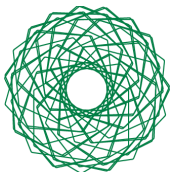
COBO

ENVIRONMENTALISM REIMAGINED



“

Safety and security don’t just happen, they are the result of collective consensus and public investment. We owe our children, the most vulnerable citizens in our society, a life of free violence and fear.

Nelson Mandela

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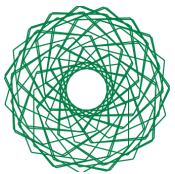
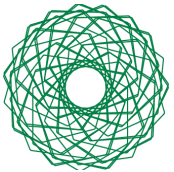


ABSTRACT

Covo is a peer-to-peer ERC20 token that leverages blockchain technology to link garbage and waste buyers and sellers. We helped create a platform that enables individuals to autonomously become part of the network and we even created an application that allows people without blockchain knowledge to participate in the ecosystem. We are the first cryptocurrency system that exploits the dynamics of crypto economics to incentivize people to willingly clean the environment and generate income from these practises. The Covo philosophy is simple: one man’s trash is another man’s treasure



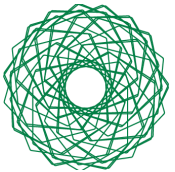
INTRODUCTION

Currently waste management systems and recycling is done completely by corporations and governments that are aware of the benefits of getting involved in a circular economy. Individuals require either physical infrastructure to allow them to participate in this process or punished by the practises. In the future, blockchain will enable individuals to generate money simply by helping clean theri community and take part in helping the environment.

Covo utilizes a Blockchain system standardized by the Zeppelin ERC20 Ethereum protocol to issue token to individuals, businesses and governments. Covo was created with the principles of democratizing the access to these services, empowering the most unfortunate individuals and creating a organiz ecosystem.

In a perfect world everyone will be able to gain money by simply recycling their waste as the IOT and Blockchain will enable people to create a consensus of information regarding such waste. The prices of the waste is completely dependent of the peer-to-peer exchanges that occur and that enables individuals to create a better marketplace based on supply and demand.

Cryptocurrencies were originally launched with the vision of bridging that gap and making access to financial markets easier by mitigating the need for the middleman, decentralising power, and protecting people from fiat currency manipulation. Covo aims to allow all individuals to generate income by actually helping their surrounding and even contribute to the local economy.



USERS

All users who register on the Covo platform are given an encrypted private key to access their profile. In theory, people can access and sell/buy Covo coins in a completely decentralized manner. Covo however, offers a web based platform to enable people that have little to no skill in blockchain development to participate in the ecosystem.

There are two types of covo users:

Waste Buyers

Individual or organization that needs "garbage" such as plastic, metal etc… that will use it to either sell it or generate a product of the waste

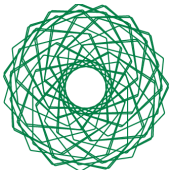
- **Buy Covo coins**
  Buyers will need to have Covo coins to interact with the market and pay individuals thta are helping the ecosystem.

Waste Sellers

A person with access to wastel, motivated by philanthropy and/or economic gain via interest.

- **Waste Selling**
  Individuals and corporation will be able to sell their waste via a peer-to-peer network created in their community.

- **Demographic.**
  Although people will a low-socio economic background are not proponents of tech innovation, the creation of a web-based application enables everyone to participate in the ecosystem.



Note that in practice, a user can be both a buyer and sellers.Users can read from and write to the blockchain with our web interface. All users can get information from the blockchain. This can be information about (a) all waste purchases for, (b) the value of Covo coin.

PROTOTYPE WORKFLOW

Sellers and Buyers access the Covo ecosystem via the app or an alternative route. They either buy coins or look for places to sell their good.

Basic supply and demand determine the price of specific items and the data is processed and deployed to the blockchain.

All current buyers register themselves and become part of the ecosystem publicly.

Both Buyers and Sellers are able to redeem their investment via a marketplace or use the currency to obtain specific promotions.

BLOCKCHAIN ARCHITECTURE

The high-level components of our system are (a) a web interface, and (b) a network of nodes. The web interface is used to interact with the smart contract. A user enters a public key in the web interface to identify themselves. The web interface communicates with a node running on the same machine. This requires the user to have a private key stored in the node, and to initially unlock their account by entering a password at the node.

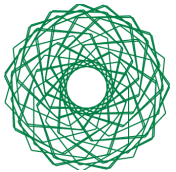
Instead of using a traditional client-server architecture, with a front-end web interface connected to a back-end server, Odera replaces the backend server with the blockchain. Thus, the web interface includes only client-side code, and the “back end” is the smart contract.

A blockchain-based system is necessary for three reasons:

- **Decentralised**
- **Allows for a token system that facilitates easy, safe cross-border payments**
- **Exclusion of central players ensures no manipulation**

A blockchain is a type of shared database, the contents of which are verified and agreed upon by a network of independent actors. In order for a new piece of data to be added to the blockchain, the independent verifiers must come to consensus as to its validity.

Because each new set of transactions (a “block”) is cryptographically linked to the previous block, it is near impossible to change data stored in a blockchain and any such change would be readily detectable. Thus blockchains are widely considered to be immutable and thus can serve as an immutable record of data, transactions and ownership.

