

Speaker



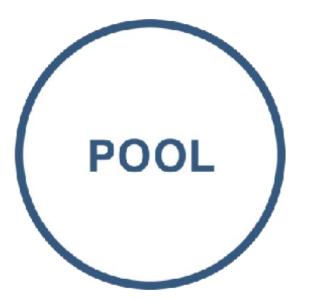
Ei Nozaki

Founder & CEO of RECOTECH

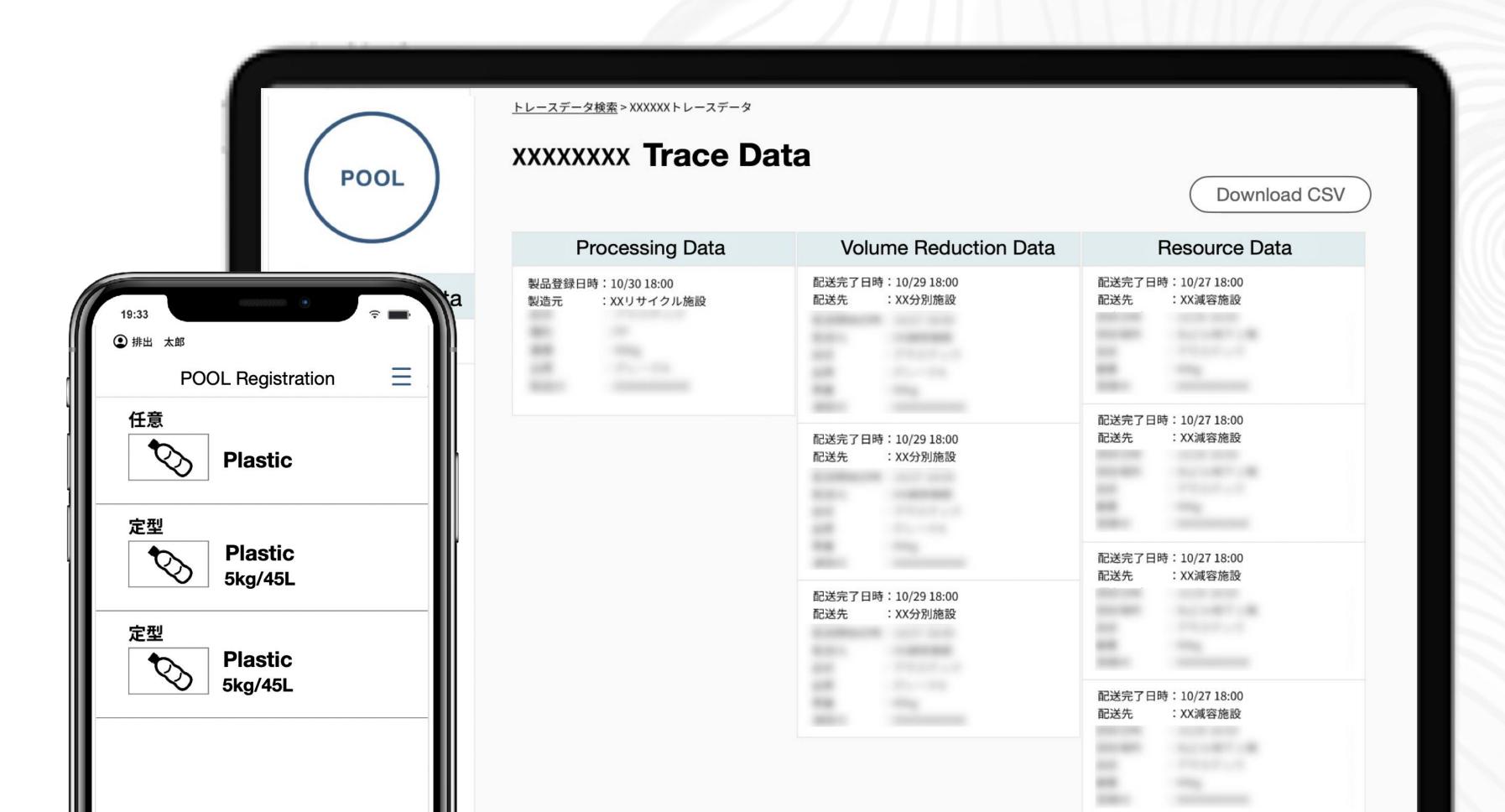
- Over 20 years of experience in the waste management and recycling industry
- Expertise in waste treatment and circulation in developing countries (working with JICA)
- Expert in plastic circulation in mega cities
- Developed POOL, a platform that allows manufacturers to procure waste as urban resources



