



BeHeroCoin
"TO SUPPORT IS TO INVEST"

A photograph of a rescue operation at sea. In the foreground, a red inflatable rescue boat is filled with people wearing orange life jackets and red helmets. Two rescue workers in red and yellow gear are visible. In the background, a larger blue boat is also filled with people in orange life jackets. The sea is a deep blue-grey color.

DECENTRALIZED
NETWORK CREATED FOR
EVERYDAY HEROES
USING A BLOCKCHAIN
PROOF-OF-STAKE
ADMINISTERED BY
MASTERNODES



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INTRODUCTION

Imagine that animals or people are affected or endangered for some reason, say there is a fire, an earthquake, a dog abandoned on the road, a school in deplorable conditions; then a person or groups of people realize that need and instead of standing aside decide to help, decide to change that misfortune or difficult situation without expecting anything in return other than the satisfaction of having changed the destiny of a life. That makes those people heroes.

Heroes sometimes only receive a "thank you" for saving a life or lives. For example, some foundations that rescue animals that suffered mistreatment, the work that firefighters do to save lives. That work is practically carried out day by day. Groups like "Los Topos" that rescue people trapped in rubble by an earthquake. They all need support, they need help.

But let's be honest. How many times have you decided not to donate money because it actually means an expense? Maybe not strong, but it is a reduction of your finances in the end.

Due to all the above, we decided to found Be Hero Coin (BHN), which is a decentralized organization supported by a crypto-coin, which in turn has the peculiarity of being encoded to be mined or produced by the Proof of Stake (POS) algorithm with a governance based on Masternodes (we will explain this later).

Thanks to the implementation of POS in our Crypto-coin, it will be possible to invest and at the same time help a good cause.





BE HERO COIN TEAM'S OPERATIONAL WORK:

The procedure in which the BHN team will operate will be as follows:

1. A cause, need, foundation, association, group or hero will be identified and proposed to receive help through the currency Be Hero Coin, this cause will not only be raised by the BHN team, but any person or association can make a proposal by contacting us from our website by filling out the appropriate form, which should include a youtube video explaining / showing the cause and how it is feasible to deliver the capital to it.
2. The BHN team will upload a video on their website where they will put for sale a certain amount of their coins specifying that upon completion of the sale 80% will be donated or used to support the cause that was proposed in the previous point, while 20% will be for administrative expenses.
3. Once the bitcoins have been collected from the sale of the be hero coins, the BHN team will go to deliver the capital to the cause of the target. In doing so, the 360 cameras will be used for spectators, donors and investors to verify that the money was actually given or was used to buy items to support the cause/need/group/hero that was proposed.
4. Those who bought BHN coins will have three options for passive income:
 - a. You can simply leave them in your wallet and activate the stake option. *This option generates the least amount of BHN coins in the network.*
 - b. If you buy enough coins, you can form and manage your own Master Node. *This option generates the most BHN coins in the network.*
 - c. They will have the option of sending their coins to an address authorized by the Be Hero Coin team and in this way we will assemble Collective Master Nodes, which will generate the profits of a common Master Node (respectively to the number of coins they have sent) but without the need for the investor/donor to have purchased all the coins necessary to form it. *This option generates the most BHN coins in the network.*





In this way investors/donors will receive passive income in BHN currencies.

5. To be able to review the gains generated from the Master Nodes we have created the first crypto-banknote with Augmented Reality, to be able to use it will only be necessary to follow these steps:
 - a. Download the editable crypto-banknote file into the behero.io page.
 - b. Replace the QR code and the wallet at the top, both with your wallet.
 - c. Print the ticket on any sheet (do not modify its size) and download the *LAYAR* app on your smartphone to scan it.

Once you've scanned it, you'll have access to:

The explorer where you can enter the address of your purse where your Master Node is and observe the increase in the number of BHN coins.

You will be able to visualize in a video the cause that the BHN team is supporting at that moment.

And at the same time you can use your crypto-banknote to receive BHN coins as a quick and easy form of payment (letting the sender/purchaser scan your QR code).





WHAT IS PROOF-OF-STAKE?

