



SETI Coin



# Whitepaper

## Science & Blockchain Project

*A presentation of the SETI Coin Project  
for Investors*



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# MISSION

## 01. Mission



Humanity is facing an increasing number of global challenges whose solutions may lie beyond the knowledge of the mankind. The search for extraterrestrial intelligence will be restarted with greater ambition and resolve in a seek of a new dimension of knowledge and cultures. This project will fund the development of various methods and inventions to facilitate the exploration for other civilizations. Firstly, it will launch the construction of omnidirectional radio antennas all around the world, seeking the Holy Grail of the modern age beyond the boundaries of the world we know! The SETI Coin will be initially used to finance the project's infrastructure, hardware, and research. At a later stage, in function of the progress and discoveries made, it may give its owners the opportunity to participate personally in the research projects for extraterrestrial intelligence.

If successful, this endeavor will lead the human civilization into a new Era. (The raw data received will be kept off the internet, so it doesn't fall in the wrong hands.) The benefits of a First Contact are too numerous to list- every aspect of human life - medicine, fight against pandemics and climate change, engineering, artificial intelligence, science, art, philosophy, and longevity. Much of what is known to be beneficial to the Earth, the humankind and its progress may be radically challenged, improved, or rewritten. Join the search for the greatest discovery in human history!

Why this project is unique? This is the only cryptocurrency project that has a tangible purpose- research and development of the means to find the greatest discovery in human history.







## FRAMEWORK

## 02. Framework

## IMPLEMENTATION

Such a grand project does not happen overnight- there are a lot of tasks to be completed, starting with the choice of suitable sites.

In every country in the world the open spectrum of radio frequencies is different, therefore we will try to cover as wider broadband as possible, by acquiring the necessary permissions in many countries and building listening sites in them.

There are already countries which allow the acquisition of properties via cryptocurrency which will facilitate our needs, but other countries still rely solely on FIAT and buying land or buildings will require the appropriate amount of time.

The construction of the relevant infrastructure and buildings needed for the operation of a radio telescope is also very specific work and specialists from Germany, Japan and Russia will be contracted for the jobs.

Then, there is the construction of purchase of the radio antenna itself- the prices span hugely, as the types of equipment. Experts from Europe, US and China will oversee the installation of the dishes and fine-tuning them to work right.

Finally, genius-equivalent scientists will deploy complex algorithms for search and detection of artificial signals.

All this seems as a cumbersome process. Nevertheless, we are confident everything will go as planned and our Roadmap will be accomplished.

P.S. Our Blockchain will start functioning as soon the first radio signal is received by our detectors.

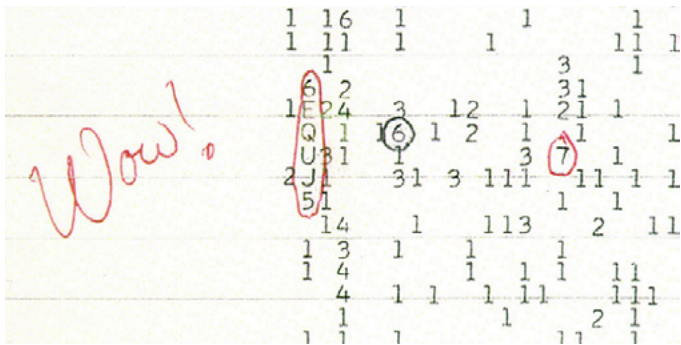


# STATUS

## 03. Status



Back in the 1970s SETI had a bright future- there was a lot interest by the governments to fund such projects and a lot of research was done successfully. Things became almost euphoric with the detection of the 'wow signal' in 1977 which is until now the best candidate for a signal from another civilization- unfortunately, it has not been detected since. Although, the public interest grew, the governments' faded away, so most of the projects lost their funding and kept their operations to a minimum or stopped completely. Today, only privately funded SETI projects are operational but they haven't been successful, because of their business model- they rely solely on third-party funding and can't self-support themselves.



The SETI Coin Project will be able to fund itself, after it becomes operational. There will be three sources of financial support:

Proceeds from the Blockchain which the Project will deploy- all fees from third-party dApps, DEXs' revenues, protocols and tokens deployed will help for the financial stability of SETI Coin.

Radio antennas are valuable assets and the information they receive is not only from outer space. Some it can be sold, or dishes can be lent to governments for a limited time.

