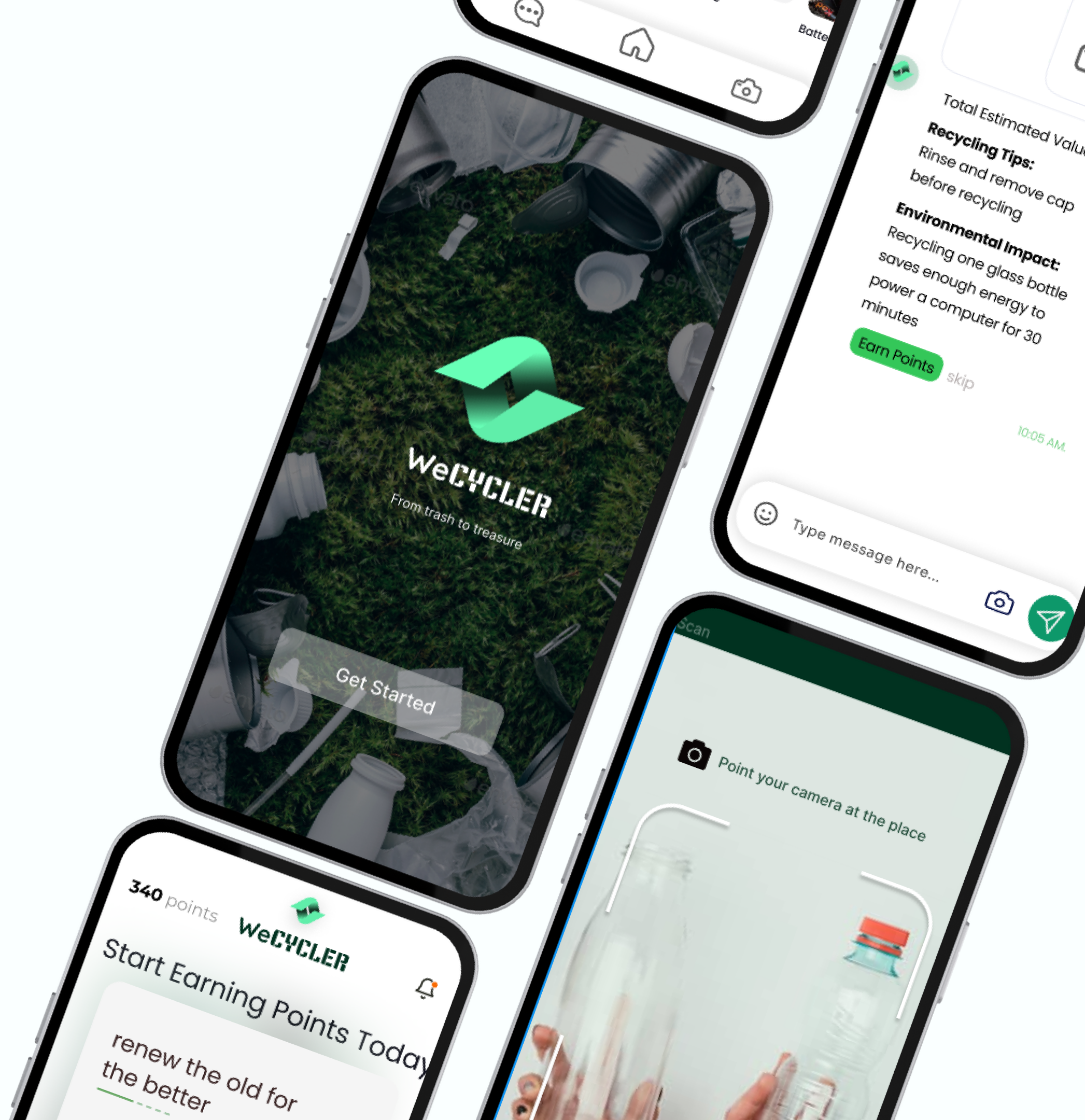


# FINAL PICKDECK

WECYCLER

FROM TRASH TO TREASURE



# PROBLEM

Many households and businesses generate a significant amount of waste **but often lack an efficient way to sort and repurpose it**

**Hiring professional waste management services for this purpose can be an additional expense, making the process less cost-effective.**

# SOLUTION

AI-powered chatbot application designed to support users in the recycling process.

