



WHITE PAPER



SOLOR TECHNO ALLIANCE



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PURPOSE OF THIS PAPER

The **STA** is made up of a number of protocols and innovations. It's important to have clear documentation and technical specifications on key protocol design and implementations - for which we utilize an **STA**. However, we feel it's equally important that we help our communities to understand what we try to accomplish, the trade-offs we have made, and how we have arrived at our current design decisions.

We start this document with a detailed examination of the problems that public permissionless blockchains/Coins face today and the existing solutions attempting to solve them. We hope this provides the necessary context for our readers to understand our own rationale on how best to approach these challenges, and our underlying design decisions. We then provide a high-level walkthrough of all parts of the **STA**, with a focus on how they work together to support the overall vision of the network.

Scalability, sustainability and interoperability are among the largest challenges public permissionless blockchains/Coins face today. While many projects claim to have solutions to these problems, it's important to understand where these problems come from and put solutions in the context of possible trade-offs.

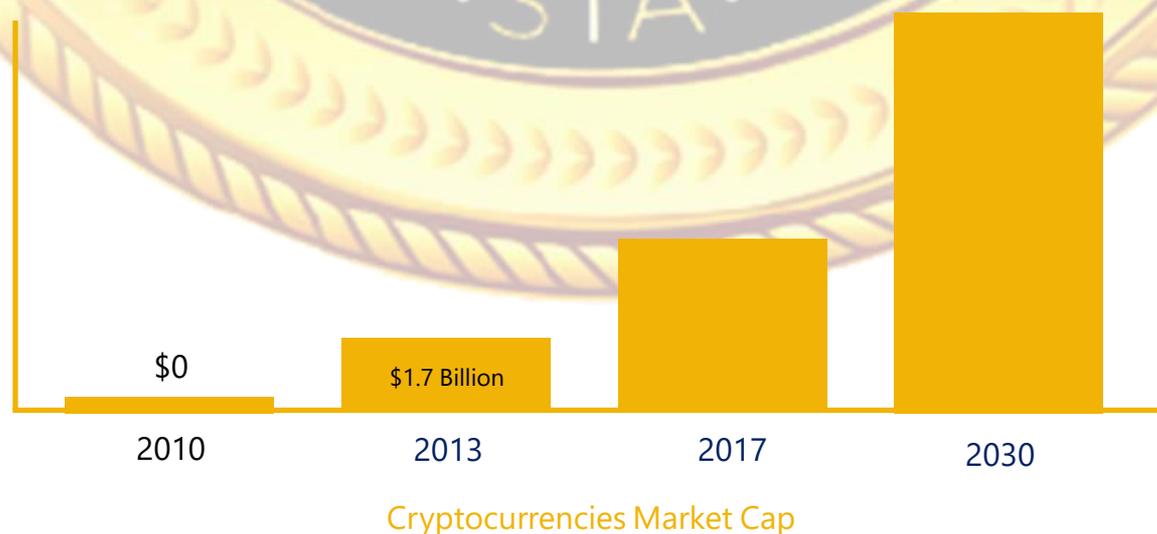


INTRODUCTION

Market Background

The blockchain is an incorruptible digital ledger of economic transactions that can be programmed to record not just financial transactions but virtually everything of value. Financial and technology industries alike are combining wonderfully, giving rise to the birth of blockchain outside of its normal working conditions. Blockchain is a distributed digital ledger designed to power and back cryptocurrencies.

Cryptocurrencies have been the top performing asset class over the last decade with its total market capitalization growing from around \$1.7 Billion in 2013 to where it stands now at \$ 1.7 Trillion. Recent months have witnessed global institutional investors – pension, hedge and endowment funds, which historically invest in diverse asset classes including stocks, commodities and real estate – invest in cryptocurrencies to diversify their investment portfolios and spread their risk.





CRYPTO CURRENCY MINING

Cryptocurrency mining—or crypto mining—is the method of verifying transactions on a digital ledger for a blockchain using machines with extensive computing power. Cryptocurrency mining is something any individual or organization can do with adequate hardware and software resources, but the expansion of mining and increasing costs make it progressively difficult for newcomers.

This article looks at cryptocurrency mining, how it works, the best mining apps, and whether it's a profitable business model in 2022.

Cryptocurrency mining is the process where specialized computers, also known as nodes or mining rigs, validate blockchain transactions for a specific cryptocurrency and, in turn, receive a mining reward for their computational effort.



