

DIGITAL EVOLUTION OF PLASTIC RECOVERY

one sachet at a time

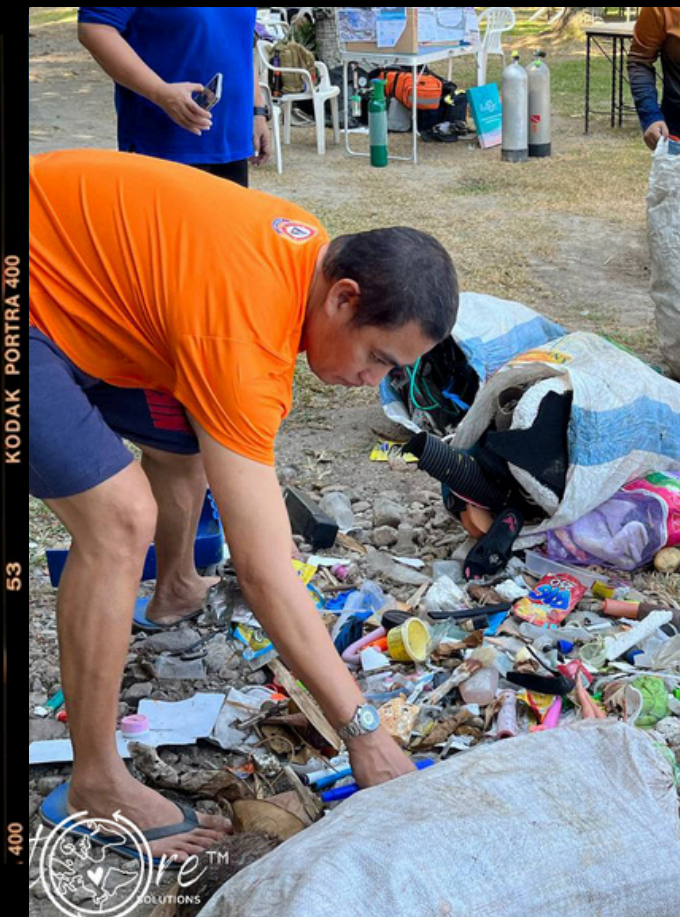


by **restore.**
Reinventing Sustainability



Restore Solutions PH, by Safewater Technologies, Inc., is a **flexible plastic waste upcycler** based in Bulacan. The company transforms flexible plastic waste into plastic **Restore boards and furniture**.

Restore aims to take sustainability beyond waste management; striving to offer innovative solutions that promote environmental stewardship and drive positive change.



Our Mission

At Restore, our mission is to **revolutionize** the way we view and utilize plastic waste by **transforming** it into pragmatic applications, **creating** eco-friendly products, and **promoting a circular economy.**

Through
innovation,
education, and
mindful creativity,

we pledge to work towards reducing environmental impact, inspire sustainable practices, and contribute to a healthier planet for future generations.

Our Vision

To be a **global leader in the circular economy, pioneering sustainable solutions for plastic waste.**

By inspiring change, influencing behavior, and instilling a sense of responsibility towards our environment, we strive to build a world

where every piece of plastic is given a new life,

where waste becomes a resource, and

where sustainability is not just a concept but a way of life.



Sachet use in the Philippines



households with
lower incomes
(15% of the
population)



“tingi” culture
(smaller amount
= cheaper prices)



sold in sari-sari
stores
(80% of the
retail stores)

163M

pieces of sachets are used
daily in the Philippines

~500 kg (per day)

~180 kT (per year)

weight of sachets
used by Filipinos

World Bank. (2021). Market study for the Philippines: Plastics circularity opportunities and barriers.

(GAIA). (2019). Plastics exposed: How waste assessments and brand audits are helping Philippine cities fight plastic pollution (2nd ed.).

Alladin, A. J. E., Limon, J. A. H., Oblea, S. N. R., & Cabauatan, R. R. (2022). Economic and non-economic variables affecting consumer preferences of Quezon City households on sachet products. International Journal of Social and Management Studies, 3(2), 46–70. <https://doi.org/10.5555/ijosmas.v3i2.116>



The Restore Journey

1

Rethink: community-based collection

2

Recycle: waste to boards

3

Reimagine: boards to wonder!





Community-based collection in TWO ways

Community Collection in 2 ways



Analog

Traditional

- Direct collection of segregated plastics
 - waste segregation bins
 - collection and clean-up drives
- High volume of collection
- Easily collects different kinds of waste
- Avoids open dumping of wastes in piles, and decreases health risk
- Tendency to throw waste as is
 - not clean, not dry
 - sometimes, unsegregated





OUR DIGITAL SOLUTION

**Smart Eco-lection
Bins (SEB)**

Smart Eco-Collection Bin



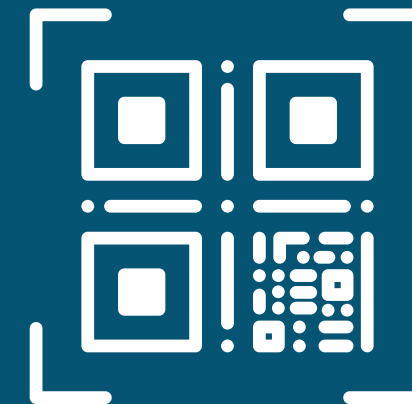
Sensor-based collection mechanism
designed for plastic sachets



Real-time data monitoring and reporting



Can be integrated with a **digital incentive program**
(e.g., e-wallet credits, reward points)



Digital interface
with QR ID

SEB Core Features



incentives



gamification



data monitoring

Incentivizing Sachet Deposits



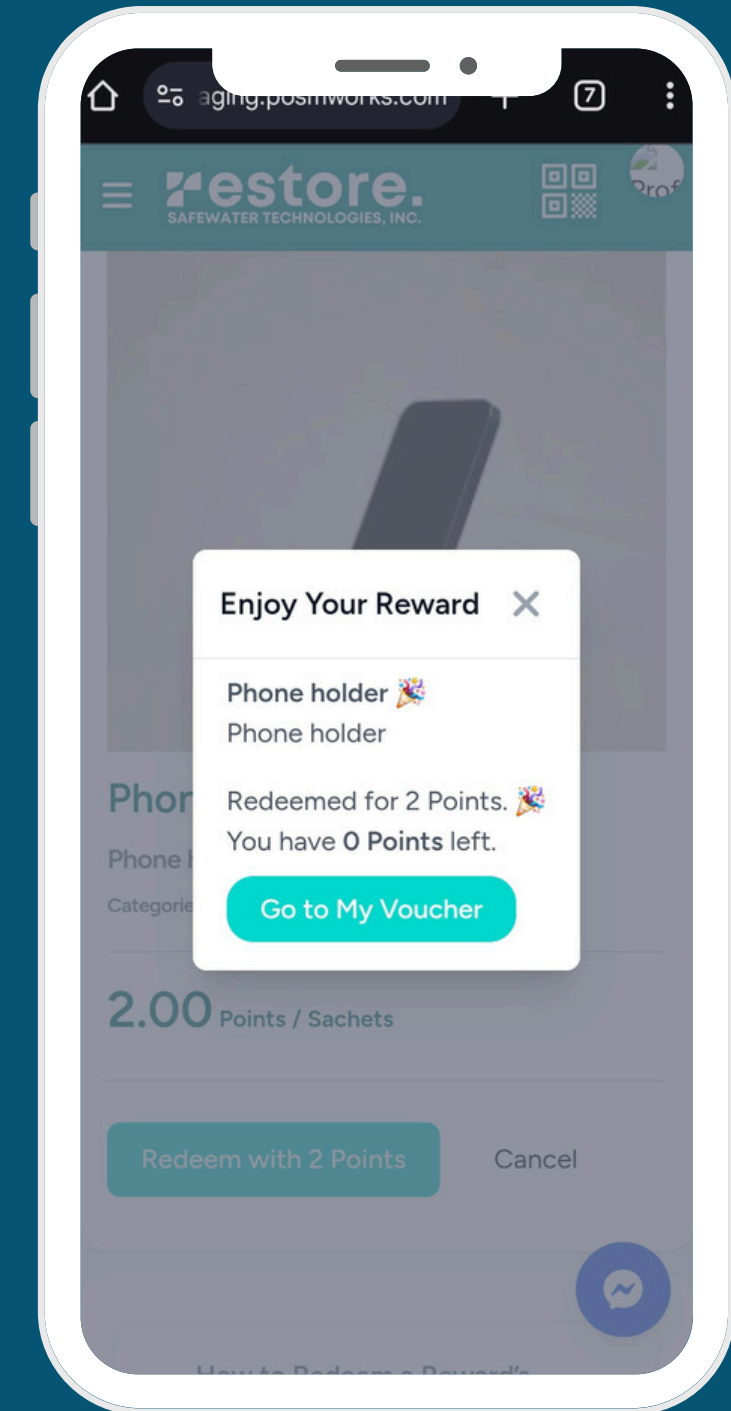
**Sachets =
Restore Points**

can be exchanged with

Peso value

Brand items

**Retailer services
(e.g., parking)**





Gamification



USER ENGAGEMENT



ACTIVE PARTICIPATION

estore.
SAFEWATER TECHNOLOGIES, INC.

