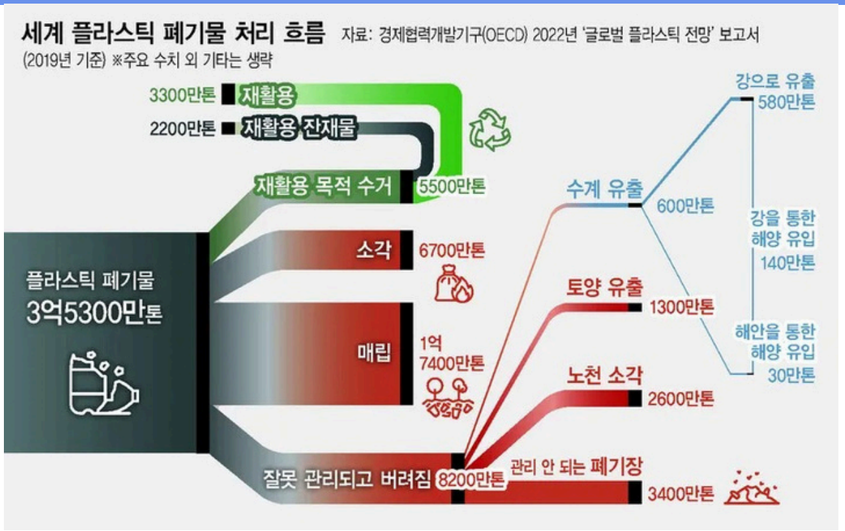
Redam

Project introduction

Redam is a platform that helps to classify recyclable waste for contamination and recycling by using an AI robot arm that has learned an object recognition model based on machine learning.

problem

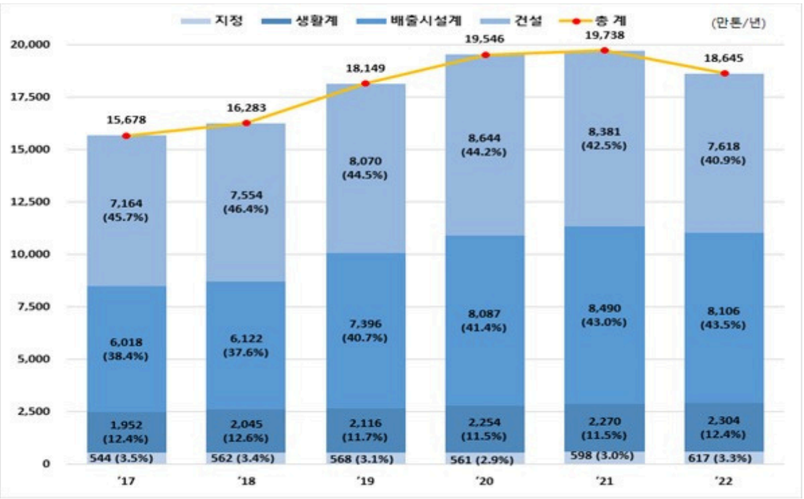


plastic processing flow

Most plastics cannot be recycled because they are difficult to sort and clean accurately.

waste generation

The amount of waste generated continues to increase



01

Main features

Redam

Automatic classification through object recognition

*accuracy97 % higher

In the midst of climate and environmental disasters, the technology to recycle waste is an AI convergence product that helps with AI recycling separation and collection through AI convergence technology.

accuracy97 % higher

Fire and Explosion Detection

Fire accidents that may occur due to not separating waste such as butane gas and used batteries that have a risk of explosion are protected through the explosive detection function.