THE VEHICLE FOR MINING: NODES, RIGS, AND POOLS

Blockchains require an expansive network of machines to verify and store transactions to support global crypto currencies' overarching distributed digital ledgers. Rigs use the latest processors (e.g., GPU , FPGA , or) ASIC and do little else but serve as a node for the blockchain's network. Using standard personal computers for mining is not advisable as most lack the computational power to handle mining-level processing.

With a fleet of nodes or a pool, a group of individual miners can combine computational effort, dubbed hash rates, to win block rewards and split the earnings according to contribution.

ACHIEVING CONSENSUS THROUGH PROOF-OF-WORK

Blockchains require a protocol for achieving a decentralized consensus to verify the integrity of new blocks, and in crypto mining, this consensus mechanism is proof-of-work (PoW). By contributing computational effort to validating transactions, miners receive a predefined amount of the coin for their proof of work.

The protocol ensures the integrity of blockchain transactions and rewards miners for their expenses and effort, but it also deters threat actors hoping to manipulate the crypto currency. Crypto mining requires extensive processor power, creating competition and a barrier to entry for prospective nodes and mining rigs.



CRYPTO CURRENCY CLOUD MINING

CLOUD MINING IS THE PROCESS OF CRYPTOCURRENCY MINING UTILIZING A REMOTE DATACENTER WITH SHARED PROCESSING POWER. THIS TYPE OF CLOUD MINING ENABLES USERS TO MINE BITCOINS OR ALTERNATIVE CRYPTOCURRENCIES WITHOUT MANAGING THE HARDWARE. THE MINING RIGS ARE HOUSED AND MAINTAINED IN A FACILITY OWNED BY MINING COMPANY AND THE CUSTOMER SIMPLY NEEDS TO REGISTER AND PURCHASE MINING CONTRACTS OR SHARES. SINCE CLOUD MINING IS PROVIDED AS A SERVICE, THERE IS GENERALLY SOME COST AND THIS CAN RESULT IN LOWER RETURNS FOR THE MINER.



WHAT IS STA ?

About us

STA is built on the binance smart chain and is one of the first crypto projects which is in collaboration with a real manufacturer, producing **STA**.

STA is a loyalty token that allows holders to benefit from discounts, consumer benefits, project decisions, and reflection!

STA is looking to fully revolutionize the decentralized world. We have put together a team behind the **STA** project to build better technology than what is currently available today. We are more than just a DeFi token, we are the future of Defi / Decentralization and Cryptocurrency.

Goals

We believe that by accelerating the transition to adopting cryptocurrency, we can help people globally to:

Real **STA** Bussiness

The goal of **STA** is to make investments for holders profitable by creating a successful real **STA** business.

More Ways to Earn

With the income of the **STA** sale and NFT collection, regular buybacks of **STA** tokens will take place, which will increase the price and make the investment for each holder more attractive.

Protect their identity

No central entity can compromise your identity.



STA SOLOR PROJECT

What is solar energy?

The sun is an incredible and renewable resource that has the power to fuel life on earth and provide clean, sustainable energy to all of its inhabitants. In fact, more energy from the sun reaches our planet in *one hour* than is used by the entire population of the world in *one year*. The sun's energy can be converted into electricity through solar photovoltaic (PV) modules (photo = light, voltaic = electricity). **STA** is coming with huge project in solar energy . **STA is also already prepare for metaverse.**

How does solar energy work and why should we use solar energy?

PV modules absorb sunlight and convert the energy into a usable form of electrical current. The sun shines all over the world, making solar electricity viable anywhere. Because solar can be paired with batteries for energy storage, solar electric systems can be independent of the utility grid, making them cost-effective for remote locations. Solar modules have no moving parts making maintenance costs low, and they are highly reliable with a long service life of 25+ years of guaranteed electricity. Solar electricity relies on the sun as its fuel source, so there is no need to drill for petroleum-based fuels, refine them, or deliver them to the site. As you can see, there are a lot of advantages of solar energy. **STA** going to launch high defination solar products world wide.