RS

Home > Leaderboard

Leaderboard

All TimeMonthlyWeekly

Overall

1st

CL

C***** L*****

Accumulated Points
67,107.00

2nd

HW

H*** W***

Accumulated Points
17,824.00

3rd

JE

J***** K**

Accumulated Points
17,741.00

Leading Participants

Meet the leading individuals who care deeply about the environment.

Rank #	Name	Points Accumulated
1	C***** L*****	67,107.00
2	H*** W***	17,824.00
3	J***** K**	17,741.00

Personalized experience
elevating user motivation and
sense of achievement

- updated performance statuses
- credited points
- tiered badges



REFERRALS



RESTORE
POINTS



LOGINS/
VISITS



REWARDS



REPORTS

Data Monitoring

Home

> Available Online Machines

Available Online Machines

This is where you view machines that are online (or offline) & currently running.

Online

Offline

Refresh Statuses

Unit 5 - Uptown Mall Bonifacio Global City

Recent Time Log: 13 seconds ago

Machine is Online.

Unit 4 - Lucky China Town Mall

Recent Time Log: 55 seconds ago

Machine is Online.

Unit 1 - San Lorenzo Place Mall

Recent Time Log: 1 minute ago

Machine is Online.

Unit 3 - Eastwood Mall Quezon City

Recent Time Log: 1 minute ago

Machine is Online.

Unit 2 - Venice Grand Canal Mall

Recent Time Log: 1 minute ago

Machine is Online.

Machine Status

Overall Total Sachets per Machine

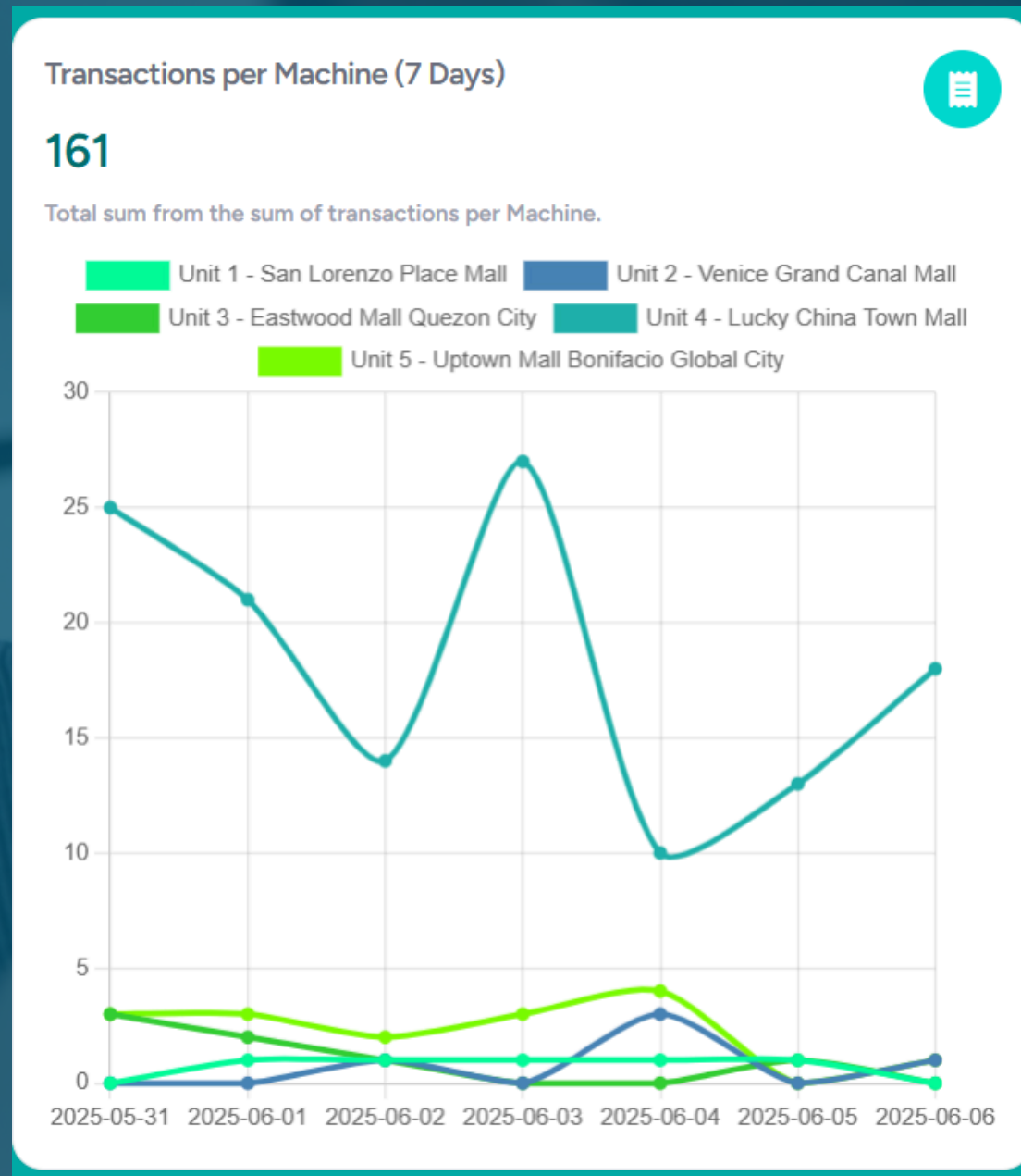
499,178

Summary Report of Number issues of each Machine.

