BOOSTxCEF: Green Urban Tech

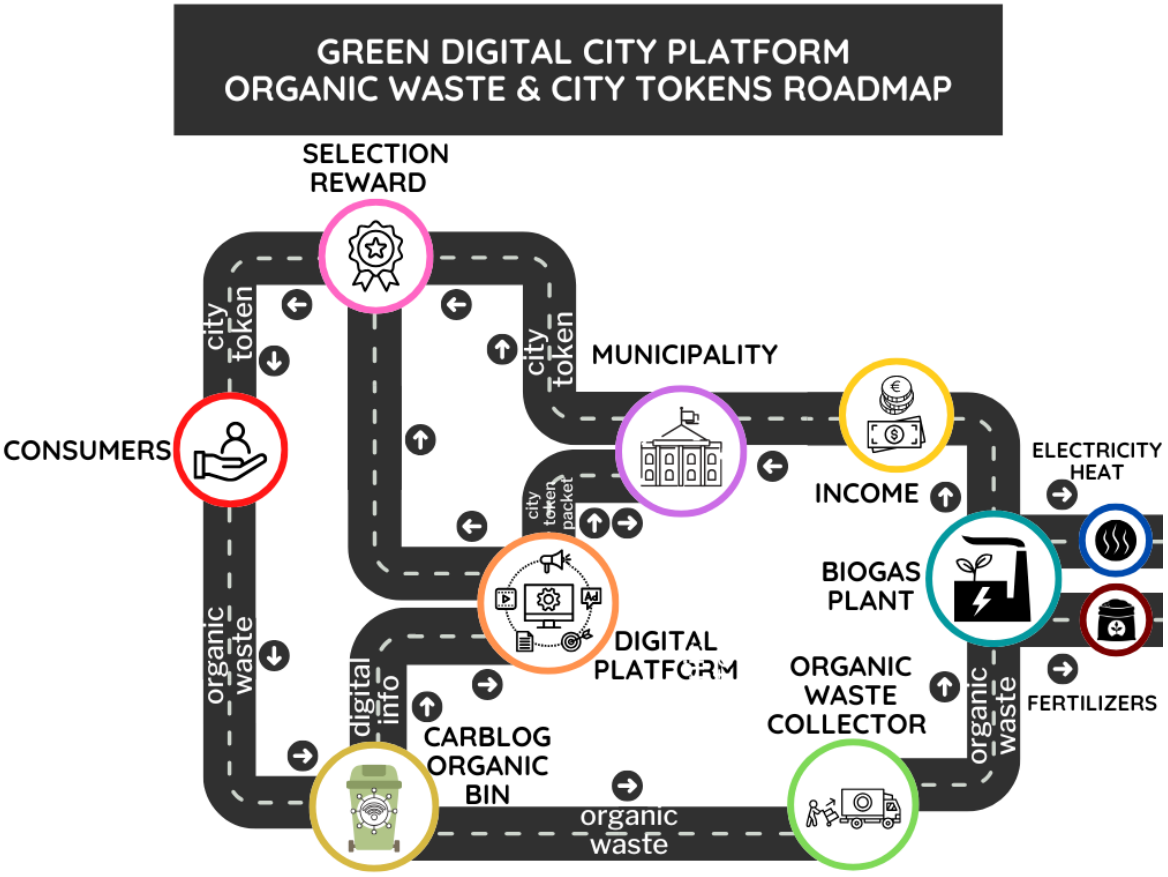
CarbLog Organic Waste Management

CarbLog Organic Bin is telemetry station for bio waste in the HORECA sector - digitized bin for bio waste selection with an open cloud database that is compatible with city platforms for monitoring, bio waste treacability and resource planning of urban and utility waste management infrastructure.

Carblog Organic Bin has built-in sensors for the purpose of measuring and digitizing selected organic waste. The measured parameters are: waste mass, fullness of the bin for the optimization of waste collection, temperature and humidity in the bin for monitoring the condition and utilization of organic waste for further controlled fermentation. Carblog Organic Bin has its own independent power supply and is not connected to an external voltage, it communicates with digital platforms via Wi-Fi module and is traceable, that is, it can be located wherever it is online.

Problem:
HORECA companies and their guests (natural persons) are not sufficiently motivated to select waste, and although in many countries there are penalties, organic food waste, along with other waste, ends up as municipal waste.

Solution:
Green Digital City Platform that communicates with Carblog Organic Bin for confirmation and awarding of the selection of organic waste
The platform enables the registration and logistics of communal waste and the collection of revenues from end customers such as biogas plants, composters, incinerators and other state or private companies for which communal waste is a resource/raw material. The platform with the model of social rewards and financial discounts will motivate the managements of HORECA companies as well as individuals for organic waste selection.



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Green Digital City Platform modules:

- Universal Motivation Module (UMM)
- Digital Green Marketing Module (DGM)

UMM segments:

- Registration module for creating accounts for companies, individuals and waste collectors.
- Administrative module for registering quantities of collected waste (data needed for planning the logistics of collection trucks and data on potential income from sold quantities of organic waste)
- Wallet (points, tokens, bonds) for recording and saving the rewards during the selection process.
- Real-time monitoring and visualization of available quantities of organic waste by location, city region, logistics routes, etc.

DGM is a special module in which socially responsible companies, in accordance with their ESG policies, selectively reward people and companies that participate in the selection process and community green responsible activities.

Green Digital City Platform implementation:

Basic: The first step of Green Digital City Platform implementation is to develop UMM so organic waste selection process can be planned, monitored, managed and the participants in the process can be registered, their accounts can be created and they can get wallets where their green activities can be valued through city tokens.

Circular chain upgrades: The next step is to expand the use of the digital platform with the implementation of a DGM module where, in addition to organic waste management, the platform will reward additional citizens green responsible social activities (household organic waste selection, using bicycles, electric vehicles or public transport, switching to ecological fuels for heating and energy-efficient reconstruction in households, participating in ecological actions and activities...) through city tokens. The municipality will generate city tokens through the platform from sponsorships of environmentally responsible companies that support sports and recreation, education, healthy lifestyles, etc.

Advanced: CarbLog Circular Chain Technology integration to support sustainable circular communal waste management including planning, monitoring with traceability records, managing participants in the selection process and processing of waste into secondary material.