WHITE PAPER VERSION 1.0

(April 16, 2020)

What is our primary objective?

Seed2Need (**$FARM**) is an organically grown cryptocurrency project. We have dedicated ourselves to deliver blockchain awareness to the agricultural sector. We understand that broadcasting our knowledgeable development team, along with a passionate "do-it-yourself" community, will aid us in advocating for continuous agricultural expansion.

Seed2Need is built on several strong core values. We understand that core values are imperative in ensuring the overall expansion of the project and in delivering the greatest benefits to our community. In broadcasting sustainability, meaning to perpetuate existence along with providing sustenance and nourishment, we assure our community that this project will continually gain value and attain maximum potential through several aspects that make up **Seed2Need**.

This document attempts to answer the following questions:

1. What is Seed2Need ($FARM)?

Seed2Need, also officially known as **$FARM**, utilizes an advanced blockchain technology that incorporates three types of block generation. Regarding the chronological state of the blockchain, we begin with Proof-of-Work (**PoW**). Next, we incorporate Proof-of-Stake (**PoS**) and masternode (**MN**) technology. Once **PoW** has ended, only **PoS** and **MN** will remain.

The total supply of **$FARM** is 22,500,000,000 coins. The block time that has been issued is 1.5. A difficulty algorithm has been placed to allow our blockchain to retarget block difficulty every block. This act protects the chain from instantaneous mining and ensures rewards for the community are easily obtained. The **PoW** phase for **$FARM** ends at block 2,000. From there, **Seed2Need** will exclusively use the **PoS** and **MN** technologies to gain reward and initiate a more stable network. The removal of **PoW** aims to ensure **Seed2Need** is a more eco-friendly coin and reduces the need for considerable amounts of electricity, as we currently see with Bitcoin. Additionally, this ensures that obtaining **$FARM** through rewards costs less for the user.

Please refer to table 1.1 for more information regarding the **$FARM** blockchain rewards.

PHASE	BLOCKS PER PHASE		REWARDS
Pre Mine Phase	0	1	50,000,000
pow	2	2,000	
Phase 1	2,001	1,331,017	2,500
Phase 2	1,331,018	2,660,334	2,400
Phase 3	2,660,335	3,989,051	2,200
Phase 4	3,989,052	5,318,068	2,000
Phase 5	5,318,069	6,647,085	1900
Phase 6	6,647,086	7,976,103	1800
Phase 7	7,976,104	9,305,120	1700
Phase 8	9,305,121	9,999,999,999	

2. What is the hashing algorithm?

The **Seed2Need** blockchain utilizes the Quark algorithm for security purposes. Quark is an algorithm for mining cryptocurrency based on a one-level hash function consisting of nine levels of encryption by six different cryptographic algorithms. Quark does not demand large amounts of RAM. Additionally, Quark has a high 64-bit protection against hostile attacks and ultimately aims to improve the overall security and stability for the user.

3. What is Proof-of-Stake/Proof-of-Work?

The Proof-of-Work (**PoW**) system, when referencing cryptocurrency, was constructed and designed by the entity Satoshi Nakamoto, the creator of Bitcoin.

PoW is the competition of hardware contending against one another to generate the next successful hash assisting to secure the next block within the corresponding blockchain. The manner of this overall process creates a decentralization of workers, thus producing a trustless consensus.

PoS is the competition between the holders of the cryptocurrency. Based on arbitrary chance and the connectivity of the network, a holder may receive additional coins for assisting the continued decentralization of the network. **PoS** is the most energy efficient as it requires no added hardware or substantial amount of electricity to reward the user. Additionally, in many cases, it proves to be substantially resilient to a 51% attack on the network (Blackcoin Coin Team, 2016).

With the information provided, the route of a **PoS** network does come with vulnerabilities. As the network is not aware of anything except for the blockchain, a physical anchoring is absent. With this void, there are multiple methods that can influence the harming of the network. One specifically is titled a "bribe attack". This occurs when the attacker performs a spending transaction to inevitably reverse later. This is possible by building a false chain after the transaction ensues and publishing it once it is longer than the valid chain, resulting in the original transaction reversing. Even though this is possible to occur on the **PoW** network, it is targeted more often on one solely built on **PoS** because of it being inexpensive and less difficult.

4. What are masternodes?

Masternodes (**MN**) are simply a node that retains a full copy of the blockchain in real time. It is active 24/7 and is continuously interacting with other masternodes to ensure a fully stable and performing decentralized network.

Masternodes allow:

- Instantaneous sending
- Increased transaction privacy
- Reward collection without active use
- Enabled budgeting and treasuring systems

Operating a **MN** assists the network, as there will always be a stable node with multiple connections around the world running. As a reward, any individual that hosts a **MN** will be compensated with **$FARM** which is paid directly to their wallet on a reoccurring basis.

