REEPRO SUCE

DATABASE OF END-OF-LIFE PRODUCTS CONTAINING **NEODYMIUM BASED PERMANENT MAGNETS**



The Challenge

Brand new devices:

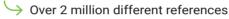
- 80 types of Electrical and Electronic Equipment (EEE)
- · 328 Different Manufacturer Brands
- 6 Models per Brand & EEE Type

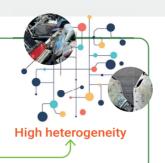


Over 150,000 different devices

Waste Electrical and Electronic Equipment (WEEE):

- · Devices aged 30 years to 1 month
- · Damaged: broken, crushed, dirty
- · Incomplete: missing essential components







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9% database

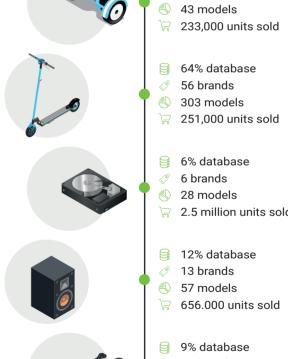
14 brands

2.5 million units sold

21 brands

45 models

253K units sold



Bottlenecks and solutions

Difficulty Database of to identify Brand-new WEEE devices

Market Catalogues →

Market Analysis

Legal Policies

Manufacturer brand websites

Market volume and forecast reports

Ministry and legal institutions

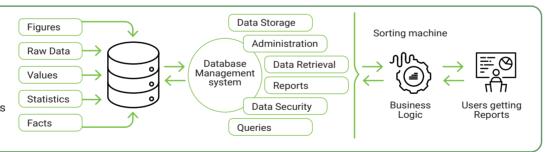
Bottlenecks

- · Lack of technical and manufacturing data
- Significant gap between market information and WEEE recycling practices

Content & Potential Use

Content:

- Images
- · Product details: Brand, model
- Physical specifications: size, weight, Nd-PM components
- · Nd-PM type (if available)



Benefits & Stakeholders

Benefits

Identification of devices containing Nd-based PMs — Effortless sorting within WEEE piles Easy integration with new Nd-PM identification systems Heterogeneity challenges \downarrow

→ REE recovery ↑

Efficiency 1 Employee ergonomics 1 Scalability 1

WEEE recyclers Manufacturing Material suppliers companies Technology Trade unions

Goverment