THE SOLAR INDUSTRY IS GROWING

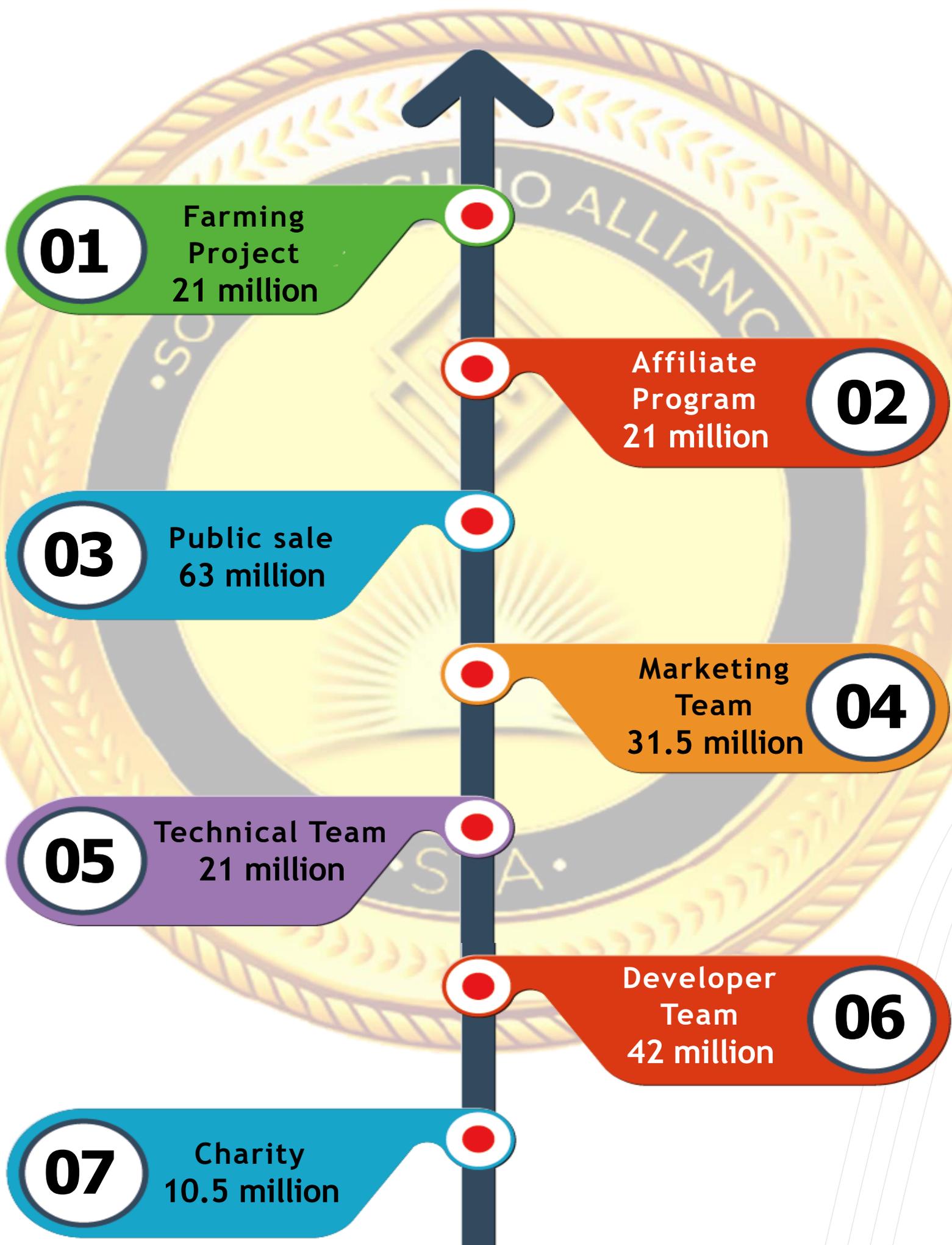
The design and installation of PV systems on a large scale enable us to move away from other polluting and unsustainable energy sources. Since the solar industry is growing, that means that the need for skilled workers is also growing! **Solar Techno Alliance** is ready to fly with solar energy products.

Remote Energy (RE) is a 501 (c)(3) for-impact organization that trains women and men worldwide to harness the power of the sun and develop the technical PV design and installation skills required to bring clean power and positive change to their communities. Technician training programs provide the growing workforce with the practical skills needed to be competent and competitive. Solar educator training programs empower local trainers with curriculum, mentorship opportunities, and the skills needed to meet current, regional training requirements.



DISTRIBUTION PLAN

(total supply 210 million)





ROADMAP

Preparing the Backend as well as the legal and accounting solutions for the token launch

Creating STA Bridge To BINANCE BLOCKCHAIN [BSC-20] standard Token

Listing of the STA Token on The Few Minor Exchanges

creating the STA ecosystem idea & establishing THE Core Team



Enacting of the company & frontend Preparation



Worldwide Launching OF STA TOKEN with a Farming Affiliate Program & Listing on Pancake Swap DE-FI Exchange



Establishing a Partnership with the Top Solar Companies in the Europe



2020 AUGUST

2020 DECEMBER

2021 MARCH

2021 JUNE

2021 SEPTEMBER

2021 OCTOBER

2021 NOVEMBER

Listing of the STA TOKEN on The TOP EXCHANGES in the World

Launching OWN EXCHANGE

Launch of METAVERCE GAMES & Many more Upcoming events

Establishing a Partnership with the Top Solar Companies & many other companies in the world