Background

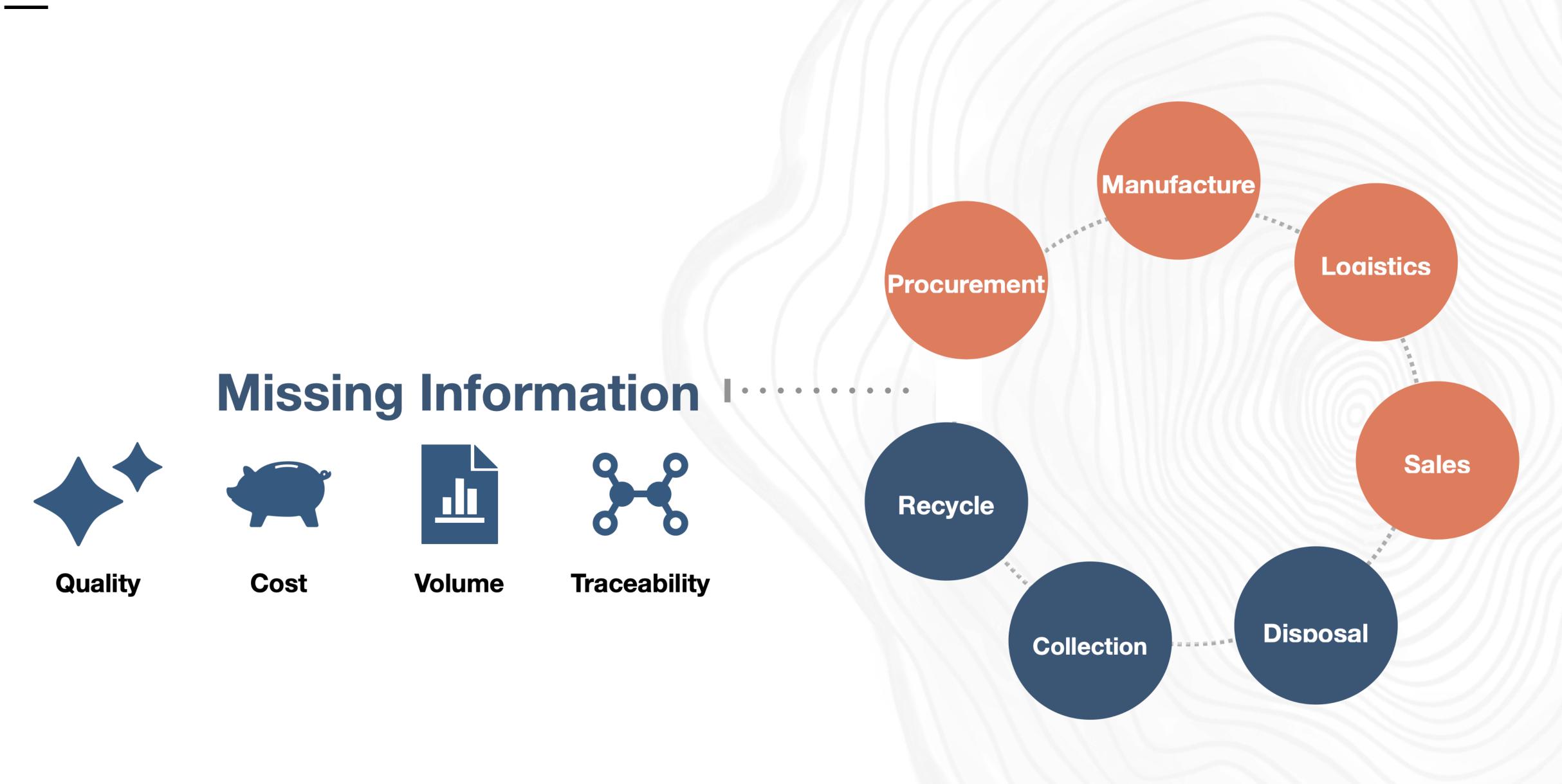


Urban Resource Circulation Platform





Background





How it works



How it works





