Holistic Circular Economy Platform

COLLABORATIONS WITH PRIVATES TO SAVE OUR PLANET

2023 Jeju Plus International Environment Forum







End-to-End Circular Economy Platform for Recycling and Reuse

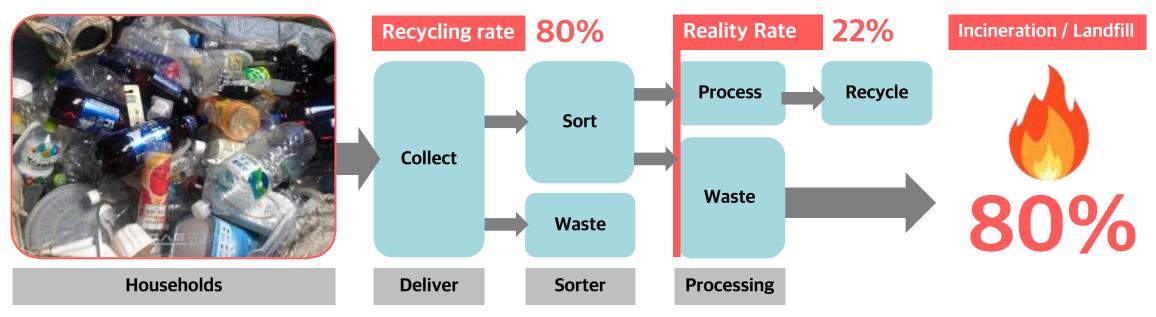


Consumers



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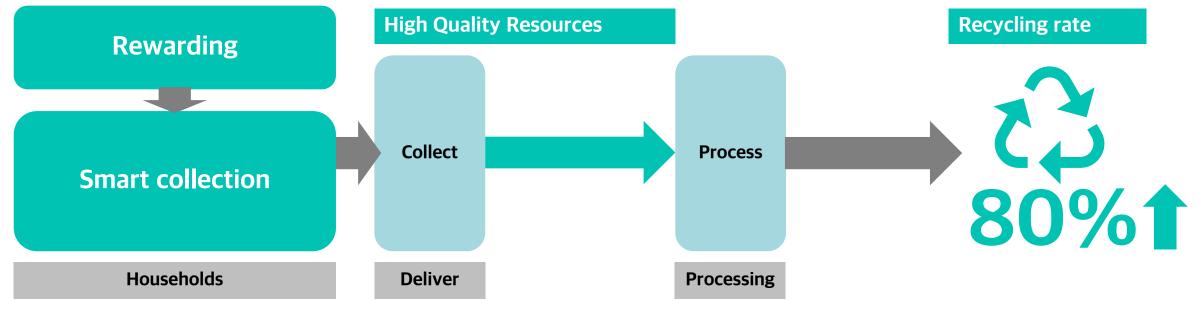
Unsorted disposals by users makes recycling unviable



*2017 [GreenPeace]



Smart infrastructure and rewarding can lead to clean separated disposals



*2016 [KORA]