Launching the STA App for ios & Android



Utility Creation For STA TOKEN



2021 DECEMBER

2022 MARCH

2022 JUNE

2022 AUGUST

2022 DECEMBER

2023+



DECENTRALIZATION

One of the largest long-term threats public blockchains/coins face is an ever-increasing barrier of independent participation and transaction verification, reflected in the cost of full node operation. Full nodes allow blockchain participants to independently verify the on-chain state/history, and hold miners or validators of the network accountable by refusing to route invalid blocks. As the cost of full nodes increases and their numbers decline, participants in the network are increasingly forced to rely on professional service operators to provide both history and current state, eroding the fundamental trust model of open and permissionless blockchains.

For a full node to keep up with the progression of the blockchain, it must have adequate computational throughput to validate transactions, bandwidth throughput to receive transactions, and storage capacity to store the entire global state. To control a full node's operating cost, the protocol has to take measures to bound the throughput or capacity growth of all three of these resources. Most blockchain protocols bound their computational or bandwidth throughput, but very few bound the growth of the global state. As these chains grow in size and length of operation, full node operation costs will irreversibly increase.



PROBLEMS

Some of the critical issues facing cryptocurrency usage and **STA** adoption are the lack of a simplified way to send and receive money (using crypto), lending and borrowing (DeFi) and staking (the new way of mining).

Remittances

The cost of transferring funds through banks and currently known money remittance services is very high, it also takes 3 - 5 working days for the intended recipient to get the funds, this long delay comes at a cost.

With superior and tested technology (**STA TECHNOLOGY**), users will be able to send money across the world with high speed and lower cost and almost no cost using the STA platform.

Security

Security is a crucial aspect of any exchange platform, given the rising levels of hacking activities targeted at exchanges in recent times. **STA** is built to a high standard to ensure that the security of our users come first.

We have carried out a security assessment on our internal server, testing for external penetration and we've also consulted an external security firm to conduct a thorough external security test and full threat modeling exercise to ensure the completeness of their security controls.



INTRODUCING STA

Executive Summary

If we can email virtually anybody in the world, why can't we send them money just as easily. Or offer them a loan. These questions are the foundation of Decentralized Finance's (DeFi) beliefs, activities and objectives. In short, DeFi refers to an ecosystem of financial applications that are built on top of **STA**. Its common goal is to develop and operate in a decentralized way – without intermediaries such as banks, payment service providers or investment funds - all types of financial services on top of a transparent and trustless **STA**.

The DeFi field is currently experiencing an incredible surge. More than two billion US Dollars (USD) have already been deployed («locked-in») across a variety of DeFi applications that offer lending and borrowing services, exchange services, monetary banking services (e.g. the issuance of stablecoins), tokenization services, or other financial instruments such as derivatives and prediction markets. In that sense,

DeFi is not a specific thing, but more a loosely defined collection of ideas and projects to reshape financial services through **STA** technology, thereby removing the middlemen. Its disruptive potential has brought DeFi into the spotlight of the **STA** and communities, and increasingly also to the attention of traditional financiers and policymakers.



LACK OF AUTOMATED PROCESS

The lack of automated processes on several exchanges can be frustrating for users who intend to explore value-added services. With numerous applications and the high volume of data, the room for manual human errors is also bigger. **STA** solves this problem by automating manual data entry tasks which in turn leads to higher productivity and no manual errors whatsoever.

Our automated process will create more transparency, drive efficiency, and facilitate process compliance.

The other challenges posed by decentralized exchanges are as follows:

In order to cope with this business context: Our vision is to develop a trustless **STA** for the Defi ecosystem on BSC. The project envisages the development of a truly decentralized exchange network in a trustless environment with lightning-fast transaction speed to support Defi tokens and cross-chain communications. We have created features that encourage users to the platform that includes a fast, simple, responsive UI with transparent economic features. It is primarily to draw basic to day traders and institutional investors who prefer cost reduced convenience, speed and efficiency in execution



STA DEFI

The decentralized finance (DeFi) space is extremely fragmented and difficult to navigate. Information is dispersed among unconnected products and services. DeFi users and liquidity providers often face challenges finding the right information and the right protocols for their needs.

STA is the first DeFi super app that integrates data and information from the countless unconnected services and protocols. The DeFi market has been undergoing phenomenal growth at a recent rate of 250% per annum. Those pushing this market forward deserve to tap into this ecosystem through the highest quality applications.

