



ForestCoin



W H I T E P A P E R

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Summary

ForestCoin is a cryptocurrency where the coins are created by planting trees.

ForestCoin users are issued coins for planting a tree and documenting it via the ForestCoin mobile app.

The tree planting is verified through a crowdsourced approval process where it is examined by other ForestCoin users via photos, GPS location, and other information recorded by the ForestCoin mobile applications. After three crowdsourced approvals, and final approval from ForestCoin administration, the ForestCoins are minted and issued to the user.



ForestCoin is intended as a transactional coin for use as payment and transfer of funds. It's high transaction speed, low energy architecture, and coin reward formula incentivises the running of the nodes in the peer to peer network without the need to charge users transaction fees for sending and receiving ForestCoins.

ForestCoin has all of the attributes of major successful cryptocurrencies. It has a limited supply and the coin reward is lowered as more trees are planted. ForestCoin has the goal of planting one tree for every person on the planet, and with this target in mind the maximum number of ForestCoins that will ever be created is one ForestCoin for every person on Earth.

ForestCoin aims to be the cryptocurrency that wins the hearts and minds of millions of people by monetizing the planting of trees. It is an environmentally friendly way of paying for goods and services because every coin has been created through the planting of a tree.

*“One tree for every person
One ForestCoin for every
tree.”*

www.forestcoin.earth

Cryptocurrency

What is a cryptocurrency

A cryptocurrency is a digital or virtual currency designed to work as a medium of exchange. It uses cryptography to secure and verify transactions. Essentially, cryptocurrencies are limited entries in a decentralized database that no one can change unless specific conditions are fulfilled.

The problems ForestCoin intends to solve

Massive energy use of many cryptocurrencies.

Other cryptocurrencies use an enormous amount of wasteful energy to mine coins. This creates carbon emissions and contributes to the environmental degradation of the planet.

Bitcoin's electricity usage is enormous. In November 2017, the power consumed by the entire bitcoin network was estimated to be higher than that of the Republic of Ireland. Since then, its demands have only grown. It's now on pace to use just over 42TWh of electricity in a year, placing it ahead of New Zealand and Hungary and just

behind Peru, according to estimates from Digiconomist. That's commensurate with CO2 emissions of 20 megatonnes – or roughly 1 million transatlantic flights

<https://www.theguardian.com/technology/2018/jan/17/bitcoin-electricity-usage-huge-climate-cryptocurrency>

World deforestation and loss of biomass

Our planet faces severe environmental challenges caused by deforestation and the loss of biomass.

- About 36 football fields' worth of trees are lost every minute due to deforestation
<https://www.conservation.org/stories/Pages/11-deforestation-facts-you-need-to-know.aspx>
- Forests are home to more than 80 percent of all terrestrial species of animals, plants and insects
<http://www.un.org/sustainabledevelopment/biodiversity/>
- Between 1970 and 2014 populations of mammals, birds, reptiles, amphibians, and fish around the globe dropped 60 percent
<https://www.wwf.org.uk/updates/living-planet-report-2018>

The Solution

The creators of ForestCoin think that the vast majority of people want to see healthy forests, an abundance of wildlife and a thriving natural planet.

The majority of consumers will always want to buy goods and services and live their life in a very similar way to how they have lived in the past, but many people also have a feeling that they want to “do something” positive to help the health of the environment on which we depend.



ForestCoin aims to monetize the planting of trees. Simply by choosing to pay for goods and services using ForestCoin people will have a positive impact on the planet. In order to spend ForestCoins, people must first acquire ForestCoins, either by planting a tree or buying them which in effect is paying someone else to plant a tree.

The benefits of monetizing and incentivising reforestation are numerous. Investment in forests helps with atmospheric carbon absorption, poverty alleviation and protecting biodiversity.



In addition to the ecological benefits, ForestCoin’s extremely fast block speed and no transaction fees make it a very efficient payment method for everyday purchases, all whilst consuming a tiny fraction of the energy that other cryptocurrencies consume.

Broad Architecture

When designing the ForestCoin cryptocurrency, the developers closely analyzed Bitcoin and identified the key features that contribute to its success, and then modified them to create a cryptocurrency with similar attributes that incentivises the planting of trees instead of solving useless puzzles.

	
How coins are created	
Miners compete to solve the puzzle and earn the right to create the block and claim the new coins.	Users plant trees and document it in the ForestCoin App. Other users inspect the planting and vote to approve and issue new coins.
Incentive to ensure integrity	
New coins are issued to the miner, who is incentivized to keep the integrity of the network to protect the value of their coins.	New coins are issued and split between <ul style="list-style-type: none">● the tree planter,● the user that referred the tree planter,● three users who inspected and approved the planting,● the node that is randomly chosen to create the block that issues the coins to the recipients,● ForestCoin's founders and developers, who are all incentivized to keep the integrity of the network to protect the value of their coins.
Coin limit	
Restricted to 21 million coins	Restricted to 1 coin for every person on Earth. Currently 7.7 billion, but will increase with future population growth

Broad Architecture

	
Coin reward halving	
Halves after every 210,000 blocks have been mined which is approximately every 4 years.	Halves every time the number of trees planted passes a 4% increment of the tree planting target. The tree planting target is one tree for every person on Earth.
Consensus Algorithm	
Proof of Work - using energy intensive computer power to be the first to solve the puzzle	Proof of Elapsed Time - node is chosen in a true random manner
Transaction fees for transfers	
Set by the miners at market rate to assist paying their enormous power consumption	No transaction fees as nodes are low energy and therefore low cost.