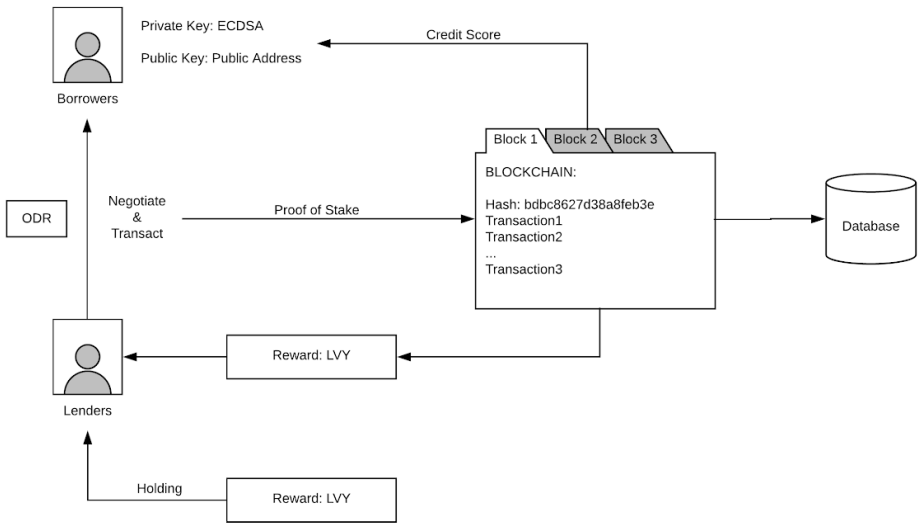


Our technical challenge is twofold:

1. Creating an algorithm for transparent, authentic scoring of business proposals using relevant data frameworks that reflect true credit worthiness
2. Designing a cryptocurrency reward structure that incentivizes lenders to fund more proposals

PROOF OF STAKE (FUTURE)

One to the main issues with cryptocurrencies right now is that they need a lot of energy to operate. For this reason, covo is created as a ERC20 token that will eventually change to a Proof of Stake algorithm. By incentivizing people to hold and prove their ownership of the coin, the Proof of Stake algorithm successfully reduced the computation power waste while securing the integrity of the whole system.



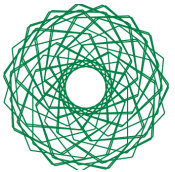
CODE EXAMPLE

CoboCoin.sol

```
pragma solidity ^0.4.17;

import 'zeppelin-solidity/contracts/token/ERC20/StandardToken.sol';

contract CoboCoin is StandardToken {
  string public name = 'CoboCoin';
  string public symbol = 'COB';
  uint8 public decimals = 2;
  uint public INITIAL_SUPPLY = 12000000;

  function CoboCoin() public {
    totalSupply_ = INITIAL_SUPPLY;
    balances[msg.sender] = INITIAL_SUPPLY;
  }
}
```

StandardToken.sol

```
pragma solidity ^0.4.18;

import "./BasicToken.sol";
import "./ERC20.sol";

contract StandardToken is ERC20, BasicToken {

  mapping (address => mapping (address => uint256)) internal allowed;

  function transferFrom(address _from, address _to, uint256 _value) public returns (bool) {
    require(_to != address(0));
    require(_value <= balances[_from]);
    require(_value <= allowed[_from][msg.sender]);
    balances[_from] = balances[_from].sub(_value);
    balances[_to] = balances[_to].add(_value);
    allowed[_from][msg.sender] = allowed[_from][msg.sender].sub(_value);
    Transfer(_from, _to, _value);
    return true;
  }
  function approve(address _spender, uint256 _value) public returns (bool) {
    allowed[msg.sender][_spender] = _value;
    Approval(msg.sender, _spender, _value);
    return true;
  }
  function allowance(address _owner, address _spender) public view returns (uint256) {
    return allowed[_owner][_spender];
  }

```

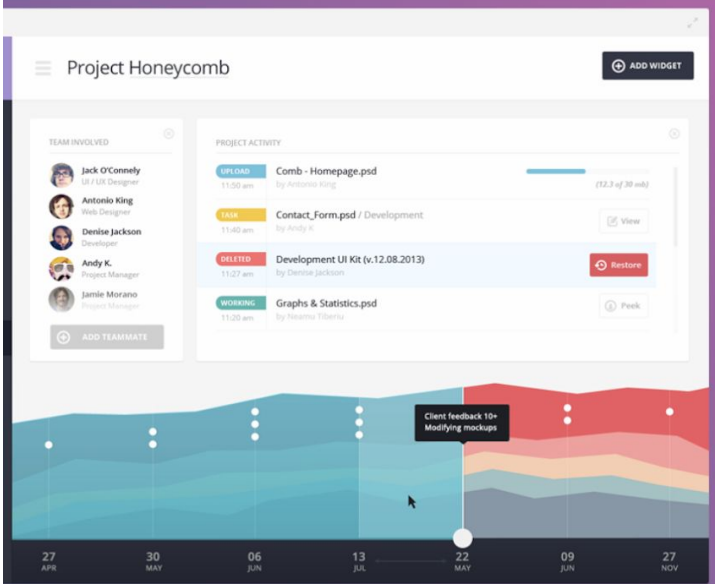


UX/UI


HOME
ABOUT
SERVICES
TOOLS
WORK
CONTACT
CoboCoin
Earn money by eliminating plastic. Empowered by blockchain technology.
Enter Email
Enter Password
LOGIN

What is CoboCoin?

CoboCoin is a



RETINA READY

Facilis ipsum reprehenderit nemo molestias. Aut cum mollitia reprehenderit.

FULLY RESPONSIVE

Facilis ipsum reprehenderit nemo molestias. Aut cum mollitia reprehenderit.

Power of Recycling to The People

Plastic recycling

Decentralization

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts.

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