

From Waste to Insight: AI-Powered Intelligence for the Circular Economy

AI and data collection for the waste management industry.

01 The Waste Crisis in Asia-Pacific



~80% of ocean plastic leakage comes from Asia-Pacific



Waste generation in Asia is expected to increase by over 50% by 2050

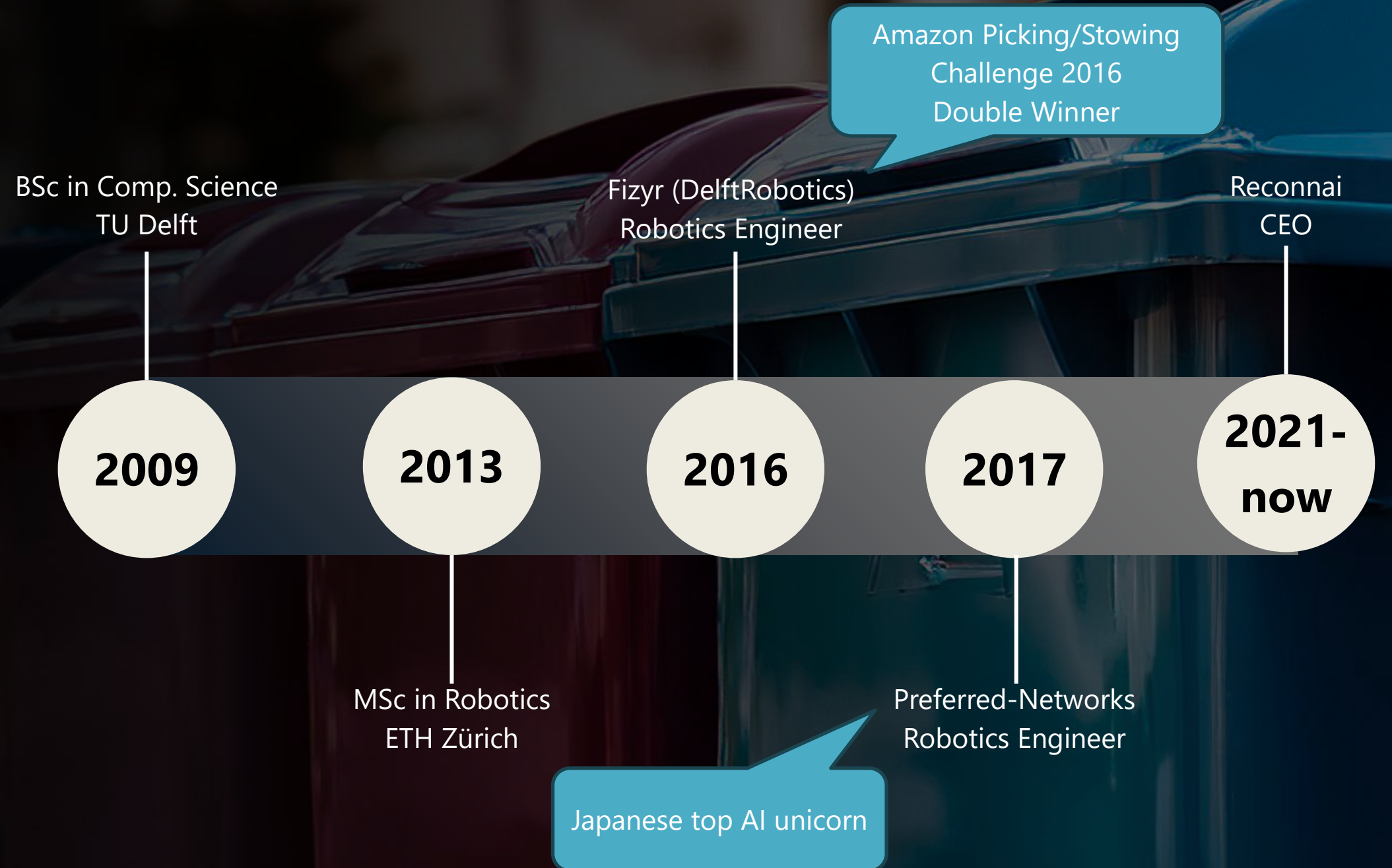


Up to 40-60% of waste in many APAC cities is mismanaged.

Asia's waste crisis isn't coming – it's here.

We either build the systems to solve it, or pay the price.

