



circular replay

innovation for a circular industry

Constitution of Circular Replay

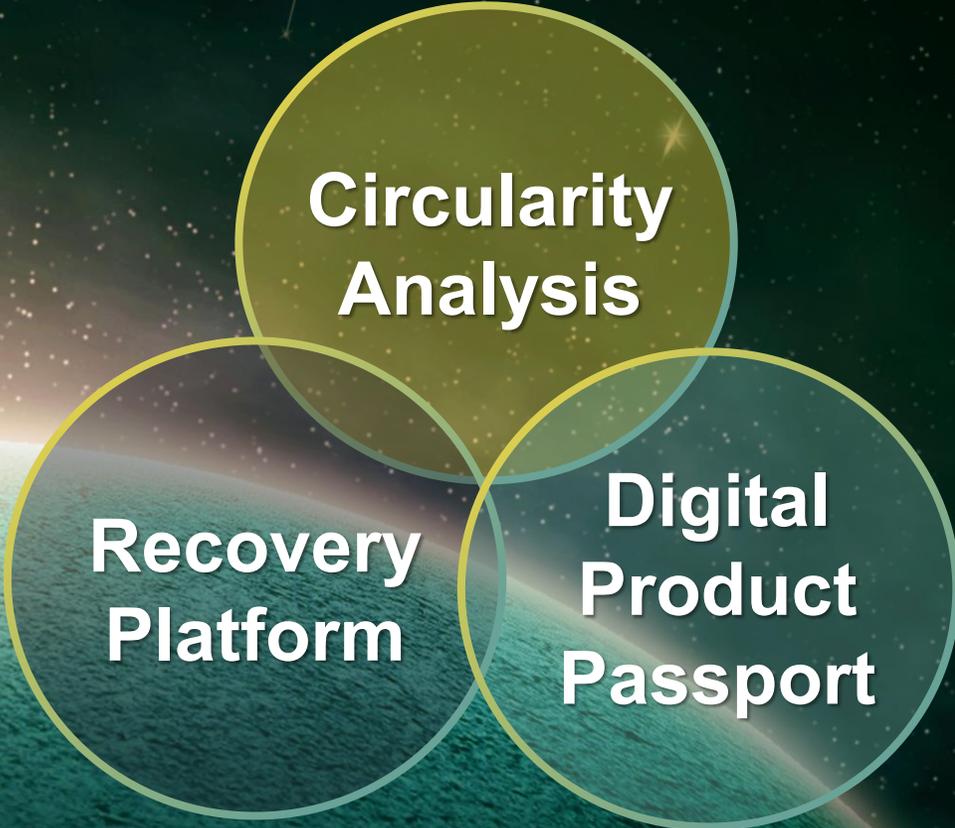
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be **circular**

- Leading technology in **integrated management of the life cycle of** resources.
- Proprietary **Artificial Intelligence** technology, **Big Data and Blockchain**.
- **Presence > 60 countries** and official TAS of the main technology manufacturers.
- **First Basque business group** with extensive knowledge of the industrial sector.
- **Presence in 150 countries** and capillarity in the industrial, financial, distribution and knowledge sectors.
- **3 divisions: Components, Equipment and Services** are part of Circular Replay.





Holistic approach and solutions for circularity



Circularity
Analysis

Recovery
Platform

Digital
Product
Passport

Who we are

Change agent for the transition of the industry to the circular economy model.

Our Mission

Providing **technology-based** solutions for **circular innovation**.

Purpose

To highlight **sustainability actions** of clients & **make profit**.

Help **transform** product design and manufacturing and develop circular business models.

Reduce environmental impact by extending the useful life of products, reusing them and minimizing the waste generated.



Product Circularity Assessment

▶ **Asses the circularity** of the product put on the market.

▶ **Quantify circular KPIs:**

% Material Circularity	% Circular Inflow	% Circular Outflow
% Critical Material	% Water Circularity	% Renewable Energy