Holistic Solution for Consumers Circulation over Recycling



Lalaloop Console Circulation Data Management System



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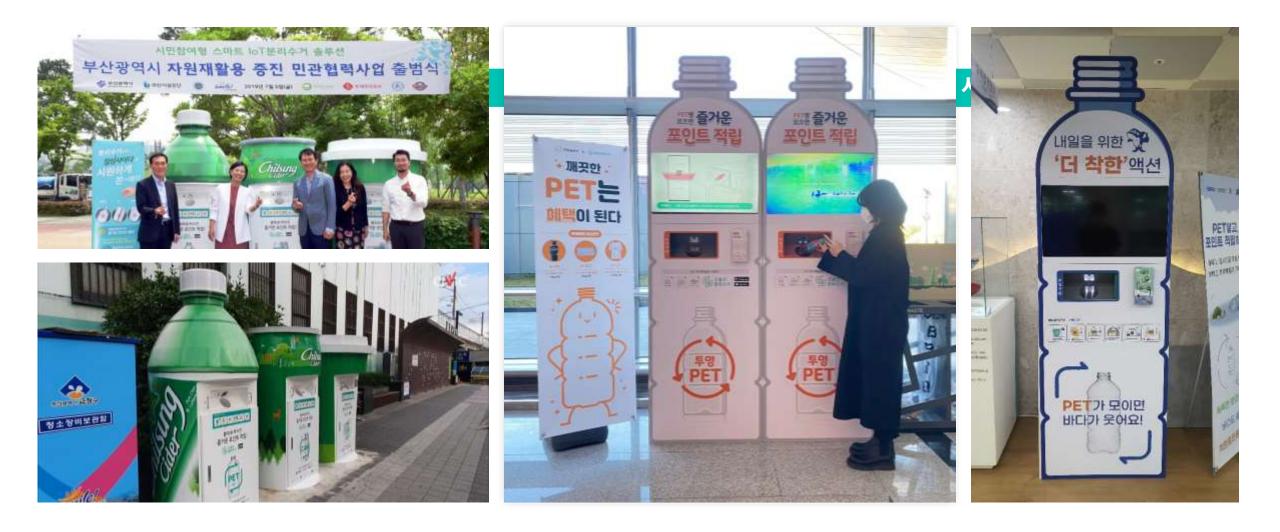
Kiosk collecting circulations closed to the life area



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Collaboration with Various Privates and Publics





Lalaloop can cover all reusables and recyclables

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3 Product [All categories]

Lalaloop can cover all reusables and recyclables

Recycling EH 분리수거하면 즐거운 포인트 적립!







즐거움은 요기부터

272

Broad market share with F&B industries and Gov. references

Recycling Value chain





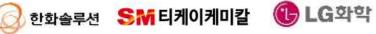
Local recycling Value chain building



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Package collecting and recycling solution POC





Residential area recycling resource collecting POC

Reusable Value chain









Reusable shopping bag collection system

Reusable food container collection system

배달의민족



Key case in Reuse

- Reusable cups provided at Starbucks in Jeju
- Return used cups at a store or airport Lalaloop Collection machine.
- Returned cups are washed and sterilized at the washing station and then resupplied.
- Roll in the project
 - SK Telecom: Project Organizing
 - Happy Connect: Production and supply of reusable cups
 - Starbucks: Beverage manufacturing using reusable cups
 - Oysterable: Supply of reusable cup recovery system

