SUQA

Making the Blockchain Grow

Whitepaper

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1. Introduction

1. Introduction

SUQA is a new Peer–to–Peer digital currency with numerous advantages over recent predecessors. This paper will review legacy blockchain problems and how SUQA's feature rich protocol provides smart solutions.

1.1. The Problems

Talk of 'the blockchain' is inescapable. It is mentioned on an almost daily basis by newspapers, financial pundits, YouTubers, and so many other media sources. But despite the overwhelming buzz that surrounds distributed ledger technology (DLT), the adoption of blockchain-based platforms by institutions and businesses isn't anywhere near as overwhelming.

Only 15% of the top commercial banks in the world planned to launch full–scale commercial blockchains in 2017. Similarly, in comparison to the hundreds of ICOs being launched every month, there are few examples of companies actually using blockchain services for day-to-day purposes.

Moreover, trust is paramount in the blockchain and cryptocurrency domain. ICO and Pre-Mined coin scams have made miners and investors cautious. Our community keeps growing while demanding more sustainably profitable coins. Use cases are evaluated more carefully than ever with an interest in perpetually profitable coins which prove useful in daily real–life situations. Unfortunately, there are few coins integrated so pragmatically in today's cryptocurrency ecosystem.

1 – Lack of recognition and adoption of blockchain and digital payments.

2 – Lack of coins which are being used in real life ecosystems.

3 – Lack of Trust in cryptocurrency domain.

4 – Centralization threat from ASIC and FPGA companies.

5 – Quantum Attack threat from future Quantum Computers.

6 – Need for a new complex, secure, ASIC and FPGA resistant, memory optimized, post quantum algorithm for constant dynamic decentralization.

Comprehensive Solutions

2. Our Solution

The SUQA blockchain runs on the first-ever X22i POW algorithm. It is available to the average ordinary CPU and GPU miner with the goal of egalitarian mining. X22i is developed to be ASIC, FPGA and Quantum Computing resistant to assure the decentralized consensus mechanism.

Having a new, unique ASIC, FPGA, Quantum resistant algorithm is very helpful for the mining community and solves numerous problems for miners. Mining sources can be as ubiquitous and inexpensive as the vast array of CPUs and GPUs available. This means hardware used to mine the coins is readily available which guards against the centralization threat from ASIC and FPGA Companies. Apart from this, SUQA is keen on the incentive factors such as providing interest for time-locked coins.

For example, SUQA also gives investors 5% Annual Percentage Rate (APR) interest from term deposits even in the case when the wallet is offline. Having up to 5% APR interest for monthly time locked coins is beneficial for investors. Furthermore, as SUQA has No ICO, No Pre-mine, No Masternodes and Presale of the coins, its very much beneficial to the investors and miners.

But this is not enough to make SUQA profitable in the near and long term. True value generation can only come through integration and use throughout the existing cryptocurrency ecosystem. SUQA has also solved this problem by introducing SUQA foundation which is the ecosystem for SUQA.

SUQA's mission is to encourage not only veterans of the blockchain community but also newcomers in the community to make using the SUQA ecosystem attractive. SUQA gives big rewards transparently without taking exorbitant transaction fees. SUQA rewards cryptocurrency startups, cryptolancers, and charities by assuring zero-fee transactions inside its ecosystem. This incentive payment comes from the founders' fee rewards and from donations. SUQA blockchain will bring trust and decentralization to make the blockchain community grow and will keep paying rewards until the last mined SUQA coin.

Understanding SUQA

3. How SUQA Works

SUQA is the crypto evangelist coin created to help and enlarge the crypto community for mass adoption of the technology by giving meaningful rewards!

The SUQA community supports Foundation activities by mining or donating. This funding model makes sure there is a constant availability of coins to be used for all the rewards, activities and expenses of the foundation. As shown in the diagram, coins mined through SUQA blockchain rewards can be used in 2 ways. The first way is just to hold the coin and earn the APR interest on them, the other one is by using the coins in SUQA ecosystem.

