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

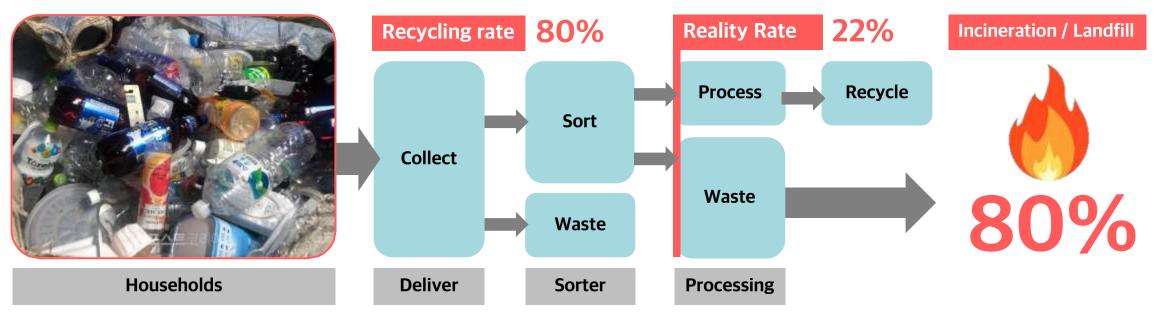


Consumers



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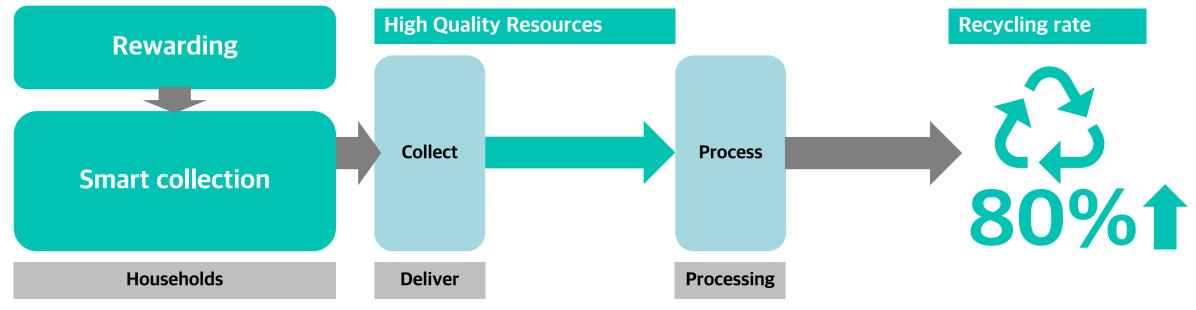
#### Unsorted disposals by users makes recycling unviable



\*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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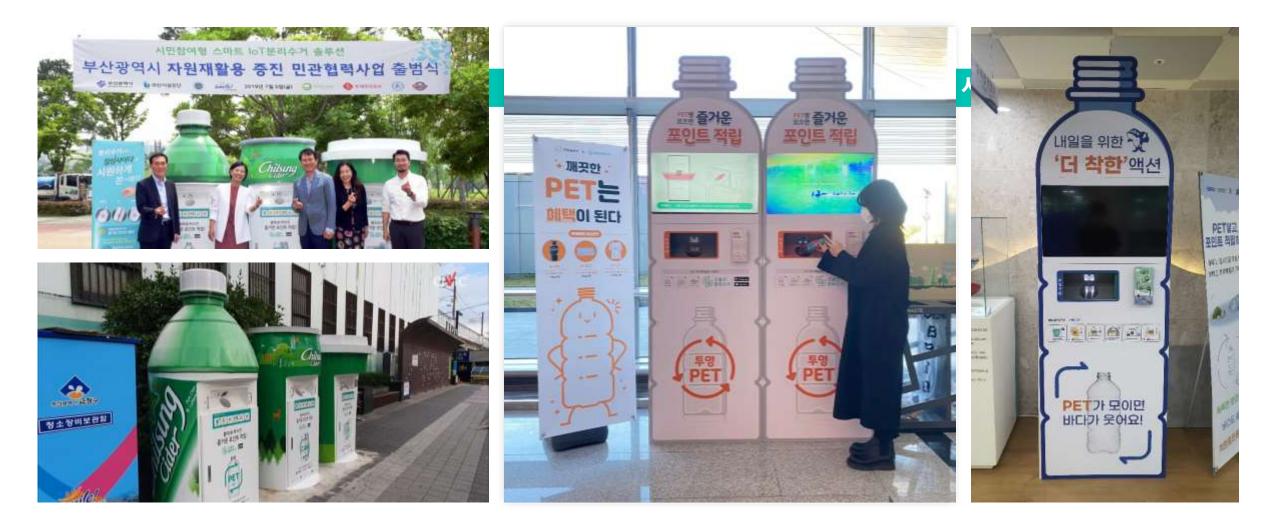
#### Kiosk collecting circulations closed to the life area