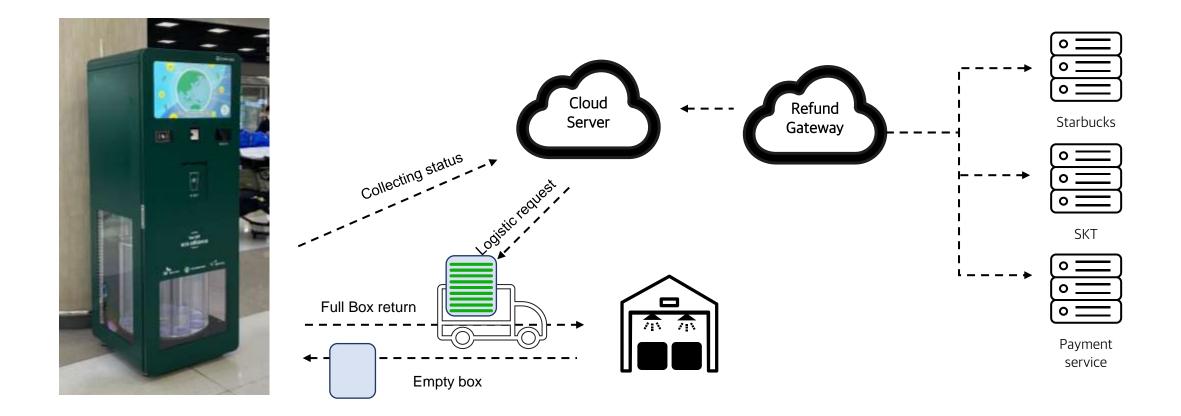








Oysterable's Roll - Collecting machine and system structure

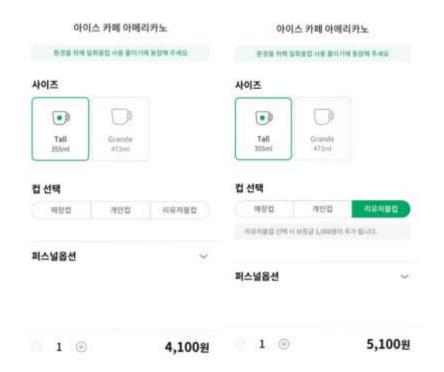






From Barista

From App



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4 Case: Reusable Cup Project

Reusable cup





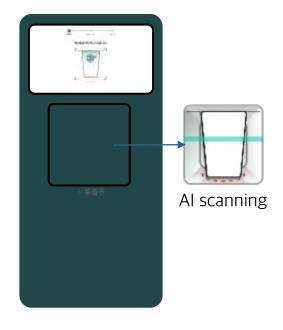
- Radius 92mm, Height 140mm
- PP Materials
- Same cup design with original Starbucks cup

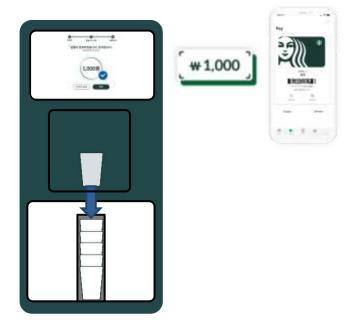


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Collecting process







Stacking

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4 Case: Reusable Cup Project

Recognition and relearning of reusable cups through Cloud AI



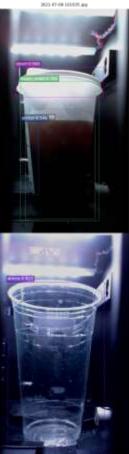




2021-07-05-071230 Jps







Positive

Negative

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Refund Gateway API channel for convenient refunds