Scientific and technological research made by the Project to upgrade and improve the Search or the Blockchain will be proprietary. In this way valuable assets will be patented or sold to bring even more financial stability for the SETI Coin Project.

# THE SOLUTION

## 04. The Solution



### 1. Radio Antennas

Since astronomical radio sources such as planets, stars, nebulae and galaxies are very far away, the radio waves coming from them are extremely weak, so radio telescopes require very large antennas to collect enough radio energy to study them, and extremely sensitive receiving equipment. Radio telescopes are typically large parabolic (“dish”) antennas similar to those employed in tracking and communicating with satellites and space probes. They may be used singly or linked together electronically in an array. Radio observatories are preferentially located far from major centers of population to avoid electromagnetic interference (EMI) from radio, television, radar, motor vehicles, and other man-made electronic devices.

The range of frequencies in the electromagnetic spectrum that makes up the radio spectrum is very large. As a consequence, the types of antennas that are used as radio telescopes vary widely in design, size, and configuration. At wavelengths of 30 meters to 3 meters (10–100 MHz), they are generally either directional antenna arrays similar to “TV antennas” or large stationary reflectors with moveable focal points.

The world’s largest filled-aperture (i.e. full dish) radio telescope is the Five hundred meter Aperture Spherical Telescope (FAST) completed in 2016 by China.[8] The 500-meter-diameter (1,600 ft) dish with an area as large as 30 football fields is built into a natural karst depression in the landscape in Guizhou province and cannot move; the feed antenna is in a cabin suspended above the dish on cables.

The largest individual radio telescope of any kind is the RATAN-600 located near Nizhny Arkhyz, Russia, which consists of a 576-meter circle of rectangular radio reflectors, each of which can be pointed towards a central conical receiver.

### 2. Existing methods

One of the most notable developments came in 1946 with the introduction of the technique called astronomical interferometry, which means combining the signals from multiple antennas so that they simulate a larger antenna, in order to achieve greater resolution. Astronomical radio interferometers usually consist either of arrays of parabolic dishes (e.g., the One-Mile Telescope), arrays of one-dimensional antennas or two-dimensional arrays of omnidirectional dipoles. All of the telescopes in the array are widely separated and are usually connected using coaxial cable, waveguide, optical fiber, or other type of transmission line. Recent advances in the stability of electronic oscillators also now permit interferometry to be carried out by independent recording of the signals at the various antennas, and then later correlating the recordings at some central processing facility. This process is known as Very Long Baseline Interferometry (VLBI).

### 3 New Methods

In a 2021 preprint, an astronomer described for the first time how one could search for quantum communication transmissions sent by ETI using existing telescope and receiver technology. He also provides arguments for why future searches of SETI should also target interstellar quantum communication networks.

Technosignatures, including all signs of technology, are a recent avenue in the search for extraterrestrial intelligence. Technosignatures may originate from various sources, from megastructures such as Dyson spheres and space mirrors or space shades to the atmospheric contamination created by an industrial civilization, or city lights on extrasolar planets, and may be detectable in the future with large hypertelescopes. Technosignatures can be divided into three broad categories: astroengineering projects, signals of planetary origin, and spacecraft within and outside the Solar System.



# TECHNOLOGY

## 05. Technology



The technology behind the project will be two types- physical hardware and blockchain software.

There will be various ways which to detect signals by. Firstly, radio telescopes will be deployed to 'listen' to the waves in space. But there are other methods, developed by scientists which might help to speed up the Search. There are certain patterns that help save up time and automate the search process while navigating the known and potential star systems, containing suitable for life planets. Also, there are other ways to detect an advanced civilization, except radio waves- there are sub-products of a society's technological advancement that are easily confirmed as artificial, but yet not easily detectable. The SETI Coin Project will try to improve on the newly proposed methods and use them along with the reliant radio antennas. Another new way which will be implemented is the search for a blockchain pattern in outer space- nobody has done that before and who knows, maybe the blockchain is more common in the universe than we suspect?