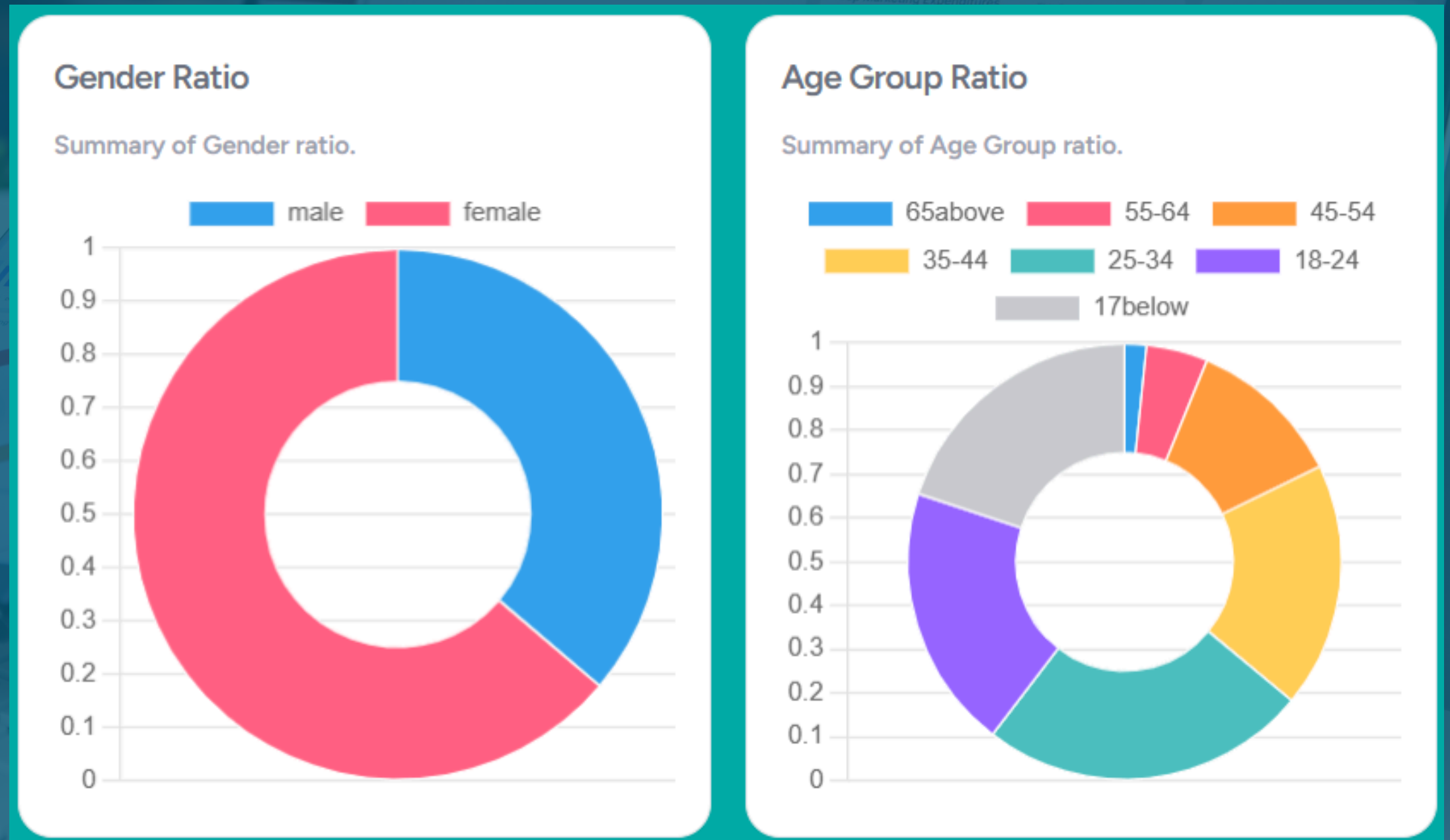
MACHINE NAME	TOTAL COLLECTION
Unit 4 - Lucky China Town Mall	450,784
Unit 3 - Eastwood Mall Quezon City	19,608
Unit 5 - Uptown Mall Bonifacio Global City	17,210
Unit 1 - San Lorenzo Place Mall	6,020
Demo Unit	2,838
Unit 2 - Venice Grand Canal Mall	2,718