Full Technical Specifications

- Based on Hyperledger Sawtooth
- Decentralised blockchain ledger
- Permissioned nodes using a the low energy consensus algorithm "Proof of Elapsed Time" (PoET)
- Permissioned wallets for user tracking to comply with KYC/AML laws
- Coins do not exist until a user plants a tree, documents the planting, and it is approved by other users
- Limited supply (1 coin for every person on Earth)
- Smart contract capable

ForestCoin has been developed on the HyperLedger Sawtooth platform.

Hyperledger (or the Hyperledger project) is an umbrella project of open source blockchains and related tools, started in December 2015 by the Linux Foundation, to support the collaborative development of blockchain-based distributed ledgers.

The ForestCoin Cryptocurrency includes the following technical items:

ForestCoin controlled business layer

- Coins are minted and issued to ForestCoin users
- User administration

Permissioned nodes

- Windows software that can be installed by any registered user
- Contains a full copy of the blockchain
- Participates in the lottery with other nodes on the network to create the next block in the blockchain and receives a percentage of the new coins if the block contains newly minted coins created from the planting of a tree
- Is very low resource and can run on most modern Windows computers in the background while the computer user is doing other things.

Minimum requirements:
Windows 10 64bit: Pro, Enterprise or Education (Build 14393 or later) + 4GB of RAM + HDD sufficient for full blockchain

Consensus Algorithm

- Proof of Elapsed Time (POET) is a low energy consensus algorithm that is based on the principle of a fair lottery system where every individual node on the network is equally likely to win the mining rights for creating the next block. POET uses trusted execution environments provided by Intel's Software Guard Extensions (SGX) which are simulated in software behind the ForestCoin node executable install file to enable running on non SGX hardware. Every node generates a random wait time in a secure manner and goes to sleep for that specified duration. The node to wake up first, that is the one with the shortest wait time, wakes up and commits a new block to the blockchain, broadcasting the necessary information to the whole peer network. The same process then repeats for the discovery of the next block. This design means that most of the time the computers that the nodes are running on are just sitting idle counting down time, therefore the POET consensus algorithm creates very low energy blockchain.

Full Technical Specifications

Block time

- The initial ForestCoin block time will be set to 5 seconds, however this can be modified up or down if required.

Block Size

- The initial ForestCoin block size will be set to 100 transactions, however this can be modified up or down if required.

Coin limit

- The number of ForestCoins that will ever be released is limited to one coin for every human on Earth. ForestCoin relies on the current population estimate supplied by the United Nations. At the date of writing the most up to date report is the United Nations DESA report, "World Population Prospects: The 2017 Revision". ForestCoin has used the data in this report to calculate the current world population up to the second. Should new reports be issued by the United Nations

then ForestCoin will refer to them.

Divisibility

- A ForestCoin can be divided down to 10 decimal places, therefore, 0.0000000001 FC is the smallest amount that can be handled in a transaction. 0.0000000001 FC is also known as a "Carbon". There are 10 billion "Carbons" in a ForestCoin.

Side chains

- Using Hyperledger's advanced transaction execution engine which processes transactions in parallel to accelerate block creation and validation, ForestCoin can aim at thousands of transactions per second, making it an ideal transactional coin.

Smart contracts

- Hyperledger Sawtooth has SDKs for building blockchain applications in a variety of

languages, including Go, JavaScript, and Python

Windows Wallet

- Coin storage
- Transfers initiated
- Transmits transactions to the blockchain via connecting to a node
- The wallet connects to four nodes and tests their load time, then selects the one with the lowest load time to ensure prompt network connectivity and transmission.

Mobile Applications for iOS and Android

- User can document the planting of a tree
- User can view other user's tree plantings and vote to approve or flag them as false plantings
- Wallet for storing coins
- The user can initiate transfers
- Social media sharing options so users can share their tree planting

How coins are created

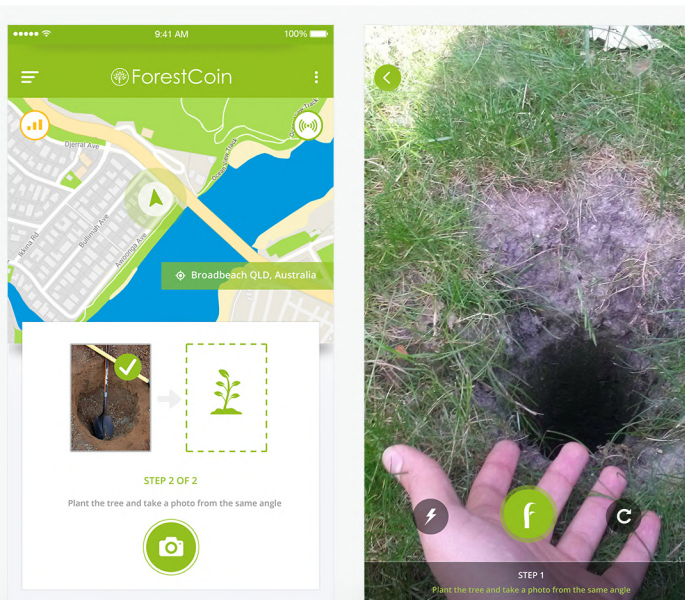
‘ForestCoin users document the planting of a tree by using the ForestCoin smartphone applications.’