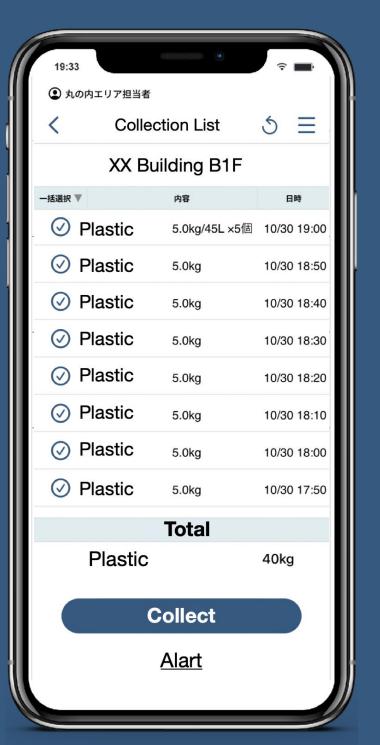
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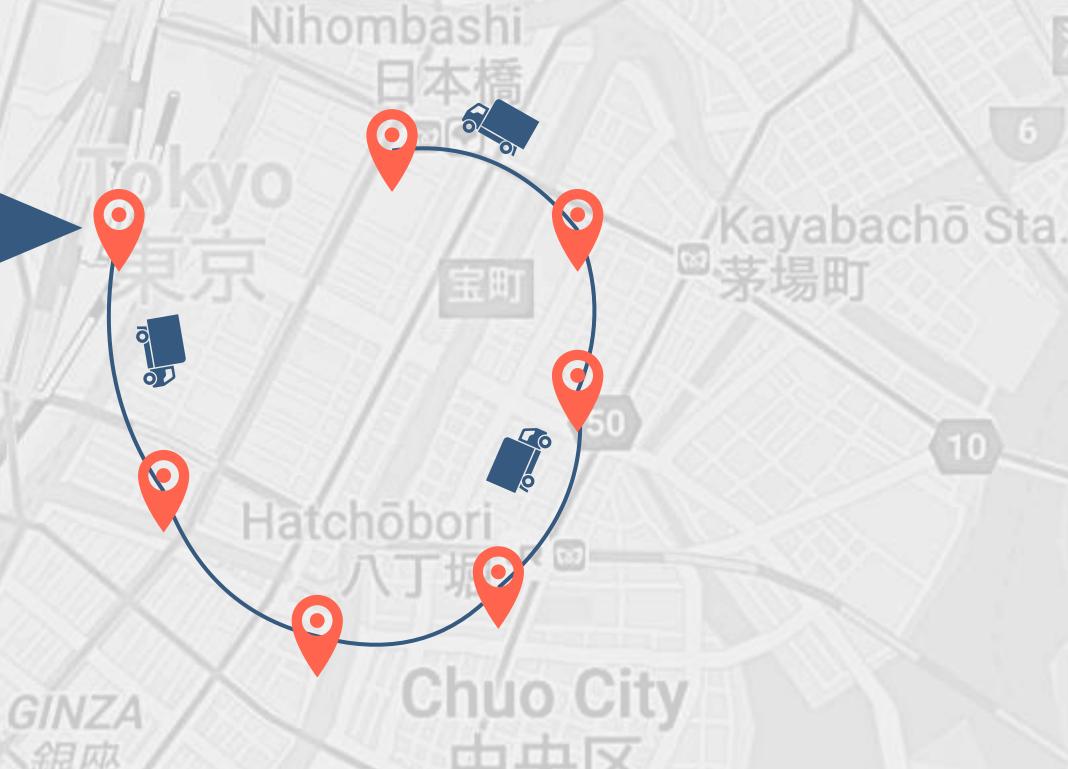