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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

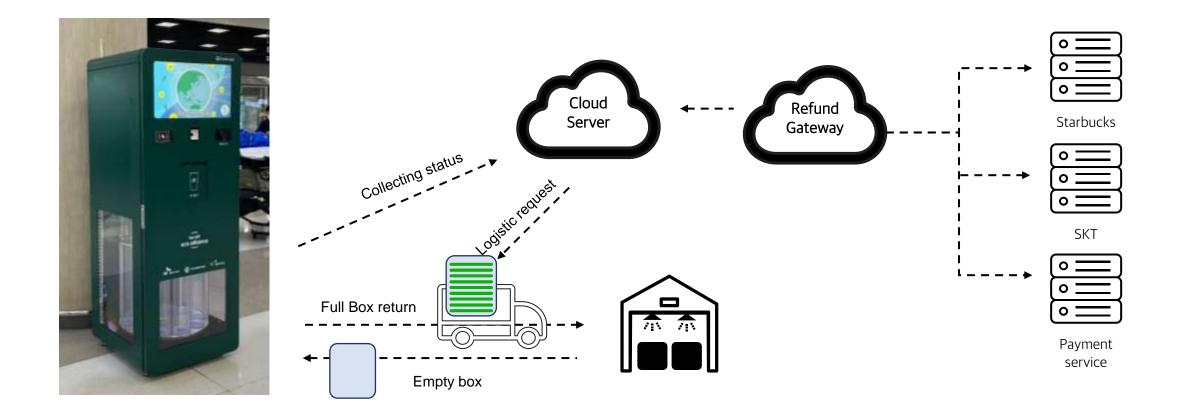








#### **Oysterable's Roll - Collecting machine and system structure**

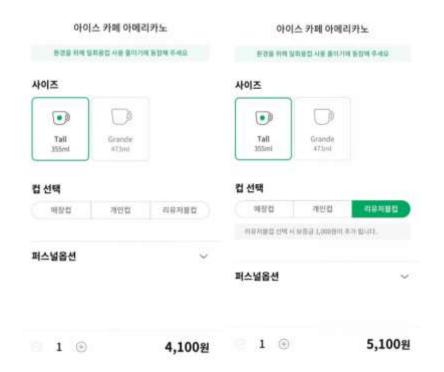






#### From Barista

#### From App



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#### 4 Case: Reusable Cup Project

#### Reusable cup





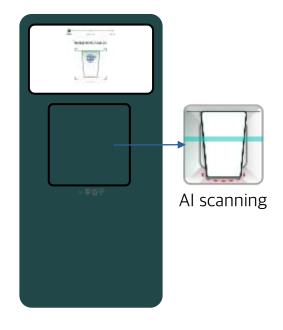
- Radius 92mm, Height 140mm
- PP Materials
- Same cup design with original Starbucks cup

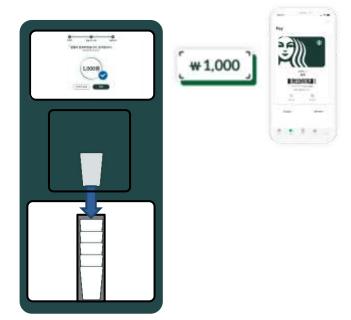


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#### **Collecting process**







Stacking

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#### 4 Case: Reusable Cup Project

