

wCoin

What is it?

wCoin (WON) is a decentralized token for the healthcare industry.

This token was developed in order to democratize access to qualified health professionals.

Telemedicine is one of the fastest growing areas within healthcare, and safe, quick and easy transactions are necessary in order to achieve its full potential. Not only meeting the current demand for appointments and exams, but also future demands arising from increasing and ageing populations.

Benefits

Faster and affordable diagnoses for everyone.

Transaction traceability and transparency.

Access to healthcare in remote locations.

Lower procedure costs for governments and for the entire population.

Enabling scientific researches through epidemiological data registered in the blockchain.

Expanding partner network in order to use wCoin as payment in pharmacies, hospitals and medical clinics.

Who will be able to use it?

Startups, companies, laboratories, hospitals, pharmacies, medical practices, health insurance companies, etc.

Biomedicine is currently a growing, high technology industry. wCoin (WON) is the world's first and only cryptographic coin created as a means of payment for the biomedical industry.

Token Creation

21 million (twenty one million) coins will be created. One "WON" refers to one wCoin unit, which is an ERC20 token. It is configured for global use by everyone and derives value from its exchange by Ether.

All Tokens will be divided as follows:

Allocation	Qty of Tokens	Total % of Tokens
Presales (Wbio)	2,000,000.00	9.523809524
Founders Launch	420,000.00	2
First Sale (Wbio)	3,000,000.00	14.28571429
Second Sale (Wbio)	5,000,000.00	23.80952381
Until 2042 (wCoin Foundation, TimeLock)	10,156,800.00	48.36571429
Until 2042 (Founders, TimeLock)	423,200.00	2.015238095
Total Tokens	21,000,000.00	100

How are the payments made?

Ether: The user deposits a value in a Wallet created by the Ethereum Foundation, which will be frozen and under constant auditing until the end of the presales period.

Bitcoin: The user deposits a value in the Wallet, which will be under constant public auditing until the end of the presales period.

PagSeguro: Payments via PagSeguro take about 5 working days to be processed and 15 to be deposited in the Wbio account.

Wbio will inform the global capital inflow during the pre-ICO and ICO period on a daily basis, and the data will be publicly available at the primeiraico.com website

Token Sales

Token issuance and sales will occur in four different stages. First, a presale which will make 2 million tokens available. Second, the first sale, with a limit of 3 million wCoins, and third, a second token sale, with a limit of 5 million wCoins. The fourth and last stage is the longest, which will last until 2042, with the periodic issuance of new tokens.

Token Presale

The following stages were planned on November 28, 2017:

January 23, 2018 to April 23, 2018 - Presale

Presale volume:

2.000.0 (two million) WON

Price:

R\$1.00 = (WON 1.00 * 1.30)

The presale period will last for 3 months as of January 23, 2018, with the goal of raising 2 million Reais. The presale period will end when the necessary capital value is reached or once 3 months have passed, whichever comes first.

Allocation of Funds:

- 1) Creating a team of front-end and back-end developers for the Testnet Reliable Review Platform.
- 2) Programming and launching the Reliable Review Platform (Testnet).
- 3) Programming and launching the support tool, which will be the wCoin Mobile application.

First Token Sale

April 24, 2018 until July 24, 2018 - First Sale

Sale volume:

3.000.0 (three million) WON

Price:

R\$1.00 = (WON 1.00 * 1.20)

Allocation of Funds:

- 1) Creating a team of specialists in finance, law, biomedicine and programming for the development of the wCoin model.
- 2) Launching the Mainnet Reliable Review Platform.
- 3) Initial National Marketing Campaign for the acquisition of new business partners.

Second Token Sale

July 25, 2018 until September 25, 2018 - Second Sale

Sale volume:

5.000.0 (five million) WON

Price:

R\$1.00 = (WON 1.00 * 1.10)

Allocation of Funds:

- 1) Coding and setup of the Insurance and Health Blockchain database.
- 2) Development of the Market Research Platform.
- 3) Second Global Marketing Campaign for partner acquisition.
- 4) Payment operations.

wCoin Transfer (WON)

Once a user (X) requests services or goods from another user (B), the exchange will take place when X promises B a payment in the form of WON, and will occur after the transfer of goods / conclusion of services by B.