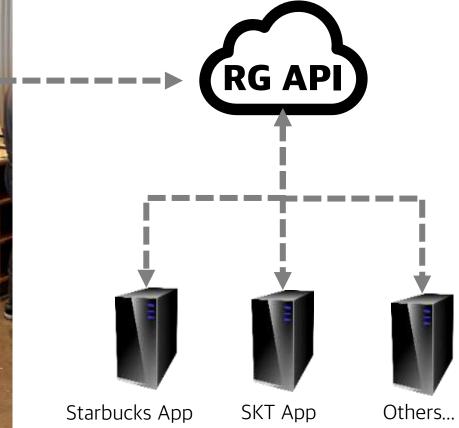
Phone number



Receipt



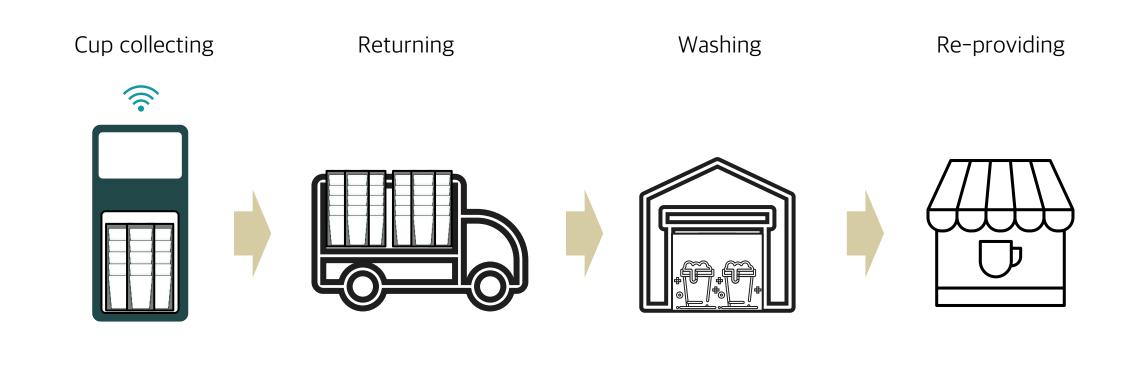
Refund gateway system





Reusable Cup Circulation

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Washing Center in Jeju

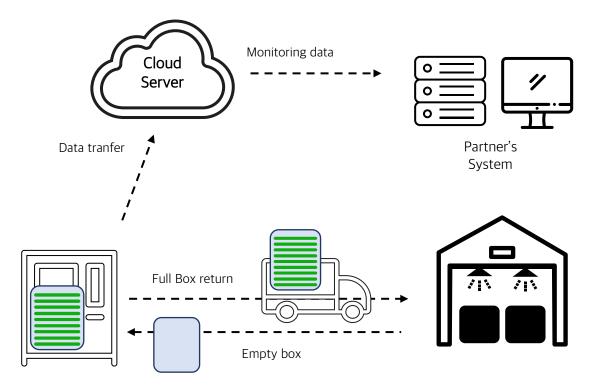


- Dodu-dong, Jeju-si
- Process to remove odor, discoloration, and oil
- International standard cleaning manual and hygiene standards





Data management



- Machine health monitoring
- Capacity status and recovery notification
- Refunding monitoring
- Remaining cash management
- Store return status
- Remote support

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Leading the active spread of reusable cups

Lalaloop cup Machine

Over 130 machine in Korea

Return rate

Over 85% return rate



Problems considering project extension

- Difficulty securing use in cafes and institutions
 - Container design changes, customer custom requirements
- Cafes that consumers want do not use reusable cups
 - Consumer choice is limited as there are not many cafes that handle reusable cups.
- Reusable cup life cycle tracking is not possible
 - Compared to disposable cups, reusable cup waste and carbon reduction cannot be tracked.

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LalaLoop Cup, the most easily introduced reusable cup





Greater benefits for users, more convenient and ESG for institutions/companies

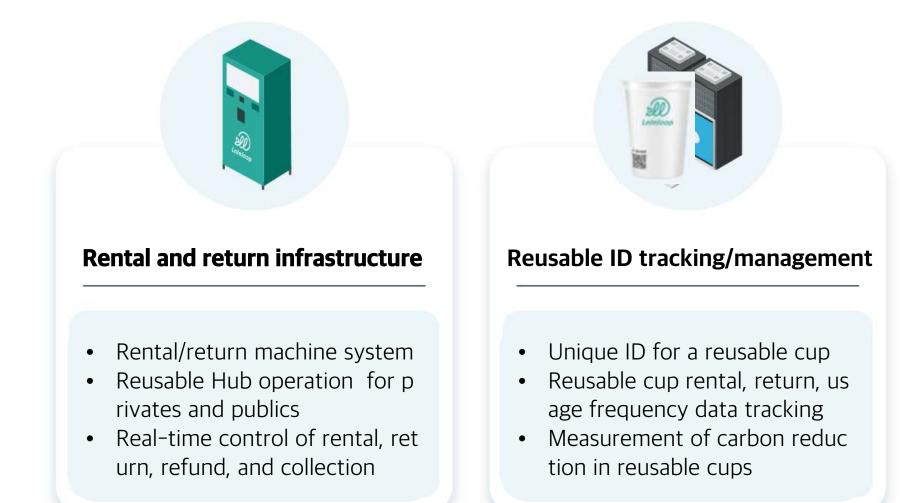


- Rent-a-cup and get discount in any cafe
- Be free from a tumbler carrying and washing
- Easy to go, easy to return with unmanned 24 /7 service
- Carbon neutral incentive available