#### Recognition and relearning of reusable cups through Cloud AI







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#### Positive

#### Negative

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#### **Refund Gateway API channel for convenient refunds**



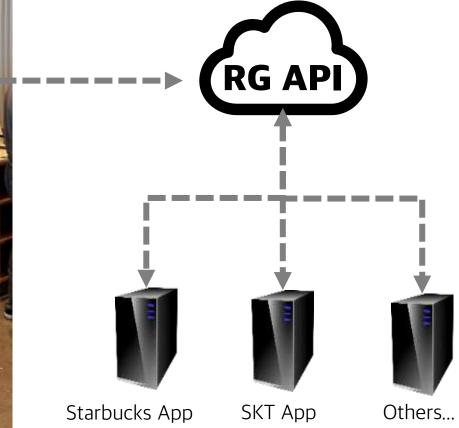
Phone number



Receipt



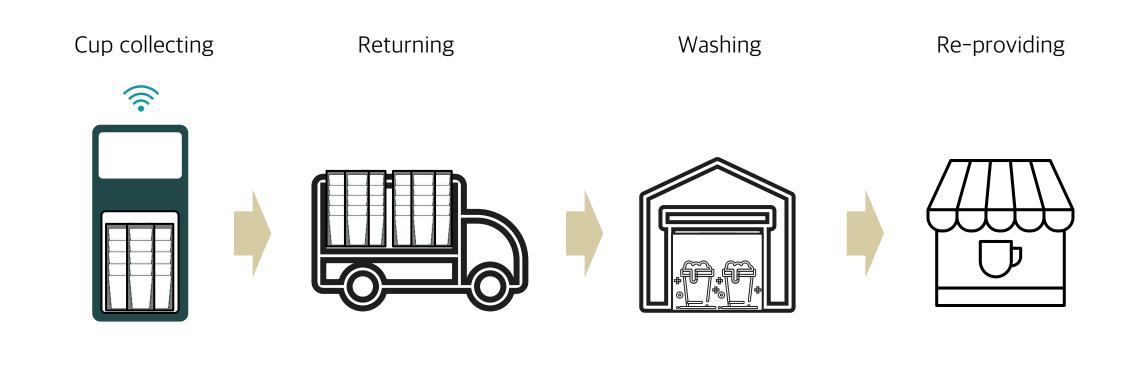
Refund gateway system





#### **Reusable Cup Circulation**

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#### Washing Center in Jeju

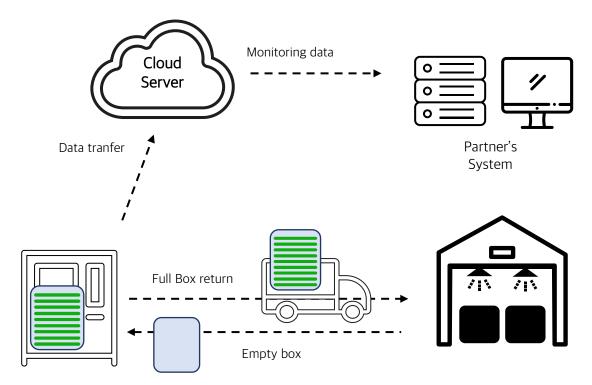


- Dodu-dong, Jeju-si
- Process to remove odor, discoloration, and oil
- International standard cleaning manual and hygiene standards