Resource Collection Requests



Collection Confirmation

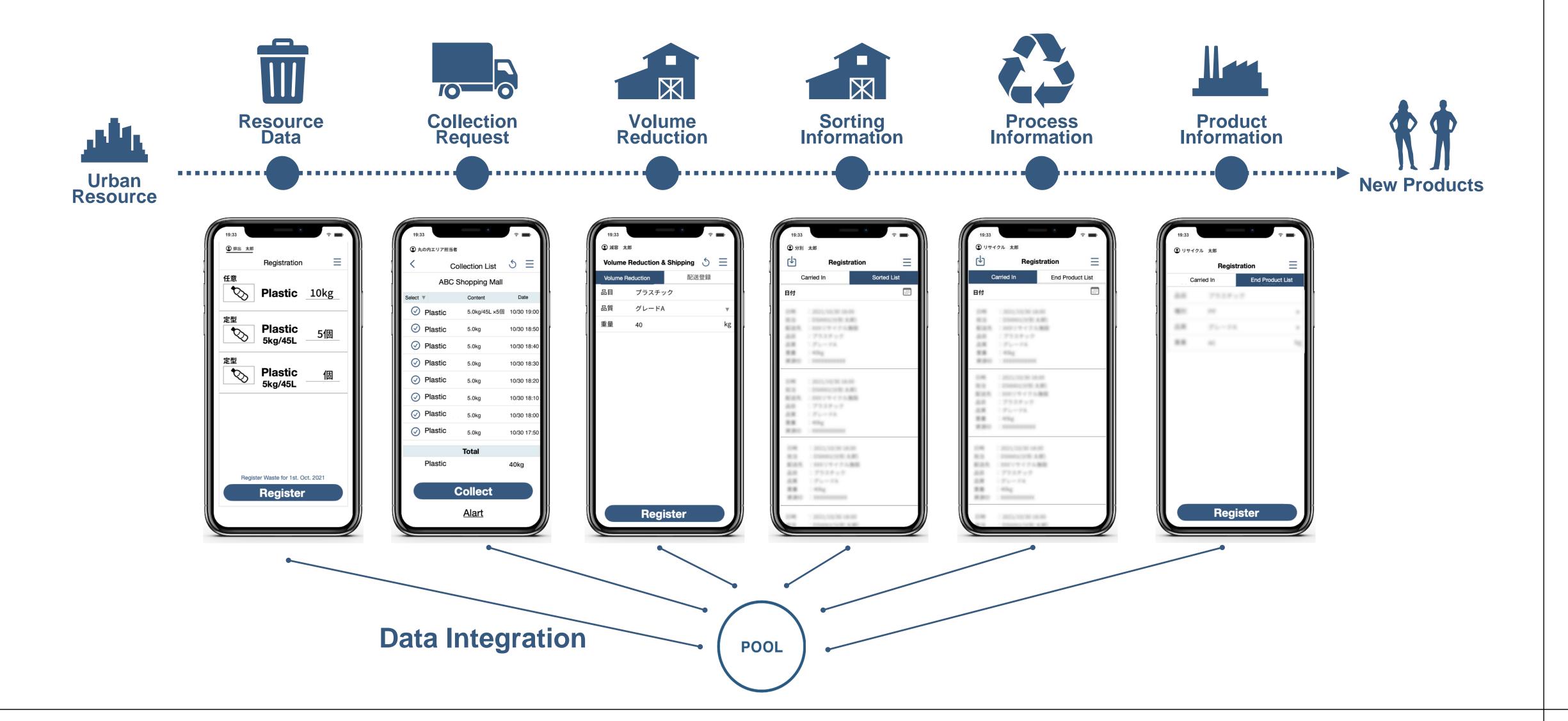




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POOL ensures traceability by Integrating Data Collected From Each Stakeholder Involved in the Recycling Chain