How coins are created

The user is required to take two photos, and also an optional third photo (a selfie). The photos must be taken from within the ForestCoin app and cannot be imported

1 Photo 1 - showing the hole and tree next to it



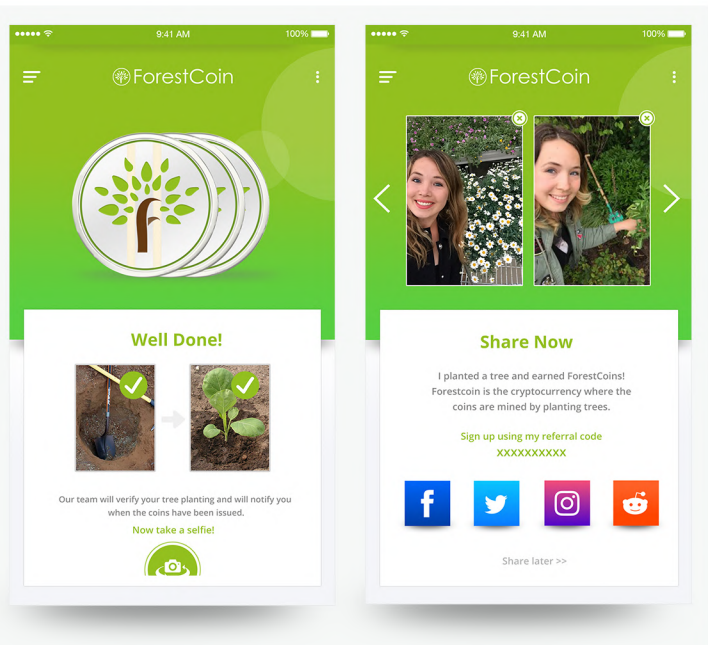
2 Photo 2 - showing the planted tree

3 The app records the GPS location, direction that the camera is facing, and the timestamp of the photos, and this data is used to confirm that the tree planting is legitimate

4 The third photo is an optional selfie of the user and their tree which can be used for social media promotion

5 The verification of tree plantings

The tree planting is then submitted into the crowdsource approval process whereby other registered users can examine the tree planting to assess its legitimacy, and can either vote to approve the tree planting, or flag it as a false planting.



ForestCoin has a confidential set of conditions built into the approval process to ensure that approving users cannot repeatedly view their friends plantings and falsely approve them.

6 After three crowdsourced approvals, a final check is completed by the ForestCoin administrators. Particular attention is given to tree plantings with mixed results (i.e. some approve votes, and also flagged as a false planting) to assist in looking for fraudulent votes. If required ForestCoin will withdraw

How coins are created

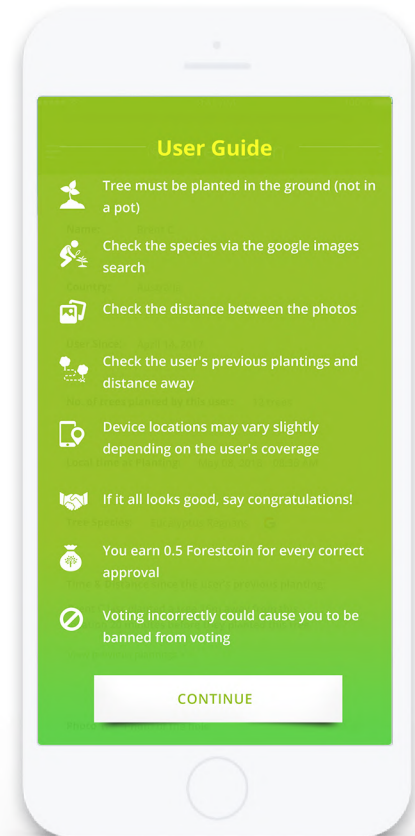
the voting rights of users that have voted fraudulently to ensure the integrity of future voting.

7 After the tree planting is determined to be legitimate, the coins are minted and a transaction is created and transmitted to a node for inclusion into the next block. In the case of a bulk approval for thousands of tree plantings (and therefore thousands of new coins) the coins are released at 6 second delays to ensure that the node fees are spread around multiple nodes instead of one node receiving all node fees.

8 All photos of all tree plantings are displayed on the ForestCoin website which allows for the public verification that the number of coins in circulation correlates to the number of planted trees

What is an acceptable tree?

When documenting the planting of a tree the user is required to enter the species of the tree. The advice that is given to the crowdsource approvers on whether or not to approve is as follows



In the future ForestCoin will seek to engage with reforestation professionals to determine what species are acceptable in different areas and will build such advice into the system.

Coin Release Program

Successful cryptocurrencies have the following features:

- Limited supply
- The difficulty of creating coins increases as more coins are created

The ForestCoin release program has been designed with these points in mind.