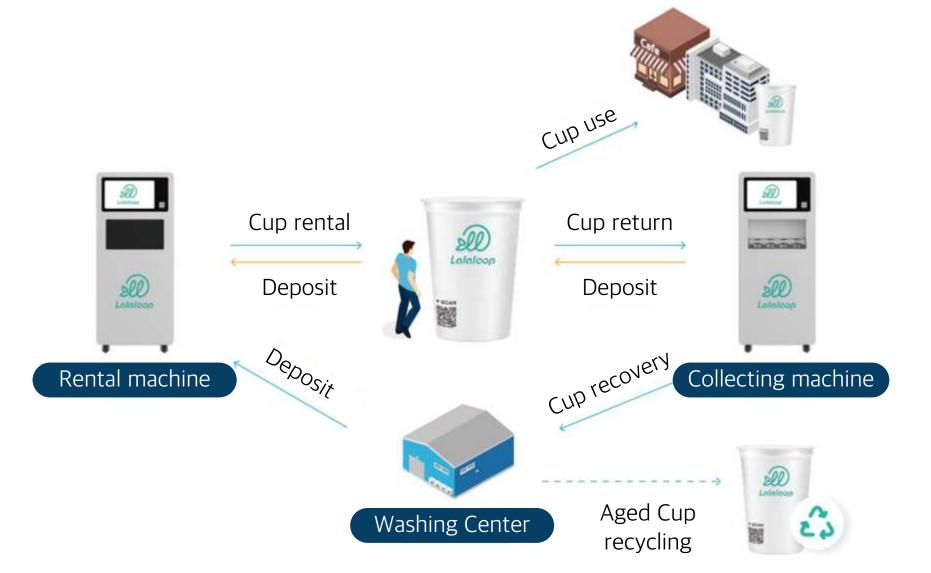
- The easiest way to start ESG action
- Plug and play solution for reusable cup
- Carbon neutral data calculation and incentive available
- Be free from reusable cup management