The final product's traced data can easily be managed and accessed on POOL while providing data on CO2 emissions





Case study





Project overview





Test potential use of PCR materials in manufacturers products

Kao Toppan

Mechanical recycling of plastic waste Chemical recycling test of dirty/multi-layered plastic

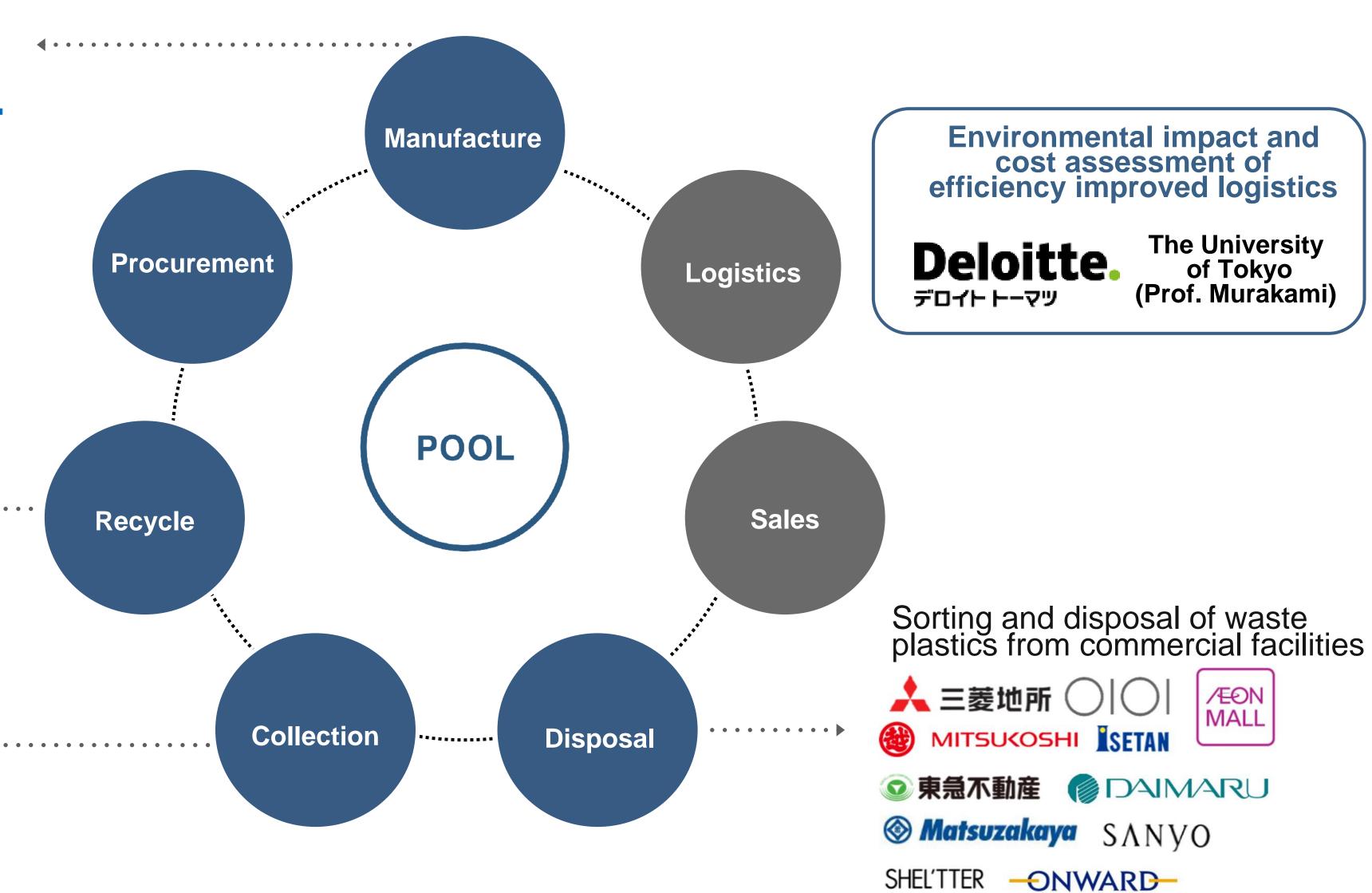