Sachet Count

Data Monitoring



Historical Performance



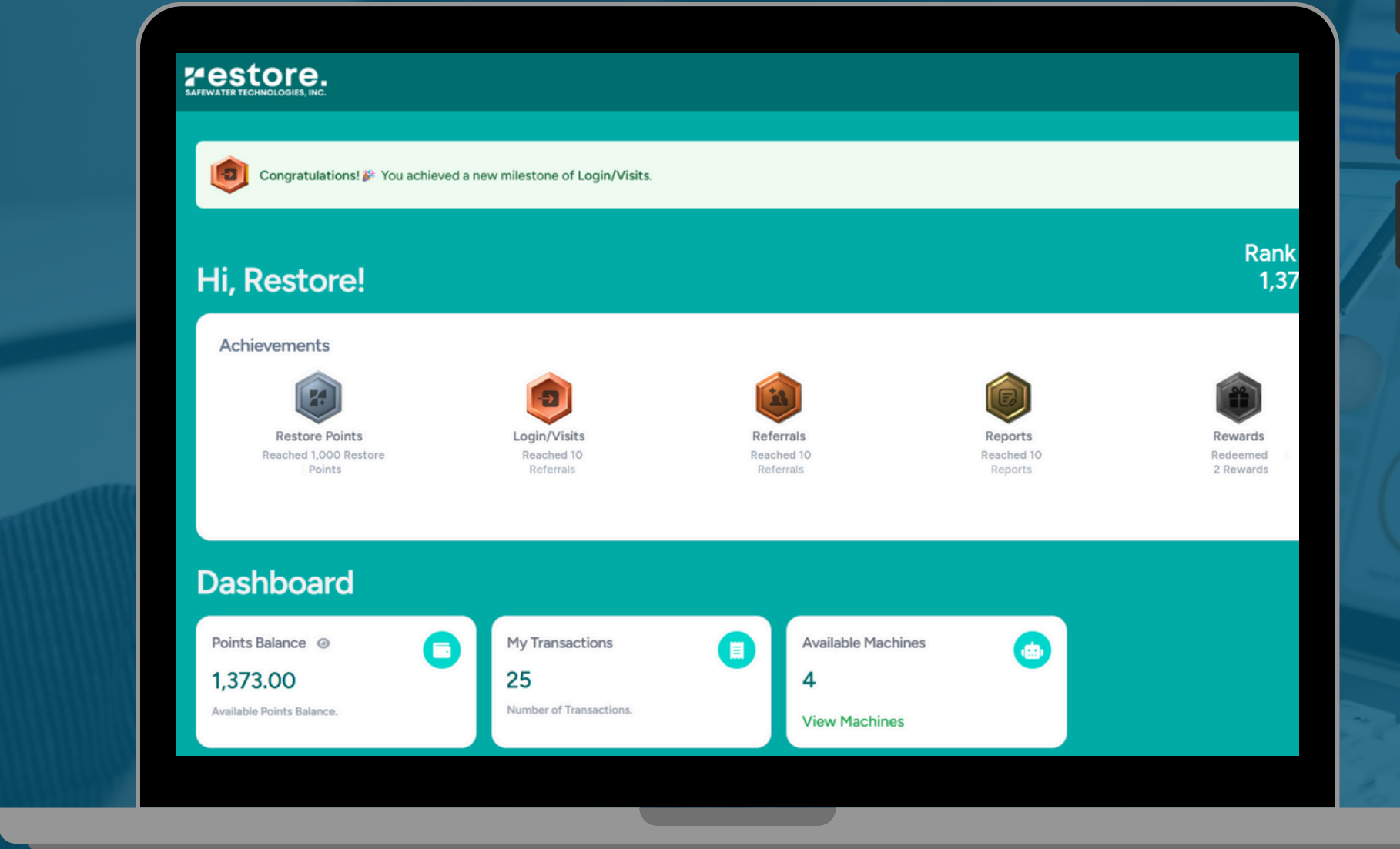
User Demographics



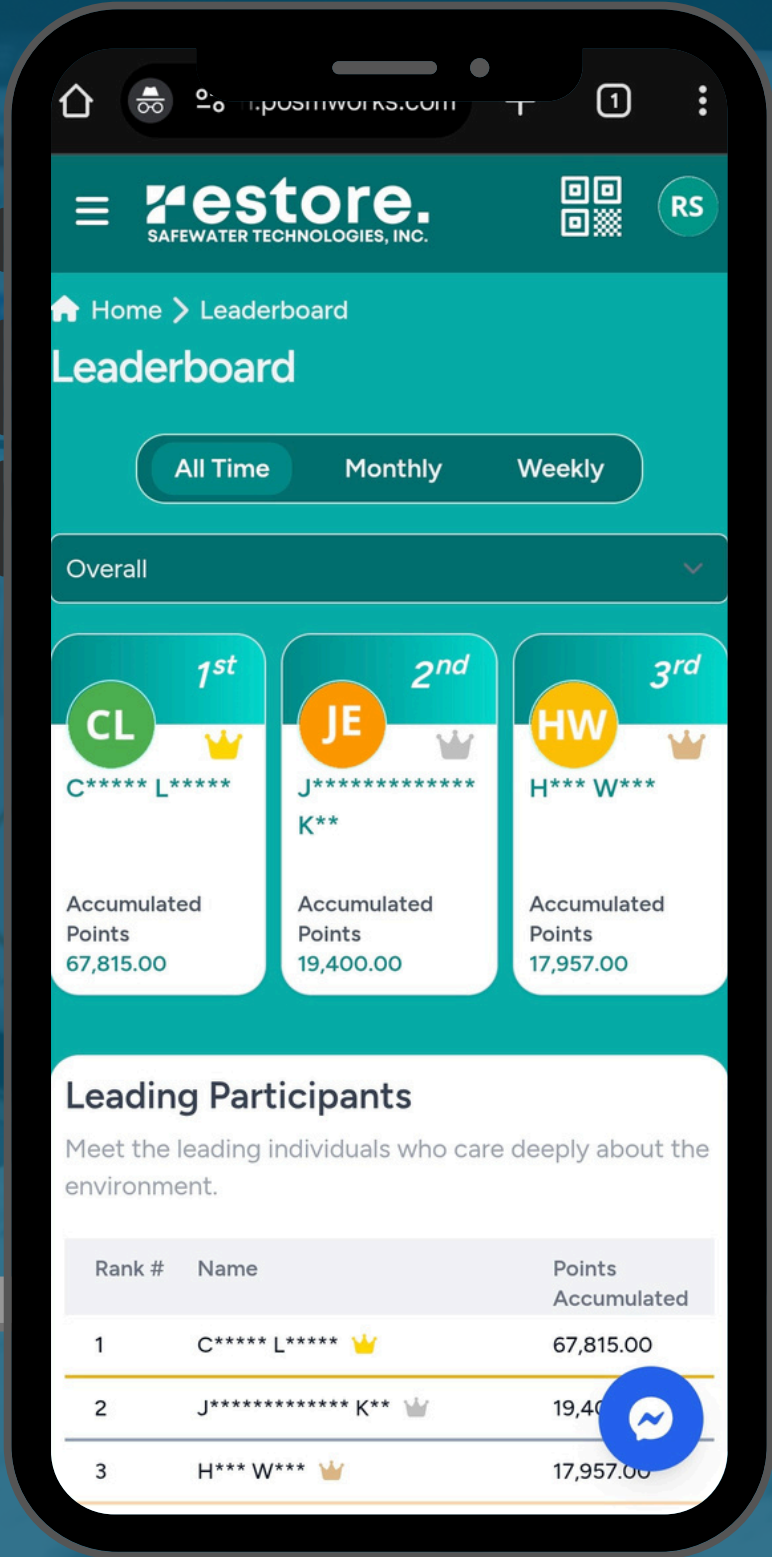
Smart Eco-lection Bin

redefining impact
tracking for Eco-Heroes

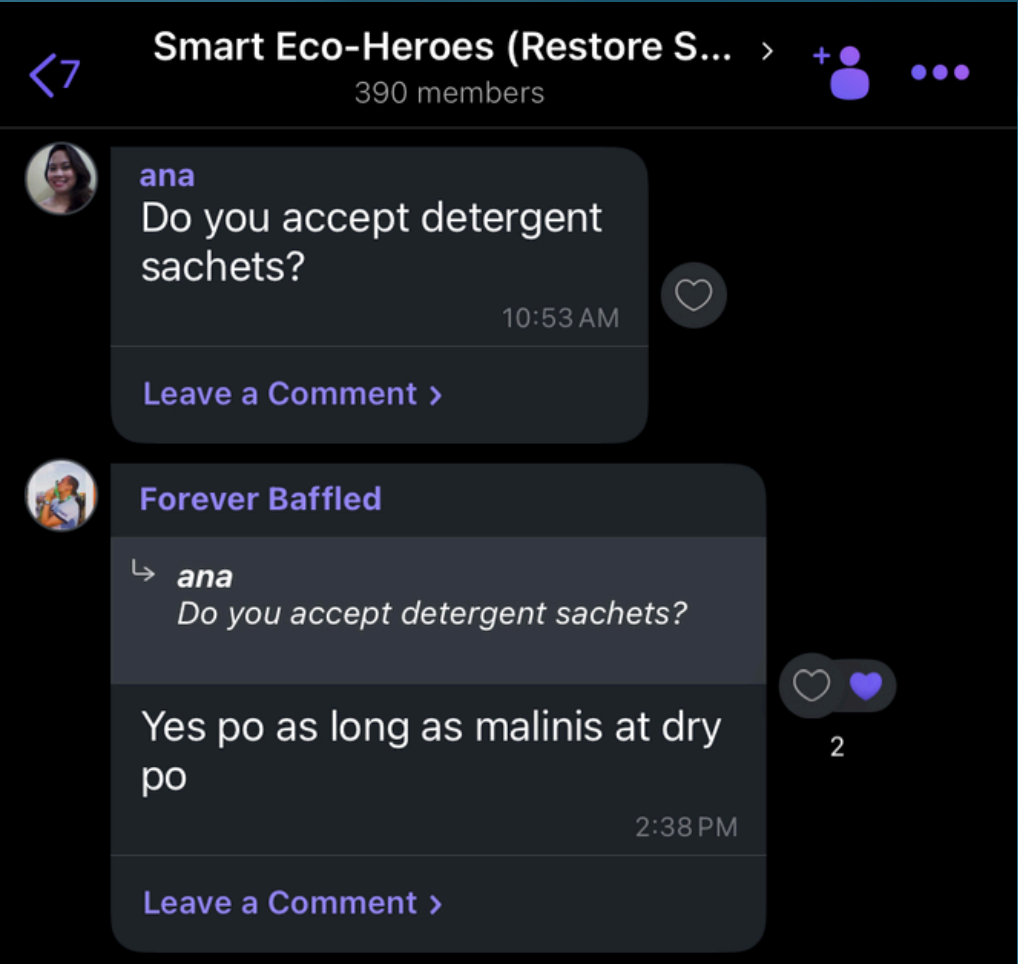
Impact - Individual



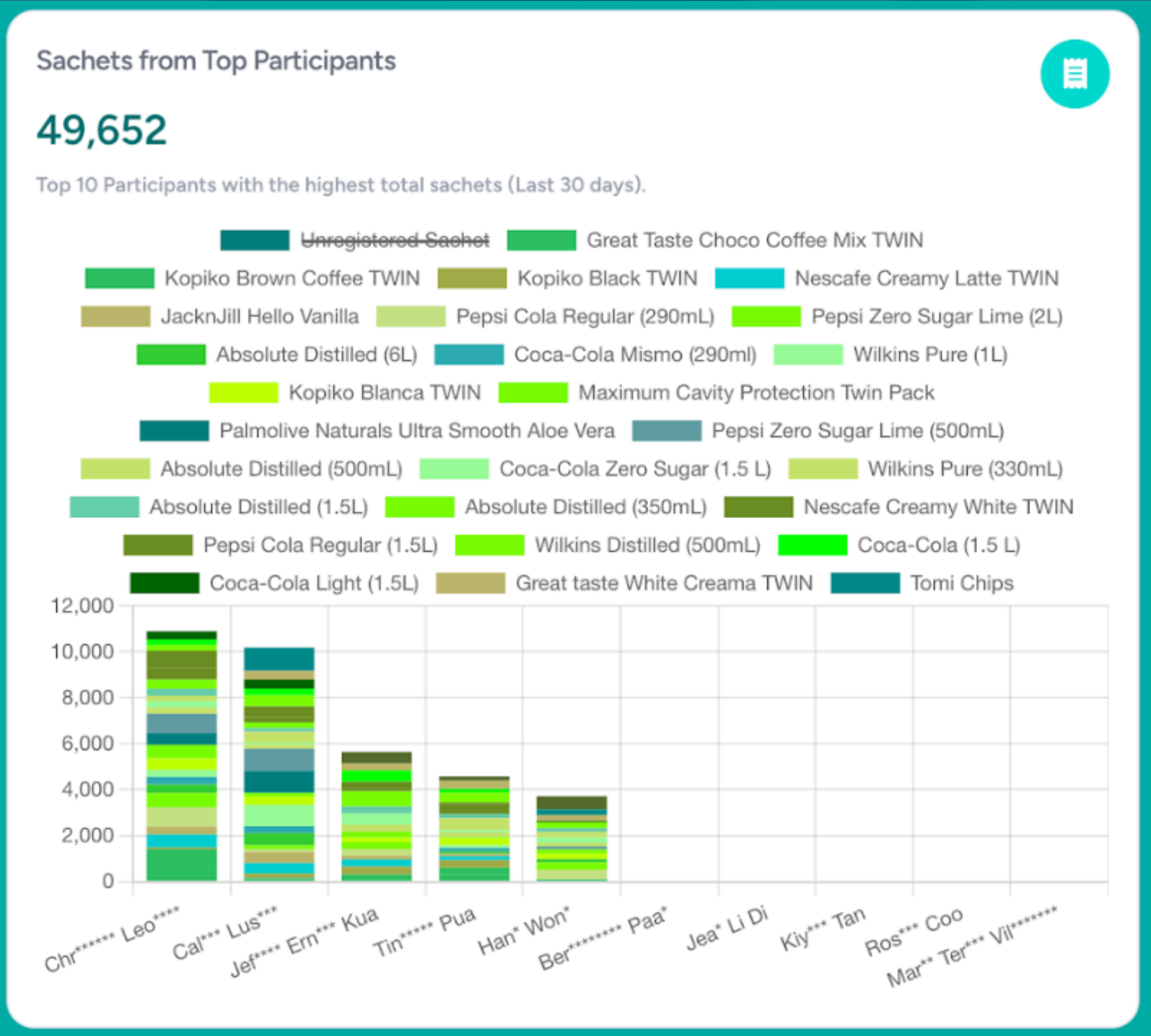
Personal Dashboard



Leaderboard



Impact - Brand Partners (EPR)