Automatic classification and handling of hazardous waste

Plastic classification

Detailed classification by material

glass classification

Separated by color

Dangerous goods handling

Safe protocol operation

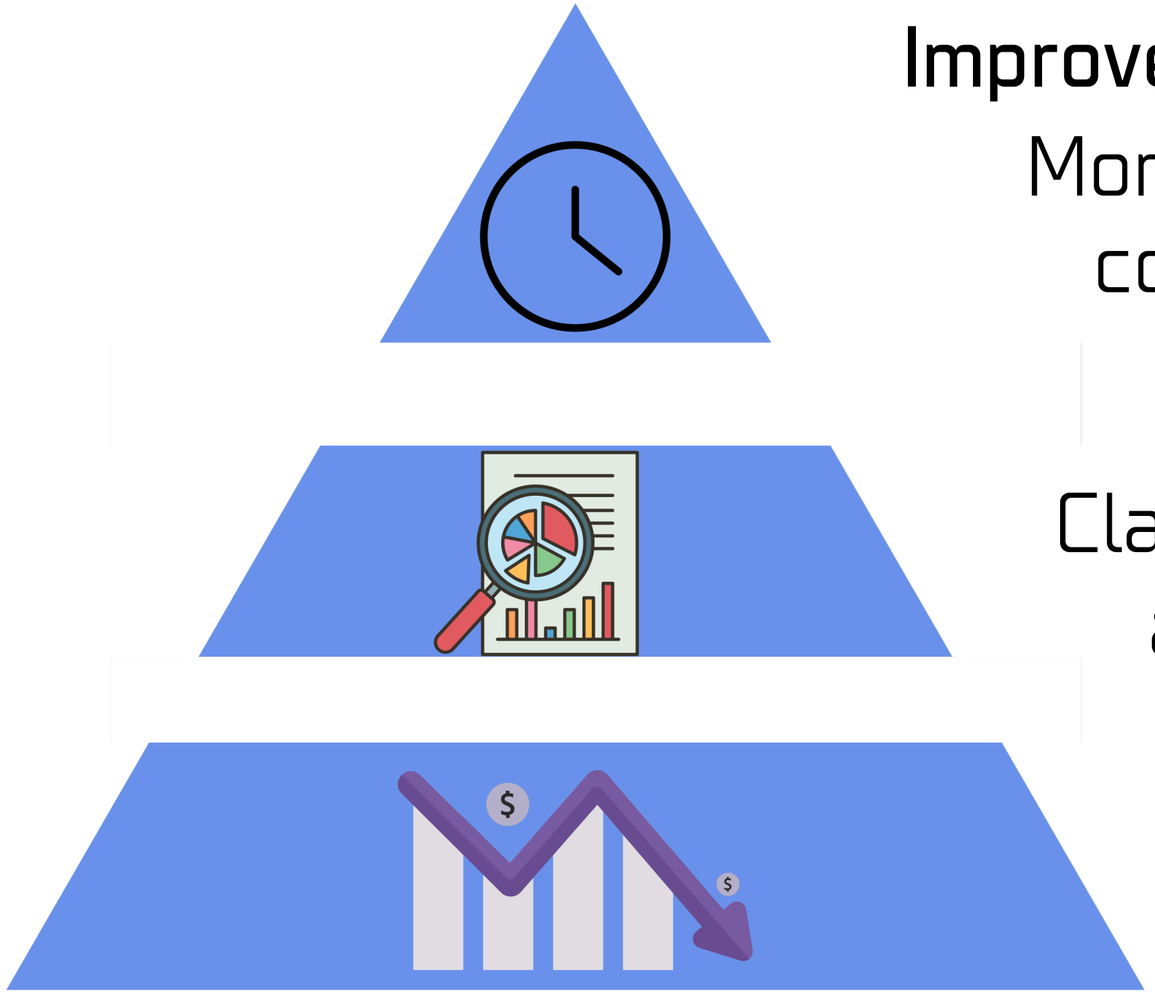
Can/Metal classification

Magnetic identification and classification

The ReDAM system uses an AI robotic arm trained on tens of thousands of recycled images. Real-time image recognition and classification of hazardous materials.

02

Expected effects



Improved recycling separation speed

More than 3 times faster than conventional manual work

Increased accuracy

Classified as performance with accuracy of 97% or higher

cost reduction

Reduce labor costs by more than 30%

Thank you