- The ForestCoin release program is broken up into 25 stages each with a target of planting a number of trees equal to 1/25th (or 4%) of world population.
- Each stage releases 50% of all remaining coins, with the exception of the final stage which releases 100% of the remaining coins
- Therefore, Stage One will plant a number of trees equal to 1/25th (or 4%) of world population, but will issue ½ of all ForestCoins, at a rate of 12.5 coins per tree planted
- When the number of trees planted reaches 1/25th (or 4%) of the then current world population, Stage One will be closed, and the coins in Stage Two will be released
- Stage Two will release 50% of all remaining coins, at a rate of 6.25 ForestCoins per tree planted, and will close when the number of trees planted reaches 2/25th (or 8%) of world population.
- Stage Three will release ForestCoins at a rate of 3.125 ForestCoins per tree planted, and will close when the number of trees planted exceeds 3/25th (or 12%) of world population.
- And so on... right down to Stage 25 which will release 0.00000149 ForestCoins per tree.

The staged release program will benefit early adopters by rewarding them with a higher number of coins for each tree planted, and will encourage them to embrace ForestCoin and continue documenting their tree plantings during the early stages when ForestCoin may not have widespread use as a cryptocurrency. During the initial stages of the roadmap the value of ForestCoins will be \$0 in fiat currency, and allocating users a higher number of coins is a way of rewarding early user support.

Looking to the future, and basing estimates on the United Nations DESA report "World Population Prospects: The 2017 Revision", the maximum number of ForestCoins is estimated to be as follows:

2030

8.6 billion population, therefore a maximum 8.6 billion ForestCoins if 8.6 billion trees are planted

2050

9.7 billion population, therefore a maximum 9.7 billion ForestCoins if 9.7 billion trees are planted

2100

11.2 billion population, therefore a maximum 11.2 billion ForestCoins if 11.2 billion trees are planted

Coin Release Program

The following table showing the full coin release program is based on the world population on the date that the ForestCoin idea was originally conceived, December 14th 2017

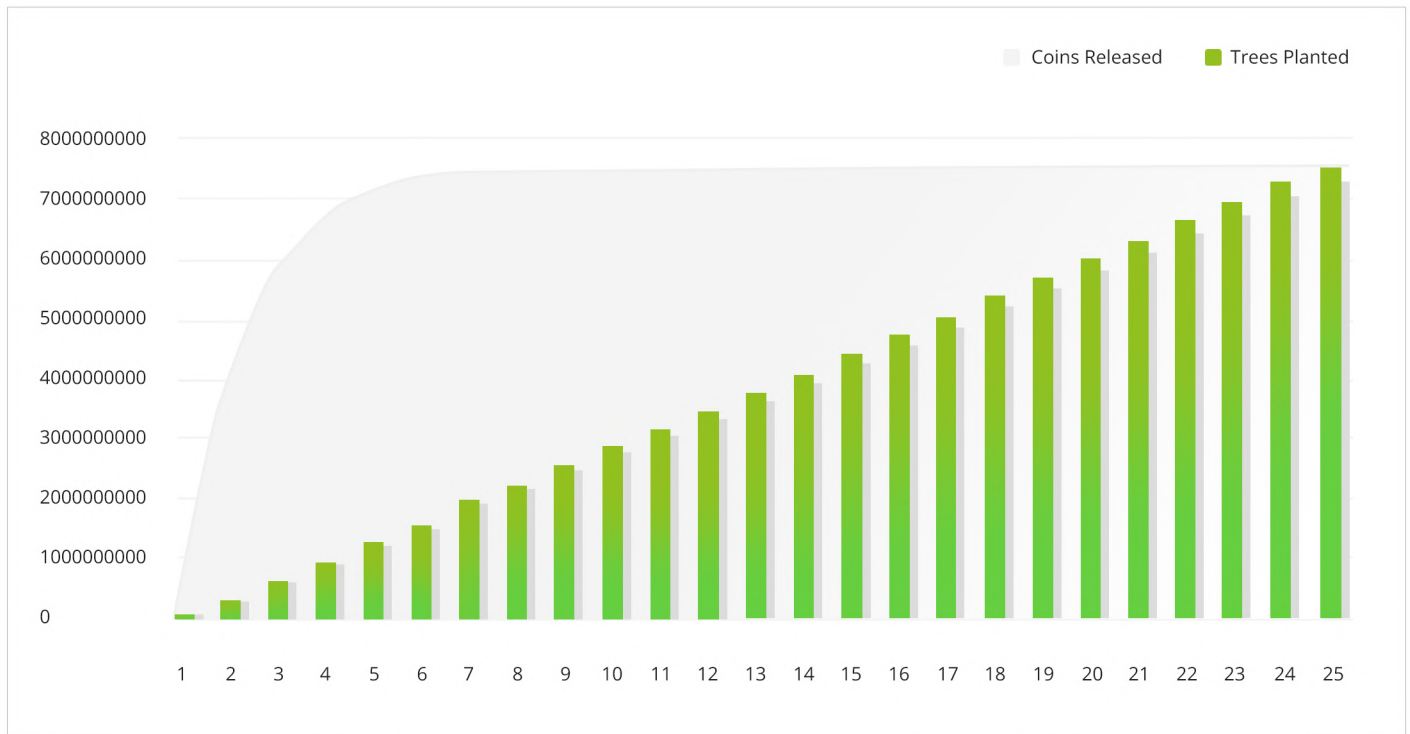
- The World Population on December 14th 2017 was 7,587,566,153
- The maximum number of ForestCoins possible on December 14th 2017 would have been 7,587,566,153
- The number of trees that would have had to have been planted on this date to issue all coins would have been 7,587,566,153
- One tree for every person. One ForestCoin for every tree.