STA caters to that very need. STA users can access a suite of highly demanded features from one interface. Lenders, stakers, and liquidity providers can all benefit from the STA application. These players will have the ability to:

Carry out automated lending in a P2P loans marketplace

Stake with a wide range of assets including XTZ, ATOM, DOT, and ADA.

Create liquidity, lending, and staking pools.



STA LIQUIDITY POOL

Adequate liquidity is essential to the successful operation of DeFi services. A lack of liquidity causes significant challenges to users. Prices in decentralized trading become extremely volatile. Interest rates available for loans fluctuate sharply. Lenders may be unable to withdraw their assets.

Some DeFi protocols have addressed liquidity by allowing users to pool their liquidity. However, these liquidity pools remain distinct from lending and staking. **STA** will be the first to integrate liquidity pools, lending services, and staking services to maximize the liquidity accessible to the user.

Any investor will be able to deposit their idle assets into a liquidity pool and earn a reward on their allocated assets. Rewards will vary based on how the liquidity is utilized. There are several possible means by which the assets can deepen the liquidity of the integrated services:

- Provide liquidity for decentralized trading. Facilitating swaps between assets.

- Facilitate staking.

- Prevent illiquidity events. Many lenders seeking to withdraw their assets simultaneously can oftentimes lead to insufficient assets for withdrawal. This has happened several times on the largest DeFi protocol Compound.



THE EVALUATION OF TOKENIZATION

Throughout the past couple of years, we have seen how the novel idea of tokenization has gone through many different forms from initial coin offerings, security tokens to present day DeFi tokens. The benefits and utilities from tokenizing assets have also changed from a fundraising mechanism (ICO's), to a method of unlocking trapped value from traditional assets (Security Tokens). More recently, this has evolved to a hybrid automated fee/governance model (DeFi tokens). Here at STA we have innovated with different forms of tokenization through Micro Token Offerings (MTO) which distributed tokens based off of various requirements whether it be active participation in the community or protocol, funding, engagement, or stake amount (an evolution to the normal airdrops from other projects). Soon we will release STA 2.0, a new iteration of the Standard Tokenization Protocol that facilitates the issuance and trading of assets that track assets on other blockchain platforms as well as off-chain. STA 2.0 will give users access to multi-chain assets and new financial products on different blockchains without heavy over collateralization or expensive bridge fees.



STA CRYPTOCURRENCY

STA Coin is a 100% community governed, decentralized cryptocurrency that launched in November 2021. Our missions are chosen by the community! They're my family and our team, they draw on expertise from all around the world and the goal is to make our family one of the most creative, innovative and largest cryptocurrency projects in the universe. We have created a DeFi protocol, which is the beginning of our DeFi ecosystem. This ecosystem will serve as a central point for a host of DeFi products and applications that will allow investors to add to their wealth generating abilities, grow their portfolios and experience DeFi in a user-friendly system. As our family grows in members and value, it is our priority to always give back to underserved communities around the world. I'm extremely proud to have my community participate in the governance of my token, all initiatives are executed through expertly drafted proposals and a secure voting process, that ensures the best decisions are formulated for the ensured growth of the token. Join one of the most vibrant crypto projects you'll ever see! A place where the project starts with you - the community.



INTRODUCING STA COIN

STA COIN is a digital currency, a one-stop ecosystem based on the BSC's technology and smart contracts. STA promises its token holders and crypto/fiat users a diversified digital and global financial service network. STA is bridging the stability of real assets with the fluidity, balance, and technological accessibility of a decentralized digital currency revolution. STA multi-level platforms / multi-level financial ecosystem are built on BSC technology housing an industry-leading arrays of functionalities utilizing microservice architecture to ensure limitless scalability.

STA Coin is a BSC-20 utility token created to work in an ecosystem of business applications to have global circulation and addressing holder's basic daily real life transaction needs and accessing various DeFi activities.

With the most advanced STA technology, STA aims to build a more inclusive financial system where more people, SMEs and corporates have access to better financial services. STA platform is the product of aspiring and innovative minds both in STA coin and financial platforms.

The company's main aim is to develop a robust and technologically advanced solution that is beneficial for all the people using the platform.



MORE ABOUT STA COIN

Vision

STA envisions to be the one-stop destination for services and transactions of financial industries that integrates **STA** technology using cryptocurrency with the finance industry.

STA is established as a topmost DeFi platform by using **STA** Coins for various DeFi activities for everyone's needs making all transactions easy, convenient, private and secured.