5 Next Step [Lalaloop Reusable Cup system]

From LCA tracking with rental/return infrastructure and reusable cup ID

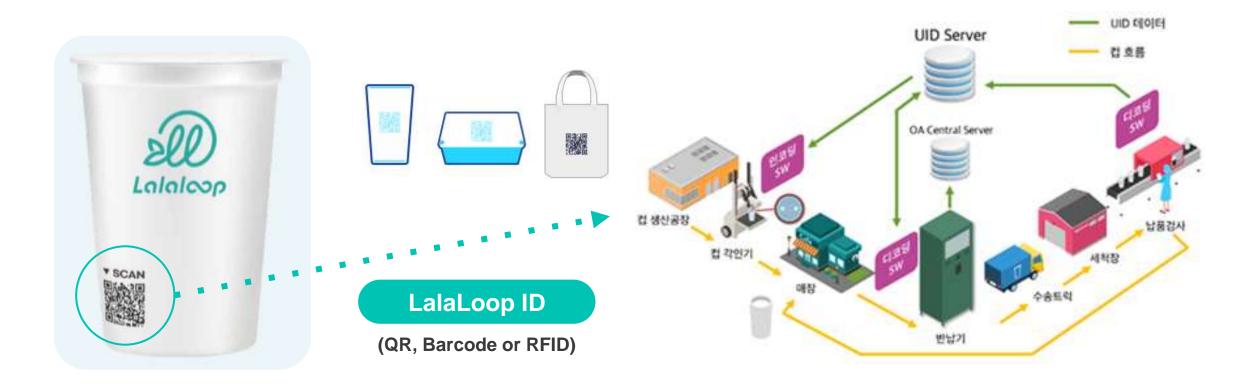


Focus on user not a cafe, for better and faster use and extension



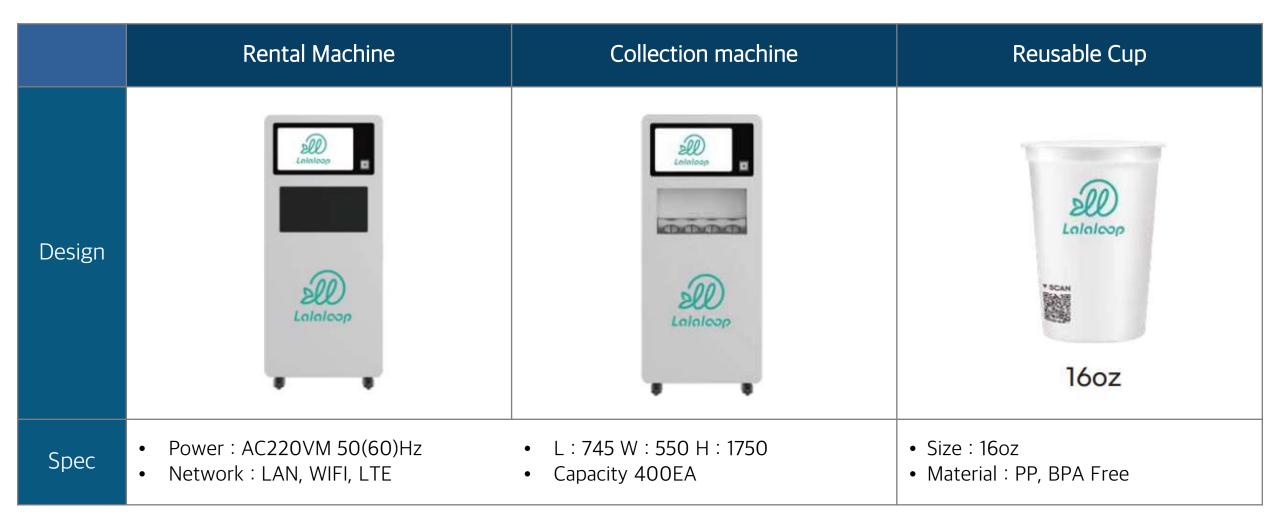


Track the entire flow of circular resources with LalaLoop ID





Holistic Unmanned Solution for Reusable cup circulation