Features (What Makes SUQA Different)

4. Features

SUQA has numerous features focused on miner and investor profitability. Major SUQA features include:

A. Speed:

Fastest POW coin at 533 transactions per second. This means 75 times more scalability than Bitcoin.

B. Rewarding:

Investors can earn 5% APR interest from term deposits even if the wallet is offline. First 3 months monthly term deposit APR will be 25% APR to encourage early adopters and investors. Friends, colleagues, and business partners can also send SUQA coins to time-locked addresses for friendly gifts or as a matter of a business agreement.

C. Almost No Transaction Fees:

SUQA makes instant payments with incredibly low fees. Using blockchain technology, transactions are performed directly between two digital wallets.

D. Protection

To ensure the safety of the SUQA ecosystem, SUQA has implemented full replay protection and unique wallet addresses. More importantly ASIC, FPGA and Quantum Attack protection make SUQA a very secure and future-proof digital currency.

E. Transparency

SUQA is a free open-source project that is built by expert blockchain developers and supported by a rapidly growing community of blockchain enthusiasts which spans the globe.

SUQA
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ASIC ATTACK

DECENTRALIZED

X22i

SUQA
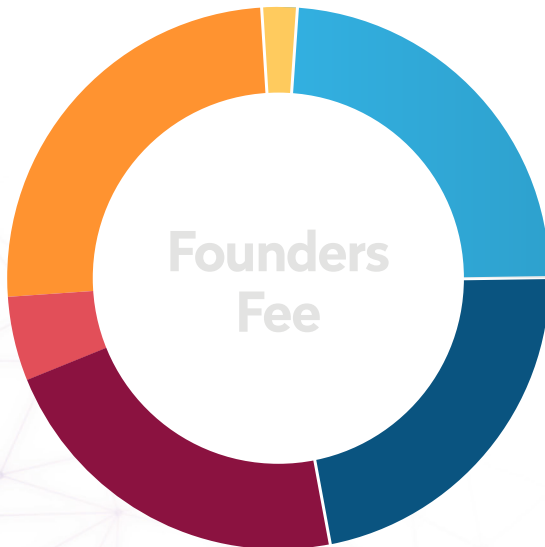Making the Blockchain Grow

X22i

CONSENSUS

FPGA ATTACK

QUANTUM
COMPUTER
ATTACK

Benefits (Competitive Advantage)

5. Benefits

One of the outstanding features of SUQA is time locked interest. To make the process fair and transparent, interest will be handled and guaranteed in the blockchain. Time-Locked Interest provides users the ability to earn from their term deposits for up to 5% APR when time-locked up to 4 weeks.

Interest favors short, mid and long term investors to Time-Lock their balances on locally owned and privately secured wallets. This is far more secure and functional when compared to the traditional trust required in traditional banking systems. No more lines, security cameras, or forms to fill out. Simply choose your terms in your locally controlled wallet and enjoy the guaranteed 5% APR. Unlike some other coins, investors can earn through SUQA just by HODL'ing it!

Founders Fee

SUQA Foundation takes 9.09% founders fee from every mined block.

- 1.75% of founders fee for Marketing and Bounties.

- 1.75% of founders fee for exchanges listing, investors, unforeseen expenses etc

- 0.5% Websites Development and Hosting.

- 0.1% Legal fees

- 2.5 % for Developers

- 2.5% of founders fee for SUQA Foundation Rewards.

Mining

6. Mining

SUQA developers have innovated a new mining algorithm which is not dominated by ASICs or hashpower renting services. SUQA's new POW mining algorithm called X22i also requires a new miner which is now readily available.

The coin is proof of work meaning that it can be mined with GPUs and CPUs. The most interesting thing about the X22i algorithm is the quantum resistant part in the algorithm chain called SWIFFTX and the promise that the project will remain FPGA and ASIC resistant.

SUQA made the mining process a lot more easier. CPU mining will be available from the desktop wallet with a simple "one-click" button to quickly activate CPU mining. GPU mining will be available from our open source GPU miner just by adding the server and wallet address.