**SAVE  
MONEY**

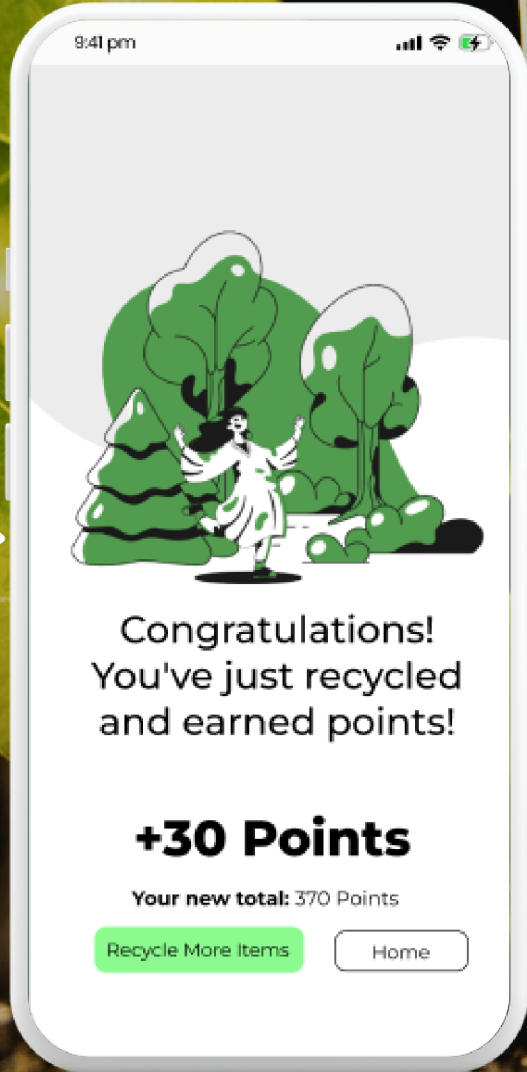
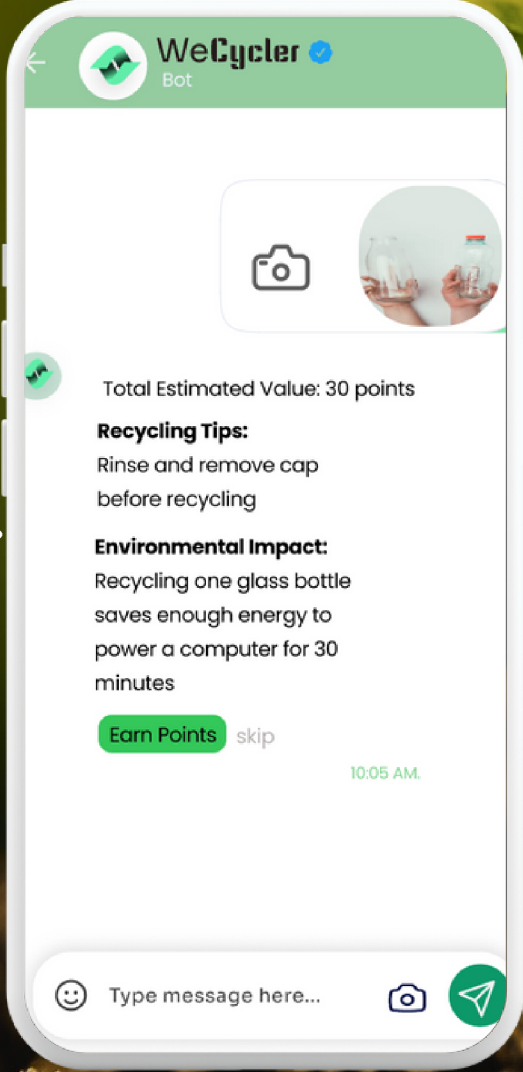
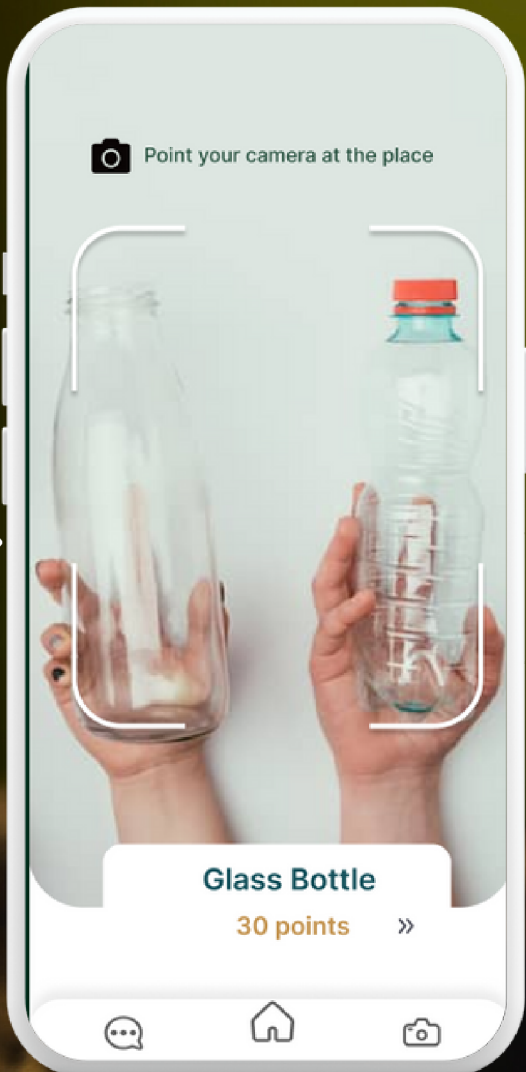