SEB SKU Count

Sales Data

Plastic Footprint

Plastic Recovery

Impact - Brand and Retail Partners



75% of Filipinos prefer environmentally-friendly brands (Kantar Worldpanel, 2020)

How do you prefer to engage with a brand's loyalty program?

On mobile, while shopping online  **59.8%**

On mobile, while shopping in store  **48.5%**

repeat purchase
waste diversion



Consumers

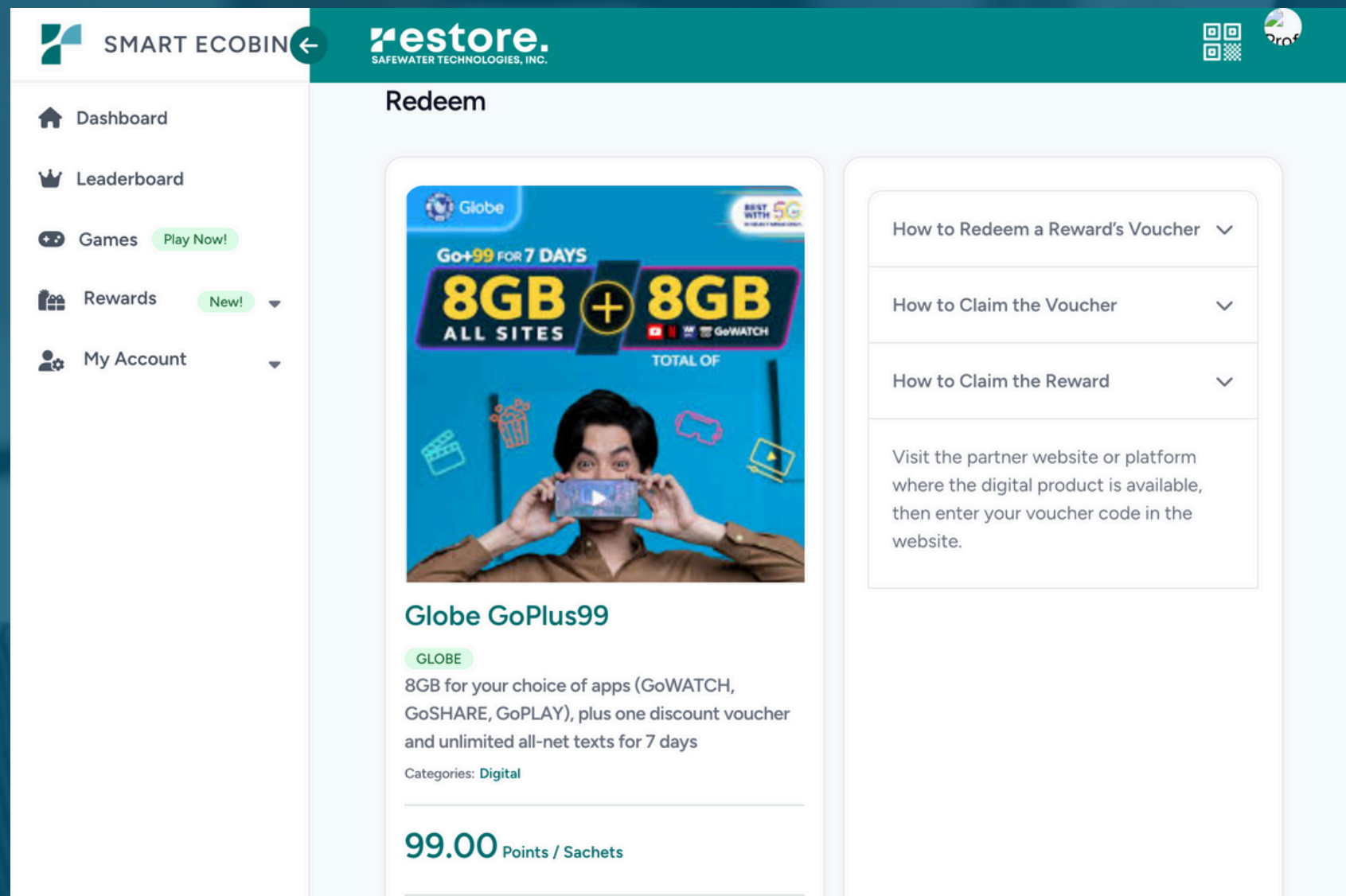


Brand and retail partners



brand incentives

Impact - Brand and Retail Partners



Brand loyalty program

*through incentives such as
brand products, retailer services (e.g., parking)*





Smart Eco-lection Bin

current progress



Initial Deployment Phase

- Eastwood Mall (GF, near ATMs)
- Lucky Chinatown Mall (GF, near Metro Supermarket)
- San Lorenzo Place Mall (GF, near Robinsons)
- Uptown Mall (B1, near Bruno's Barbers)
- Venice Grand Canal Mall (GF, near entrance)



By the numbers...