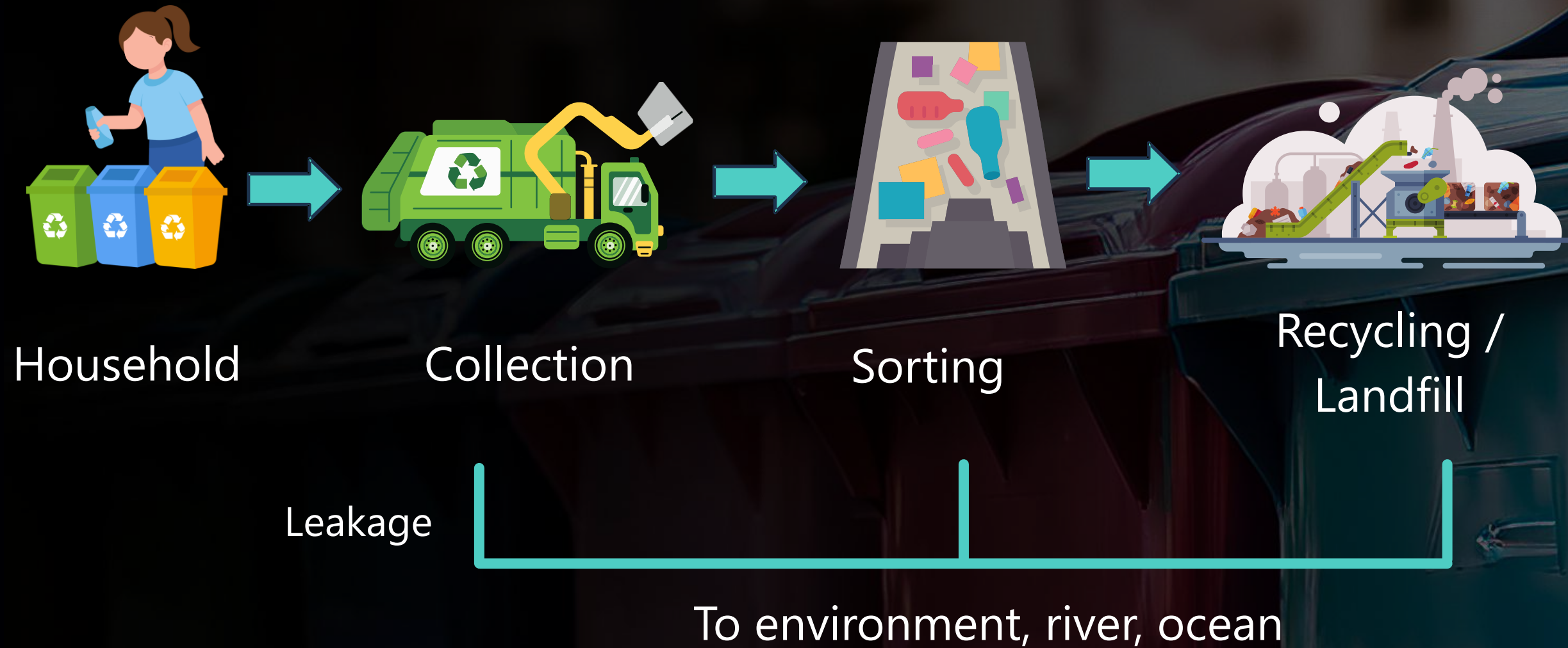
02 About Wilson



03 Reconnai Introduction

We automate waste **data logging** and **reporting** through innovative **AI and intuitive UX**, and transform that data into clear metrics for tracking **circularity, emissions, and recovery performance.**

04 Waste Systems Operating Without Data



What is the **composition**? · Where does it **go**? · How much is **leaking**?

ACCURATE DATA MISSING

05 Step 1: Scan and Digitize Waste



Visit <https://reconnai.com/prototype> to see the video!

05 Step 1: Scan and Digitize Waste



Digital Waste Scanner

AI-powered waste reporting

- **What it is:**

AI camera that hooks onto your existing scale. No new hardware, no workflow changes. Instant, automatic reporting.

- **Who it's for:**

Waste operators, recyclers, hotels, malls, residential etc.

- **Why it matters:**

70% faster reporting · est. **43%** cost reduction
Avoid fines. Collect real-world data.