Miners will also appreciate SUQA's efficiency and reduced heat profile. SUQA proves that mining operations don't have to maximize power consumption and heat output in order to be ASIC/FPGA/Quantum resistant. For larger miners this can mean easier scalability with less cooling and ventilation requirements.

Following are the details about mining:

Block Time   : 2 minutes
Max Block Size   : 16mb
Max transaction per second : 533 tx/s

Block Rewards
1 to 22,000 : 10,000 = 220,000,000
22,001 to 50,000 : 5,000 = 139,995,000
50,001 to 100,000 : 2.500 = 124,997,500
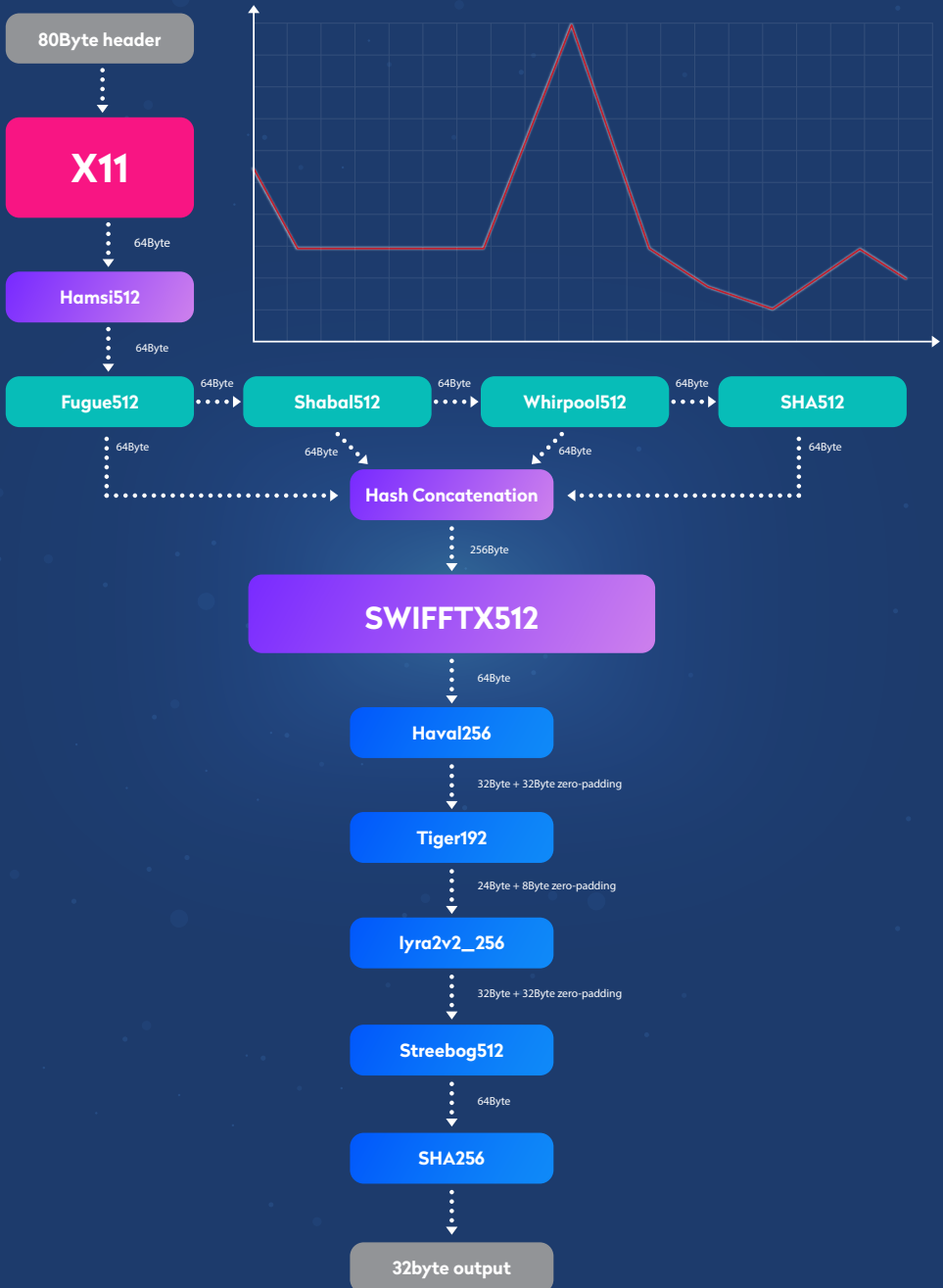100,001 to 200,000 : 1.250 = 124,998,750
200,001 to 400.000 : 625 = 124,999,375
400,001 to 1,500,000 : 312,5 = 343,749,688
TOTAL SUPPLY: 1,078,740,313 plus 9.09% for founders fee will be mined in 5.78 years
MAX TOTAL: 1,186,614,344 SUQA