To understand what Proof of Stake means, you must first understand the concept of Crypto-coin and its underlying technology known as Blockchain. A Crypto-coin is a digital exchange medium that uses strong cryptography to secure financial transactions, control the creation of additional units and verify the transfer of assets. In turn, transactions are recorded by blocks of information of a certain size in a decentralized database called Blockchain.

In Crypto-coins systems, the security, integrity and balance of your account statements is guaranteed by a network of mutually verifying agents called miners. These miners use an emission algorithm to create new units. This algorithm may vary according to the specifications of the Crypto-coin, but the most used are:

Proof of Work (POW): Which uses the processing power of mining equipment (such as video cards or CPUs) to generate new blocks and new coins in circulation.

Proof of Stake (POS): Which is based on the possession of a certain amount of coins to generate blocks and new coins in circulation, this type of mining is the one we will use for Be Hero Coin.

For the correct execution of our mining algorithm, you need to download the virtual wallet, which you can find from our website. In this wallet you can configure all the necessary parameters to start generating new blocks.

Below we will define some concepts to understand the specifications of Be Hero Coin.

Staking: Refers to the process of storing coins in your open, networked wallet. Over time, your coins will be "rethought" in a process similar to mining, where you will get a certain amount of BHN depending on the number of coins you are holding. The more coins you are betting, the greater the chance that you will get a reward over time, however, the chance that you will win a reward remains random. As a result, the estimated time mentioned in the wallet simply refers to the average time in which you will receive a reward.





Masternodes (MN): A Masternode refers to the idea of placing a specific number of coins (5000 BHN) as a guarantee to create a complete node. This node will actively participate in the Be Hero Coin network, propagating and verifying transactions and the like. Over time, as a reward for keeping a Masternode active, you will receive rewards paid to the address of the guarantee. However, running a Masternode carries some costs, as you must maintain an active wallet process running 24/7 on an external VPS and have a verified collateral transaction that you cannot interact with while the Masternode is running.

Block time: Time in which a new block is generated in the coin accounting book (blockchain), this time is crucial to determine the inflation of a Cryptocurrency because depending on the amount of coins generated by blocks, you can calculate the amount of coins issued per day.

Block Reward: Amount of coins generated in each block, which are distributed to reward the miners of Staking and Masternodes, receiving a higher percentage of the latter. This reward may vary in time being shorter to longer. The amount of blocks that can be generated can be limited or unlimited, this will depend on the specifications of the currency.

Premined: Amount of coins that are generated in the first block (genesis block), this amount is divided into several percentages for the prevention of the Cryptocurrency, marketing, administrative costs, reward for developers and founders, and so on.

Total Coin Supply: Total amount of coins that can be generated. A total number of coins will only be generated when the number of blocks is limited. This is the main characteristic of a deflationary currency and the smaller the total supply, the higher the price of the currency.





CRYPTO-COIN BEHEROCOIN SPECIFICATIONS

Name of the currency	Be Hero Coin
Symbol	BHN
Type of mining	Proof of Stake
Block time	90 seconds
Total supply of coins	40 000 000 BHN
Premined	1 250 000 BHN
Coins required for a Masternode	5000 BHN
Block Reward	80% MN / 10% POS / 10%** BHN FUND*
Time required to arrive at the total supply of coins	82+ years
Base algorithm used to build the Crypto-coin	Quark

Block number	Block Reward (BHN)	Reward for MN	Reward for Stake	Reward for BHN fund
1 (Premined)	1 250 000	-	-	-
2 – 9600	40	32	4	4
9601 – 38400	30	24	3	3
38401 – 200 000	25	20	2.5	2.5
200 001 – 500 000	10	8	1	1
500 001 – 1 000 000	5	4	0.5	0.5
1 000 001 - max	1	0.8	0.1	0.1

To ensure the availability of Be Hero Coin for our Heroes, we will assign a percentage of the mining to a fund called "BHN FUND".

For practical purposes it was represented as 10% of the blocks generated but in reality the BHN fund will receive a masternode repayment for each 8 blocks, which means that it will receive 10% of the coins generated in 1 day.