A radio telescope is a specialized antenna and radio receiver used to detect radio waves from astronomical radio sources in the sky. Radio telescopes are the main observing instrument used in radio astronomy, which studies the radio frequency portion of the electromagnetic spectrum emitted by astronomical objects, just as optical telescopes are the main observing instrument used in traditional optical astronomy which studies the light wave portion of the spectrum coming from astronomical objects. Unlike optical telescopes, radio telescopes can be used in the daytime as well as at night. <sup>1</sup>

<sup>1</sup> [https://en.wikipedia.org/wiki/Radio\\_telescope](https://en.wikipedia.org/wiki/Radio_telescope)

## BIZ MODEL

## 06. Biz Model



The SETI Coin Project will be funded initially in two ways- ICO (including pre-sale of tokens) and investments in equity shares. In the beginning there will be a chance for early angel investors who strongly believe in the Project to participate in its management and administration. A total of 40% of the equity shares will be made available for certain investors sold at un-disclosed rates. The sale of tokens will be the main option of funding. In the developed Blockchain most of the services (like 'gas') will be free (or negligible), but there will be a few premium services which will be paid (and only payable with SETI Coin).



Further in the future a new coin will be deployed on the Blockchain- (the working name is "ALIEN"). It will be the master coin of the Blockchain, holding very specific features, not seen anywhere by now (most of them are proprietary for now, but one example is that it will be able to self-stabilize in cases of market crashes or force major events). Another feature will be that the ALIEN Coin will be bought at a discount if swapped for SETI Coins.

#### Analysis of other blockchains

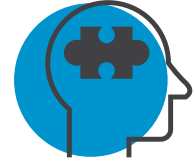
The financial and investment sector is one of the most disputed areas in the blockchain world — both with the highest number of successful ICOs and reputable fintech companies with a longstanding experience introducing their blockchain solutions.



Acknowledging the high level of competition, the SETI Coin blockchain is facing, we have worked hard to improve on what our friends are offering (can't call them competitors- we are all in this together!). We are introducing some of the most sophisticated fintech tools used currently by some of the leaders in trading to the cryptocurrency scene. Some of the most important functionalities are: Swift and secure transactions, advanced market insight, Copy trading, Robo trading, Algorithmic trading, Advanced Automation, Artificial Intelligence.

# ECOSYSTEM

## 07. Ecosystem



When raw data is received from our radio telescopes, our algorithms will begin to comb through it to find patterns and artificial signals. What will happen simultaneously with that is forming clusters of that raw data that will serve as the building blocks of our Blockchain.

A very capable team in Germany is already working on the framework and additional support systems and what will be left at the end of their work is to only feed the blockchain with radio signals.

As this blockchain will be forked to the Cardano blockchain via the newly developed Milkomeda protocol (real coincidence that it consists of the names Milky Way and Andromeda), it will possess all the benefits of its father blockchain—cheap transactions, free space for visionaries to experiment, home for deploying dApps, protocols, smart contracts, social networks, healthcare apps, etc.

Additionally, the blockchain will be more secure and less prone to cyber-attacks; it will be even more standardized and scalable; blacklisting and identity verification will be available; the consensus mechanism will be the Proof of Stake, hence qualifying for the 'green-blockchain' category.







# SERVICES

## 08. Services

### SETI Coin services

Owners of SETI Coin will not only be able to HODL and stake their tokens. The enlistment of SETI on exchanges will give the opportunity to swap for other popular cryptocurrencies and from there to FIAT currency.

If one possesses a SETI they will be able to profit from other services as well:

- Access to the radio telescope sites, witnessing in person the “listening” of outer space.
- The raw data received from “above” will be encrypted and only by paying with SETI someone will be able to “read” it. Imagine if YOU spot the message from ET!?

### Blockchain services

A blockchain offers numerous services: deployment of smart contracts, protocols, dApps, DEXs, social networks, healthcare apps and many more.

The NFT euphoria will also be given a green light and “Opensea”-like marketplaces will be free to operate on the blockchain, able to host auctions, collectables, creative art, etc.

However, a research will be done for implementing innovative and vanguard services.



#### Index Search

Has nobody thought of building a search indexing engine on the blockchain?! Well, actually not. Imagine Google 2.0 running on such a technology- all the benefits and not of the risks!



#### Analytics

Analytics of data is becoming one of the most profitable services in the tech world. Adding the blockchain's feature that information on it cannot be changed and you've got yourself one powerful module.



#### Secure Fintech

All the innovations and breakthroughs in the Fintech area are done on the blockchain. We will give it a grand push by adding security, lightning speed, and gas-free transactions.