X22i Internal State Width Chart

80Byte header

X11

64Byte

Hamsi512

64Byte

Fugue512 → 64Byte → **Shabal512** → 64Byte → **Whirpool512** → 64Byte → **SHA512**

64Byte   64Byte   64Byte   64Byte

Hash Concatenation

256Byte

SWIFFTX512

64Byte

Haval256

32Byte + 32Byte zero-padding

Tiger192

24Byte + 8Byte zero-padding

lyra2v2__256

32Byte + 32Byte zero-padding

Streebog512

64Byte

SHA256

32byte output

Technical Specifications

7. Technical Specifications

X22i pursues the goal of ASIC and FPGA resistance by implementing multiple additional features over outdated proof of work algorithm chains like X11. For example, SUQA raises the memory requirements by a factor of four which is not a problem for CPU and GPU but much harder for FPGA and ASIC, as they need to either use commodity RAM (giving them no advantage over CPU and GPU) or implement more internal ram, increasing the chip space needed.
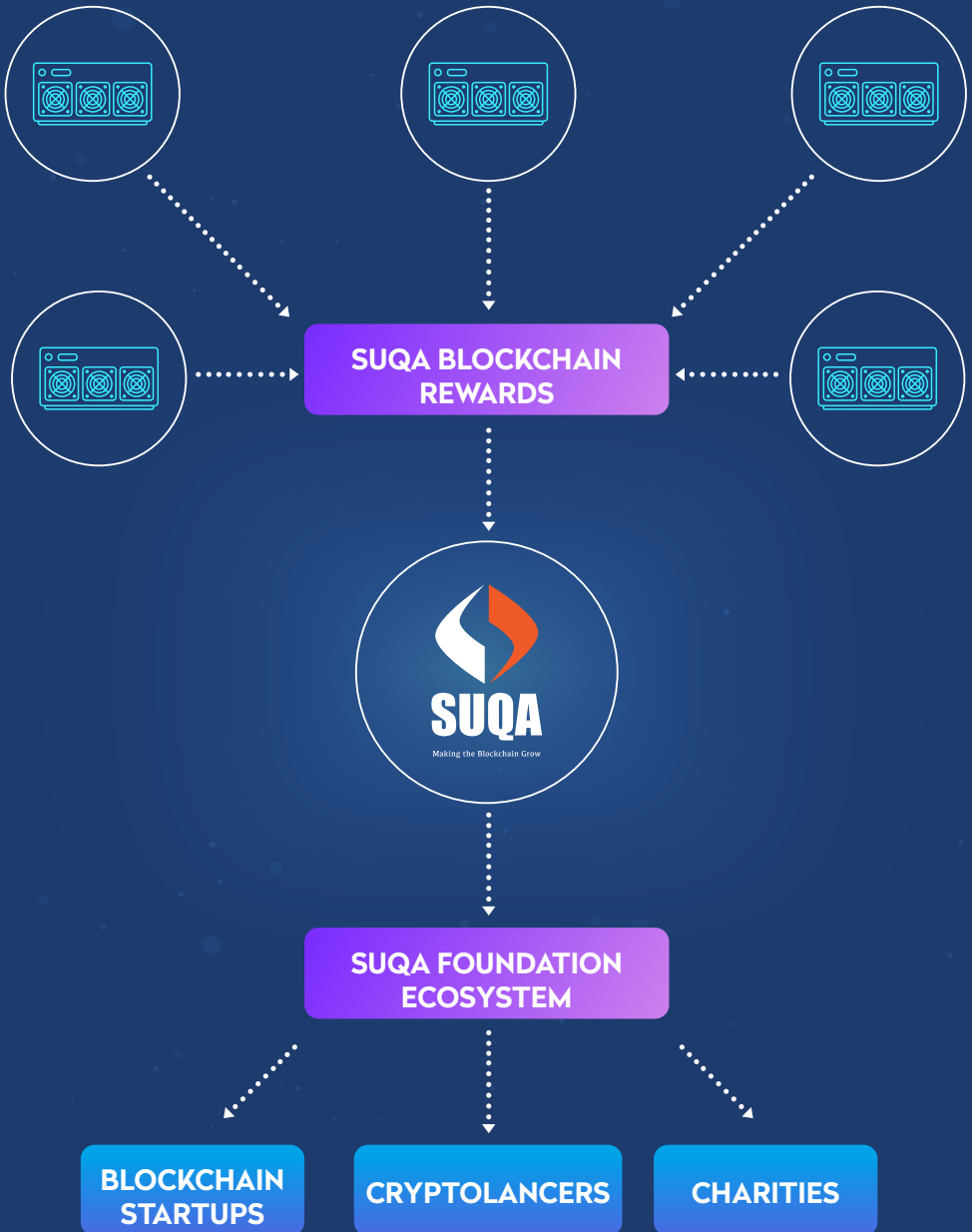
Another advantage over the classic PoW algorithms is a much longer algorithm chain. 22 algorithms create the need for a lot of chip space to implement the whole chain which is hugely cost-prohibitive for FPGA and ASIC.

