



CarbLog Circular Chain Technology

Circular CarbLog Waste Management System

A circular chart of a **CarbLog Waste Management System** illustrates a closed-loop ecosystem where waste selection, ESG responsible companies, digital identity, and decentralized finance intersect. This model ensures that every action—from waste disposal to reward distribution—is verified and recorded on a blockchain.

System Architecture Components

1. Consumers (End Users): The entry point of the system.

- **Mobile App:** Used for locating bins, scanning QR codes, and tracking recycling history.
- **E-wallet:** Receives and stores rewards (tokens or credits) generated from successful disposal.

2. Carblog Smart Bin (Physical Layer): The physical hardware interface.

- **Sensors:** Detect fill levels and weight, ensuring the bin is operational.
- **QR Code:** Authenticates the user and links the physical waste deposit to a digital transaction.

3. CircularChain Network (Blockchain Layer): The decentralized infrastructure.

- **Validators / Miners:** Secure the network and confirm transaction legitimacy.
- **Smart Contract:** Automatically executes reward transfers once sensor and QR data meet preset conditions.
- **Multichain Relayers:** Enable data and value transfer across different blockchain networks for better interoperability.

4. Digital Platform (Management Layer): The administrative core.

- **UMM (Universal Motivating Module):** Bonds company and employers accounts with inner motivation offer.
- **DGM (Digital Green Marketing):** Rewarding marketplace of outside ESG responsible companies offer.
- **KYC (Know Your Customer):** Ensures all users and participants are verified to prevent fraud.



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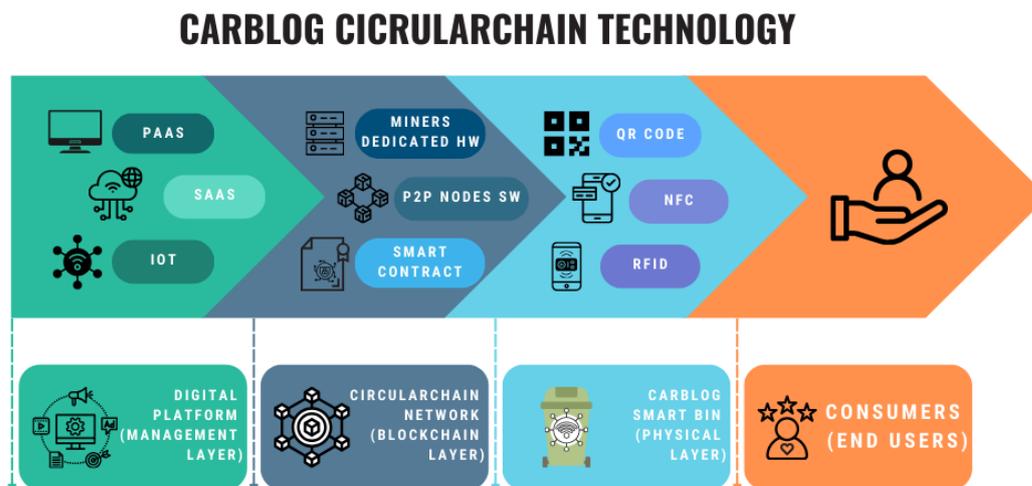




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CarbLog Waste Management System is based on CarbLog CircularChain Technology.

CarbLog Circular Chain Technology can be implemented for planning, monitoring with traceability records, managing participants in the selection process and processing of waste into secondary material.



COSMO Innovate Center CarbLog Waste Management System Core Team:

1. Nenov Marjan is a graduate electrical engineer, energy manager, Eco-En auditor and innovator who is responsible for the design of the project, its use, digitalization and future upgrading.
2. Ilievski Risto owner of an innovative company in the field of industrial electronics and implementation of new technologies in everyday life.
3. Edvard Sofeski is a project manager in several EU co-funded projects and startup innovative development projects, owner of a company supporting entrepreneurship and innovation in small and medium-sized enterprises.
4. Martin Nikolovski electrical technician for electronics and telecommunications with experience in the field of industrial automation and system integrator in the project.

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