#### 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

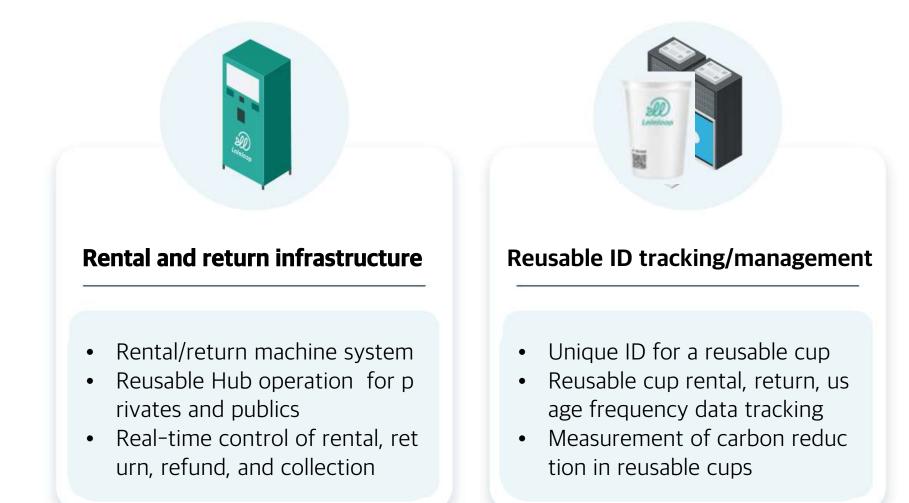


- Rent-a-cup and get discount in any cafe
- Be free from a tumbler carrying and washing
- Easy to go, easy to return with unmanned 24 /7 service
- Carbon neutral incentive available

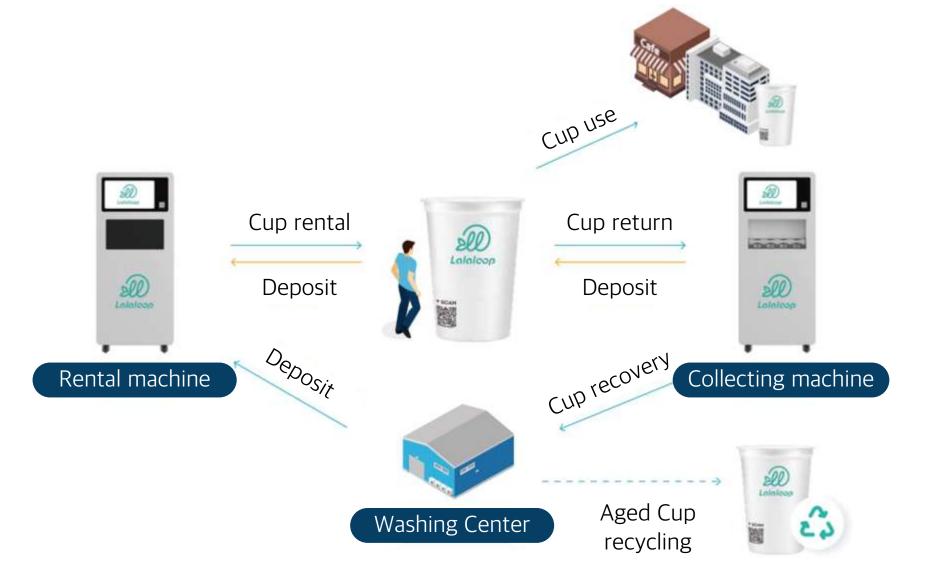
- The easiest way to start ESG action
- Plug and play solution for reusable cup
- Carbon neutral data calculation and incentive available
- Be free from reusable cup management