Finally, the bigger plan evolving around X22i is to increase the chain size with further hashing stages (X23i, X24i, etc) to be released periodically. This approach forces the chip designers to revise the design often, meaning more costs and less time for actually using the chip for mining. Moreover, making the chain progressively longer addresses the concern of future FPGA chips bigger in size, and being possibly able to fit the whole X22i chain in a single chip.

X22i Algorithm is the newest, most complex, and advanced quantum resistant algorithm for the millions of POW miners. It is also one of the most power efficient hash algorithms. "I" stands for the 22 algorithms intelligence and it is not just another clone or a copycat of another algorithm. Instead, it has optimization potential for all the CUDA and OPENCL Developers because of the added Post Quantum algorithm SWIFFTX before the new algorithm that will be added to the chain in the upcoming hardfork.

New POW algorithm provides the following advantages:

- Adding a quantum resistant part in the algorithm chain (SWIFFTX)
- Boosts memory requirements four times. Not a problem for CPU and GPU but much harder for FPGA and ASIC
- Much longer algorithm chain: 22 algorithms create the need for a lot of chip space to implement the whole chain, very cost un-effective for FPGAS and ASICS
- Hard fork about every 6 months to update ASIC and FPGA resistant algorithm for guaranteed decentralization

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SUQA BLOCKCHAIN REWARDS

SUQA

Making the Blockchain Grow

SUQA FOUNDATION ECOSYSTEM

BLOCKCHAIN STARTUPS

CRYPTOLANCERS

CHARITIES

SUQA Foundation (Ecosystem for SUQA)

8. SUQA Foundation

SUQA Foundation is a Decentralized Autonomous Philanthropist Organization that rewards everyone inside its ecosystem generously, securely, and transparently. This is done without fees to foster the growth of the blockchain. SUQA Foundation will handle all the necessary marketing and development for the SUQA currency. This includes liquidation, finance for listing on all promised and guaranteed major exchanges, legal handlings, 3 decentralized websites as well as development and marketing for the web projects.