# ROADMAP

## 09. Roadmap

### Q1

#### ICO and Airdrop 06.2022- 03.2023

SETI Coin will conduct several airdrop campaigns until October 2022. On the 1st of November 2022 a pre-sale of tokens will commence for pre-approved investors, team members and employees. An ICO will start on the 1st of January 2023 and will be split into several stages which will cover different countries as follows:  
January- the EU, the Middle East;  
February- Eastern and Central Asia and rest of Europe;  
March- South and Central America, Africa and Canada;  
(The ICO in USA will be determined after the end of *SEC vs. XRP 2020*)

### Q2

#### Acquisition and Construction 03.2023-12.2023

After acquiring the necessary financial assets, the first step is to construct the necessary infrastructure for the deployment of radio telescopes. A suitable property will be bought, architectural plans will be made, and the necessary structures will be constructed. Afterwards the installation of the radio antennas will commence and will be completed in 9-months' time.

### Q3

#### Blockchain Development 08.2023 - 12.2023

Halfway through the building of the radio antenna and the surrounding facilities, the programming of the Blockchain and all its additional modules will begin. A team in Germany will have the responsibility of deploying the forked Blockchain and developing all the required sub-systems needed for NFTs, DEX, dApps, etc. The whole Blockchain framework will be ready before the start of receiving the raw data from outer space.

### Q4

#### The Search Begins 01.2024

After the installation of the radio telescope has been completed and the Blockchain has been setup, the Search for intelligent civilizations will be able to begin and through the received data, the Blockchain and all of its surrounding applications and modules will be populated. From this moment forward, research of new methods and technology will commence which will support and upgrade both parts of this Project- the SETI and the Blockchain.