06 Case Studies: Indonesia

Community-based waste collection hub



2 deployments:

- 📍 **Ciamis — Government facility**
- 📍 **Banyuwangi — Private facility, Java coastline**

How it works:

Operators scan waste during collection & sorting - data flows automatically

Results:

Reporting cut from 10 min → 3.5 min



Pemerintah
Kabupaten
Ciamis



PLABS.ID

07 Potential Case: Adaptable Across Asia-Pacific



City-level infrastructure

Decentralized / Informal Waste System

Limited infrastructure / island contexts

Why it matters here

- Trace, reduce & optimize waste flows
- Cut waste management opex
- Boost tourism & hospitality appeal
- Meet ESG & EPR reporting requirements

Where it fits

Hotels · Resorts · Islands · MRFs · Cities · Beaches

Built for APAC realities

Works with informal workflows, minimal training, low-resource settings

Start with one site. Scale across the waste system.

08 Waste Scanner PoC prices

Hassle-free,
recommended!

Tech validation

Best for: AI accuracy check only
Price incl. hardware

We do:

- Software setup + remote support

You do:

- Order hardware (we guide sourcing)
- Install + test onsite

KPIs:

- AI accuracy · data input speed

1500
USD

Proof of Value

Best for: Validating real product value

We do:

- Run on-site PoC end-to-end
- ESG tracker API integration
- Optimize AI + UX, report results

You do:

- Choose site + appoint tech contact

KPIs:

- Accuracy · adoption · usability

4000
USD

Scale-readiness Study

Best for: Preparing multi-site rollout

We do:

- Full PoV + production deployment
- Stress-test across sites + conditions

You do:

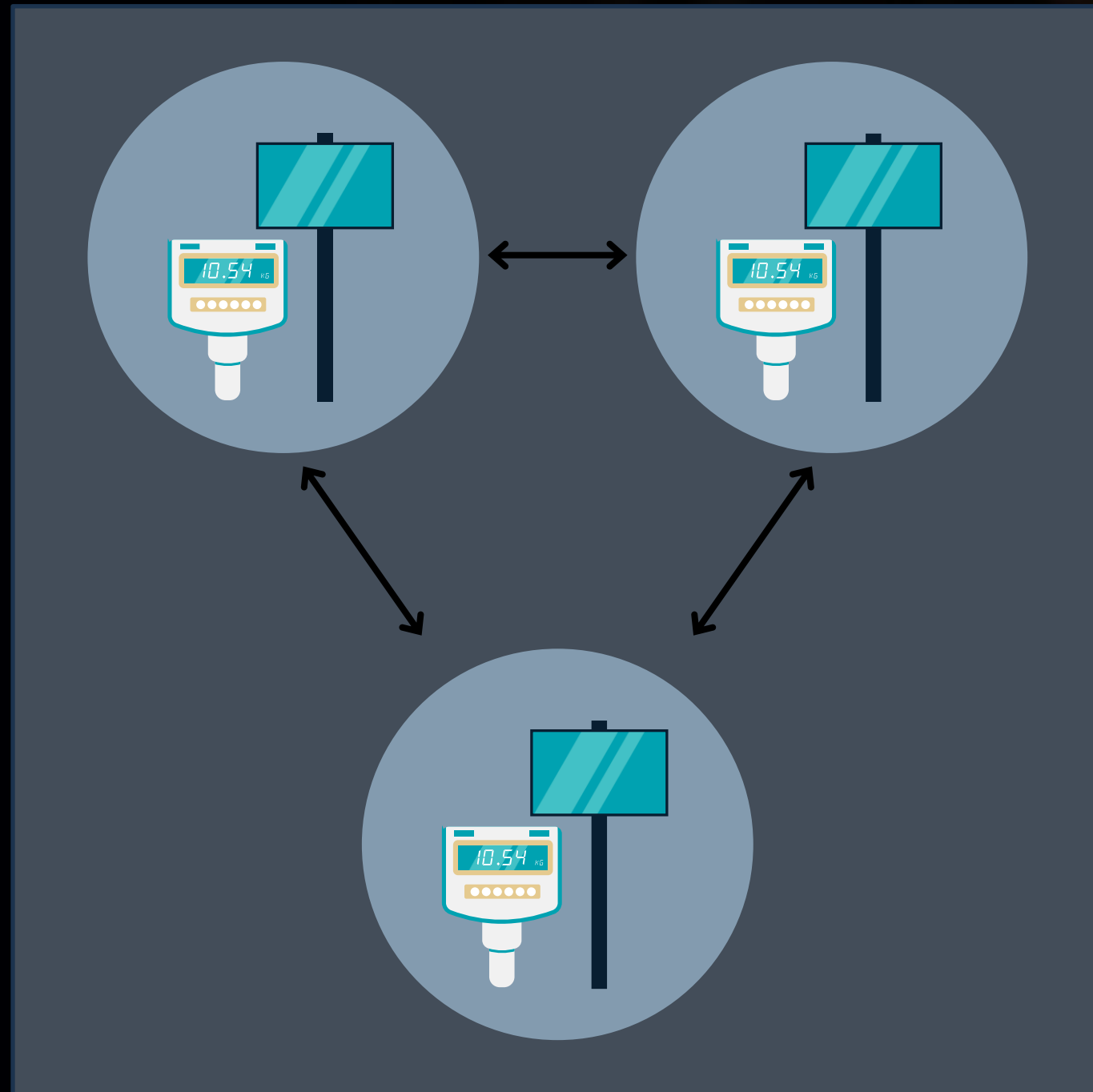
- Align on rollout goals

KPIs:

- Stability · cross-site consistency

9000
USD

09 Step 2: Analyze Scanned Waste



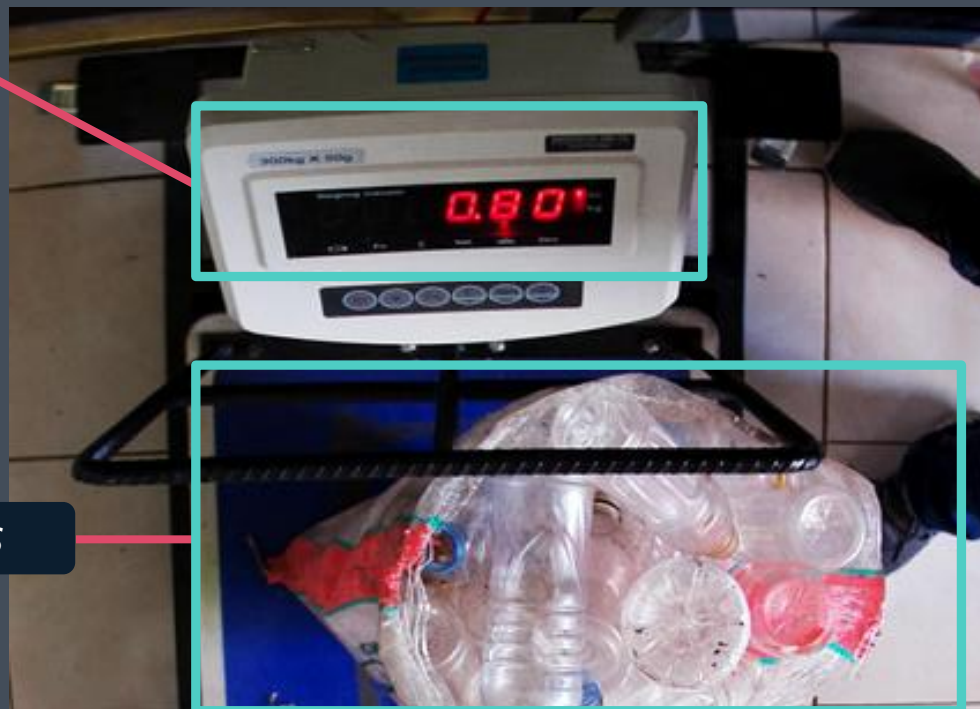
EcoFlow AI

Network-Level Waste Intelligence Platform

- **What it is:**
Network of waste scanners + analytics / intelligence layer.
- **Who it's for:**
Governments, FMCGs, chain operators, malls.
- **Why it matters:**
Helps track waste flow, analyze consumption/disposal patterns adding insights and statistics to waste reports.

