

# Rolling out GPNB standards in the Empower.eco ecosystem



## Core Functionality Key Features and Benefits

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## Goal:

- **Increase waste (plastic) collection and segregation from source with digital tools for increased efficiency, transparency and accountability**
- **Establish waste-collection funding (Plastic Credits);**
- **Assist producer responsible organizations (EPR) to track, trace and close material streams with proof of sustainability claims anywhere in the world.**



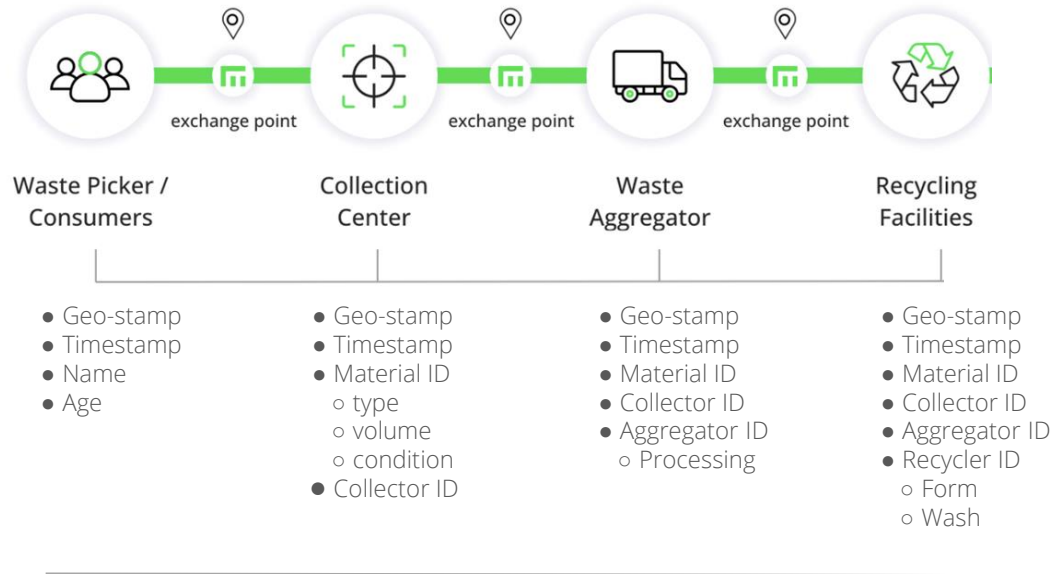
# 7 Core Functionality

Application of Tracking Software and GPx certification Standards throughout the plastic value chain  
(10 points methodology in development of GPNB traceability standards)

1. Waste source identification coupled with incentives for all waste generators (individuals to recyclers) using QR code in app (incentives for efficient segregation and proper drop off)
2. User interface for sorting centers, aggregators, recyclers, end buyers, auditors and municipalities for improved useability (different waste types, volume and units)
3. Clear reporting of volume and material are tracked through each part of the value chain
4. Flexibility in the platform to adopt new material types, units, value chain steps, and administer access level for different category of users
5. Preparation of reports and/or data to facilitate the conduct audits (based on GPNB standards) at each point of the value chain
6. Preparation of information to facilitate the application to the more reputable plastic credits standards (comes with an integrated plastic credit tool, where relevant data for different plastic credit standards can be uploaded (WIP).
7. Inventory tracking to understand the status of materials (eg: quantity, quality, codes and potentially price) being tracked as they progress through each point of the value chain
8. System component : Technology that is able to collect relevant information from each participating actor in the value chain while safeguarding data confidentiality and prevent any manipulation thereof

Through transactional data logging and mass-balancing, audits can be conducted along every node of our value chain

Empower platform is built to provide stakeholders with transparent data at each step of waste (plastic) collection proje



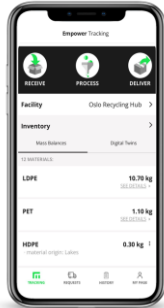
# Solution Overview



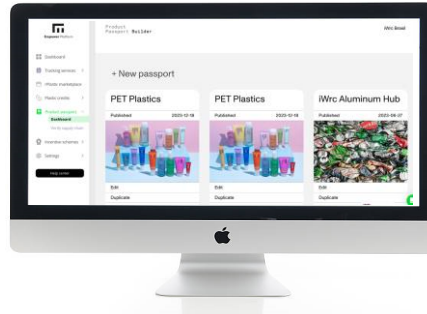
Digital tools for each actor in the value chain



DATA INPUT



Tracking App



DATA MANAGEMENT

Tracking Platform



DATA OUTPUT

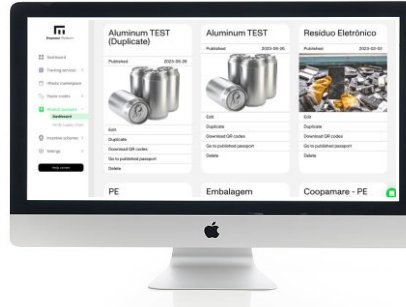
Reporting



Digital Product Passport



# PROPOSED PILOT PROJECTS

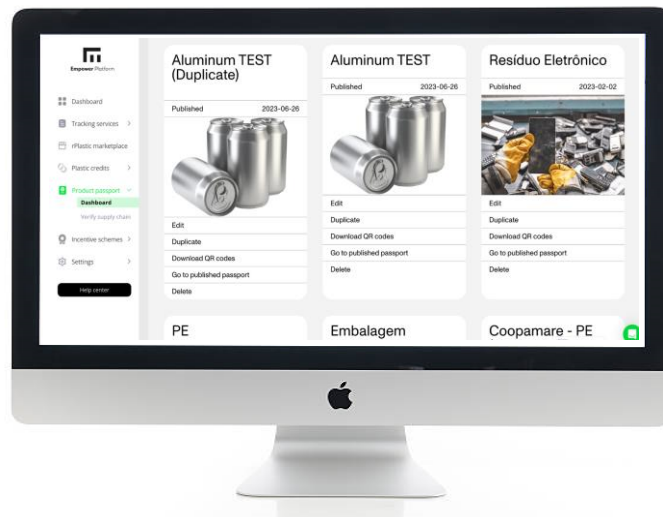


- OBP in Krabi, Thailand (MOU signed between GPN Berhad, Empower and Wongpanit Krabi)
- Post consumer recycled (PCR) plastics and Plastic Credits (other countries)

# WAY FORWARD

- Promotion and Collaboration
- Funding pilot project

Potential collaborators: IGPN



**THANK YOU**