5 Next Step [Lalaloop Reusable Cup system]

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

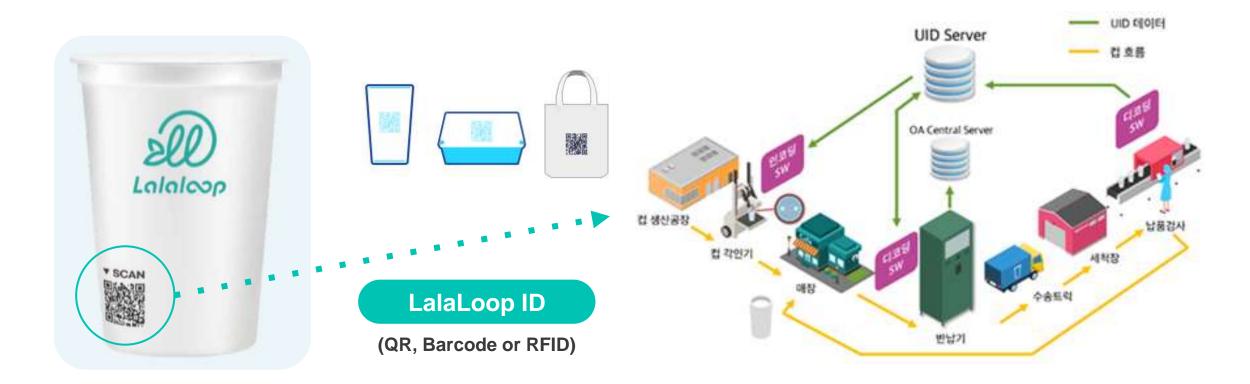


#### Focus on user not a cafe, for better and faster use and extension



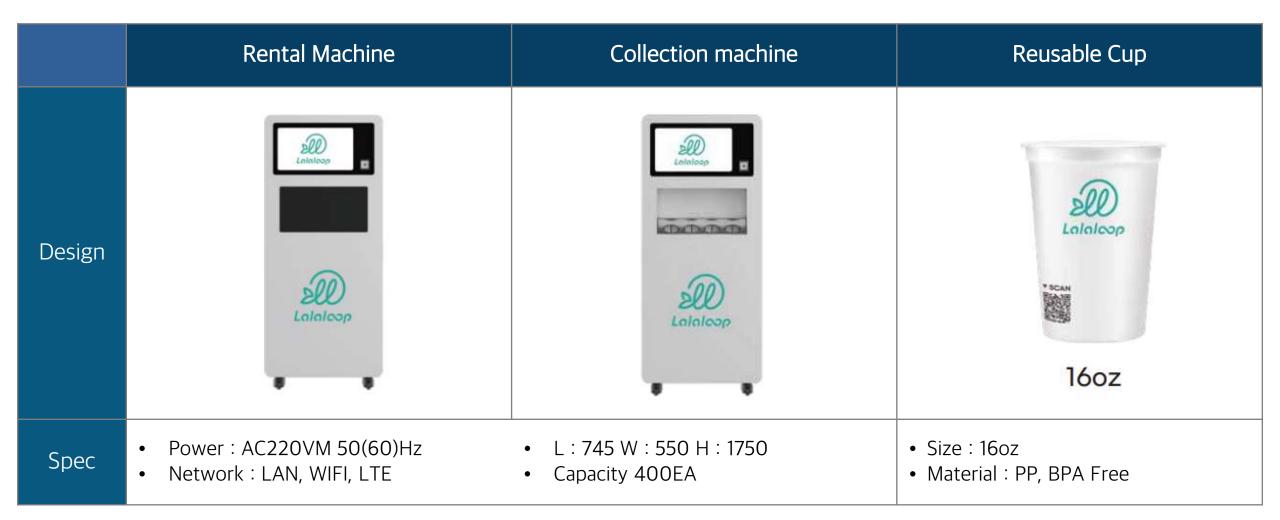


#### Track the entire flow of circular resources with LalaLoop ID





#### Holistic Unmanned Solution for Reusable cup circulation





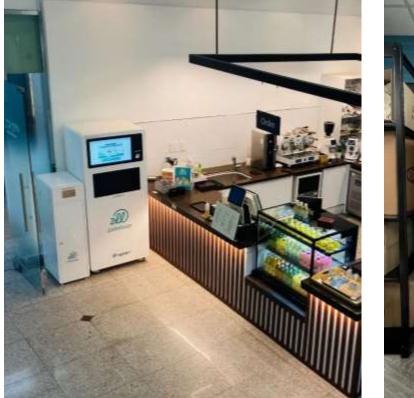