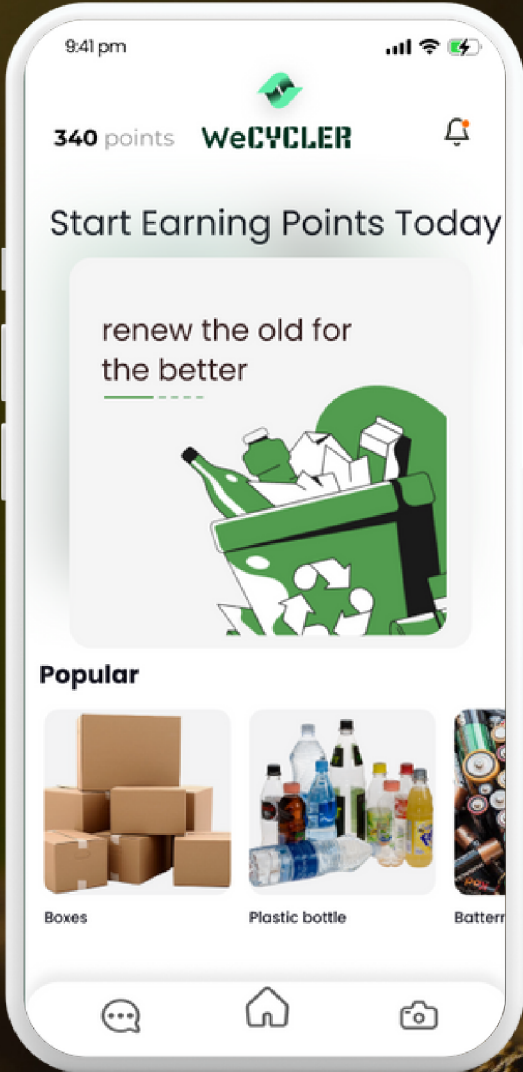
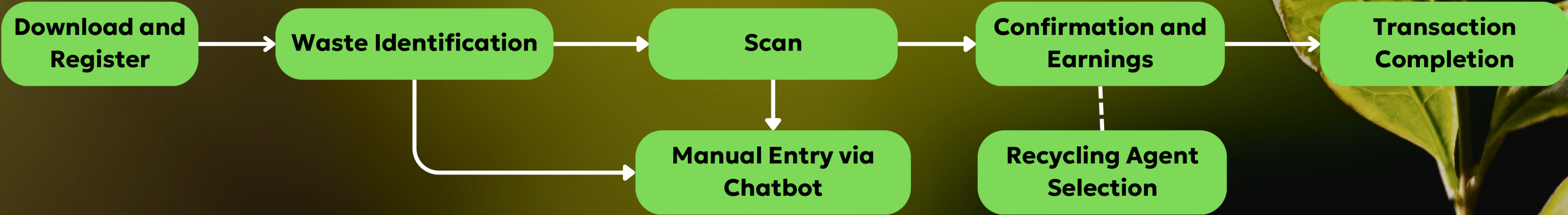
Auto Recycle-bility  
Identification