5. What is required to run a masternode?

- A dedicated IP address
- Collateral: 1,000,000 **$FARM**
- A VPS, or server, to host the wallet 24/7
- Additional storage space to hold a copy of the blockchain

6. What is Cold Staking?

Cold staking is enabled by smart-contract functionality and allows users to securely delegate staking power to "staking nodes" which contain no coin. The purpose of these "staking nodes" is to provide a dedicated resource connected directly to the **$FARM** blockchain and stake on behalf of another wallet without being able to spend the coin.

"Staking nodes" are intended to be used in combination with cold hardware and multiple-signal addresses, ensuring the possibility to stake "offline coins" with no risk of being hacked or exposing your public key to the network. Staking nodes can be established on any device, secure or not, such as: cloud servers, software defined storages, or virtual machines.

7. What is the pre-mine allocation?

There was a .002% pre-mine of 50,000,000 **$FARM** generated to cover expenses towards the development and overall growth of **Seed2Need**. When developing the **MN** technology, we hold the right to limit sales in any way deemed necessary. This act ensures that not one person can purchase all **MN** available.

Below, Table 7.1 displays the overall allocation of the 50,000,000 **$FARM** pre-mine amount.

Pre-mine (.002%) Details	50,000,000	100%
Initial Coin Expenses	15,000,000	30%
Structual Expenses	10,000,000	20%
Marketing Initiative	7,500,000	15%
Operations & Maintenance	5,000,000	10%
Community Incentives	5,000,000	10%
Research & Development	5,000,000	10%
Merchandising	2,500,000	5%

8. What is "My Farm" and Farm Pods?

"My Farm" is a growing environment that has been outfitted with our specialized controller unit. The controller unit is an independent operational device that has the capability to report data from over 3,000+ possible sensor units. We have titled these units "Farm Pods", PODS for short. PODS report back analysis, such as: heat, humidity, PH levels, and other environmental conditions to the specialized controller unit to provide the most in-depth farming experience.

9. What separates the "My Farm" platform from others?

Seed2Need is a next generation cryptocurrency project that is collaborating and working with the agricultural community to elevate awareness of blockchain technology and how it ultimately assists in the agricultural space. The "My Farm" platform is user-friendly to allow even the newest of growers to produce healthy, strong, and more plentiful results by improving the growing conditions. Please see below for the targeted audiences:

- Individuals seeking more insight
- Individuals desiring to improve on time management
- Individuals who are interested in "do it yourself" solutions
- Individuals needing an unbiased point of view on growing conditions

10. How will $FARM be utilized?

Seed2Need allows the opportunity to utilize **$FARM** is several aspects. Unlike other cryptocurrencies, you will pay 0% in platform fees. Ultimately, the platform incentivizes itself to users. There are numerous uses for **$FARM**, including:

- Buying/selling directly from the merchant
- Buying/selling directly from partner services
- Purchases that are directly from brick and mortar merchants
- Purchases from partners through the "My Farm" service portal platform

11. What is the Total Rewards Program (TRP)?

Developing routes and solutions to reward our community is a key objective of ours. For this reason, we have created and introduced the "Total Rewards Program" (**TRP**). The **TRP** will include, but is not limited to:

- **Seed2Need** data bounties (**$FARM** Scientists)
- Community-based goals and incentives (**$FARM** Community)
- Partnership discounts and business rewards (**$FARM** Everywhere)

12. What are the community goals and rewards?

It is imperative that we develop and incorporate a strong community that will work together in creating a more secure blockchain network. No matter the role that someone may hold within the **Seed2Need** project, we stand together as the "**$FARM** Community". We aim to implement numerous community incentives that will reward the users who participate.

These incentives are specifically designed to bring together the community in a positive manner while promoting the overall growth and expansion of **Seed2Need**. Each incentive will have a custom amount of reward based on the rules specified. A few examples of these incentives include community bounties, invite challenges, and the world-community grid.

13. What are Seed2Need's farmer incentives?

As previously stated, **Seed2Need** is a next generation cryptocurrency project that works along side the agricultural community to create and spread awareness of blockchain technology. Sending your data to the "My Farm" portal will assist in improving our services. Using specific data algorithms, we gain the capability to determine trends that may produce a negative impact on your crop. Working along side 1,000's of growers, we can detect and alert for conditions that may show far in advance.

14. What are the business and partnership incentives?

Partnerships are imperative for any project's survival. We strive to establish partnerships in like-minded industries. All future partnerships are based on our "**$FARM** Everywhere" incentive, as stated in our **TRP** program. This rewards' program will establish a discount to those who choose to obtain goods and services utilizing **Seed2Need** cryptocurrency.