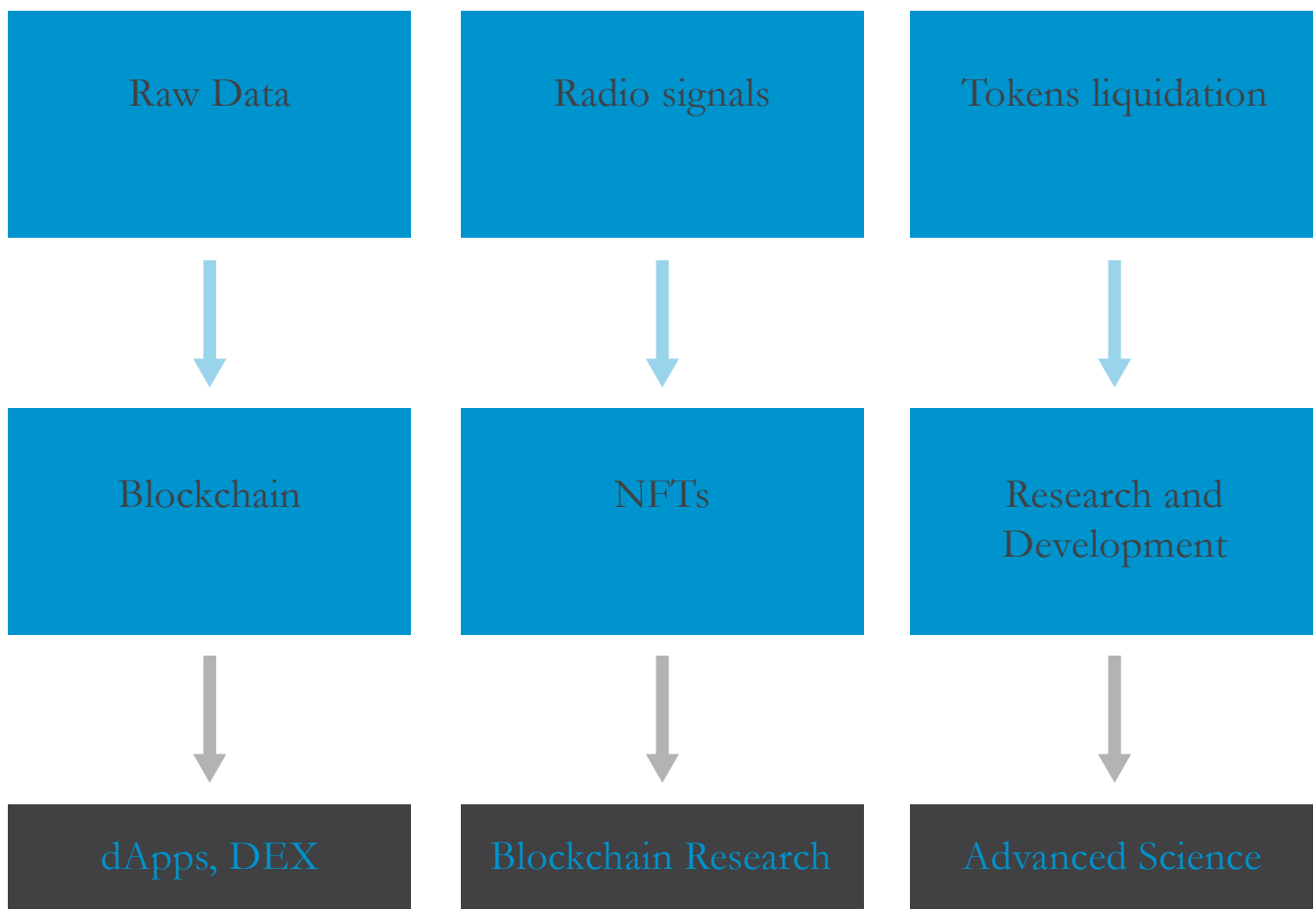


# VISION

## 10. Vision

The ultimate goal in any SETI project is to detect a signal from another advanced civilization in Space. Our vision is to create a coherent eco-system of multiple Blockchain modules interacting with each other through the Milkomeda Protocol, distributed ledgers, and a comprehensive end-to-end financial management system for the crypto assets space.

These modules will be working on top of and using the raw information received from the radio telescopes deployed by the Project. The proceeds from the Blockchain systems will fund the expansion of the facilities, development and research of new methods and technology to improve the Search, along with bringing dividends to the investors and equity shareholders.







# 11. Science

Radio interferometry is the technique used by professional radio astronomers to create a single large radio telescope using multiple smaller antennas. Radio interferometry allows radio astronomers to obtain radio pictures with higher angular resolution, but up until now this technique has been used only in very expensive research instruments....

Exploring the Universe by means of detecting radio waves has many advantages, like performing radio astronomy during daytime and in adverse weather conditions. Many scientific objectives (like the SETI ones) in radio astronomy require the construction of more sensitive telescopes. These include the detection of the distinctive emission at 21 cm from neutral hydrogen, which pervades the universe. However, since the angular resolution of a telescope is directly proportional to the wavelength, a radio telescope has an angular resolution much smaller than an optical telescope. For example, the angular resolution is calculated by this formula:

$$\theta = 2.5 \times 10^5 * (\lambda/D)$$

where  $\theta$  is in arcseconds and  $\lambda$  (wavelength) and  $D$  (telescope diameter) are in meters.

Considering an optical telescope with 50cm diameter (0.5m) with medium value of 550nm of  $\lambda$  ( $5.5 \times 10^{-7}$  m), the theoretical angular resolution is:

$$\theta = 2.5 \times 10^5 * (5.5 \times 10^{-7} / 0.5) = 0.275 \text{ arcseconds}$$

If we want to have the same angular resolution with a radio telescope recording 21cm wave length, we'll need to solve this equation:

$$0.275 \text{ arcseconds} = 2.5 \times 10^5 * (0.21 \text{ m} / D)$$

And this bring us to a diameter of 190909 meters. This means, in order for a radio telescope to have the same angular resolution of a 50cm optical telescope, the antenna would need to be 191 km in diameter, far too large to actually build! However, by using radio interferometry we can effectively create a single telescope as large as the distance between the two farthest radio telescopes composing the array.

SPIDER radio telescopes use smaller antennas, with diameters ranging from 2.3 to 5 meters – This is one of the reasons that makes the SPIDER more affordable.

sophisticated computer systems are needed to operate such arrays and computing costs grow rapidly with the number of antennas deployed. But now, physicists in the US say that these costs can be reduced significantly if the antennas are arranged in hierarchical patterns.

Unfortunately, as the number of antennas,  $N$ , in these arrays increases, the computing power needed to process their signals rises, roughly as  $N^2$ . This is because interferometry requires correlating the output of every pair of antennas within an array. Computing accounts for around half of the hardware cost of the array.

Now, Max Tegmark of the Massachusetts Institute of Technology and Matias Zaldarriaga of the Institute for Advanced Study in Princeton have shown how to achieve high resolutions using affordable computing. The trick is to arrange antennas into hierarchies. For example, as shown in the figure, antennas are arranged into  $5 \times 3$  blocks, which are themselves arranged into  $3 \times 3$  blocks, and these then placed within a still larger  $3 \times 3$  block. Tegmark and Zaldarriaga found that a slightly expanded version of the same algorithm used to correlate pairs of antenna outputs in a rectangular grid could also be used to process the data in such a hierarchical layout. The result is a significant improvement on the resolution of a simple grid while preserving the  $N \log 2N$  relationship.