Coin Release stage	Coins released in stage as % of all coins	Total coins released to date	Coins in stage (dynamic number that will change daily with population)	Total Coins released to date	Number of trees to plant to close the stage	Total Trees Planted (cumulative)	% of goal	Coins issued per tree
1	50%	50%	3,793,783,077	3,793,783,077	303,502,646	303,502,646	4%	12.5
2	25%	75%	1,896,891,538	5,690,674,615	303,502,646	607,005,292	8%	6.25
3	12.5%	87.5%	948,445,769	6,639,120,384	303,502,646	910,507,938	12%	3.125
4	6.25%	93.75%	474,222,885	7,113,343,268	303,502,646	1,214,010,584	16%	1.5625
5	3.125%	96.88%	237,111,442	7,350,454,711	303,502,646	1,517,513,231	20%	0.78125
6	1.5625%	98.44%	118,555,721	7,469,010,432	303,502,646	1,821,015,877	24%	0.390625
7	0.78125%	99.22%	59,277,861	7,528,288,292	303,502,646	2,124,518,523	28%	0.1953125
8	0.390625%	99.61%	29,638,930	7,557,927,223	303,502,646	2,428,021,169	32%	0.09765625
9	0.195313%	99.80%	14,819,465	7,572,746,688	303,502,646	2,731,523,815	36%	0.04882813
10	0.097656%	99.90%	7,409,733	7,580,156,420	303,502,646	3,035,026,461	40%	0.02441406

Coin Release Program

Coin Release stage	Coins released in stage as % of all coins	Total coins released to date	Coins in stage (dynamic number that will change daily with population)	Total Coins released to date	Number of trees to plant to close the stage	Total Trees Planted (cumulative)	% of goal	Coins issued per tree
11	0.048828%	99.95%	3,704,866	7,583,861,287	303,502,646	3,338,529,107	44%	0.01220703
12	0.024414%	99.98%	1,852,433	7,585,713,720	303,502,646	3,642,031,753	48%	0.00610352
13	0.012207%	99.99%	926,217	7,586,639,936	303,502,646	3,945,534,400	52%	0.00305176
14	0.006104%	99.99%	463,108	7,587,103,045	303,502,646	4,249,037,046	56%	0.00152588
15	0.003052%	99.997%	231,554	7,587,334,599	303,502,646	4,552,539,692	60%	0.00076294
16	0.001526%	99.998%	115,777	7,587,450,376	303,502,646	4,856,042,338	64%	0.00038147
17	0.000763%	99.999%	57,889	7,587,508,264	303,502,646	5,159,544,984	68%	0.00019073
18	0.000381%	99.9996%	28,944	7,587,537,209	303,502,646	5,463,047,630	72%	0.00009537
19	0.000191%	99.9998%	14,472	7,587,551,681	303,502,646	5,766,550,276	76%	0.00004768
20	0.000095%	99.9999%	7,236	7,587,558,917	303,502,646	6,070,052,922	80%	0.00002384
21	0.000048%	99.99995%	3,618	7,587,562,535	303,502,646	6,373,555,569	84%	0.00001192
22	0.000024%	99.99998%	1,809	7,587,564,344	303,502,646	6,677,058,215	88%	0.00000596
23	0.000012%	99.99999%	905	7,587,565,248	303,502,646	6,980,560,861	92%	0.00000298
24	0.000006%	99.99999%	452	7,587,565,701	303,502,646	7,284,063,507	96%	0.00000149
25	0.000003%	100%	452	7,587,566,153	303,502,646	7,587,566,153	100%	0.00000149

Coin Release Program



Notes

- The exact world population is constantly changing, and consequently the tree planting targets, and the stage targets will change daily. Up to the minute numbers are shown on the ForestCoin website
- Note on the stage changeover in the coin release program and unreleased coins from earlier stages: By the time the end of Stage 2 is reached (when 8% of the full target is reached), it may be the fact that Stage 1 only released 3.98% of the total coins based on the Stage 2 end date world population because the population would have grown during Stage 2. This means that Stage 2 will have accounted for 4.02% of the trees planted to date,

and Stage 1 therefore has a portion of coins that need to be created and issued to bring the number up to its 4% of current world population allocation. These coins will be minted and donated to a tree planting program as determined by the Directors of ForestCoin.

- Beyond 100% - in event that more than 100% of the tree target is planted, ForestCoin will continue to issue coins to tree planters. The number of coins created will be maintained so as to be in parity with the population growth for each day, and will be divided by the number of trees planted in the day. For example if world population increases by 1000 people in a day, and if 2000 trees are documented as being planted on that day, then 1000 coins will be created which equals 0.5 coins created per tree planted and these will be shared

Coin Release Program

as per the normal breakdown. This will ensure that there is still the incentive to plant trees even after 100% of the target has been achieved.