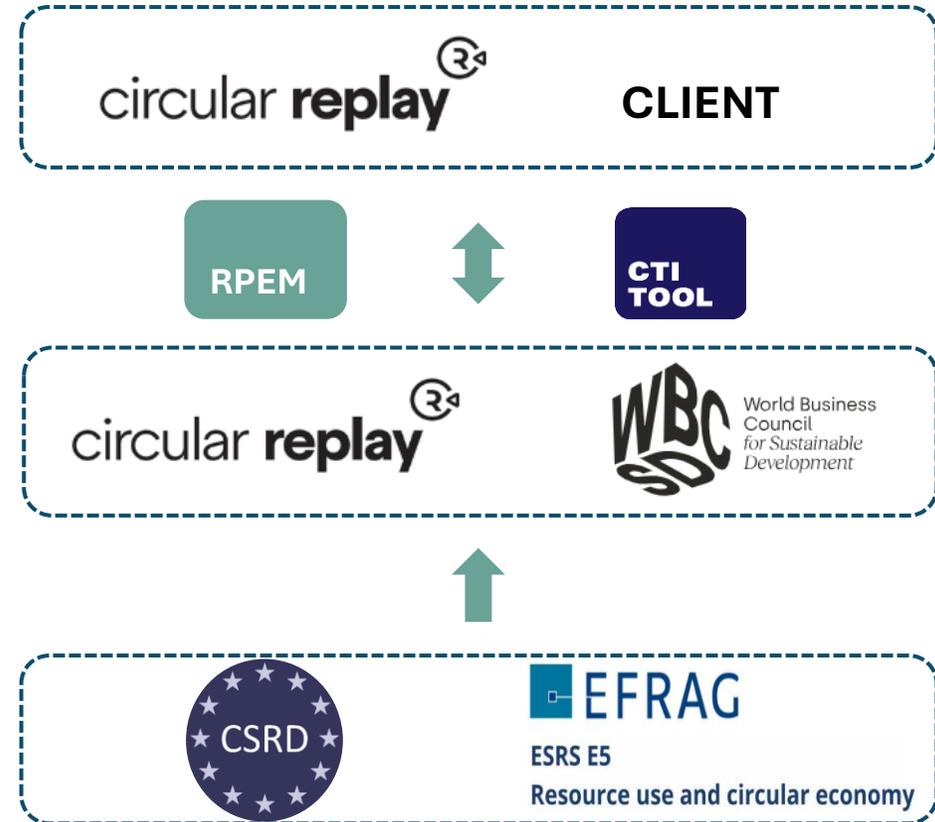
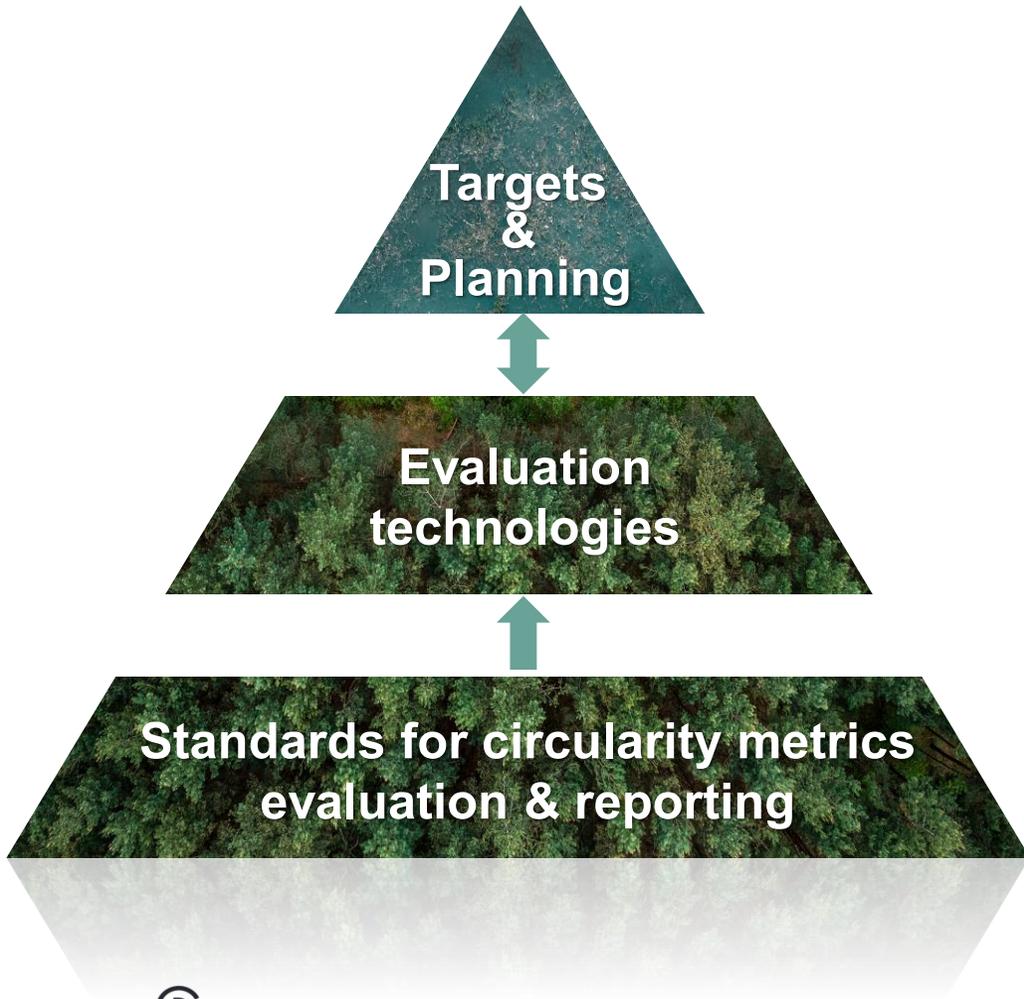
▶ **Identify circularity challenges and opportunities:**

- Critical materials dependence · Identification of hazardous substances & location.
- Identification of reusable comps & secondary raw mats to recover for the industry.
- Recycling of waste materials.