# NUMBERS

## 12. Numbers

**Market:** The global cryptocurrency market size was valued at \$1.49 billion in 2020, and is projected to reach \$4.94 billion by 2030, growing at a CAGR of 12.8% from 2021 to 2030. The cryptocurrency market is expected to witness promising growth in the coming years, owing to improved data transparency and independency across payments in banks, financial services, insurance, and various other business sectors. As of 2021, we estimated global crypto ownership rates at an average of 3.9%, with over 300 million crypto users worldwide. And over 18,000 businesses are already accepting cryptocurrency payments.

**Price of one telescope:** (1-2 months for delivery and installation) \$125,000 5m radius.

**Price of all telescopes:** To be negotiated with the production company from Italy.

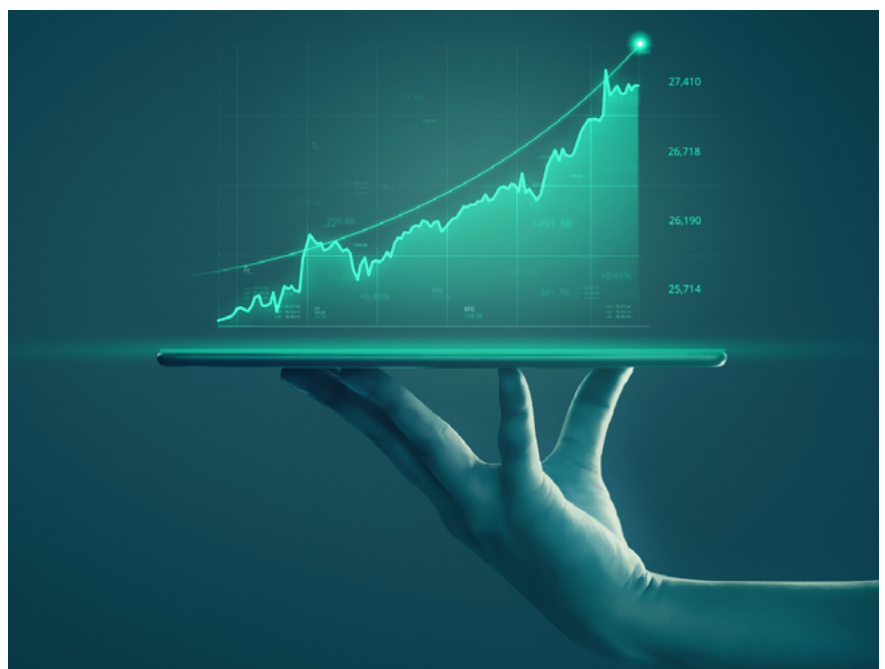
**Number of tokens issued:** 1 trillion in BSC and 1 trillion in MATIC Mainnet. Both will have the same price, automatically regulated by liquidity adjustment.

**Price during ICO:** \$ 0.0002

**Discount for pre-sale:** 20%

**Rent to schools, universities, museums, military, governments, research institutions and organizations.**

**Return of investment:** with correct marketing (ICO listings, Ads, Forums, Social Mass Media, Content marketing, Events) and beginning of the practical use of the project, according to Wall Street an estimated 1:100 return of investment during the pre-sale stage and 1:80 in the ICO stage.





# THE TEAM

## 13. The Team



### SVETLAN ILIEV

#### FOUNDER

International lawyer with focused education and extensive experience in the field of blockchain technology.

Already involved in several projects, linked to the world of cryptocurrencies, like the escrow service used by Monetizer.com. Svetlan is a keen fan of high-end science and technology, and also high moral standards, therefore the SETI Project could be the work of his life.

### DARIO DE LA PUENTE

#### FINANCIAL ADVISOR

Financial specialist with many years worth of experience with startup projects and investment opportunities.

Indispensable member of the team burdened with the heavy responsibility not only to bring forth investments but also to manage them afterwards.

### TSVETAN IGNATOV

#### PRODUCT DESIGNER

Marketing and popularization of a product is considered the most difficult thing in a startup business. That is why such a creative specialist has been brought on board to deal with the relevant obstacles and achieve glory for the SETI Coin Project.

