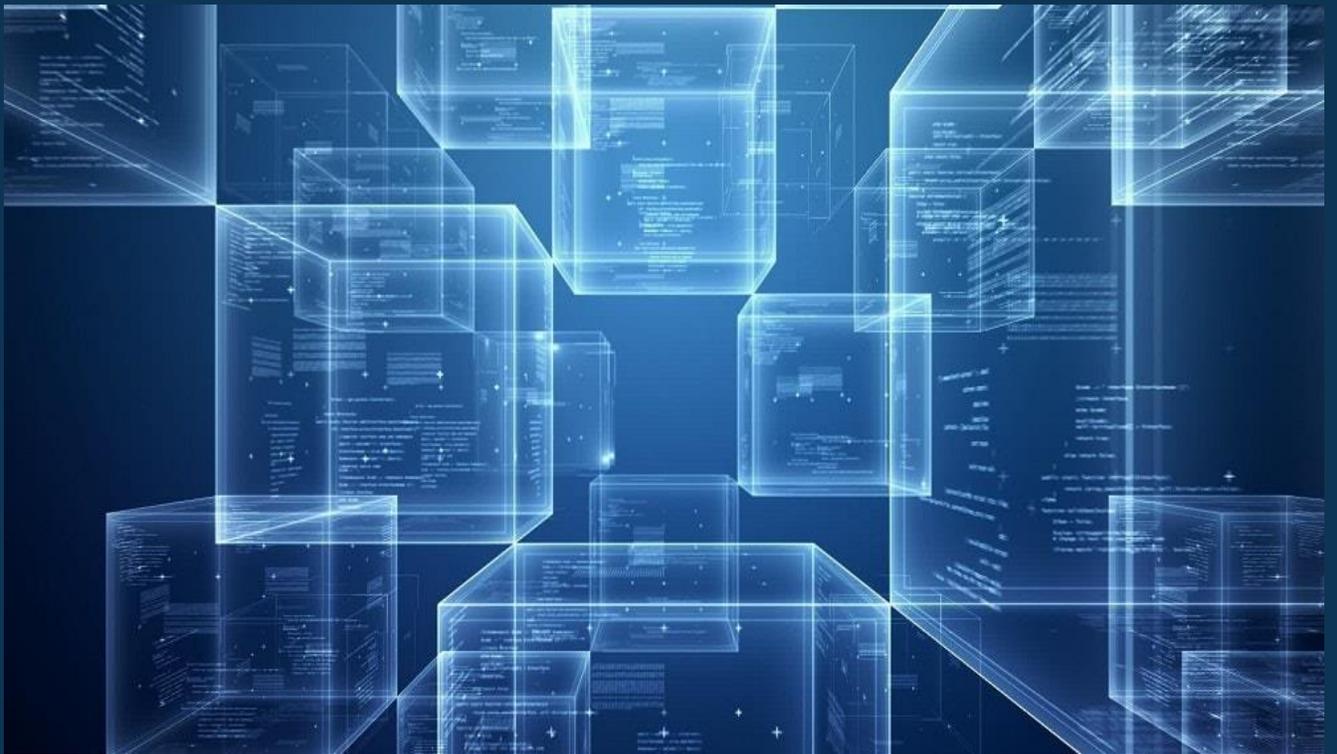




# **THE SPECTRUM NETWORK**

**The Blockchain based Geo-data  
provisioning system of the future.**



**Whitepaper 2.0**

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## ABSTRACT

The position of cryptocurrency in today's world grows rapidly. The combined market capitalization of all cryptocurrencies has increased more than fivefold since early 2014, reaching almost \$150 billion in August 2017.

Since Ethereum was introduced in 2009 and rapidly developing for these several years, people found that Ethereum has more potential than just being a kind of virtual currency.

The invention of blockchain, being the underlying technology of Ethereum & Bitcoin, has proven its unlimited capacity to be even more valuable than Ethereum and even Bitcoin itself. As it can be applied in the development of diverse kind of applications, owing to a specified characteristic called Decentralization.