Mission

STA strive towards the development of a more stable and robust DeFi platform that can replace traditional financial platforms or interoperate with them in a more modern and efficient manner. **STA** wishes to turn around 7 billion global population (Only 10 million people adopted cryptocurrency) who still lacks to adopt **STA** technology by developing interoperable applications between **STA** and traditional applications that will promote the wider acceptance and usage of **STA** over the scale.

Taking the financial industry to a decentralized platform is the main objective of our company. So that the users can make more and more money through the platform.



CORE VALUES

Commitment

We want every user to participate with STA , by way of utilizing and integrating STA Coin with the various financial services. It is our commitment to being clear, consistently remains committed to the project to develop relationships that make a positive difference in our customer's lives.

Integrity

To be a transparent hub for users to interact and work together. We aim to make the DeFi market better as a whole, incorporating high standards of honesty and strong moral principles, doing the right thing all the time with no exemption.

Inspire

The community of STA Coin holders helps create the value and relevance of the token. The business we are building on STA and cryptocurrency provides a huge opportunity for growth and expansion for the various industries supporting entertainment. This is the way, STA can revolutionize and evolve with the ever-changing demands of the consumers' world.



OBJECTIVES

Disintermediation

We aim to reduce the need for trusted intermediaries while increasing security, removing time and cost bottlenecks.

Connecting Businesses

By integrating a single API that makes money move faster, cheaper and more reliable for you and your customers.

Global Reach

Our goal is to become the standard for seamless digital transactions and accessing financial services on a global scale and across borders.



KEY BENEFITS OF STA COIN

STA platform is a unique, decentralized, robust, and secure platform for DeFi applications. It aims to provide a completely secured DeFi services that brings revolutionary in the financial ecosystem. Specifically, STA will:

A Multi-level financial ecosystem

A reliable and secured payment method
Establish a new token-based economy

Transactions low fees, high speeds and easy access.
Access to your money anytime, anywhere and get rewarded
Asset's tokenization (gaming, real estate, education, etc.)

STA continues to be a strong platform through its more amazing benefits:

Decentralized Smart contract that works on self-execution of technical functionalities with no admin interference.

Verified marketing strategy through STA which is immutable and can't be changed or altered.

Complex systems and procedures made easy to on-ramp both entry-level and advanced users.



MARKET ANALYSIS

With the enormous development of the **STA** technology, new opportunities are arising in the field of investing. Crypto markets are borderless, open 24/7, and offer huge potential for growth. A rapidly growing number of initial coin offerings (ICO) has led to more than 2,000 new cryptocurrencies being created and traded on daily basis, leading to high returns for many investors. In order to fully realize market potential, here is the market capitalization of the top technology based companies listed on the Nasdaq and NYSE, compared to the market capitalization of cryptocurrencies: with no exemption.

Decentralized Finance (DeFi):

An Emerging Giant

In 2020, the growth of DeFi took the crypto world by storm. In fact, Total Value Locked (TVL) – a measure of DeFi transaction value – grew by 14x in 2020. And already in 2021, TVL has more than doubled to a total value of \$37.67 billion.



STA PLATFORM

STA COIN is the official currency of STA NETWORKS. It serves as an integral part of all the transactions and processes within the STA ecosystem. The ecosystem is expected to grow relentlessly due to DeFi developments on the STA . network. It will be utilized in an open-source network generated through decentralized smart contracts on the BSC. STA is world's top dAPP that is build on exceptional STA DeFi experience. STA is an exclusive token for various protocols in BSC ecosystem that can be earned through trading and participating in campaigns.

Cross-chain Platform

Burn the amount initially issued to receive the locked collateral amount.

Anyone can create their own basket of assets by locking up collateral in the form of stablecoin.

Assets will be integrated with existing DeFi protocols across multiple platforms.

A huge Pool of staking and membership club system with different rates of interest.



STA TECHNOLOGY

STA uses tested technologies integrated in a concise and easy-to-use platform. Content Distribution Tech - Content distribution software disseminates content to online audiences across a variety of communication channels, such as social networks, paid search, websites, blogs, email, and more. These tools are used by content marketing teams to expand their audience reach and increase content visibility.

This technology is being used by major companies and has already successfully delivered hundreds of millions of applications downloads.

Some Key Features:-

- Automatic application updates
- Automatic error recovery
- Last-mile acceleration
- Redundant delivery network
- Multi-platform
- Download permission management

Ad Tech - Ad tech is an umbrella term that describes systems of analyzing and managing tools for programmatic advertising campaigns. It has plenty of moving parts, which means there are countless opportunities for agencies to set themselves apart.



AD TECH OPERATION

The basic objectives of Ad Tech operation look like this:

User activity and behavior on site is being monitored

Enable content publishers to promote their products more efficiently

Adapts to incoming information and collects the cream of the crop.