- Population decline prior to reaching the 100% target is not an issue as it will just cause the changeover milestones to be reached earlier.
- Population decline after reaching the 100% target will be an issue as it will not be possible to create new coins to disperse to planters.

*“One tree for every person
One ForestCoin for every
tree.”*



Breakdown of released coins

When the ForestCoins are created, they are issued as per the following breakdown. The numbers in the table below are based on Stage One when the coin reward is 12.5 coins per new tree

Tree Planter	10 ForestCoins	80%	Note (a)
Referrer (or to ForestCoin if no referrer)	0.5 ForestCoins	4%	Note (b)
Crowdsourced approver 1	0.25 ForestCoins	2%	Note (c)
Crowdsourced approver 2	0.25 ForestCoins	2%	Note (d)
Crowdsourced approver 3	0.25 ForestCoins	2%	Note (e)
Node that creates the block	0.125 ForestCoins	1%	Note (f)
Local market contingency fund / or local donation fund	0.125 ForestCoins	1%	Note (g)
Forestcoin for development and maintenance of the system	1 ForestCoin	8%	Note (h)
Total	12.5 ForestCoins	100%	Note (i)

Breakdown of released coins

- a** The user that plants the tree is issued 80% of the coins, which in stage one is 10 coins.
- | | | |
|--------------|----------------|-----|
| Tree Planter | 10 ForestCoins | 80% |
|--------------|----------------|-----|
- b** ForestCoin has an inbuilt referral system. At sign up, users receive a unique signup code and link that they are encouraged to share on social media. If a new user signs up using a referral code or referral link then the referrer will receive 4% of the new coins issued from any tree planted by the new user, which in stage one will equal 0.5 ForestCoins per tree planted. This is an ongoing and perpetual referral fee for all future tree plantings by the new user. Users should note that entering a referral code can only be done at signup, and cannot be changed after registration. If no referral code is entered then the ForestCoin company is the referrer.
- | | | |
|--|-----------------|----|
| Referrer (or to ForestCoin if no referrer) | 0.5 ForestCoins | 4% |
|--|-----------------|----|
- c** Crowdsourced approver 1, 2 and 3 receive 2% of new coins each (total 6%) for verifying the tree planting. If there is not enough of a crowd, and there is a backlog of unapproved trees that have not had crowdsourced approval then the ForestCoin company will take on the role of verifying the tree plantings, and will receive either the 2%, 4% or 6% for approving the tree planting. If a tree is flagged as a false planting then the voters do not receive any coins.
- | | | |
|-------------------------|------------------|----|
| Crowdsourced approver 1 | 0.25 ForestCoins | 2% |
| Crowdsourced approver 2 | 0.25 ForestCoins | 2% |
| Crowdsourced approver 3 | 0.25 ForestCoins | 2% |
- d**
- e**
- f** The coins are minted and a transaction is created and transmitted to a node. The POET consensus algorithm then randomly selects the node to write the transactions to the blockchain and the user that is running the winning node receives 1% of the new ForestCoins, which in Stage One is 0.125 ForestCoins per tree planted. The ForestCoin developers believe that this is incentive enough to provide sufficient nodes for a stable network.
- | | | |
|-----------------------------|-------------------|----|
| Node that creates the block | 0.125 ForestCoins | 1% |
|-----------------------------|-------------------|----|

Breakdown of released coins

In the adjacent hypothetical example, earning 10 coins just for running the node software in the background of a computer whilst the computer is also available for the everyday use should be appealing to many ForestCoin users as it is the equivalent amount of coins earned for planting one tree

An example scenario	
Active tree planters on a day	1000
Trees planted by each	2.5
Trees planted	2500
New coins	31250 (@12.5 per tree)
% to the node	1%
Coins to nodes	312.5
Number of nodes	31
Avg coins to each node	10.08064516

g 1% of the new ForestCoins, which

Local market contingency fund / or local donation fund	0.125 ForestCoins	1%
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in stage one is 0.125 ForestCoins are put aside into a “local market contingency fund / or local donation fund” wallet controlled by ForestCoin for each country. The purpose is to have a source of funds that can be reserved for any special need in any country. For example, if there is a special regulatory requirement in country x that causes a compliance issue and creates an additional cost in order for ForestCoin to legitimately operate in that country, then the 1% of new coins from trees planted within that country will be used to cover the cost of that requirement. If there is no extraordinary contingency on which to spend the funds then the 1% will be donated to a local Tree Planting program so they can sell the coins to further finance their operations.

h ForestCoin will receive 8% of the new coins, which in stage 1 is 1 ForestCoin for every tree planted. This will be retained and sold to finance ongoing maintenance and development of the ForestCoin platform, as well as covering the costs of regulatory compliance, and if possible, a profit (although, profit is not the main aim of ForestCoin, the main aim is to monetize the planting of trees for the health of our planet).