**MAKE  
MONEY**

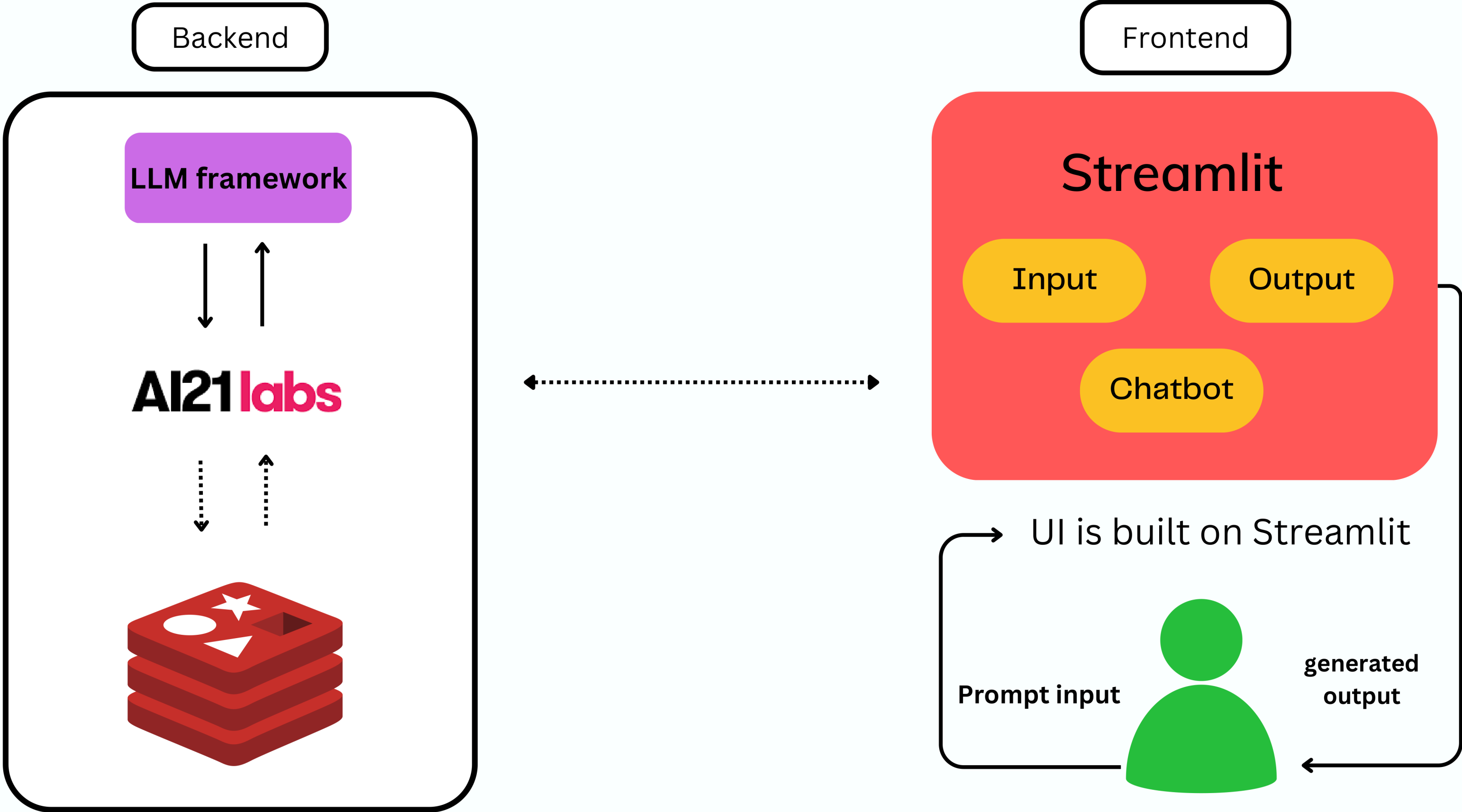
Selling and buying used  
products with ease