Collecting waste plastic in vehicles at the time of product delivery



東京納品代行株式会社











Target material







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Collection Target





Sort & register plastic







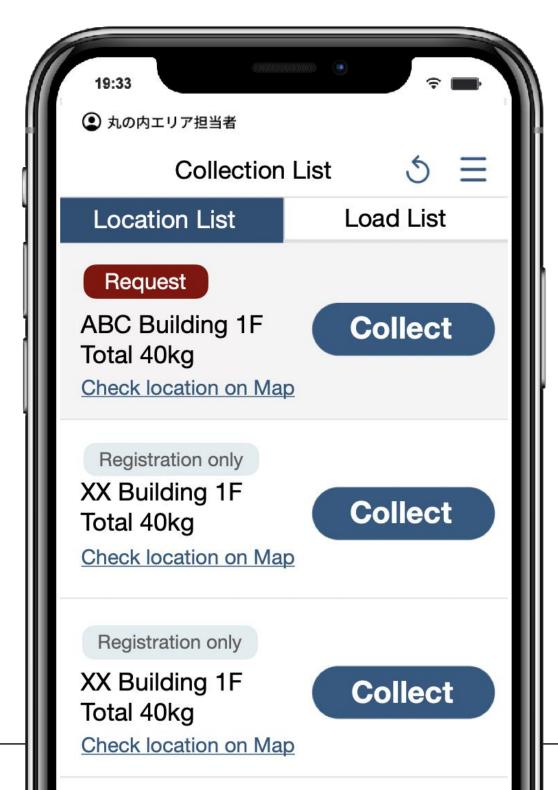


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Check collection requests, and input data