ForestCoin	1 ForestCoins	8%
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Target Markets



Organisational Accounts

ForestCoin recognises that there may be tree planting organizations (for example businesses, government organizations, or non government organizations) that may want to share the ForestCoin reward with their employees that actually do the tree planting, therefore ForestCoin has developed an organization account where an organization can add and remove employees, and set a percentage split for the sharing of the 80% (10 coins in Stage One) tree planting reward Eg

- 100% to the organization, and 0% to employee, or
- 0% to the organization, and 100% to employee, or
- Any split in between



Consumers

In order to pay for goods and services with ForestCoin, consumers will first of all have to either plant a tree and earn ForestCoin, or buy ForestCoin at a

cryptocurrency exchange. The act of buying ForestCoin is essentially giving money to tree planters.

Simply by choosing to pay for goods and services using ForestCoin, a consumer has monetized the planting of a tree. This is profound, and it deserves repeating.

Simply by choosing to pay for goods and services using Forest Coin, a consumer has monetized the planting of a tree.

This is truly a planet changing concept.

ForestCoin aims to win the hearts and minds of millions of people who want to pay for the goods and services that they consume exclusively by ForestCoin, and by no other method.



Businesses

Businesses that choose to accept ForestCoin will have the benefit of being able to promote their brand as being one that supports

tree planting.

ForestCoin's developers are developing point of sale and online merchant facilities under the brand forestmerchant.com. Upon payment from the customer the ForestCoins will be transferred to the merchant's choice of wallet, which may be their mobile application wallet, windows wallet, or direct to the exchange forest.com cryptocurrency exchange for immediate exchange into other cryptocurrencies or possibly fiat currency (eg USD).



Price Stability

A transactional coin is most useful to businesses if it has a reasonably stable price. Businesses are wary of accepting a currency if there is a chance that the currency will halve its value tomorrow. While it is natural to think that if a coin doubles in value then that must be a good thing, the reality is that if something goes up fast, it can also go down fast, therefore stability in value is the most desirable objective.

There are good theoretical

Target Markets

reasons as to why ForestCoin will be a relatively stable priced coin over the short to medium term, but will have the potential of upward price pressure over the long term.

Short / Medium Term

- Factors supporting the price

ForestCoin aims to be the cryptocurrency that wins the hearts and minds of millions of people around the world because of its ecological benefits. It has broad appeal because it monetizes the planting of trees. It is a legitimate product in that all users have gone through Know Your Customer compliance checks, and Anti Money Laundering compliance checks.

ForestCoin is fast, easy to use, and has no transaction fees for the transfer of funds. It will appeal to consumers wanting a green way to pay for goods and services. This broad appeal and continual buyer demand to acquire ForestCoins for everyday purchases will support the price.

- Factors preventing a sudden surge in ForestCoin value.

The value of ForestCoin has a point at which users will be motivated to plant trees in order to receive coins so they can then exchange them for goods and services or other currency.



Hypothetically, if planting a tree costs \$5, and if the ForestCoin user receives 10 coins as they do in Stage One, and if those coins have a value of \$0.50 each then the tree planting will pay for itself. Any value above \$0.50 per coin will motivate users to buy and plant trees to make a profit. This motivation point will have the

effect of limiting the value of ForestCoin within each stage. If the coin price rises to a certain value then people will be motivated to plant trees - so more coins will be issued into circulation and the coin price will stabilize.

Long term

As ForestCoin progresses through the 25 stages, the coin reward halving will allow ForestCoin's price to rise as the motivation point will double at the each stage changeover. Previously if a user received 10 coins for planting a tree in Stage One, but then only receives 5 coins for planting a tree in Stage Two, then the value of the coin needs to double in order for them to be motivated to plant a tree for profit reasons.

It is at this point that ForestCoin's value will have the room to rise, and potentially could double if there is enough buyer demand. As ForestCoin progresses through the 25 stages the coin reward lowers from 12.5 coins per planted tree to 0.00000149 coins per planted tree leaving a large amount of room for price growth.

Administration



Security

ForestCoin is a permissioned blockchain, meaning users on the network are identified and can be blocked by ForestCoin administration if required.

Key security measures include:

ForestCoin Business Layer

- Extensive but confidential security processes in place

Mobile Wallets

- Password protected
- Integrated with Google Authenticator (optional but recommended)

Windows Wallets

- Password protected
- Seed word recovery option
- Integrated with Google Authenticator (optional but recommended)

Node Software

- Required user sign in with user blocking features.
- Executable install program with Business Layer authentication checks

- Business Layer monitoring of lottery wins and statistical analysis for detecting anomalies



Compliance and control

All ForestCoin users must be identified under international Know Your Customer Laws and Anti Money Laundering laws. ForestCoin administrators have the ability to track transfers, and can lock any private key in effect closing or freezing the wallet and locking the coins. The Forestcoin company will establish and maintain an Anti-Money Laundering (AML) Program that will comply with international laws.



Financing

The development of ForestCoin has been financed by tree loving private investors that would like

to see a vibrant and healthy natural planet.

In order for ForestCoin to be live and operational in an effective peer to peer network it needs thousands (possibly millions) of users to go through KYC and AML checks. It is estimated that these checks will cost approximately USD\$3 per user.