1,773
registered
users

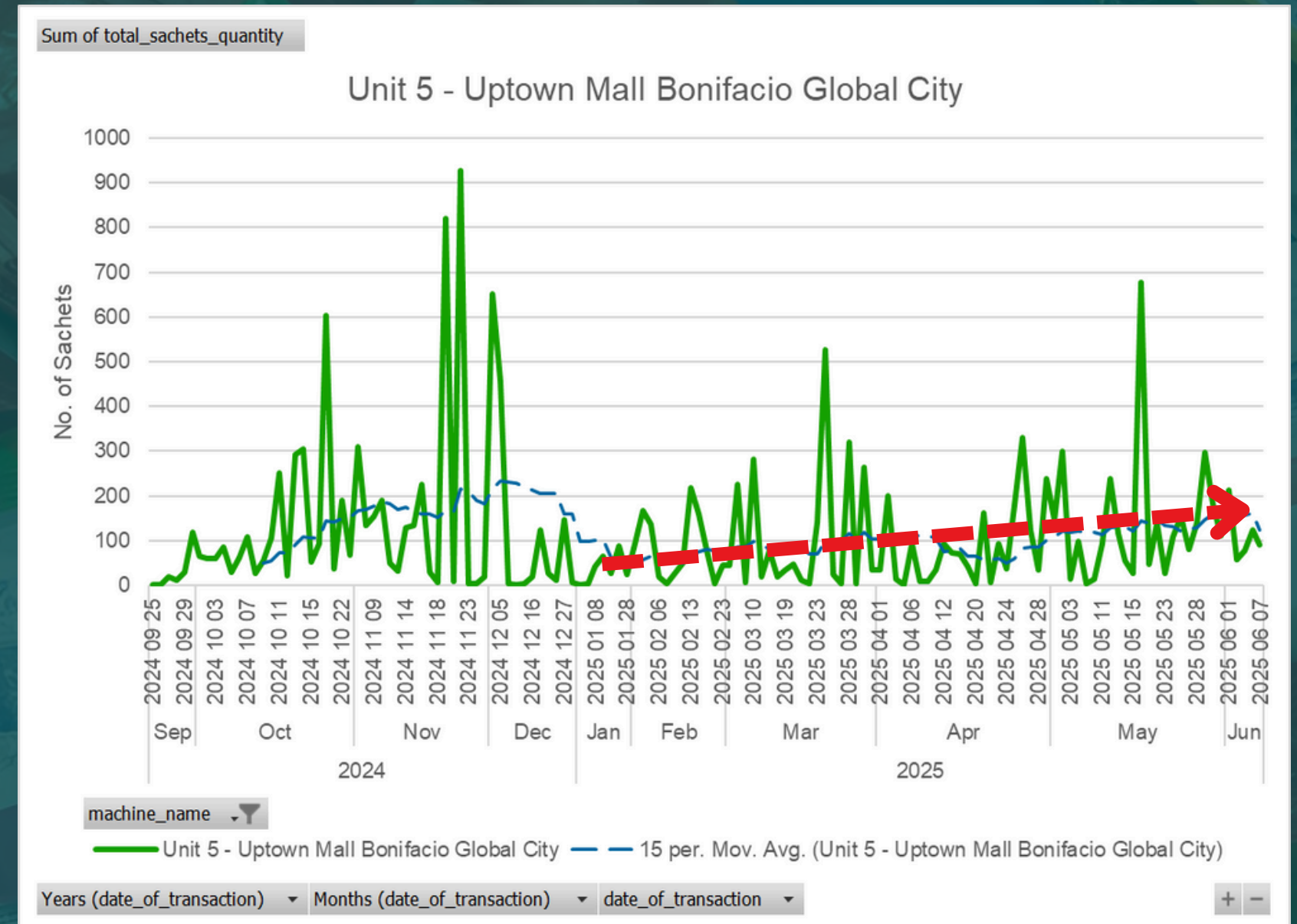
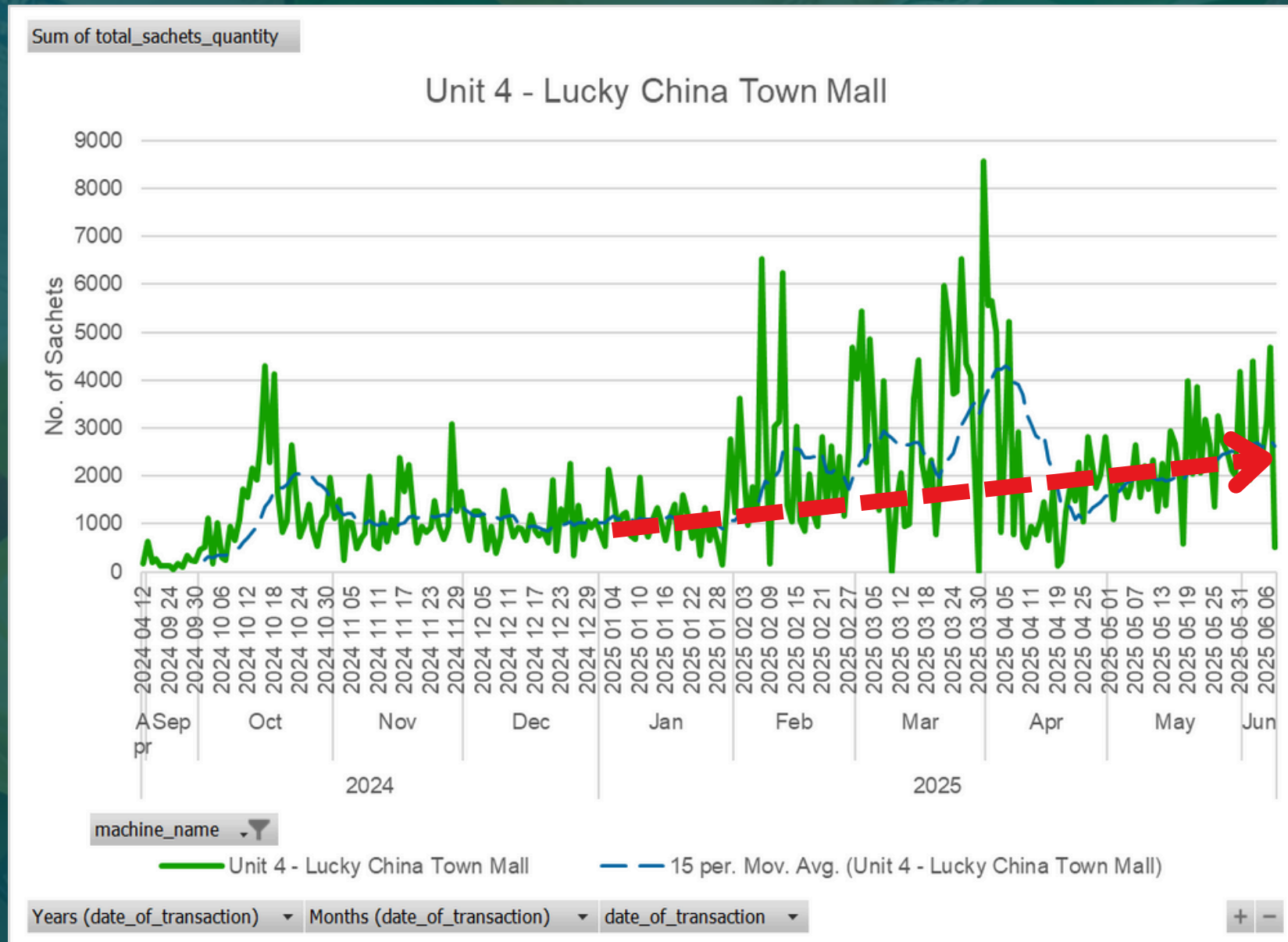


>500k pieces of
cleaned and
dried sachets
deposited



~1,500 MT of
sachets
collected

By the numbers...