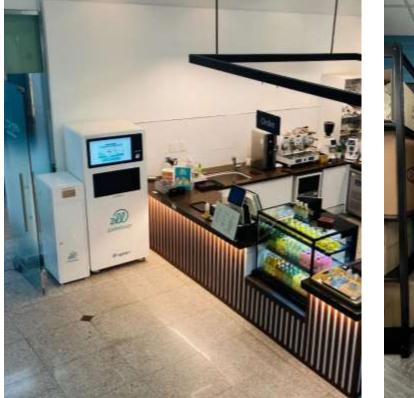
Faster and Easier Process





Faster extension with Seoul Government Subsidy





SR Suseo HQ Cafe



Hanhwa Energy Solution HQ

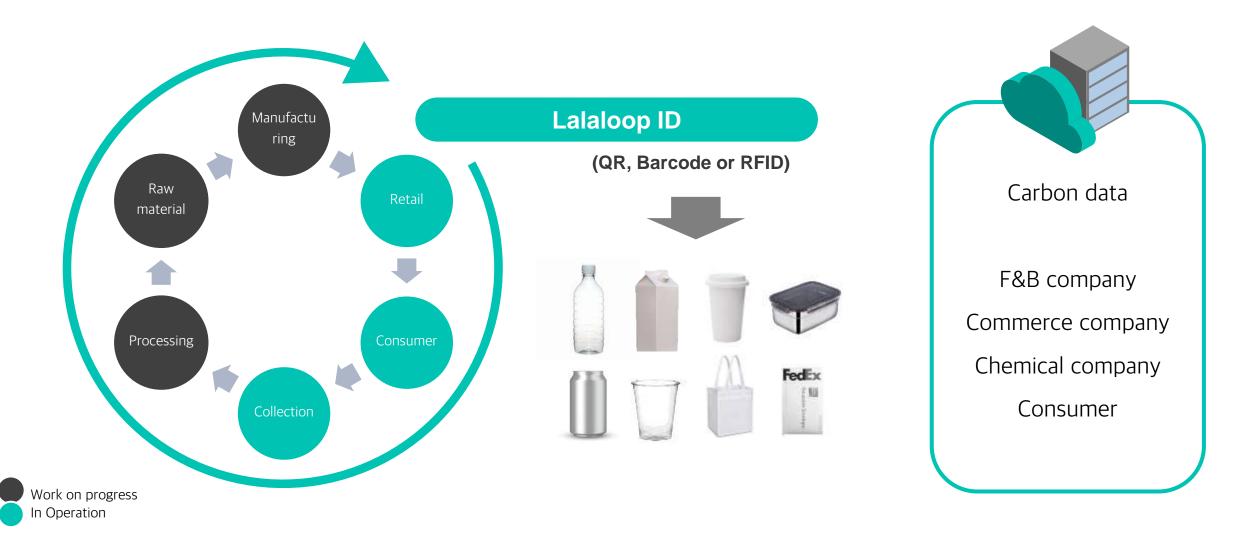


Seocho-Gu city hall cafe

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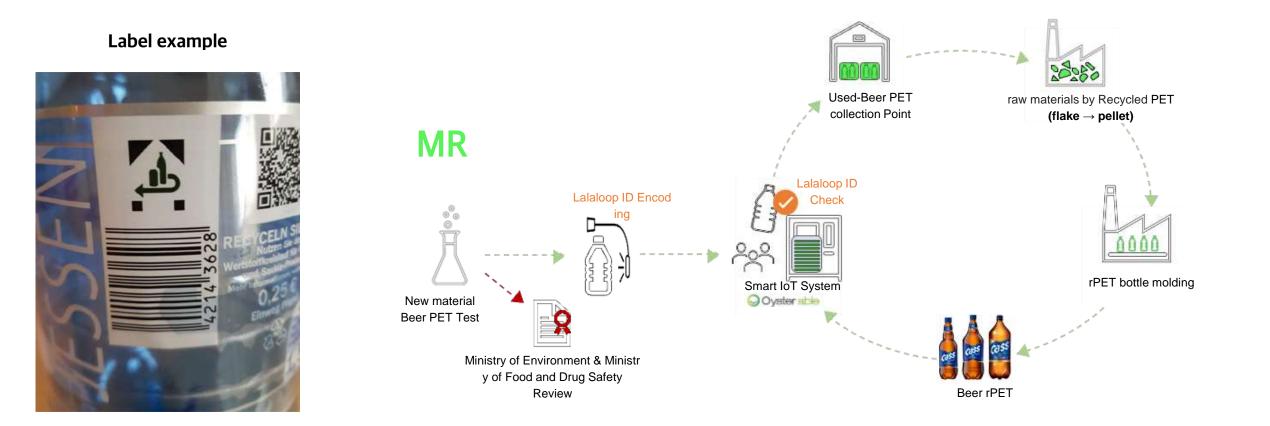
Lalaoop ID - Package LCA tracking solution for carbon neutral data