Unlike most Initial Coin Offerings where investors buy the new coin using other cryptocurrency or fiat, ForestCoins are gifted to tree planting users without the user having to pay for them. This creates a problem with the financing of the KYC/AML compliance checks as the ForestCoin company does not have instant revenue from the new users to pay for the compliance costs.

To solve this problem, a ForestCoin user's wallet will be locked until they make a USD\$3 payment to ForestCoin to cover the cost of their KYC/AML checks.

This payment will be their first transaction and can be made with ForestCoins earned from planting trees, or when the user buys ForestCoins at a cryptocurrency exchange.

Road Map

1

Development - **completed**

- Development of the ForestCoin Cryptocurrency - completed
- HyperLedger Blockchain peer to peer network - completed
 - Administration Business Layer - completed
 - User management
 - Minting and allocating coins
 - Node software - completed
 - IOS app - completed
 - Android app - completed
 - Windows wallet - completed
 - Mac wallet - under development
 - Public website at www.forestcoin.earth - completed

2

Issuing ForestCoins to tree planters - **currently in process**

- Allowing users to sign up without the requirement of KYC/AML checks
- Coins are minted and issued as trees are planted and verified.
- No transactions will be permitted until KYC/AML is completed at a later step in this roadmap.
- All wallets are frozen from sending coins.

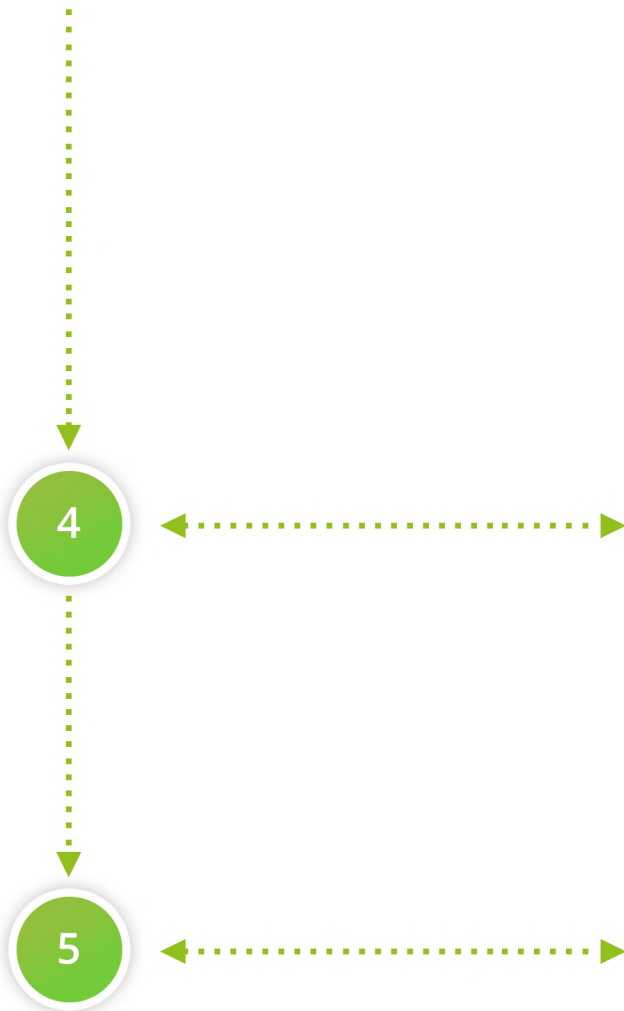
3

Development of a cryptocurrency exchange - **under development** - target launch date: June 2019

EF | EXCHANGE
FOREST

- The developers of ForestCoin are currently developing www.exchangeforest.com, which will be a cryptocurrency exchange specializing in ForestCoin Trading Pairs, initially
 - ForestCoin > Bitcoin
 - ForestCoin > Bitcoin Cash
 - ForestCoin > Yet to be determined stable coins linked to USD, EUR, and other major currencies

Road Map



- The developers of ForestCoin are also developing
 - Online Merchant facilities for website and app integration and
 - Point of Sale (PoS) merchant facilities for integration for instore at the counter sales
- When exchangeforest.com is live and operational, there will then be a market for buying and selling ForestCoin, and therefore the currency will have a value, which will enable the progression to Stage 4 in this roadmap

KYC / AML checks

The cost of doing KYC/AML checks is estimated to be approximately USD\$3 per user. This cost will be passed on to the user who can pay for it either from:

- The user's ForestCoin wallet, as a first outgoing transaction from the user to ForestCoin at the exchange rate available on exchangeforest.com, or
- exchangeforest.com, as a first transaction when the user buys ForestCoins

Allowing Transactions

After the KYC/AML check has been completed and approved the user's wallet will be unfrozen and they may commence transacting with other approved wallets on the ForestCoin peer to peer network

Intellectual property

The name 'ForestCoin' is trademarked in

- USA - Trademark Number 87732448
- European Union Trade Mark (EUTM) application number 017947586 - pending
- Singapore application number 40201823455P - pending

Development Team

ForestCoin has been developed using resources supplied by Tender Software. Established in 2007, Tender Software is a specialist Software Outsourcing Company with offices in USA, UK, Australia and India. For assistance with your development needs please go to tendersoftware.com

*“One tree for every person
One ForestCoin for every
tree.”*