Built based on the ERC-20 algorithm, SpectrumNetwork is an open source prototype project, first of its kind globally, designed initially to act in the interest of common world citizens for public good. For decades, improvement in the GIS ecosystem; which basically involves spatial data management, sale, display and usage: has been on the rise. A perfect blockchain based prototype was developed for infusing spatially referenced data within an ERC20-standard token, making location data decentralized, lighter, more accessible and inter-operable via a blockchain. SPEC tokens bridge the gap between spatially referenced data, its collation and cost management by utilizing blockchain technology. The era of requiring voluptuous machinery, software and financial resources in geospatial data acquisition, management and distribution; is soon to be phased out by this mechanism which SpectrumNetwork Blockchain brings.

The promise of crypto is to enable fair and open economic systems; SpectrumToken was designed with this goal in mind. The utility tokens (SPEC) will be able to build inexpensive, reliable and easy-to-use blockchain based systems that will enable common people map and interact with spatial data with affordable devices at almost no charge, thereby removing the dependence on middlemen and phase out the sole centralized approach by regulatory bodies in the future. SpectrumNetwork, like other successful crypto projects, generate support from the community through demonstrating alignment with these principles.

## INTRODUCTION

Over the past decade, there has been an explosion in the demand for cashless and digital payments all over the world. A recently conducted research shows that global transaction volumes grew by 11% from year 2014 to 2015, to reach 433 billion, an increase that is partially linked with the emerging Asia market.

In the past 24 months, this growth has been enhanced by the introduction of mobile wireless payment solutions such as Apple-Pay, Google Pay, Ali Pay and a host of other innovative and laudable solutions. Due to its overwhelming dominance and relevance, mobile proximity payment volume (such as Near Field Communication {NFC} and QR Codes) is expected to rise by a Compound Annual Growth Rate (CAGR) of 80%, between 2015-2020. This is estimated to bring the volume of the mobile proximity payments to over 4 trillion U.S dollars by year 2020.

The crypto economy and crypto currencies in particular, are growing at a phenomenal rate. It is estimated that by 2020, the crypto economy will exceed 3 trillion U.S dollars and by 2022, it could be equal to 10% of the global GDP. Only time will reveal the accuracy of these predictions. One thing is certain for now; crypto-currencies have passed the point of no return, they are here to stay and their importance and prominence will only continue to increase.

In the advent of cryptocurrencies serving for more than just currencies which were only utilized for exchange and purchase of various other currencies, but also for daily utilities; both in the economic and technology markets: only utility tokens bear the true identity of a crypto asset. Which in turn keeps serving for a very long time with an appreciating value.

SpectrumToken is a geospatial based asset which will serve present day and future GIS developers, developers in geographic & national security matters, and finally the global users.

### **What is a GIS?**

**G.I.S.** stands for: Geographic Information System. A GIS is a system of software and hardware pre-designed to capture, analyze, manipulate, control, distribute and visualize **geospatial** data.

### **What is geospatial data?**

Simply put – geospatial data includes datasets tagged with location identity. This explicitly means that, an object or property of the earth; including land/cadastral information, road and waterbodies: can have their true locations assigned to them via the use of satellite technology OR local reconnaissance using GPS or other low powered devices.

SPEC tokens bear the geospatial properties of the globe, arranged in an orderly fit. In the past, developers in the GIS field needed to manually retrieve by field work OR alternatively buy already processed SAT data, the same spatial data which SPEC tokens will currently offer. We have eliminated that cumbersome bridge. SpectrumNetwork Blockchain Systems, will be rolling out serious of PC extensions and mobile apps which will interact with our range of smart contracts in a seamless fashion. Knocking off that need for ultimately large conventionally used datasets.