**TINDER FOR USED PRODUCTS**

simplified customer journey



# System Architecture



# MARKET VALIDATION

66%

global consumers desire  
buying recycled goods

Source: Sustainable Brands Forum 2018

9,7 billion

for the market of  
waste management software

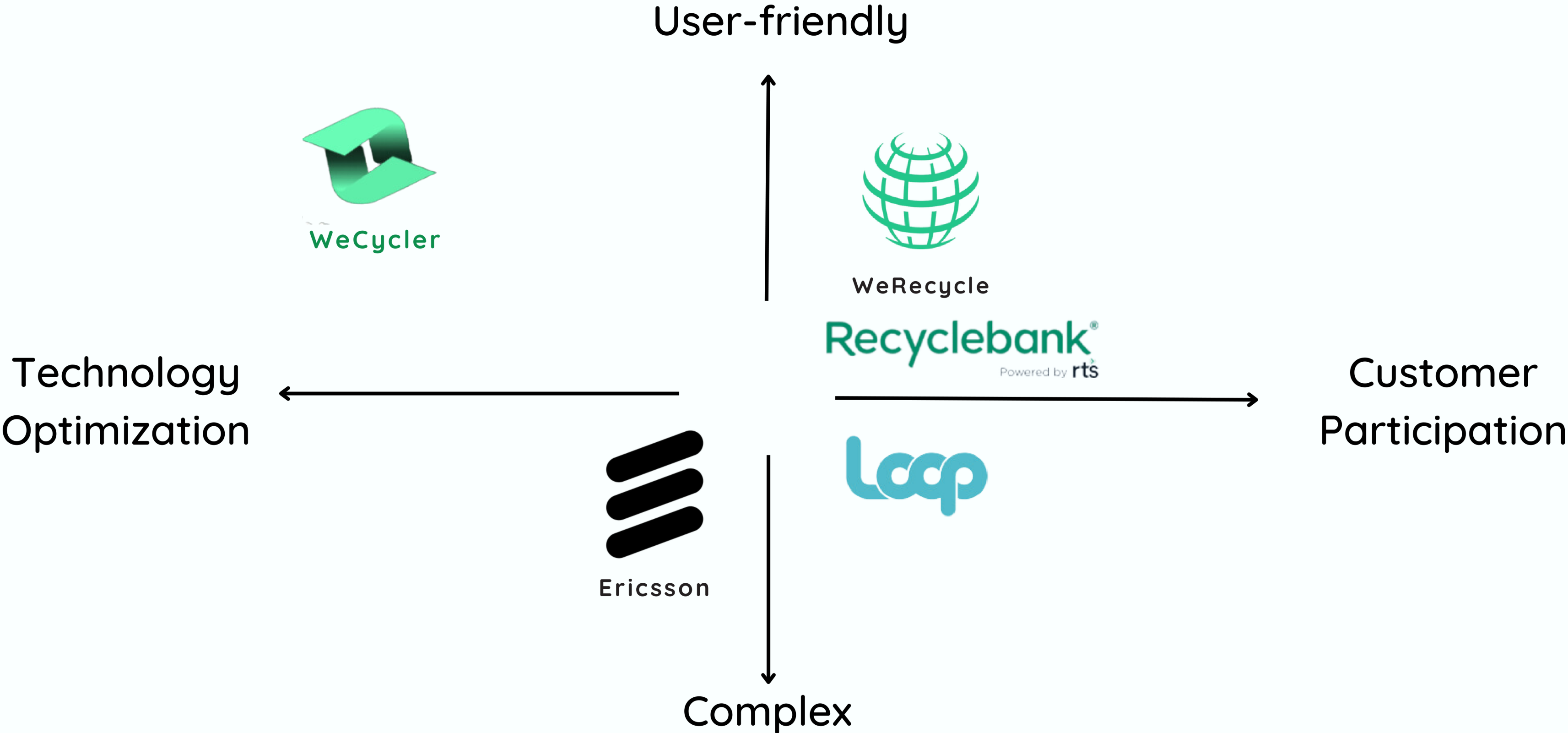
Source: VerifiedMarketResearch

62%

for technology adoption  
and digitalization

Source: IMF

# COMPETITIVE LANDSCAPE



# COMPETITIVE ADVANTAGES

Provide **financial incentives** to consumers

**Powered-AI chatbot** based on recycling criterion that

- examine waste
- give accurate price



- **Optimize cost** for recycling companies
- **Maximize benefits** for consumers