▶ **Design action plan** to improve circularity.

▶ **Generate insights to report sustainability** under ESRS-E5 standard.

Product Circularity Assessment



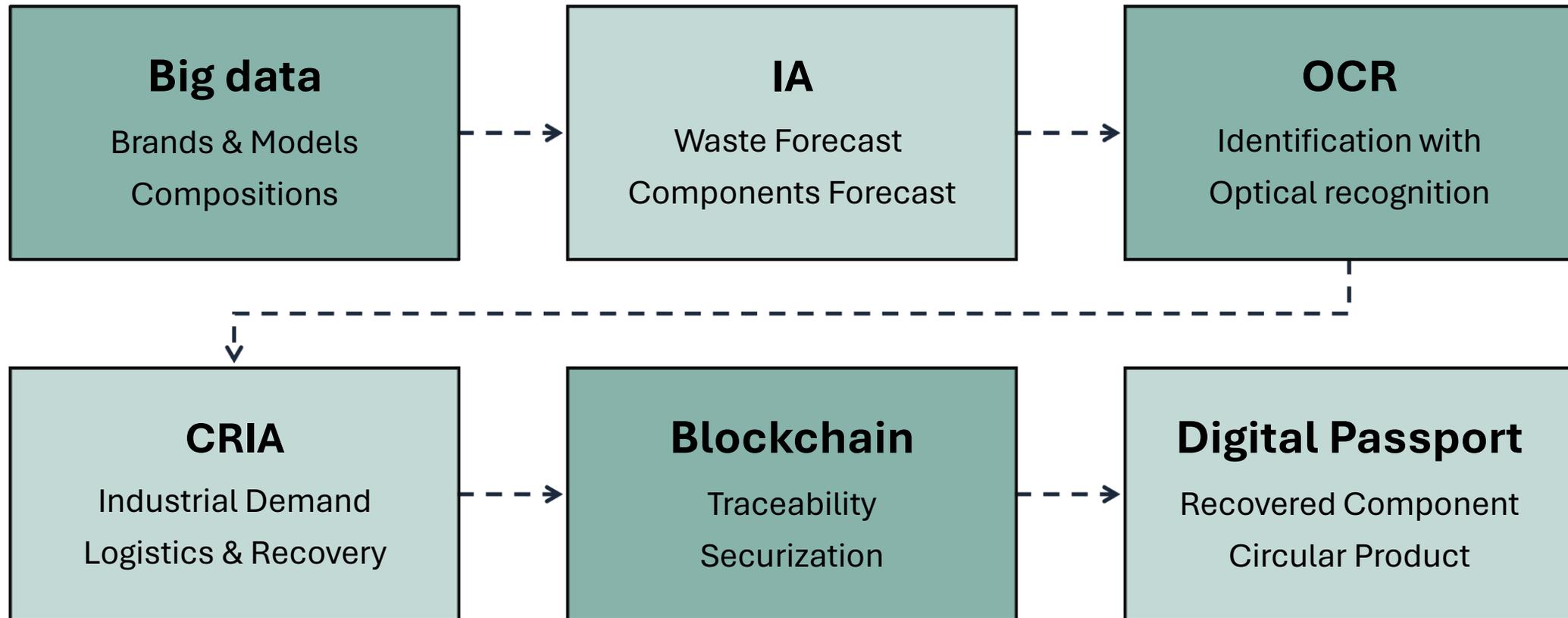
RPEM = Recovery Potential Evaluation Matrix by Circular Replay

Recovery Platform

- ▶ **Integration of products & models data base**
BoM, Comps, Mats & Hazardous substances, Exploded views
- ▶ **Selection of equipment, components & materials of interest**
- ▶ **IA to identify & recover components from waste**
to reuse (= priority) and secondary materials to recycle (2nd option)
- ▶ **Integration and coordination of the extended value chain**
(includ. EoL) and organization of waste collection system:
 - Extended producers schemes · Individual take-back solutions
- ▶ **Identification of industrial demand & companies**
to supply recovered elements to the industry (OEMs and/or TIERS)
- ▶ **Definition of quality criteria** for end-of-waste materials
- ▶ **Process design** and implementation to
 - Boost reuse
 - Waste minimization
 - Optimal logistics and valorization of waste.