Allow users to effortlessly earn **STA** coins by opting into the **STA** Ads revenue share program

STA PROTOCOL

STA Protocol is based on the Binance Smart Chain the next generation STA DEFI developed by BSC to develop an ecosystem of decentralized applications, NFTs and digital assets. This dual-chain architecture will empower its users to build their decentralized apps and digital assets on one STA and take advantage of the fast trading to exchange on the other.



DEFLATIONARY PRICE INCREASE

STA COIN are long-term deflationary. Emissions have a hardcap and are continuing to decrease, while burn is permanent and continuing to increase, and we burn quite a bit of tokens; A significant portion of protocol fees go towards token burn: 80% of all liquidation fees and 10% of all protocol lending interest earned by lenders. So as **STA** Finance continues growing, more **STA** will be burnt, leading to the value of each remaining **STA** Coin rising continuously and permanently.

GOVERNANCE

We will soon launch a governance vault that will allow community members to stake their **STA** COIN; stakers will receive x **STA** where $1 \cdot x \text{ STA} = 1$ vote, allowing them to decide on key governance decisions.



EVOLUTION OF STA COIN



Enables cross-chain capability, cheaper transactions than the

Ethereum ecosystem.

Track the performance of a group of underlying assets across various blockchain platforms.

Ensure that minters have sufficient collateral to hold their positions.

Choose the pricing function in a more principled way, allowing pools to offer tighter trades.



The STA coin holders are invited to carry out a comprehensive evaluation of the company to comprehend the current or future values of the STA Coins obtained by them. No element of the white paper should be considered as a prospectus of any kind or as a solicitation or offer to purchase some securities within any jurisdiction. The development of this document did not occur as per the regulations which are purported to protect the rights of investors, and hence, this paper cannot be subjected to any such laws from any such jurisdiction

It should be noted that there are certain estimates, statements and financial information within the paper which reflect that as a result of some known and unknown uncertainties, the results implied in the paper may not completely match with the actual results or events. The future events that have been proposed in the white paper should not be considered as a guaranteed forecast or a surety of profit with the STA coins.

This white paper presented in the English Language is the preliminary source of information in the context of the STA and its coin launch. The information presented in the paper may get translated from time to time into other languages customers, etc. During the process of such translations, the information provided in this white paper may get lost, become corrupted or get misinterpreted.



WELCOME TO METAVERSE

The **metaverse** is a hypothesized iteration of the Internet, supporting persistent online 3-D virtual environments through conventional personal computing, as well as virtual and augmented reality headsets.

Metaverses, in some limited form, have already been implemented in video games such as *Second Life*. Some iterations of the metaverse involve integration between virtual and physical spaces and virtual economies.

Current metaverse development is centered on addressing the technological limitations with virtual and augmented reality devices.

The term "metaverse" has been used as a buzzword for promotion, and as a way to generate hype for public relations purposes by making vague claims for future projects. Information privacy and user addiction are concerns within the metaverse, stemming from current challenges facing the social media and video game industries as a whole. STA Going To Adopt metaverse technology



METaverse THE FUTURE OF INTERNET

The future of the internet is augmented reality, virtual reality, and spatial computing technology

[Cathy Hackl](#) is a leading technology futurist. A futurist helps organizations anticipate change, retain market relevance, and imagine the possible scenarios that could play out.

Hackl harnesses emerging trends and emerging technologies to do this. She is a top female in the global technology space, specialising in augmented reality, virtual reality, and spatial computing. With a big emphasis on understanding the metaverse.

What is the metaverse and why should we be paying attention?

The Metaverse is defined broadly as the intersection of many virtual worlds with the physical one. In today's society, we have our physical person, but we also have our digital persona. Our digital persona is who we are on LinkedIn, Instagram, TikTok, or other social media platforms.