- Eliminate price difference
- Enhance speed of **Waste Intermediaries**



# Future Enhancements

## Advanced Image Recognition

More accurate waste scanning

## Sustainability Dashboard

Personal impact tracking

Smarter pricing and waste examination

## AI Learning and Adaptation



# Supporting Materials

As a product within the AI21 ecosystem, wecycleAI will be able to expand to other domains and offer more intelligent and efficient waste classification



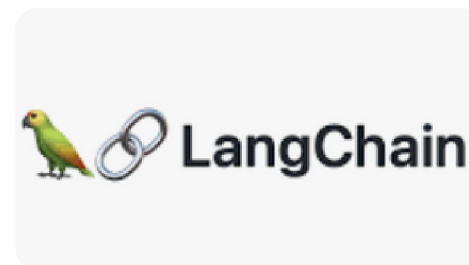
## AI21

AI21 labs is an AI lab & product company whose mission is to reimagine the way we read and write by making the machine a thought partner to humans.



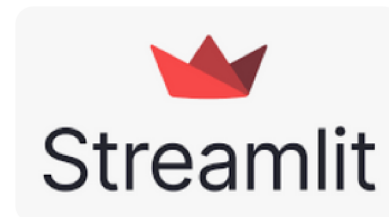
## Redis

Redis is an in-memory data structure store, used as a distributed, in-memory key-value database, cache and message brokers



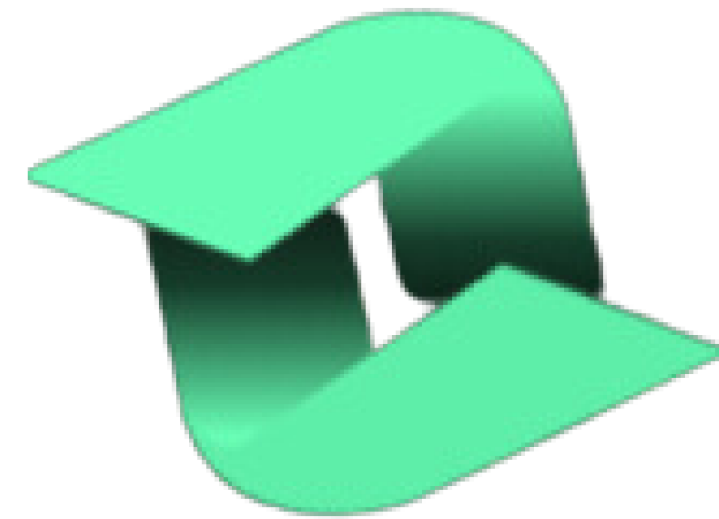
## Langchain

langchain is a framework designed to simplify the creation of applications using large language models including document analysis and summarization, chatbots...



## Streamlit

Streamlit is an open-source app framework for Machine Learning and Data Science teams. Create beautiful web apps in minutes.



At the core of our application is AI21,,It enables our application to interpret and understand the nature of the waste from user descriptions and image analysis.

Redis is used for caching and speeding up interactions within our application. It allows us to store and retrieve user data and system information quickly and efficiently.

The user-friendly interface of our application is powered by Streamlit. Our users can interact with the application easily, upload images for waste classification, input details

# OUR TEAM



## NGUYEN TRAN

Foreign Trade University - VN

- Winner at Hackyouth Hackathon 2023
- 1st Runner-up at Oraichain Hackathon 2023
- Merit award at Hong Kong Polyhack
- Co-founder of [AI Enthusiasts Facebook Group](#) (131,2k members)



## HIEN PHAN

Ton Duc Thang University - Vietnam

- 1st Runner-up at Oraichain Hackathon 2023
- A.I Researcher at [NLP TDTU](#)
- Merit award at Hong Kong Polyhack



## HIEU NGUYEN

Ton Duc Thang University - Vietnam

- A.I Researcher at [NLP TDTU](#)
- Software architecture enthusiast