

## **Agouti Whitepaper.**

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**Agouti:** rodent in the genus *Dasyprocta*, which consists of 12 known species found throughout Central and South America. These small mammals may grow up to 2.5 feet long and weigh up to 13 pounds [1]. Their fur comes in many shades of orange, brown and black, with individual hairs having alternating black and buff bands creating an agouti pattern. Most species exist in small habitat ranges in the tropical Americas – some are even restricted to single islands. A few species, however, are more widely distributed in the Amazon rainforest, and those include the Blackrumped, Red-rumped and Black Agoutis. [1]

### **Bitcoin:** A Peer-to-Peer Electronic Cash System.

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hashbased proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone. [2]

Before continuing, I would strongly advise the reader to review the Bitcoin Whitepaper in full. Next on the list is "The Bitcoin Standard" by Saifedean Ammous (available in all good book shops).

### **Back to Agouti...**

Agouti is a cryptocurrency based on Bitcoin blockchain technology. This is the right place to extend a massive "Thank You" to Satoshi Nakamoto, who created the open source code that is actively changing the world we live in.

We at Agouti would also like to extend an equally big "Thank you" to the Dash and PIVX developers; without their continued hard work Agouti would not have a chance to exist.

### **What makes Agouti different from other Bitcoin Proof Of Stake Masternode clones?**

The main difference here is that Agouti is powered purely by Proof of Stake. No significant computation power is necessary to run full node.

In Agouti, not all of the block reward is given to coin owners. A small part is reserved specifically for donations that go towards helping people in need. How big that will be? Well, the donation percentage of each block reward remains constant, so the value received by the people depends only on the value of the coin itself. If you believe in this vision as much as I do, I would encourage you to stay active in the Agouti community to help our goals become realized.

Agouti will not, in any way, undermine the Bitcoin market position as the most important cryptocurrency and store of value. Agouti is a cryptocurrency with the specific purpose of helping others. It will be a privilege if others decide to copy or modify Agouti code to share wealth with less fortunate human beings.

### **Coin specifications:**

Coin Name : Agouti  
Ticker : AGU  
Algorithm : Quark  
Max supply : 3,000,000  
Block-Time : 60 sec.  
MN collateral : 3,000 AGU

### **Block Reward:**

Block 1: Pre-mine of 1 809 759 AGU to initiate the LUQ:AGU swap  
2 – 44 640: 1.5 AGU (1 month coin swap period)  
44 640- 570 240: 1 AGU (First year)  
570 240 – 1 095 840: 0.5 AGU  
1 095 840 – 1 621 440: 0.25 AGU  
1 621 440 – ∞: 0.125 AGU  
POS 10% / MN 88% / CHAR 2%

**POS** – Proof of Stake – The percentage of rewards distributed to people holding coins in active wallets.

**MN** – Masternode – The percentage of rewards distributed to active masternode holders.

**CHAR** – Charity – The percentage of rewards sent to the fund used for charity works and donations.

### **Coin swap**

Owners of Lunique (LUQ) will be able to buy AGU in a 1:1 ratio during the period of time between September 20th, 2018 and October 19th, 2018.

The pre-mine of 1 809 759 AGU will cover the maximum supply of LUQ coins on last day of swap.

Block rewards for both coins will be the same (1.5/block) until October 19th, 2018 in order to prevent any delays in transitioning.

Any remaining, unswapped AGU from the pre-mine will be used for bounty programs, airdrops, and advertising campaigns.

Once the swap period has commenced, all LUQ will be returned to their owner's original wallets.

### **Democratic use cases**

During the first year of Agouti's blockchain activity, the reward will be 1 AGU per block, of which 2% is dedicated for charitable causes. That comes to an estimated 864 AGU supplied during each month of the "superblock" period, ending at block height 570 240. Each following year will be subject to a 50% reduction in block rewards from the previous year.

Each use case for Agouti will be voted for by masternode owners. This is something that all masternode owners have to be aware of. Unlike with other masternode projects, owning an Agouti masternode comes with the privilege and responsibility of lending an active voice and voting for future projects and roadmap implementations. Using a masternode pool will negate this privilege; an individual may own coins within a pool, but may not cast a vote.

In order for a project to receive a "YES", 10% of the vote from masternode owners must be in favour of that project. Deep consideration will be necessary and crucial in order to gain voters for each proposal.

Proposals must be submitted to the Agouti community with a detailed outline that includes the nature of the problem, the involvement (use case) of Agouti in that situation, and any solutions that may arise from Agouti's involvement.

Up to 10% of the budget voted for will be saved for indirect costs accrued by the proposer, if he/she includes those costs, in detail, within the job proposal prior to voting.

Lastly, the Agouti community will not reject the option of funding previously launched projects if they demonstrate promise.

### **To summarize:**

As an Agouti masternode holder, you have a **direct involvement** in our community, and a **direct hand** in helping us achieve the vision that Agouti represents.

## Appendix.

### Masternode Budget API [3]

The Agouti blockchain supports full decentralized budgets that are paid directly from the blockchain on a monthly basis via superblocks.