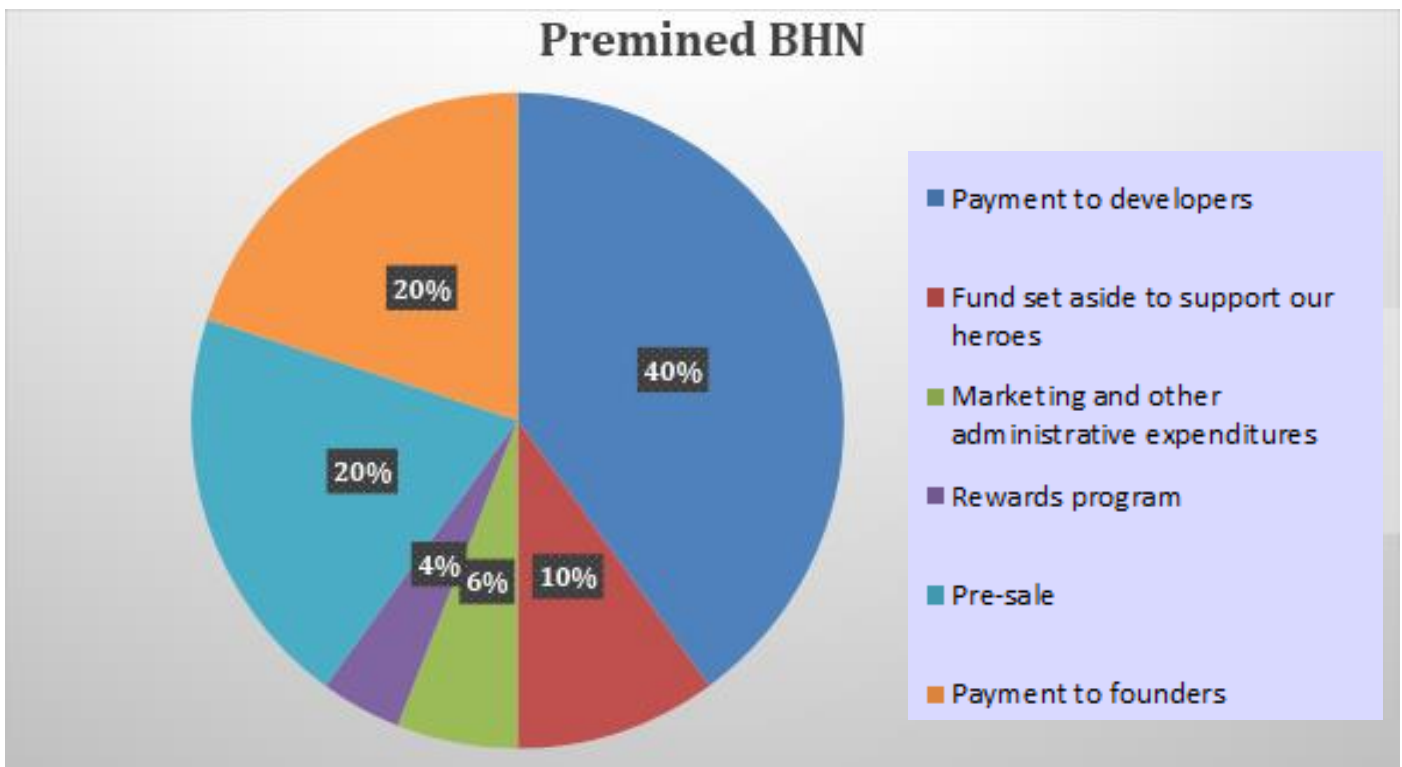




PREMINE

When we founded BeHeroCoin, we contacted two developers to codify our Crypto-coin, so we agreed to pay them 500,000 coins for the pre-mining. This is the main reason why our coin has a pre-mined of 1 250 000 BHN, which will be distributed as follows: d we founded BeHeroCoin, we contacted two developers for them to code our Crypto-coin, so we agreed to pay them 500,000 coins of the pre-mined. This is the main reason why our currency has a pre-mined of 1 250 000 BHN, which will be distributed as follows:

Payment to developers	500000
Fund set aside to support our heroes	125000
Marketing and other administrative expenditures	75000
Rewards program	50000
Pre-sale	250000
Payment to founders	250000
Premined total	1250000





WHAT IS GIVING? VS. WHAT IS INVESTING?