Recovery Platform **CR-IA**

Technologies for recovery and valorization



intelligence

impact

sustainability

Digital Product Passport CircPass



- ▶ **Connect players** involved in the extended value chain:

Supply	Production	Distribution
Installation	Use & Maintenance	EOL

- ▶ Provide **technical, sustainability & environmental data**: Product Data sheet, Carbon footprint, material composition, sourcing, recyclability, durability, performance, etc.
- ▶ **Certify production and consumption** of components recovered from waste.
- ▶ **Enhance product traceability** throughout its life cycle.
- ▶ **Facilitate repair, reuse and recycling**, to extend lifespan and maximize value.
- ▶ **Interface to deploy services**: guarantee, maintenance, spare parts, take back, Product as a Service...

Digital Product Passport **CircPass**



Product & Client



Technical assess data

Operator and location of the installation

Product sustainability



ESG - Certifications

Carbon footprint

Materials, Composition & Circularity

Touch Point



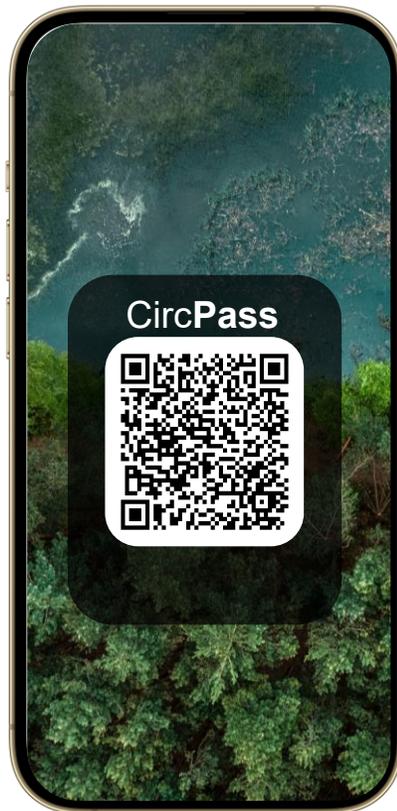
Customer service

Maintenance & Technical services
PaaS & Spare parts

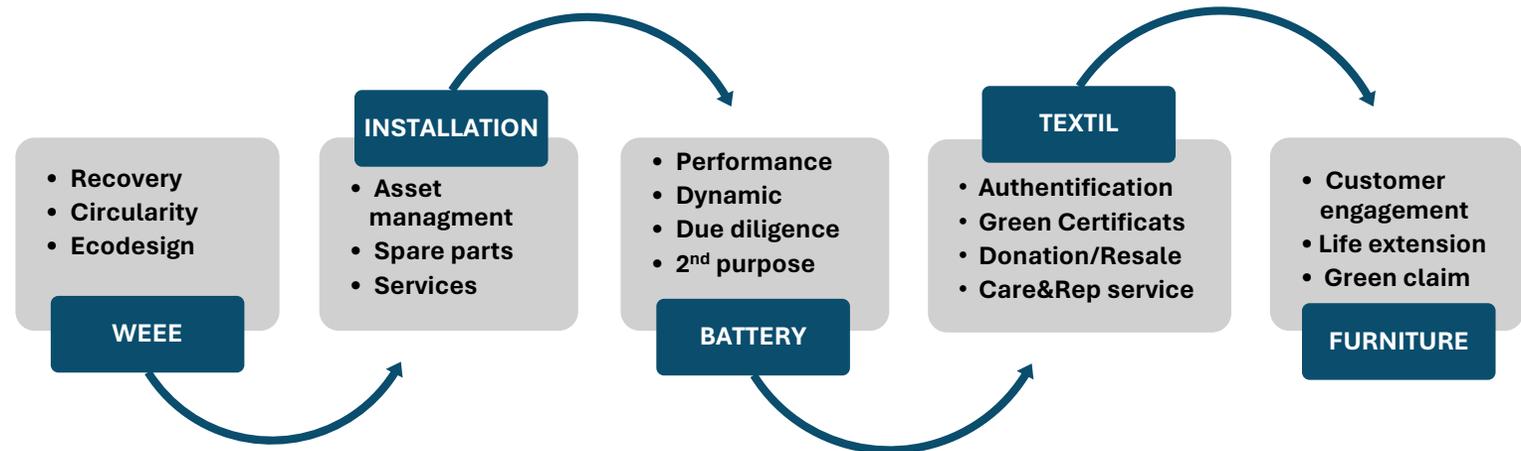
Digital Product Passport **CircPass**

CircPass

Private solution designed by Circular Replay for clients in different sectors:



▪ Sustainability ▪ Traceability ▪ Life cycle ▪ Value chain



▪ Configurable ▪ Interoperable ▪ Accesible ▪ Securized

Designed & Evolved to be **EU compliance**



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