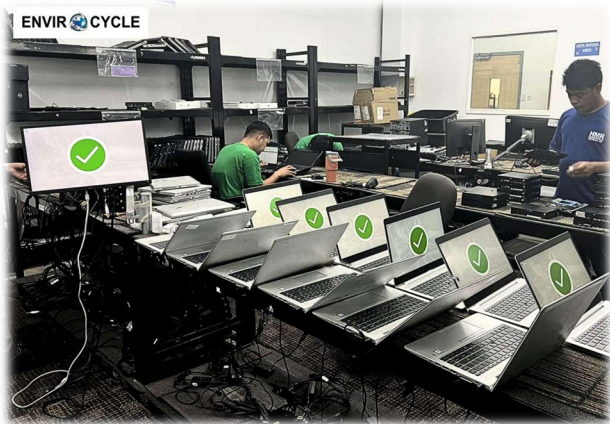
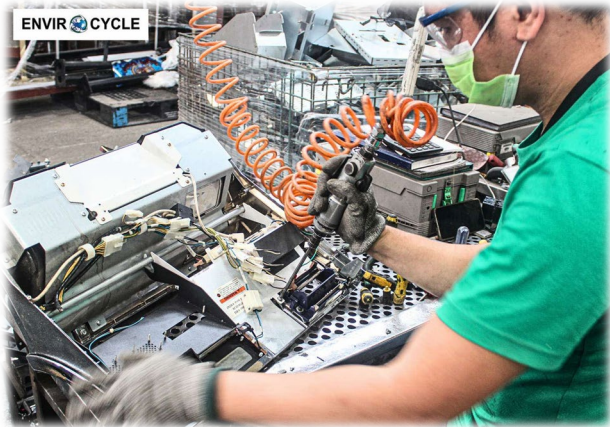


The largest electronic waste dump in the world, located in Ghana.



Collecting and dismantling e-waste remains a way to put food on the table in low-income communities such as barangay Longos where Joanna is from. –Ecowaste Coalition

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Who we are!

History

- The original HMR company
- 40 years of electronic recycling
- HMR is now an end to end reverse logistics company
- Proxy to 30 global recyclers

Services

- E-waste management and disposition
- Assured destruction of assets
- Onsite data destruction
- Treatment, storage, and disposal
- Hazardous waste transportation
- Property reinstatement
- Environmental impact and Carbon abatement certificates

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What we have achieved!

ESG HMR group last 10 years:

- Prevented 140,000 tons of waste going into landfills
- Stopped 52,280 tons of CO₂ from going into the atmosphere
- 5,000,000 electronic items refurbished and reused.
- Over 8,000 tons of consumer returns refurbished and resold every year.

Challenges

Education

- TEP – The e-waste project
- Skills development (TESDA)
- Integrating informal into formal

Collection

- Proper segregation
- Incentives
- Storage and logistics

Technology

- Processing technology in country
- Refurbishing and remanufacturing

Policy enforcement

- Existing laws



Philippines - Japan

Japan is a leader in recycling technology and policy

- » Technology and infrastructure development
- » Policy and regulatory support
- » Public awareness and education
- » Research and innovation
- » Business partnerships and investments
- » Establish a Regional E-waste Management Hub



As the Japanese proverb says,
'Nana korobi ya oki'—*fall
seven times, stand up eight.'*

Let this remind us that the journey
toward sustainability may have
challenges, but with determination
and partnership, we can keep rising
and transforming our world.

The responsibility is ours, and the
time is now.

Thank you