Before developing the whole subject of our Crypto-coin, it is necessary to know what is donation and what is investment, since in both cases you give money, capital or time, but with different purposes.

Donate:

It can be defined as the freedom of someone who freely transmits something that belongs to him in favor of another person or institution that accepts it, in another concept it could be defined as the voluntary act in which a person gives something that belongs to him without expecting any reward or prize.

The common motive for the donation goes hand in hand with an altruistic action that responds to the desire to provide welfare to others or promote another kind of welfare, such as the defense of wildlife, promotion of political and / or religious ideas, and so on. Another motive could be only personal interest: seeking social prestige or influence, expectation of winning a future favor or social *añegregarismo* (follow the current to others).

Invest:

The action of allocating money or capital to an enterprise with the expectation of obtaining an additional income or profit, therefore any expense can be considered an investment if the ultimate aim is to obtain some return.

An investment, in the economic sense, is a placement of capital to make a future profit. This placement is a choice that resigns an immediate benefit for a future one.

Reading these concepts we can clearly see the difference between donation and investment. The first one is made disinterestedly without expecting anything in return, instead the investment is to spend money or capital waiting for a profit.





WHY DON'T PEOPLE DONATE?

Making donations brings us different benefits, from morals to taxes. For example, the feeling that thanks to your donation you were able to help someone is a spiritual benefit that in some cases has no comparison, but there is also the fiscal benefit of making donations to institutions. In spite of all this, it is difficult for us to make donations.

According to studies conducted by the Consultoría Poliarquía in Argentina and the Office for National Statistics in the United Kingdom, fear and misinformation rank high among the causes why people do not make regular donations. It has also been proven that people prefer to donate directly to those in need rather than through institutions or organizations. This leads one to think that there is mistrust and fear that the donated funds will be used for purposes other than those to which they were given. Therefore, communication, information, and transparency are very important to establish greater trust when donating and to affirm in the donor's conscience that the funds are used as he wishes them to be used.





THE OBJECTIVE OF BHN

Having identified this constant uncertainty on the part of donors, added to constant fraud, diversion of resources, lack of transparency and with the intention that people present a stronger interest in the help/support of those who need it, our team set out to create Be Hero Coin, a medium with which they will not only have clear visual evidence and 360 degrees of how their resources are really destined for the promised cause and for which people decided to make a donation, You will also be able to see them in real time with the use of blockchain technology, which allows you to follow the transactions from beginning to end without the possibility of fraudulent actions, unnecessary participation of third parties and if this were not enough we create for the first time in humanity a way in which a donation can also be considered a form of investment, thus promoting a greater participation of any type of people to support those groups or needs that require it.

The way to achieve this methodology was possible thanks to the technologies that have been created in recent times, highlighting above all:

- Bitcoin and Crypto-coins, which use the technology known as Blockchain so that their transactions can be visualized in real time, certifying that the agreed movements are carried out and authenticating them.
- The Master Nodes, created by the Crypto-coin Dash that consists of having support points in the network of a Crypto-coin, only by storing a certain amount of these and configuring them in the appropriate way to be considered a Master Node of that network, thus generating passive income for each node.
- The 360 cameras that give a person the perspective of visualizing a place as they were in person, allowing to see in detail and without secrets (behind the camera) the actions performed in that video.
- Augmented Reality will allow individuals or establishments not only to accept payments in BHN currencies, in addition to this it will allow investors to check the profits generated from their Master Nodes and visualize the latest events or causes that will support the Be Hero Coin team.





STRUCTURE OF MINING AND PROJECTION OF PROFITS

The Crypto-coin Be Hero Coin uses mining type Masternode and Proof of Stake, this type of mining was created by the development team of the Crypto-coin Dash, in order to retake the decentralization of the Crypto-coins that was the central idea of the project of Satoshi Nakamoto, but that unfortunately was dissolving since the Crypto-coins that use the form of mining Proof of Work to be minable by machines and to begin to exist more powerful machines, the centralization was done by the development team of the Crypto-coin Dash, with the purpose of retaking the decentralization of the Crypto-coins that was the central idea of the project of Satoshi Nakamoto, but that unfortunately was dissolving since the Crypto-coins that use the form of mining Proof of Work to be minable by machines and to begin to exist more powerful machines, the centralization was done by machines. Mining by Master Nodes, on the other hand, does not require any special machine that needs maintenance, be it noisy or maintained at a certain temperature, in addition to not causing damage to the environment.