10 Step 3: Learn and improve the AI

0.80



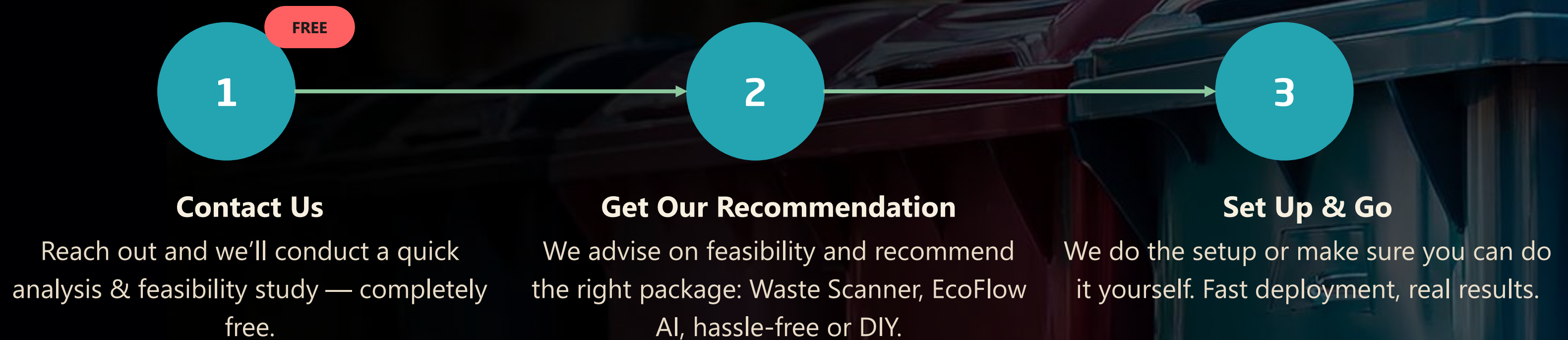
PET bottles

DCAAS

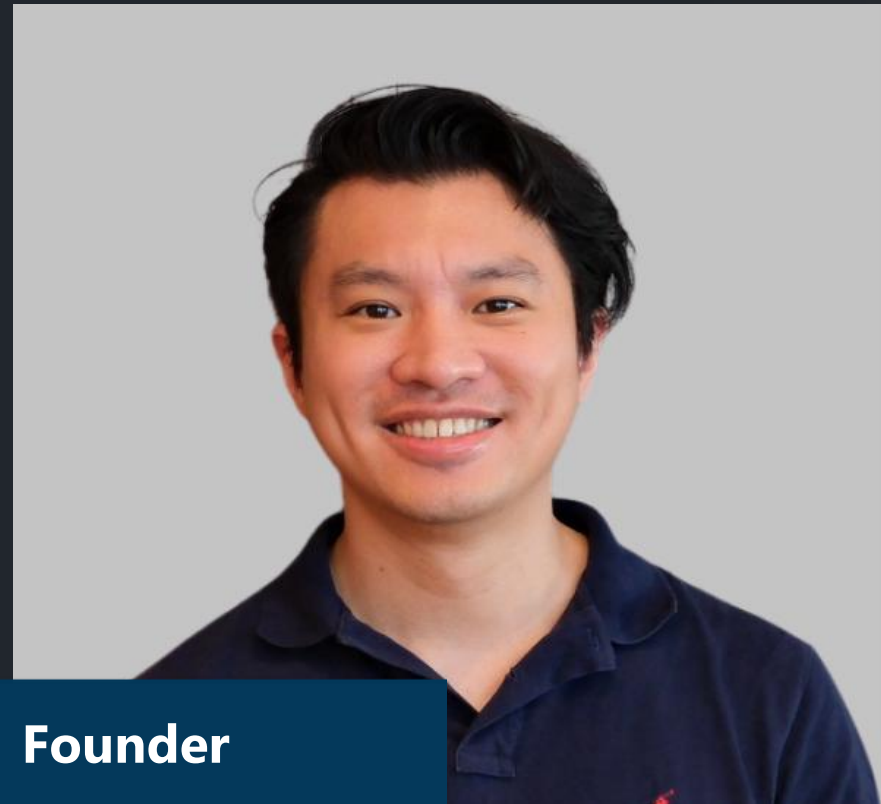
Data Collection and Annotation As a Service

- **What it is:**
Multimodal annotated waste dataset captured from the field.
- **Who it's for:**
Robotics, Simulation, Computer Vision, LLMs, RL, Sim2Real, GenAI etc.
- **Why it matters:**
This rare, costly data is essential for real-world AI and we generate it at zero extra cost.

11 How to get started



12 Members



Founder

Wilson Ko

CEO & Engineer

Wilson is a robotics and systems engineer focused on building reliable, safe, and well-tested automation solutions. He brings deep experience in DevOps, infrastructure, and deploying robust systems in real-world industrial settings.



Co-Founder COO Lee Yi Ching

Ops & Admin

Handles internal operations as the administrative lead, overseeing general affairs, taxation, and basic legal matters while ensuring company efficiency and team coordination.



Co-Founder CSO Nabilah Kushaflyki

Sustainability Lead

Sustainability policy specialist with experience in urban forestry, waste management, and environmental policy development. Led projects across multiple cities, working with stakeholders to implement nature-based solutions and long-term waste strategies



Field Coordinator Fahmi Idris Firdaus

Field & Customer

Data Enumerator for Uni of Oxford, Research Assistant at Cornell Uni; Research Collaborator for German Centre for Integrative Biodiversity Research (iDiv)



READY TO DIGITIZE THE FUTURE OF SUSTAINABILITY?

 [Contact us!](mailto:hello@reconnai.com)

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