Once B has fulfilled his obligation, B will make a request and the contract will execute the request by transferring WON from X's account to B's account.

The entire transfer history will be stored in the accounting ledgers of both parties and the balance of each account will be displayed in the contract state. Users may request and send tokens from their wallet to any Ethereum wallet via smart contracts.

Smart Contracts

Ethereum allows the joint execution of smart contracts and decentralized codes, allowing reliable services and payment management.

Smart contracts are a central component of the next generation Blockchain platforms. Due to the auto-executable nature, one-way manipulations are avoided because the control over smart contract executions does not depend on a single person. Consequently, one can assert that smart contracts provide autonomy, reliability, agility and safety.

wCoin smart contracts are computer protocols in the Ethereum Blockchain that aim to facilitate, verify, negotiate and sign contracts between individuals and their hiring party. More information on the smart contract code will be provided in this document.

Due to these smart contracts, which contain value as mentioned earlier in this whitepaper, people can participate in or audit all wCoin smart contracts on Github.

All smart contracts are connected to one "super smart contract" (SSC), but they do not lose their individual rights. If a smart contract cannot be fulfilled due to performance or incapability, the SSC guarantees the users' rights!

Thanks to the reliable nature of smart contracts, many problems within the industry can be mitigated or extinct.

Standard wCoin ERC20 token contract

The main contract is an extended version of the standard Ethereum (ERC20) token contract. You can see it at <https://etherscan.io>.

Token contract extensions

Automated transaction fee processing

wCoin owners do not need to worry about transaction fees (gas) in Ether. wCoin owners do not need to hold any Ether in order to send and receive WON due to the fact that all fees are automatically deducted from the value (in WON) received by the receptor.

This transfer function in the Metropolis Ethereum version can be updated in order to deal with token fees internally.

```
function transfer(address _to, uint256 _value) returns (bool success)
{
    if (_value < WONForGas) throw;
    if (msg.sender != owner && _to == WONAddress &&
directTradeAllowed) {
        sellWONAgainstEther(_value);
        return true;
    }

    if (balances[msg.sender] >= _value && balances[_to] + _value >
balances[_to]) {
        balances[msg.sender] = safeSub(balances[msg.sender],
_value);
        if (msg.sender.balance >= minBalanceForAccounts &&
_to.balance >= minBalanceForAccounts) {
            balances[_to] = safeAdd(balances[_to], _value);
            Transfer(msg.sender, _to, _value);
            return true;
        } else {
            balances[this] = safeAdd(balances[this], WONForGas);
            balances[_to] = safeAdd(balances[_to],
safeSub(_value, WONForGas));
            Transfer(msg.sender, _to, safeSub(_value,
WONForGas));

            if(msg.sender.balance < minBalanceForAccounts) {
                if(!msg.sender.send(gasForWON)) throw;
            }
            if(!_to.balance < minBalanceForAccounts) {
                if(!_to.send(gasForWON)) throw;
            }
        }
    }
}
```

```
        }  
    }  
    } else { throw; }  
}
```

A Buy-and-Sell function for wCoin presale, ICO and future purchase implemented two additional functions that allow sending WON or ETH to the token address or wcoin.eth in order to easily buy and sell wCoin (WON) from and to the Foundation.

Allocation and supply

There are two ways people can get involved with cryptocurrency:

- 1) Buying the cryptocurrency.
- 2) Accepting it in exchange for goods and services.

In both cases, users are increasing coin value.

If people are able to make money by working for each other, they will increase its value through the mutual exchange enabled by a currency system, and this is exactly the model in which wCoin operates.

Being a customized token and solution that has been specially conceived for the global biomedical industry, wCoin has a highly promising future.

The annual distribution values are blocked in Timelock, auditable contracts.

The distribution of coins between 2018 and 2042 has been planned as follows:

YEAR	%
2018	2
2019	3
2020	4
2021	5
2022	6
2023	8
2024	9

2025	9
2026	8
2027	7
2028	6
2029	5
2030	2
2031	2
2032	2
2033	2
2034	2
2035	2
2036	2
2037	2
2038	2
2039	2
2040	2
2041	2
2042	4