For these reasons we chose Masternode/Proof of Stake mining.

The mining structure of the BHN network is as follows:

As soon as this active our blockchain every 90 seconds is generated a new block, of which 80% of the reward is directed to the Master Nodes, 10% of the reward is for Proof of Stake and 10% to the BHN Fund where we will take the coins to be able to sell them for the causes (it is necessary to clarify that this happens every 3 mined blocks).

Now if every 90 seconds a block is mined it means that one day when you have 86400 seconds, 960 blocks are mined. In the table shown we can see the projections of the distribution of coins generated over time, and taking into account the daily rewards and mined blocks, in a scenario where there are only 50 Nodes Modes working. Projections of earnings would be as shown in the table below.





Number of Masternodes		50									
Blocks	BHN per block	Time to change blocks	# of BHN per reward of MN	BHN Staking	BHN Fund	Total	Total + PM	Number of daily coins per MN	Daily ROI%	Anuail ROI%	
1 (Premine)	1,250,000	-	-	-	-	-	1,250,000	-	-	-	
2	9,600	40	in 10 days	32	4	4	383,960	1,633,960	614	12.29	4,485
9,601	38,400	30	in 40 days	24	3	3	864,000	2,497,960	461	9.22	3,364
38,401	200,000	25	in 208 days	20	2.5	2.5	4,040,000	6,537,960	384	7.68	2,803
200,001	500,000	10	in 520 days	8	1.0	1.0	3,000,000	9,537,960	154	3.07	1,121
500,001	1,000,000	5	in 3 years aprox.	4	0.5	0.5	2,500,000	12,037,960	77	1.54	561
1,000,001	-	1	in 82 years aprox.	0.8	0.1	0.1	27,962,040	40,000,000	15	0.31	112

We must keep in mind that the projections are only an approximate, they are only and exclusively in BHN currencies (it is not a ROI of the investment in BTC) and that there is no way to know the exact value of the Crypto-coin once it leaves the market because it will move according to supply and demand.

Here is the link where you can download it yourself and calculate your projections:

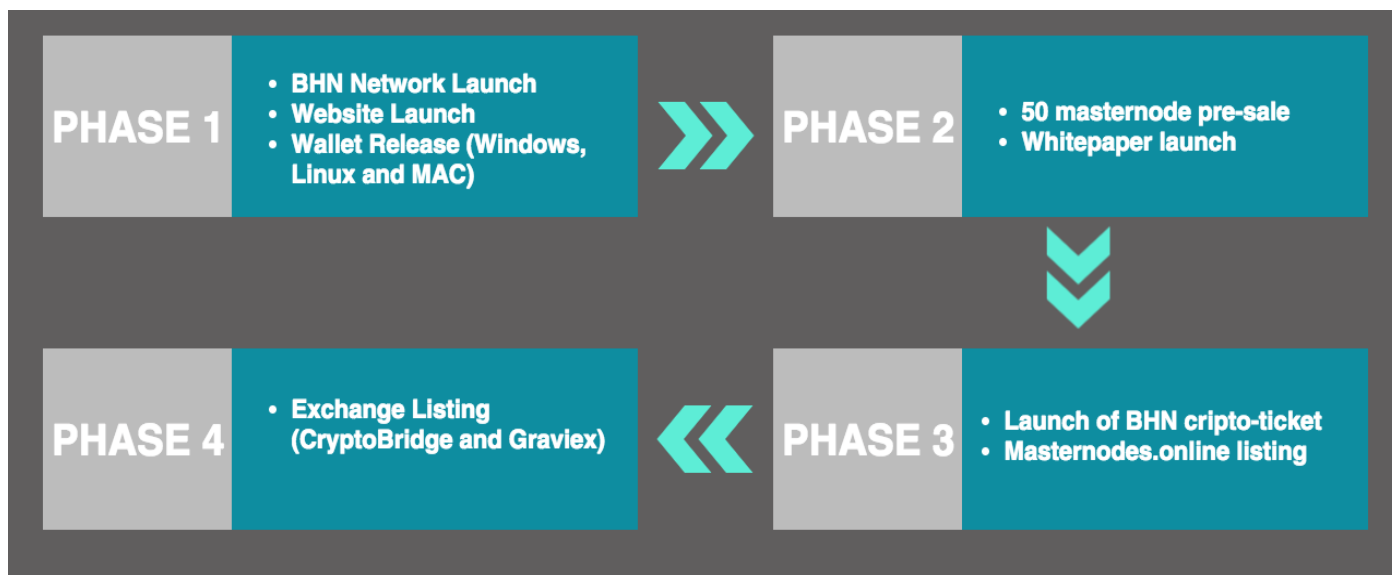
https://docs.wixstatic.com/ugd/9541ec_bc403ec4c0794a75b842497d0e7e7938.xlsx?dn=ROI%20BHN.xlsx