Compress, sort by grade and input data













Recycle and input quality data

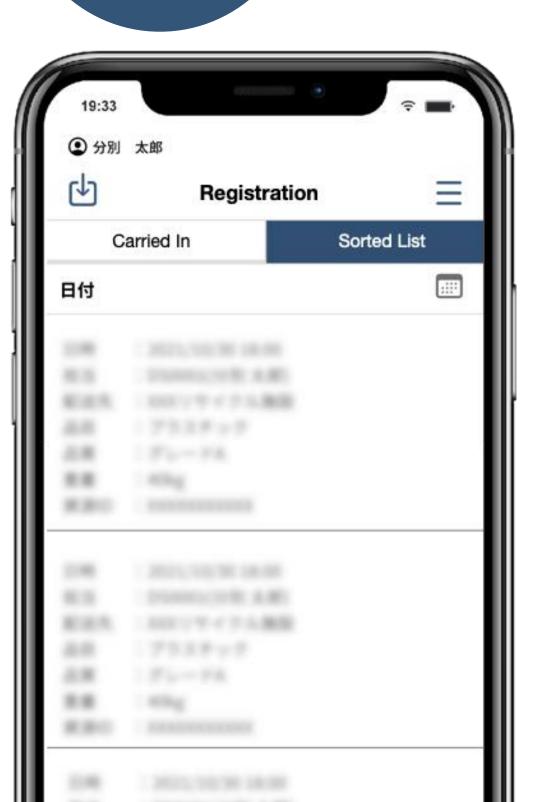
Kao Toppan

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Procure PCR material



- Quality
- Cost
- Waste prediction
- Traceability
- CO2 emissions



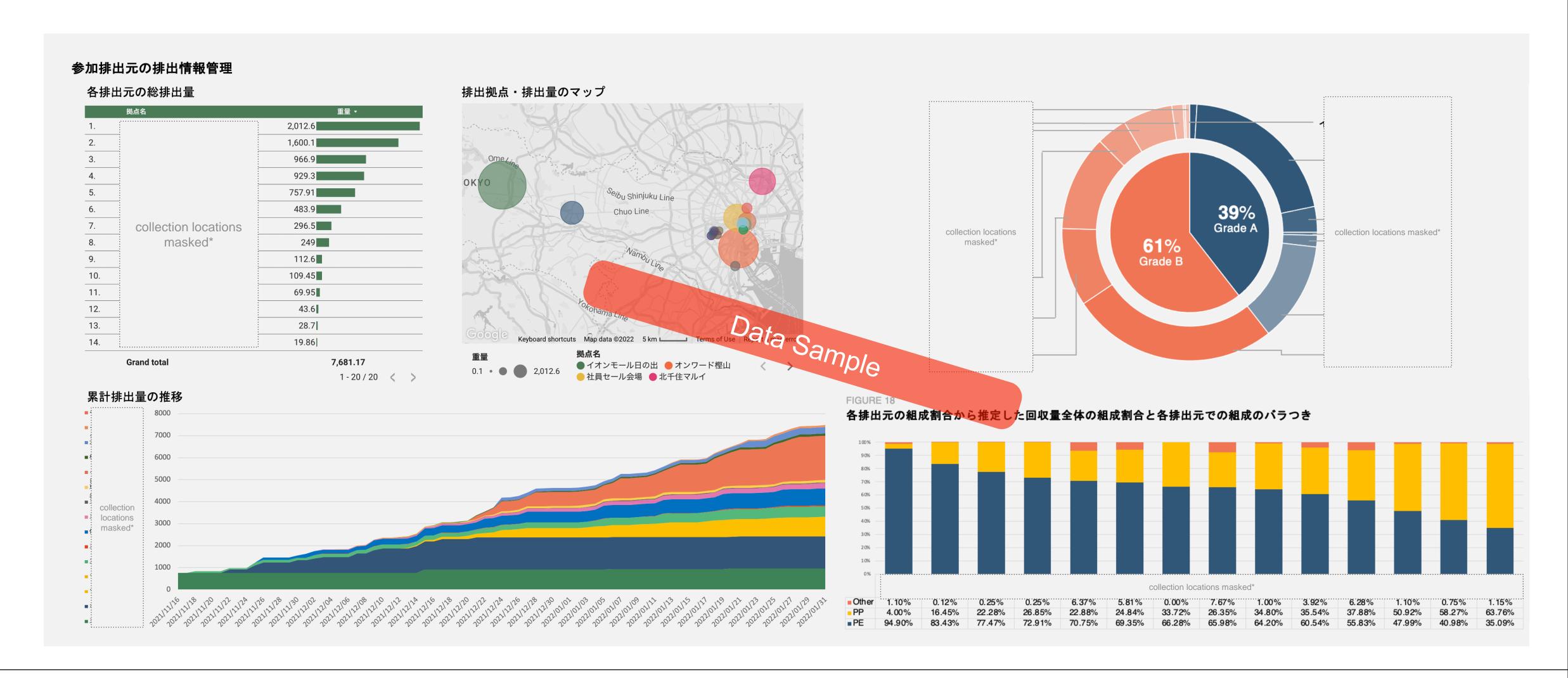




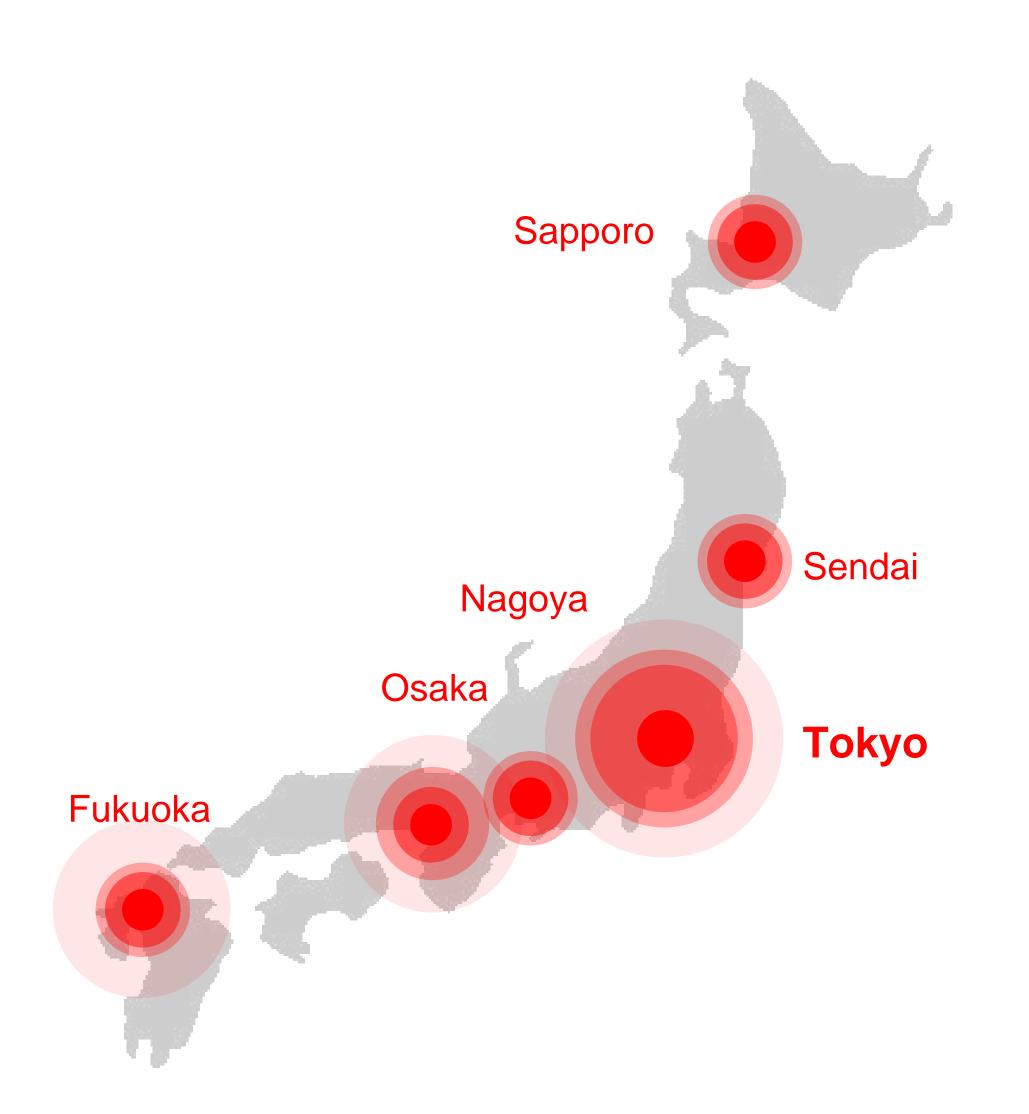
Findings

Q KKK

- Optimising collection and logistics, compression sites and recycling processes, reduces costs
- Providing sufficient data on quality and traceability, increases value of the recycled material
- Confirmed scalability and sustainability (environmental / economical)









- Expanding the project nationwide, starting from major cities in Japan
- Aim to divert 20,000 tonnes of plastic from incineration annually by 2026
- Expanding collection targets for chemical recycling facilities as well as mechanical recycling

Waste management and recycling costs money.

- Visualization for enabling enforcement of EPR
- Each stakeholder should be able to commit and bear the costs fairly
- Create a circulation model that is economically sustainable





Thank you for your attention.



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For more information:

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