#### **Faster and Easier Process**





#### Faster extension with Seoul Government Subsidy





SR Suseo HQ Cafe



Hanhwa Energy Solution HQ

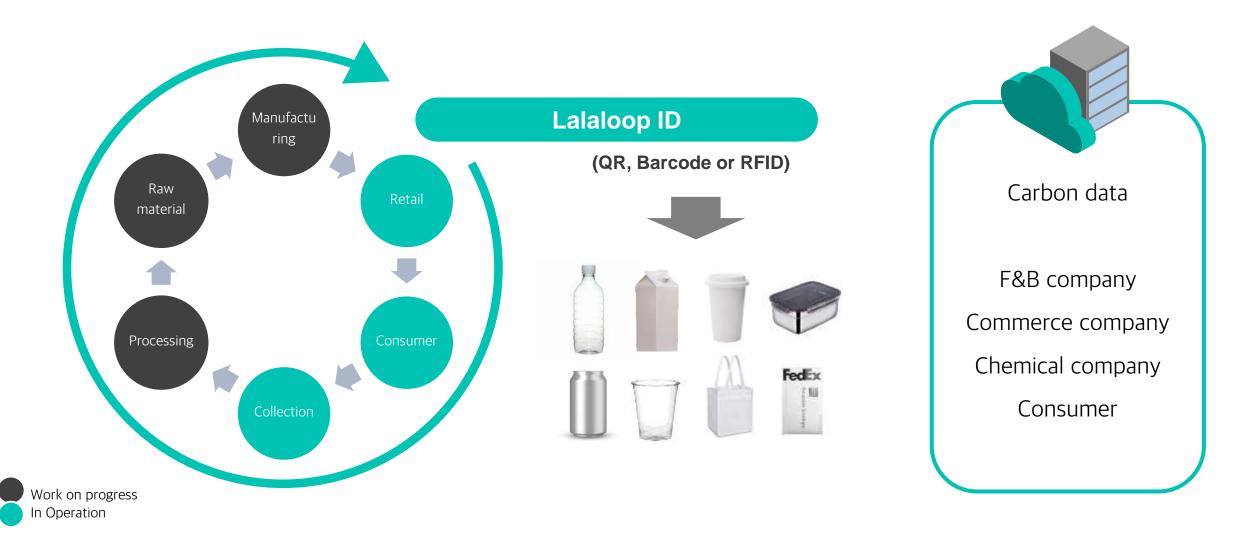


Seocho-Gu city hall cafe

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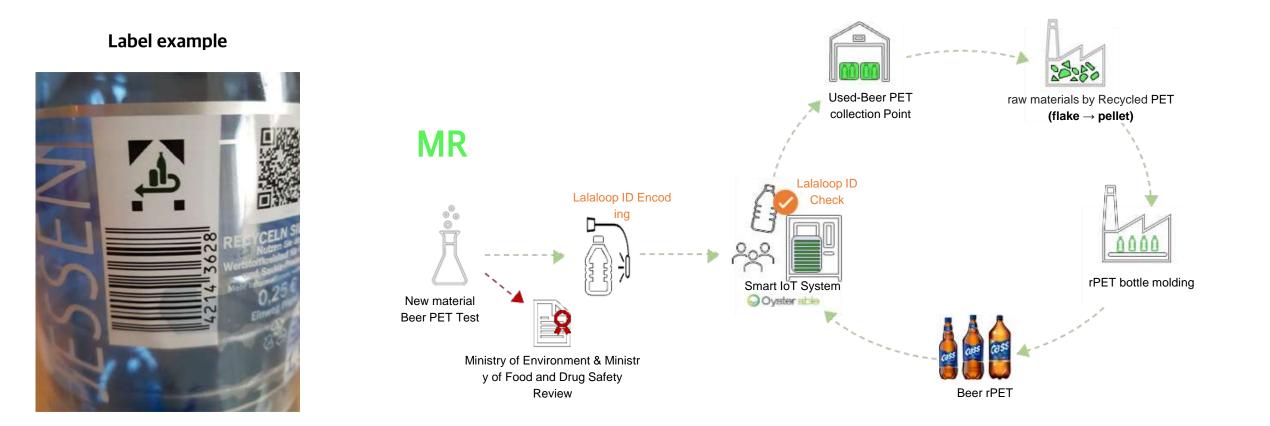
#### Lalaoop ID - Package LCA tracking solution for carbon neutral data