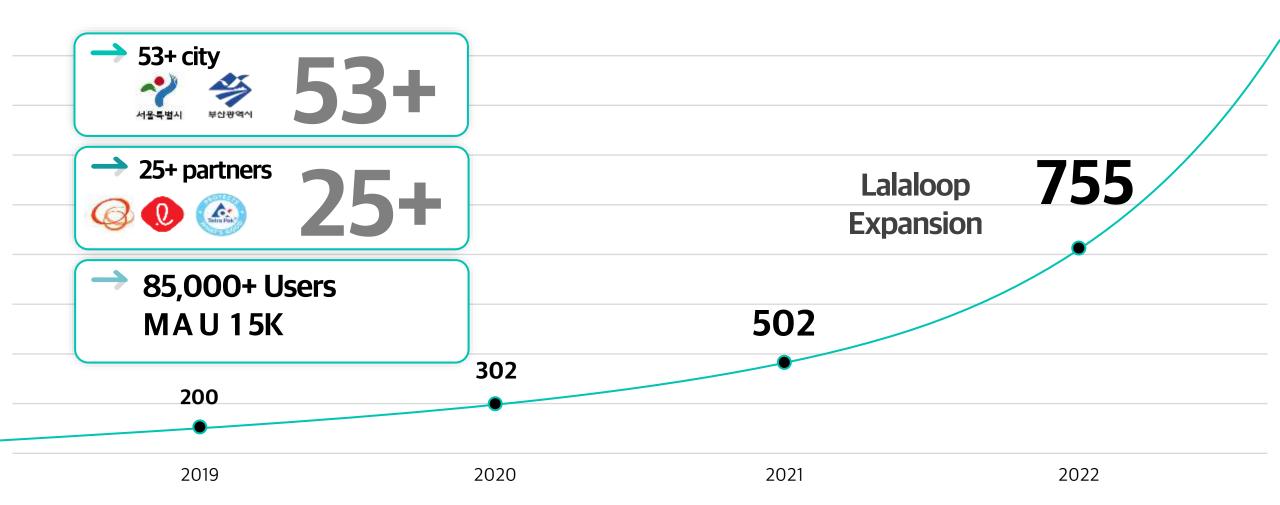
Build a PET RVM system with Lalaloop ID on label or bottle

With lalaloop ID and RVM, PET circulation system can be operated easily. Amount of collected PET can be monitored.





The biggest collection device operation and partnership to lead a market



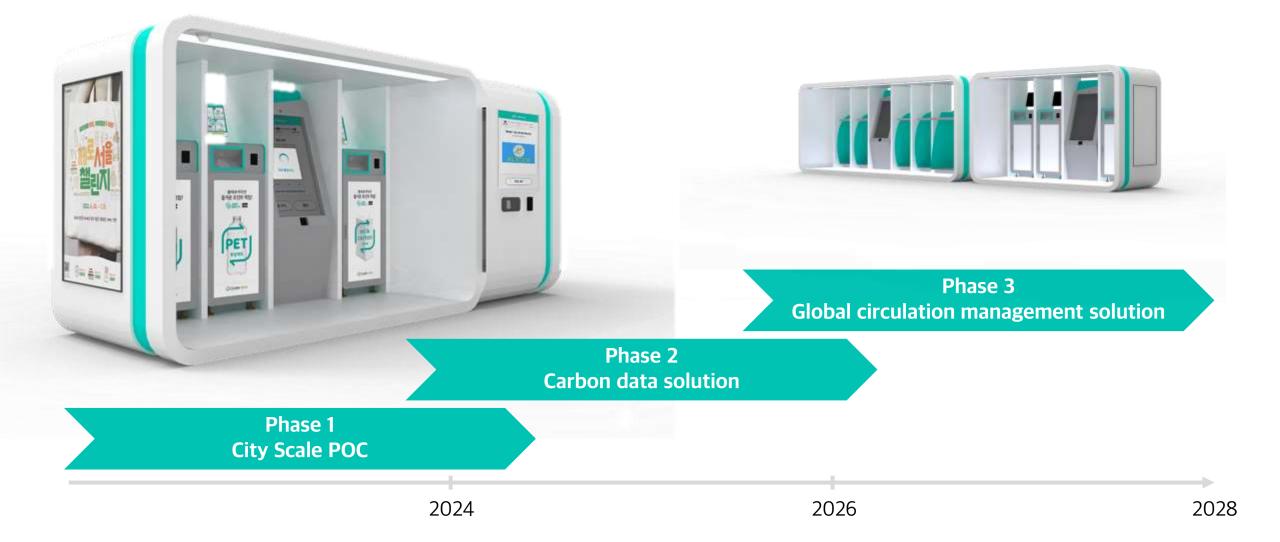


Recycling and reuse to reduce waste and carbon footprint





City scale service for circular economy for Global smart city





Professional team with IT based circular economy and smart city service



33 members, 10 teams



THANK YOU

We assist the people who save our planet

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우리 아이가 살아갈 지구니까 수고로워도 바르게 하자는 생각