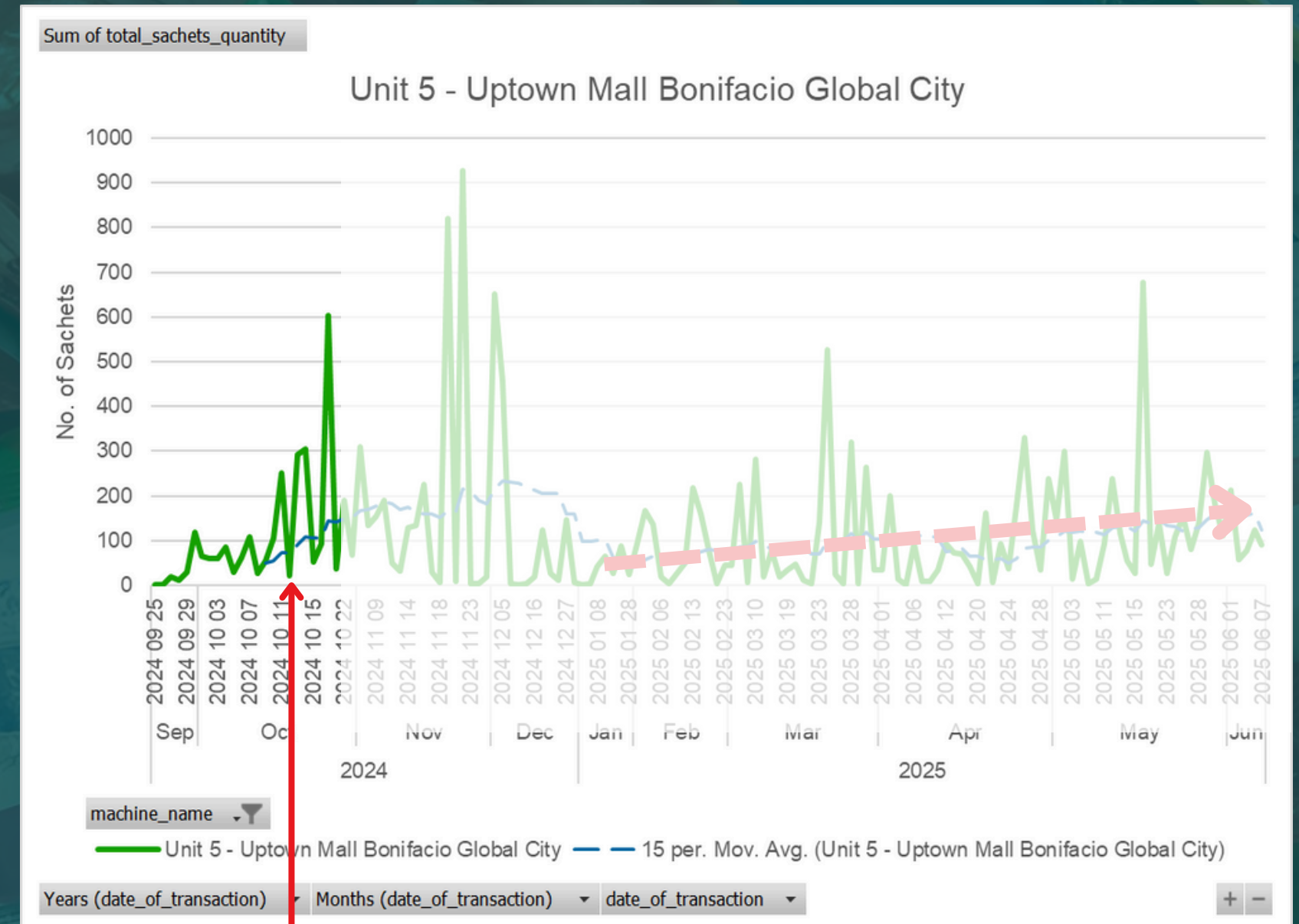


By the numbers...



initial activation

- help introduce the SEB (what is it for, how it is used)
- teach users to insert cleaned and dried sachets

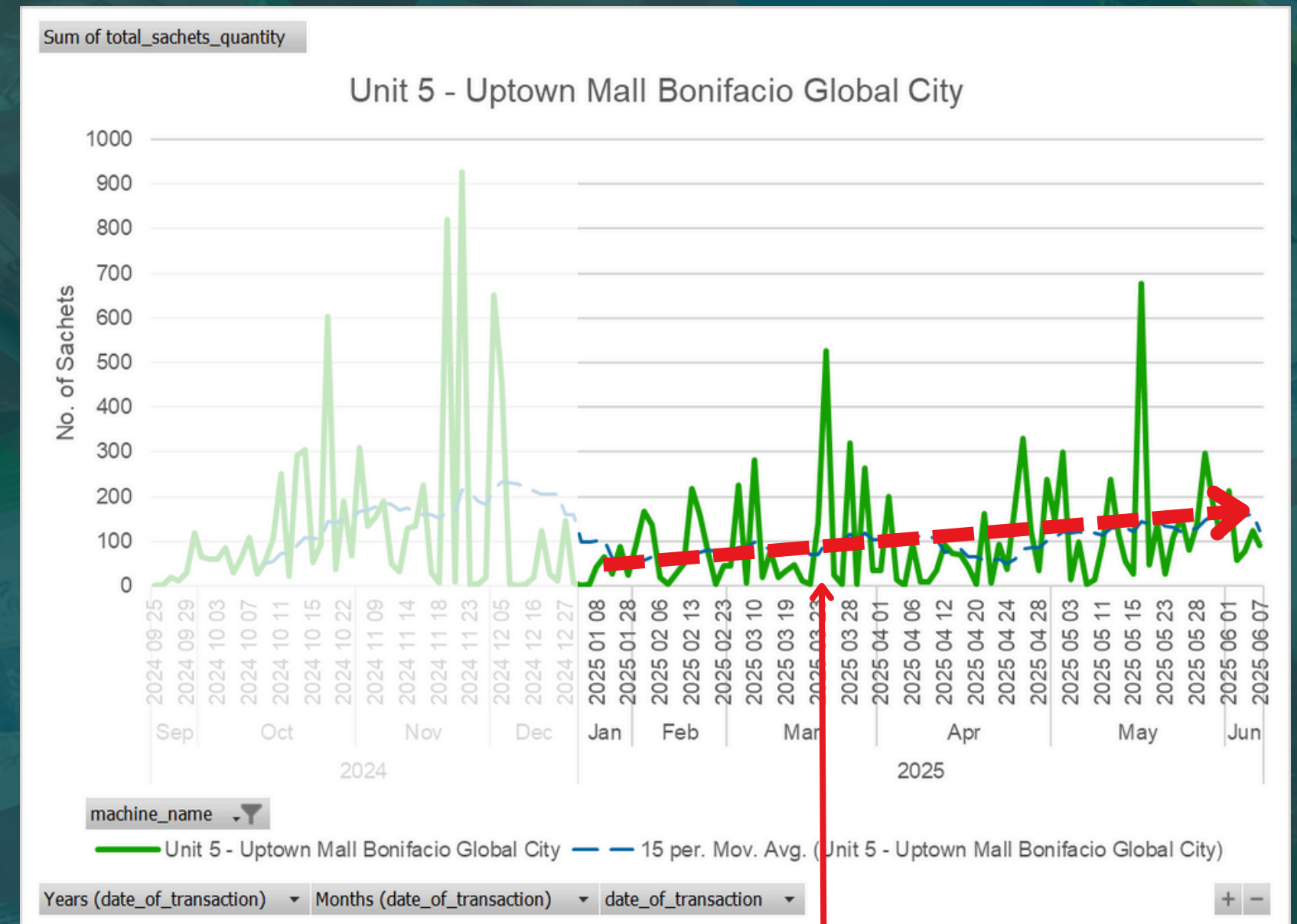


initial activation

By the numbers...



re-intro



re-intro

Beyond the numbers - Collections



only multilayer plastics are collected

Users do their own collection, segregation, cleaning, and drying

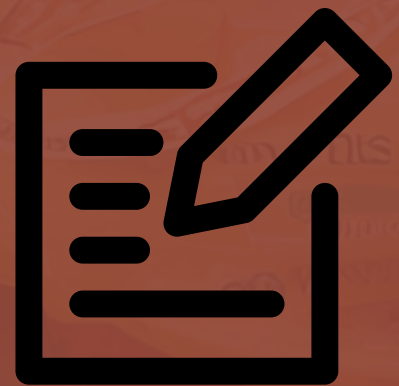


Beyond the numbers - Challenges



Operations

- full capacity and/or clogging
- fluctuating internet service
 - delays in data posting
 - missing transactions



Improvements

- larger bin design
- strengthened communications with SEB users
- back-up mobile data
- hardware sanity checks

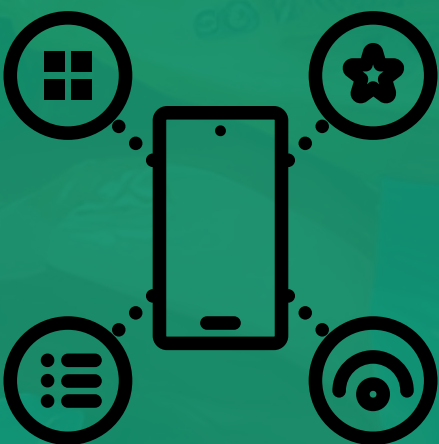


Beyond the numbers - Challenges



User Adoption

- mistaken for other service
- interested but not depositing



Improvements

- strengthened communications with SEB users
- promotions, new features and releases



Your **Plastic Waste** for a **Burger Taste!**



Race to 10K POINTS

The first 100 Eco-Heroes who collect and earn 10,000 points for single-use sachets at our SEBs will get a burger!

Beyond the numbers

Stories

“ At first, I began collecting sachets from my own household. But as time went on, I expanded my efforts — picking up dry sachets I found along the streets during my daily walks. It became a routine: walking, decluttering, and recycling, all rolled into one.