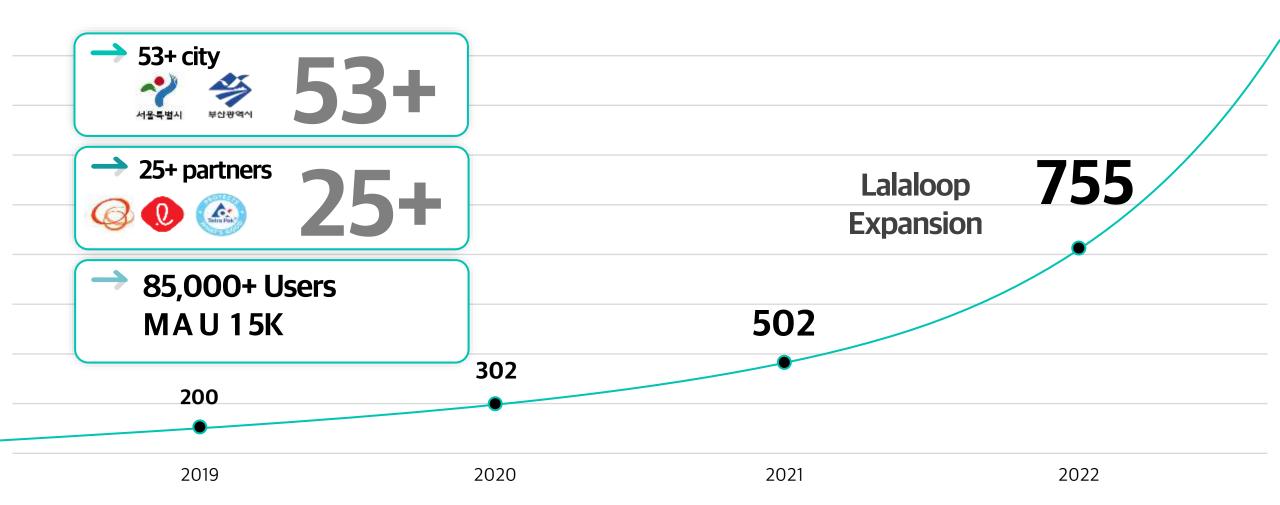
#### Build a PET RVM system with Lalaloop ID on label or bottle

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



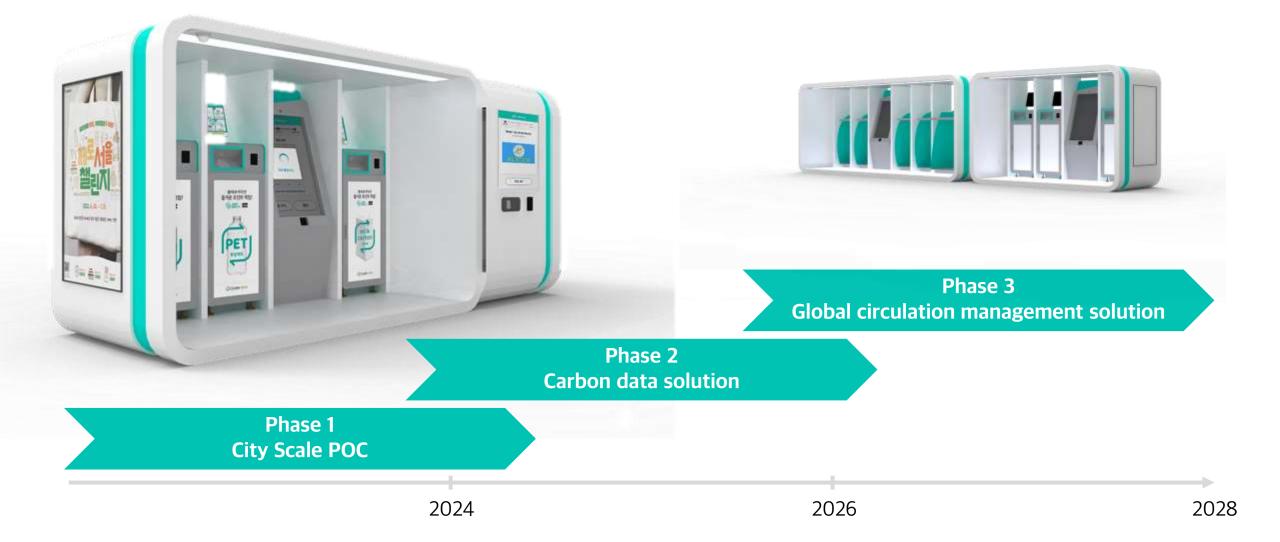


#### Recycling and reuse to reduce waste and carbon footprint





#### 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