So, how does this SUQA foundation ecosystem make people spend SUQA? Well, SUQA Foundation will create great value inside its ecosystem to incentivize new users buy SUQA from trusted exchanges. SUQA foundation serving as a hub for Cryptolancers, Blockchain Startups, and Charities means a vibrant ecosystem. SUQA.ORG is the central hub of SUQA FOUNDATION. The idea of SUQA is to help people using blockchain and grow the blockchain by the help of people. This community is created for sharing. Everybody will share and everybody will win.

The SUQA Blockchain will grow eventually and become an ordinary thing in real life. Our target is to make that process faster and trustworthy while also fostering a community of inclusion. The future will be decentralized and we are here to help make that happen!

In the spirit of inclusion, SUQA has engineered a long-term and multifaceted bounty program. SUQA Foundation bounties are paid to 30-day time-locked SUQA addresses meaning more stability for our community. Every month for the first year, 1 million SUQA will be rewarded from SUQA Foundation. After the first year, bounty rewards from the SUQA funds are halved to 500,000 SUQA. In all, a total of 30 million SUQA will be given away as bounty and rewards for 5.78 years. An additional 1 million SUQA is to be made available for a social media campaign beginning 25 October, 2018. Other bounty programs within the community are also possible. When the last coin will be mined in 5.78 years, there will be millions of SUQA currency within the SUQA Foundation ecosystem and this will result in greater scarcity.

There will be 3 internal child sites inside the SUQA.ORG and they will contain Blockchain Start-ups, Cryptolancers and Charities'. In order to be on the list for the Start-ups, Cryptolancers and Charities' must have an account on SUQA.ORG.

8.1 SUQA for Cryptolancers

Imagine meeting with all the Cryptolancers in the same social hub! Bounty programs can be setup without any fees taken from you. Your Cryptolancers Donation Rewards Pool will grow continuously by the amount payments you make to the Cryptolancer. The more finished bounties/jobs you paid with SUQA payment, the higher rank you will achieve in the pool. Become one of the top 5 donors every 3 months to win 100K SUQA from the top 5 donor's reward.

SUQA provides users of the hub for the Crypto jobs and projects. They get their job done free without any fees (excluding the very low network fees). Every 3 months the rewards pool start from scratch for new rewards.

SUQA Foundation does not take any fees from transactions, jobs or projects. The rewards will decrease according to block rewards after halving until the end of the last mined SUQA currency.

8.2 SUQA for Blockchain Startups

Imagine meeting with all the Blockchain Start-up Companies in the same social hub and invest in the project with SUQA. With the amount of the payment you made to the Startup you will enter in the Startup Donation Rewards Pool. The more you invest in a Startup company with SUQA payment, the higher rank you will achieve in the awards pool. Become one of the top 5 most donators every 3 months to win 100K SUQA from the top 5 donators reward.

8.3 SUQA for Charity

Everybody wants to donate sometimes for people who need help. But we often don't know where and how we can do this help. Imagine meeting with all the Charities in the same social hub! You can donate for the charity you want without any fees taken from you. Similar to other SUQA awards programs, your awards pool balance increments equally to the amount you contribute to charities.

Welcome to SUQA!

Short Roadmap

Official Roadmap will be released on Oct 30

Lite Website and Onepager
October 7

Nvidia (Cuda) Miner Bounty Up tp 1.5 Million SUQA & X22i Whitepaper
October 10

Whitepaper
October 15

SUQA Community Bounties 1 Million SUQA
October 25

Roadmap
October 30

Exchanges Listing
November First Week

Team

Tamer Dagli aka Cryplander
CEO & Co-Founder

M. Atıf Karaoğul
Qt Design & Development

Pallas
CTO & Co-Founder

Hüseyin Biyik
Technical Advisor

Atakan Köycü aka Depozitosuz
Lead Web Developer

Levent Gudulluoglu
Business Development

Elif Beste Toren
Investor Relations

Ali Pura
Technical Advisor