H. W. – SEB User

”

Analog Partnerships from SEB

MEGAWORLD
Lifestyle Malls



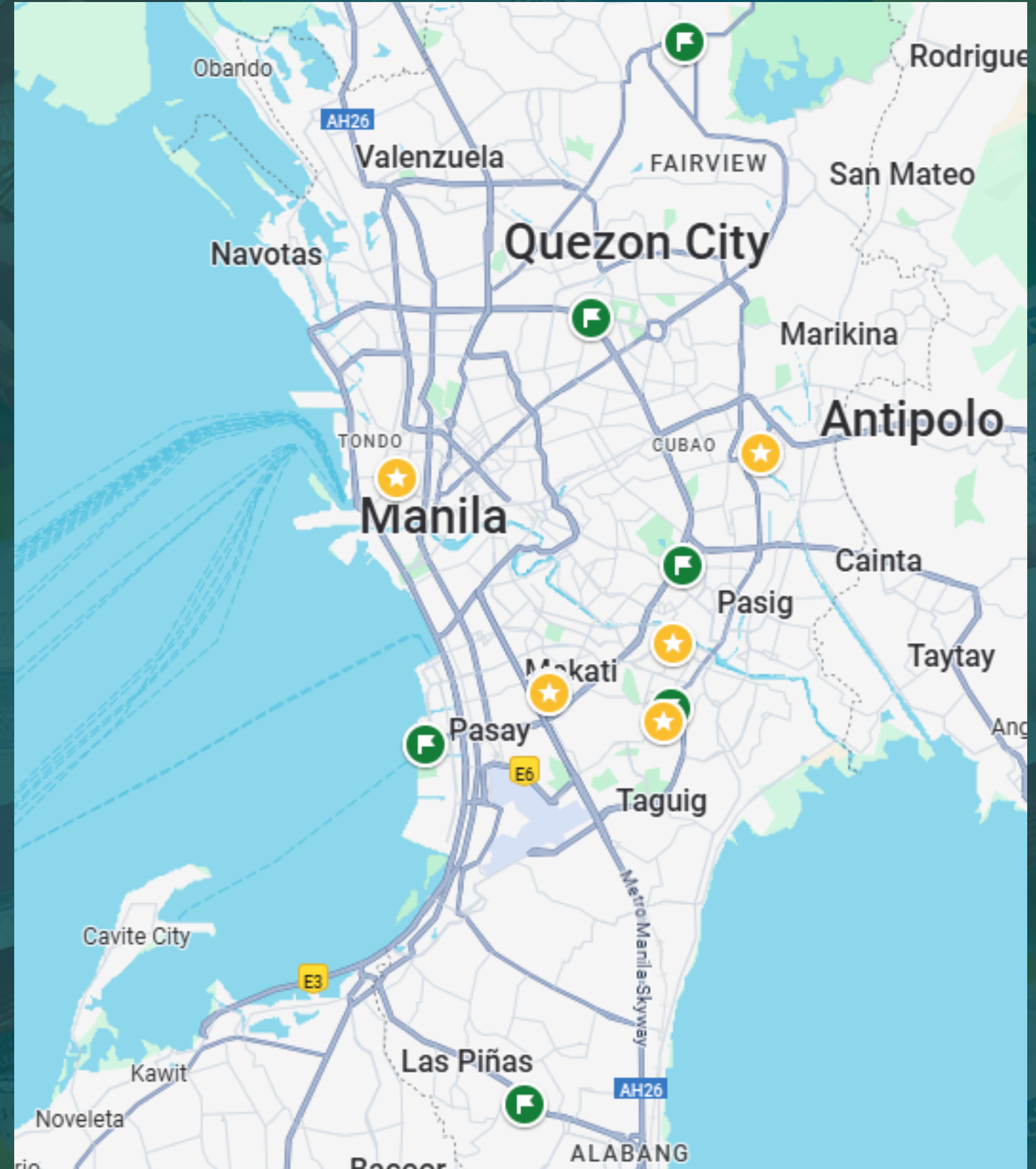
NU FAIRVIEW



more partners in the pipeline!

Current Scale

Within NCR Only





Target Scale

Nationwide - more than 2000 SEBs in 10 years

as prevalent as ATMs nationwide





waste diversion

user rewards



revenue



brand participation

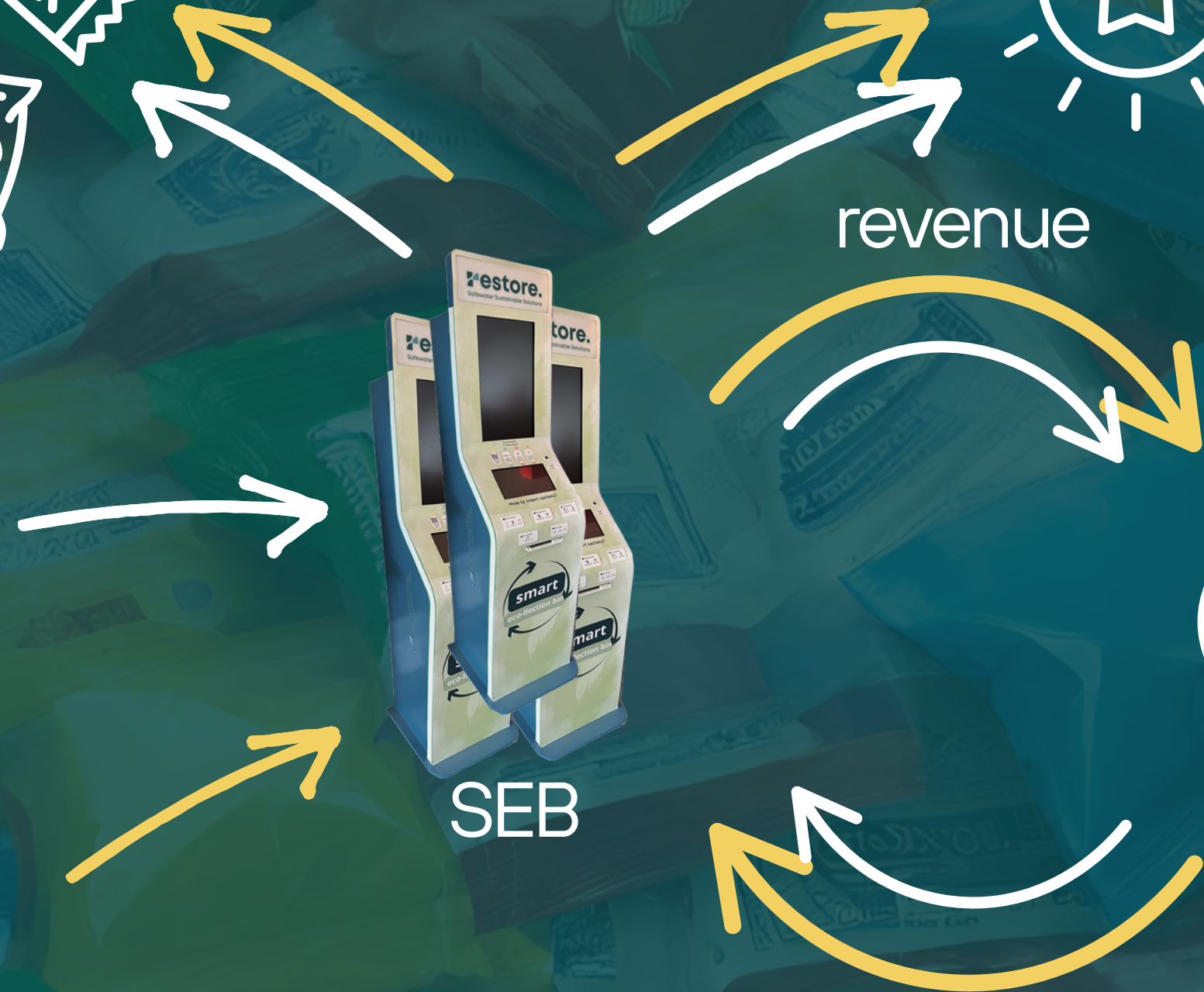


SEB



investment

reinvestment





Impact on waste diversion

Number of SEBs	5	75	200	500	1,000
Sachets collected (pcs/mo)	60,000	900,000	2,400,000	6,000,000	12,000,00
Diverted plastics	180 kg/mo 2.1 MT/yr	2,700 kg/mo 32.4 MT/yr	7,200 kg/mo 86.4 MT/yr	18,000 kg/mo 216 MT/yr	36,000 kg/mo 432 MT/yr

Digitalization and technology are catalysts for an accelerated consciousness shift among Filipinos, propelling us towards the better management of plastic waste.



DIGITAL EVOLUTION OF PLASTIC RECOVERY

one sachet at a time

Miguel Lorenzo Yorro

*Business Development, Sustainability and
Product Innovations Lead*

miguel.yorro@safewaterphils.com

by **restore.**
Reinventing Sustainability