NOTE: The data projected here are only to have an average of what can be expected, the performance, the value, the mining frequency, the number of masternodes are variable factors that may change over time





ROADMAP



Note: this roadmap is projected only to the point where BHN is already a Crypto-coin that can be bought or sold in an exchange. Subsequent to that is where we will begin to use the currency to support the causes or needs that require it.





THE FIRST CRYPTO-BILL WITH AUGMENTED REALITY

Through the time of Crypto-coins we have noticed that one of the biggest barriers/questions they are:

How can we use Crypto-coins in the physical world?

What mechanisms does a business need to accept Crypto-coins?

Will the day come when anyone can accept crypts?

It is because of these questions that we decided to bring together two of the most avant-garde technologies in modern times: Crypto-coins and augmented reality.

By doing this we believe we have finally broken through those barriers and created a way in which the crypts and more specifically, be hero coin, can be used in everyday life in a natural, simple and quick way.

Firstly, we will explain what Augmented Reality is, this is an avant-garde technology, which consists in the superposition of digital media superimposed on an object of the physical world, visualized by means of a device such as a smartphone. That is to say that a person when pointing the camera of his smartphone towards a specific image or object, will be able to see projected videos, images, buttons, etc.

Functioning of the Be Hero Coin crypto-banknote:

The user only has to download an editable .doc file, in the file he only needs to replace the QR code and the address of the upper part of the wallet, both by the wallet of the user (in QR code and written).

Afterwards, the user will print the banknote and will have to download an app that will be used as an Augmented Reality visualizer, in this case it will be *LAYAR*, he will open it and within it he will point the camera of the device towards the banknote to scan it, this will project different images and videos over the banknote.





One of them is linked to the explorer of the BHN network, which will allow you to introduce the wallet of the inverter (the same that you can see on the top of the bill or have it saved previously in your device) and in this way you will see how many new coins your Master Node has produced, in another option you will see videos of the causes that Be Hero Coin is supporting and/or the live transmissions of the support that we will give.

In addition to this the QR code (which was replaced with the user's wallet) will be used to be able to accept the Crypto-coin BHN by anyone, i.e. if a person has BHN for example in the exchange and wants to pay something, the merchant or the person who will receive them only needs to show him his ticket in order to give him the address of his wallet.





CONCLUSION

In the beginning when Satoshi Nakamoto created the Crypto-coins and the Blockchain technology did not do it with the purpose of making one more coin, it did it with the purpose of solving existing, constant and gravity problems that exist in humanity.

This is the same case with Be Hero Coin, this Crypto-coin was not only created by one organization in order to capitalize and be one of more than two thousand Crypto-coins that exist today, it was done in order to solve a serious problem that we have identified, which is to value the person or groups of people who try to make a positive change in this world, which are sometimes ignored or sometimes underestimated, what we are trying to do with this project is to encourage those heroes to continue with their actions, to give them an incentive to continue changing the world and so that anyone who decides to support them also has a retribution, in this way we will create a network of positive actions that will grow more and more impactful, achieving that there is a real change that will first be seen in isolation in the communities where these actions are carried out, but perhaps one day there will be so many that it can be seen general in the planet.