Budgets go through a series of stages before being paid:

- preparation – create a special transaction that destroys coins in order to make a proposal
- submission – propagate transaction to peers on network
- voting – lobby for votes on your proposal
- consideration – make it into the budget
- finalization – at the end of each payment period, proposals are sorted then compiled into a finalized budget
- finalized budget voting – masternode owners that agree with the finalization will vote on that budget
- payment – the winning finalized budget is paid

### Process Overview

#### 1. Prepare collateral transaction

```
mnbudget prepare <proposal-name> <url> <payment_count> <block_start> <agu_address>  
<monthly_payment_ago> [use_ix(true|false)]
```

Example:

```
mnbudget prepare cool-project http://www.cool-project/one.json 12 100000  
a6R9oN12KnB9zydzTLc3LikD9cCjjQzYG7 864 true
```

Output: 464a0eb70ea91c94295214df48c47baa72b3876cfb658744aaf863c7b5bf1ff0 – This is the collateral hash, copy this output for the next step

In this transaction we prepare collateral for “cool-project”. This proposal will pay 864 AGU, 12 times over the course of a year, totalling 10 368 AGU.

**\*Warning — if you change any fields within this command, the collateral transaction will become invalid.**

#### 2. Submit proposal to network

```
mnbudget submit <proposal-name> <url> <payment_count> <block_start> <agu_address>  
<monthly_payment_ago> <collateral_hash>
```

Example:

```
mnbudget submit cool-project http://www.cool-project/one.json 12 100000  
a6R9oN12KnB9zydzTLc3LikD9cCjjQzYG7 864
```

```
464a0eb70ea91c94295214df48c47baa72b3876cfb658744aaf863c7b5bf1ff0
```

Output: a2b29778ae82e45a973a94309ffa6aa2e2388b8f95b39ab3739f0078835f0491 – This is your proposal hash, which other nodes will use to vote on it

#### 3. Lobby for votes

Double check your information:

```
mnbudget getinfo <proposal-name>
```

Example:

```
mnbudget getinfo cool-project
```

Output:

```
{  
  "Name" : "cool-project",  
  "Hash" : "a2b29778ae82e45a973a94309ffa6aa2e2388b8f95b39ab3739f0078835f0491",  
  "FeeHash" : "464a0eb70ea91c94295214df48c47baa72b3876cfb658744aaf863c7b5bf1ff0",  
  "URL" : "http://www.cool-project/one.json",  
  "BlockStart" : 100000,
```

```

"BlockEnd" : 100625,
"TotalPaymentCount" : 12,
"RemainingPaymentCount" : 12,
"PaymentAddress" : "a6R9oN12KnB9zydzTlc3LikD9cCjjQzYG7",
"Ratio" : 0.00000000,
"Yeas" : 0,
"Nays" : 0,
"Abstains" : 0,
"TotalPayment" : 10368.00000000,
"MonthlyPayment" : 864.00000000,
"IsValid" : true,
"Valid" : true
}

```

If everything looks correct, you can ask for votes from other masternode owners. To vote on a proposal, load a wallet with masternode.conf file. You do not need to access your cold wallet to vote for proposals.

```
mnbudget vote <proposal_hash> [yes|no]
```

Example:

```
mnbudget vote a2b29778ae82e45a973a94309ffa6aa2e2388b8f95b39ab3739f0078835f0491 yes
```

Output: Voted successfully – Your vote has been submitted and accepted.

#### 4. Make it into the budget

After you get enough votes, execute mnbudget projection to see if you made it into the budget. If your budget was finalized at this moment, your proposal will be in it. Note: Proposals must be active at least 1 day on the network and receive 10% of the masternode network in yes votes in order to qualify (E.g. if there is 2500 masternodes, you will need 250 yes votes.)

Example:

```
mnbudget projection
```

Output:

```

{
"cool-project" : {
"Hash" : "a2b29778ae82e45a973a94309ffa6aa2e2388b8f95b39ab3739f0078835f0491",
"FeeHash" : "464a0eb70ea91c94295214df48c47baa72b3876cfb658744aaf863c7b5bf1ff0",
"URL" : "http://www.cool-project/one.json",
"BlockStart" : 100000,
"BlockEnd" : 100625,
"TotalPaymentCount" : 12,
"RemainingPaymentCount" : 12,
"PaymentAddress" : "a6R9oN12KnB9zydzTlc3LikD9cCjjQzYG7",
"Ratio" : 1.00000000,
"Yeas" : 33,
"Nays" : 0,
"Abstains" : 0,
"TotalPayment" : 10368.00000000,
"MonthlyPayment" : 864.00000000,
"IsValid" : true,
"Valid" : true
}
}

```

Finalized budget

```

"main" : {
"FeeTX" : "d6b8de9a4cadfe148f91e8fe8eed407199f96639b482f956ae6f539b8339f87c",
"Hash" : "6e8bbaba5113de592f6888f200f146448440b7e606fcf62ef84e60e1d5ac7d64",

```

```
"BlockStart" : 100000,  
"BlockEnd" : 100000,  
"Proposals" : "cool-project",  
"VoteCount" : 46,  
"Status" : "OK"  
},
```

Get paid

When block 1000000 is reached you'll receive a payment for 864 AGU.

RPC Commands

The following new RPC commands are supported:

- mnbudget "command"... ( "passphrase" )
- prepare – Prepare proposal for network by signing and creating tx
- submit – Submit proposal for network
- vote-many – Vote on a AGU initiative
- vote-alias – Vote on a AGU initiative
- vote – Vote on a AGU initiative/budget
- getvotes – Show current masternode budgets
- getinfo – Show current masternode budgets
- show – Show all budgets
- projection – Show the projection of which proposals will be paid the next cycle
- check – Scan proposals and remove invalid
- mnfinalbudget "command"... ( "passphrase" )
- vote-many – Vote on a finalized budget
- vote – Vote on a finalized budget
- show – Show existing finalized budgets

## References.

[1] <https://amazonaid.org/?s=agouti>

[2] <https://bitcoin.org/bitcoin.pdf>

[3] <https://github.com/PIVX-Project/PIVX/blob/master/doc/masternode-budget.md>