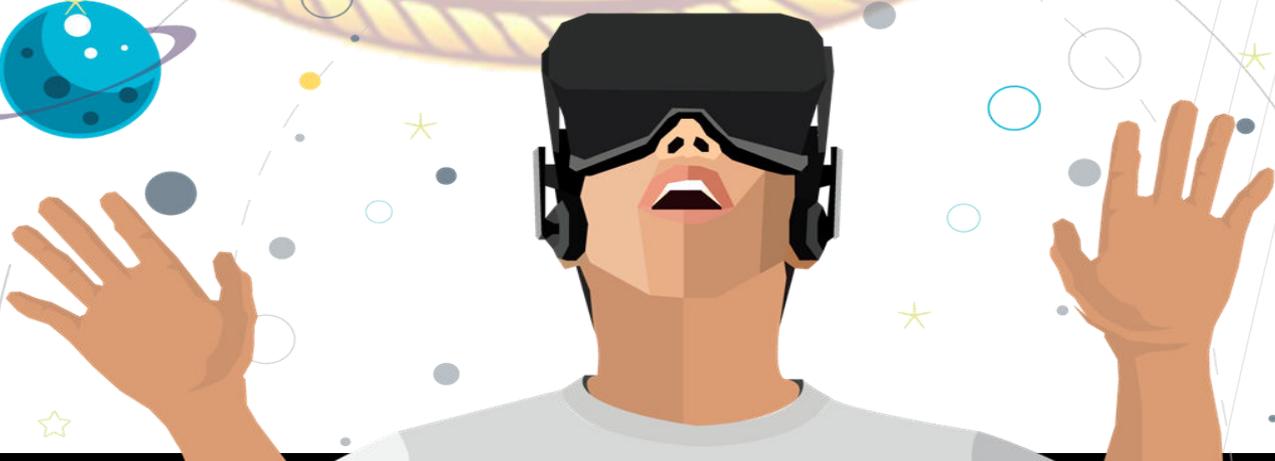
Video

Several components of metaverse technologies have already been developed within modern internet-enabled [video games](#). The 2003 video game [second life](#) is often described as the first metaverse, as it incorporated many aspects of social media into a persistent virtual world. Social functions are often an integral feature in many [massively multiplayer online games](#). Technology journalist [clive thompson](#) has argued that the emergent, social-based gameplay of [minecraft](#) represents an advanced implementation of the metaverse. Similar statements were made for the game [roblox](#), which has since employed significant [usage of the term in marketing](#). Other claims of developing a metaverse include the games [active worlds](#), [decentraland](#), and [fortnite](#) in addition to a few early [MUD](#) games.

games

Virtual reality

Metaverse development has often focused on bettering [virtual reality](#) technologies due to benefits in establishing immersion in virtual environments. In 2019, the social network company [Facebook](#) launched a social VR world called [Facebook Horizon](#). Facebook would later be renamed "[Meta Platforms](#)" in 2021. Its chairman [Mark Zuckerberg](#) declared a company commitment to developing a metaverse ecosystem. Much of the underlying virtual reality technology that Meta Platforms advertised remains to be developed. [Microsoft](#) acquired the VR company [AltspaceVR](#) in 2017, and is planning on integrating metaverse features into [Microsoft Teams](#).





Technology

The metaverse is a proposed expansion to existing internet technologies. Access points for the metaverse include general-purpose computers and smartphones, in addition to [augmented reality](#) (AR), [mixed reality](#), [virtual reality](#) (VR), and [virtual world](#) technologies. Business and commercial interest in metaverse-related research and technology include Facebook, which bought VR company [Oculus](#) in 2014, and has announced plans to build a 3-D social space to connect varying services. The metaverse's dependency on VR technology places limitations on its development and wide-scale adoption. Limitations stemming from the balance between cost and design include the lack of high-quality graphics and a lack of mobility. Lightweight wireless headsets lack image quality, which is optimized for bulky, wired VR goggle systems. Another issue for wide-scale adoption of the technology is the cost, with the HTC Vive Pro 2 headset costing US\$799 plus controllers in 2021. In 2021, the South Korean government announced the creation of a national metaverse alliance with the goal to build a unified national VR and AR platform.

TECHNICAL STANDARDS

Common standards, interfaces, and communication protocols among virtual environments are in development. Collaborations and [working groups](#) are attempting to create standards and protocols to support interoperability between virtual environments, including:

[OpenXR](#), application programming interfaces (APIs) for interfacing with VR and AR devices, [Khronos Group](#) (2019–present)

Virtual Worlds—Standard for Systems Virtual Components Working Group (P1828), [IEEE](#) (2010–Present)

Information technology—Media context and control—Part 4: Virtual world object characteristics (ISO/IEC 23005-4:2011), [ISO](#) (2008–Present)

Immersive Education Technology Group (IETG), Media Grid (2008–Present)

Virtual World Region Agent Protocol (VWRAP), [IETF](#) (2009–2011)

The Metaverse Roadmap Acceleration Studies Foundation (2006–2007)

The [Open Source Metaverse Project](#) (2004–2008)

[X3D](#), the successor to the Virtual Reality Modeling Language ([VRML](#)) as the open standard for interactive real-time 3D ([web3D](#)). X3D is an accepted standard for integrating virtual and augmented realities with the web.



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