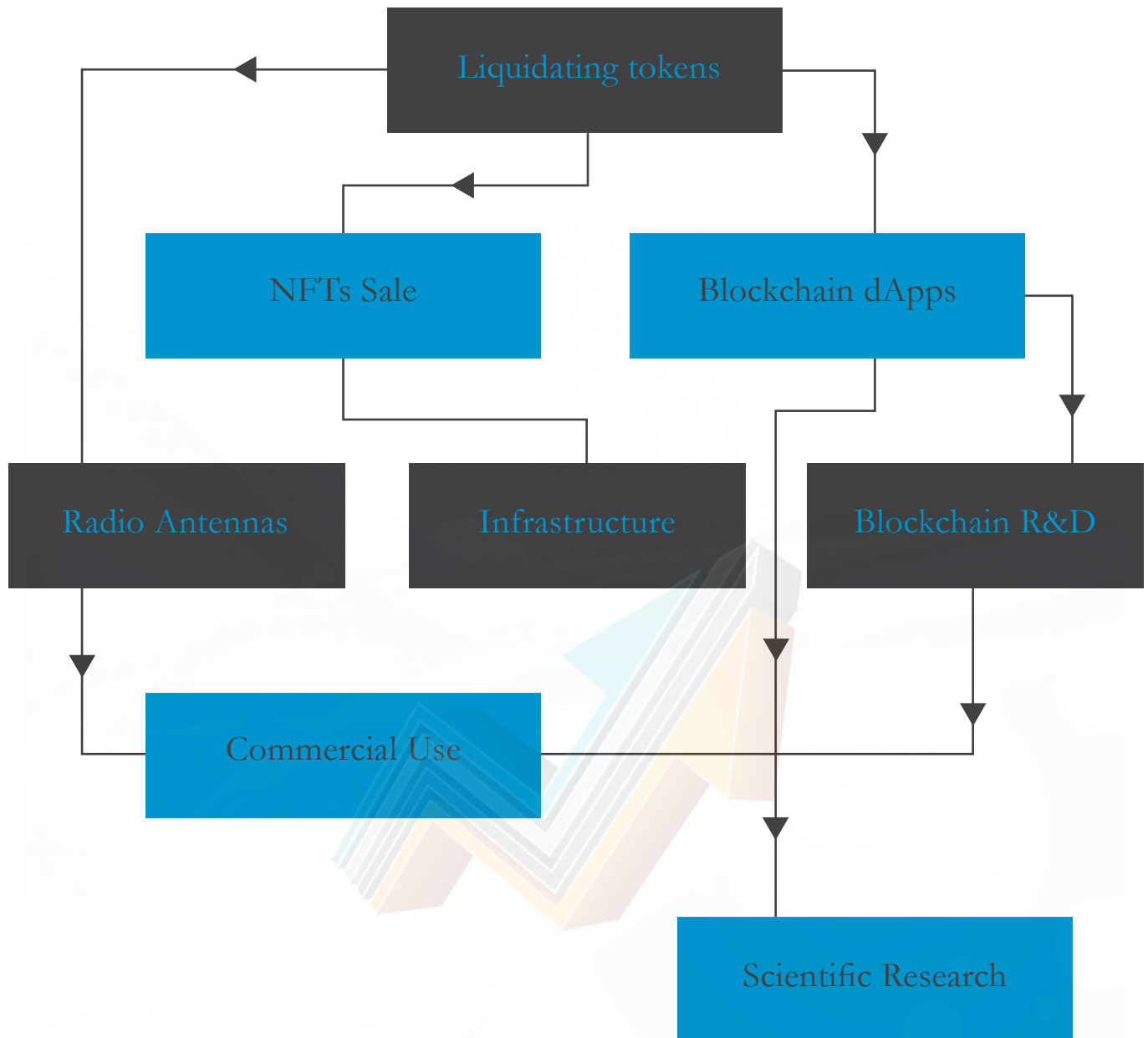




# CASH FLOW

## 14. Cash Flow

The SETI Coin Project will have a somewhat complex cash flow, directed by the management body but supported by algorithms and AI. The main purpose is to create new technology and methods helping in the search for alien intelligence. By-products of this will be the numerous possible uses of the Blockchain- hosting dApps, DEXs, launching collections of NFTs based on radio signals, social interactions apps, healthcare apps, etc. All these will bring more financing for the main goal, so in the end a symbiotic eco-system will be created which can run itself in the future.





# DISCLAIMER

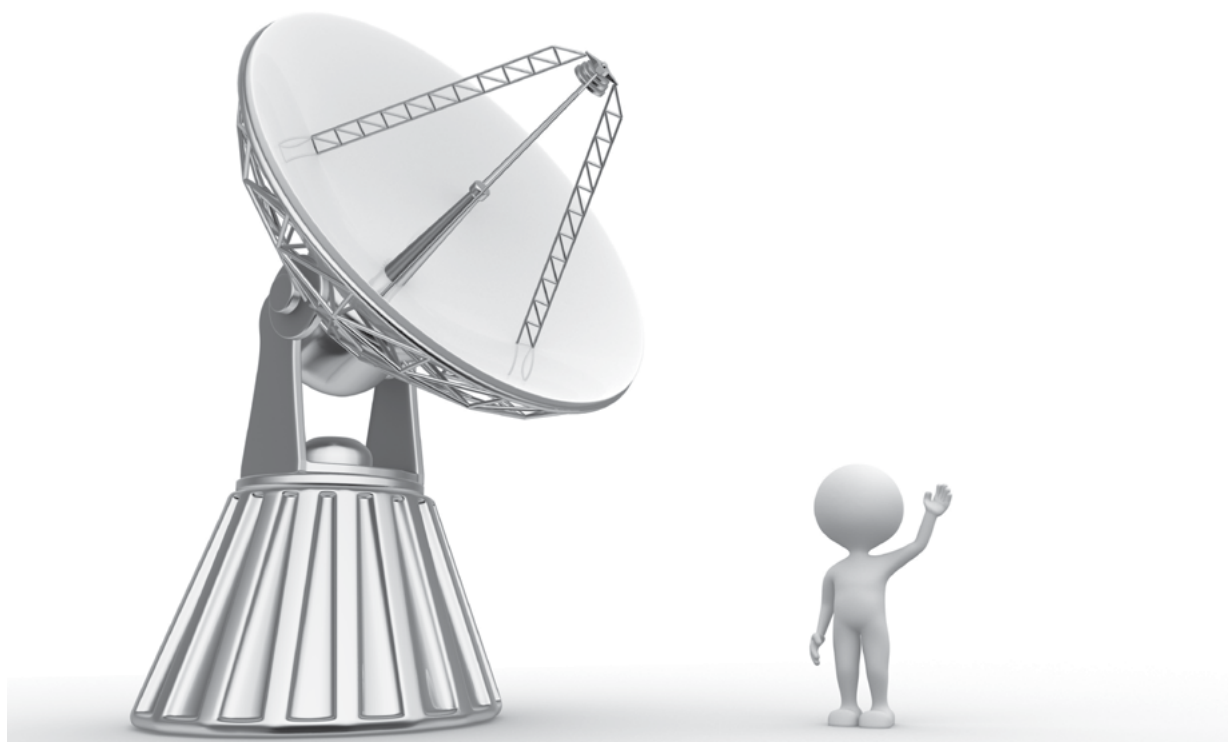
## 15. Disclaimer

### Legal Notice

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### Risk Disclosure



Please note there are always risks associated with smart-contracts. Please use at your own risk. SETI Coin is not a registered broker, analyst, or investment advisor. Everything that we provide on this site is purely for guidance, informational and educational purposes. All information contained herein should be independently verified and confirmed. We do not accept any liability for any loss or damage whatsoever caused in reliance upon such information or services. Please be aware of the risks involved with any trading done in any financial market. Do not trade with money that you cannot afford to lose. When in doubt, you should consult a qualified financial advisor before making any investment decisions.














# CoinTool.App

## Base Info

Token Name	SETI Coin
Symbol	SETI
Chain	 MATIC Mainnet
Contract Address	0xD4f918db21b4b9EDF2feb296D234cF2E9f19bC6a
Supply	1000000000000
Decimal	18
Burn	0.00%
Owner address	0x2d57c9f06fc388d7bdb3a8abd1f183af66f88cf9
Creator address	0xb965bae863f7edc462c5064d41fe077493bbfe95
Is open source?	 Is open source

## Risk analysis

Buy tax	0%
Sell tax	0%
Is honeypot?	 Security
Can edit tax?	 Security
Is anti whale?	 Security
Can take back ownership?	 Security
Is blacklisted?	 Security
Is whitelisted?	 Security
Is mintable?	 Security
Is proxy contract?	 Security
Can transfer pausable?	 Security