## A BRAND NEW CRYPTO ECONOMY

As people change the way they interact with money, we have also seen the introduction of a brand-new form of monies, i.e. SpectrumNetwork tokens in cryptocurrency form. It has been less than 10 years since the creation and introduction of Bitcoin, the world's first digital currency that in turn built a new financial system called the Blockchain. Today, there are more than 1000 digital currencies known as cryptocurrencies and that number keeps growing daily. Global demand for cashless payments continues to rise at such a rate that the end of cash as a choice of payment is now a foreseeable reality.

The advantages of cryptocurrencies over traditional fiat currencies are numerous and as such, it is impossible for fiat to outmatch cryptocurrencies. Today, a transaction has to pay high transaction fee to initiate the transfer (the average cross border transaction fee is 7.45%).

This can now be seamlessly done in seconds using via the blockchain with practically zero transaction fee powered with hi-tech security.

However, to a lot people including individuals with a strong interest in new technology and productivity optimization, cryptocurrencies are still, to a large extent, perceived as an investment medium. Thus, the single most important step in moving the benefits of cryptocurrencies from the conceptual into the practical is to enable people through the use cryptocurrencies to carry out transactions and data exchange in the same way they would use any other currency. Especially with a utility coin which seamlessly portrays high value in the future.

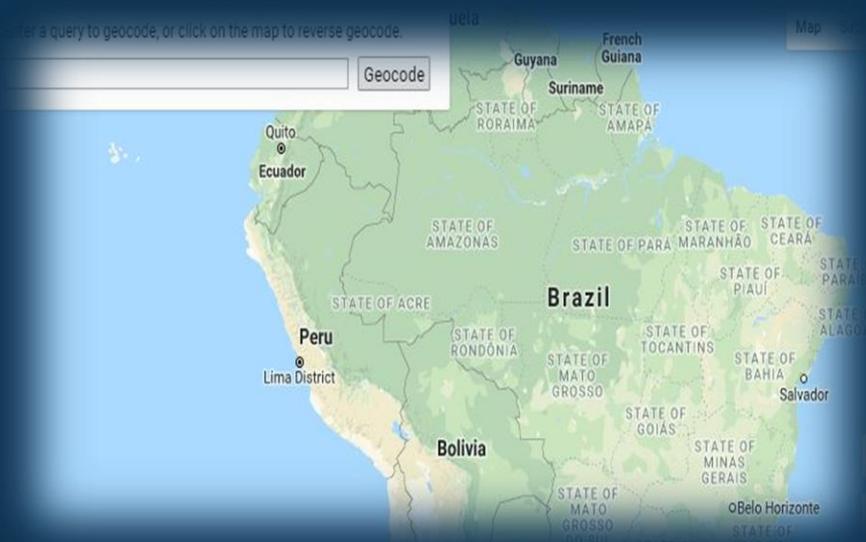
SpectrumNetwork token is not just a regular ERC-20 token which only serves for only trading on exchanges. SpectrumNetwork tokens are utility tokens encoded with location-based data. Our desired approach is as against conventionally heavier or cumbersome models & techniques that were used in spatial data management and distribution. SPEC has been made issuable and marketable as cryptocurrencies, which can be purchased using other crypto currencies and other forms of money in the future.

## SPECTRUMNETWORK'S MODEL

SpectrumNetwork is a unique decentralized cryptocurrency, built as an extension for geospatial software development experts. The entire cryptocurrency community can also trade SPEC tokens for profit.

SpectrumNetwork provides a headway aimed at solving problems of storing and display of ultimately large geo-spatial data. SPEC tokens can be imported into basic geoinformatics software. Web-GIS developers can now take advantage of the trustlessness of blockchain engineering to seamlessly employ the use of SPEC tokens for major developmental projects, as against the old conventional models which require enormous amounts of financial and time resources to achieve less precise – less optimal results.

Through unique algorithms known as **geo-coding**, we spatially coded the globe. It is safe to actually say a CryptoGlobe now actually exists. In this regard, the full earth as you know it, is fully digitized and can be seamlessly imported to just about any geo-informatic software, using the advanced utilities offered by our developing Dapps and extensions.



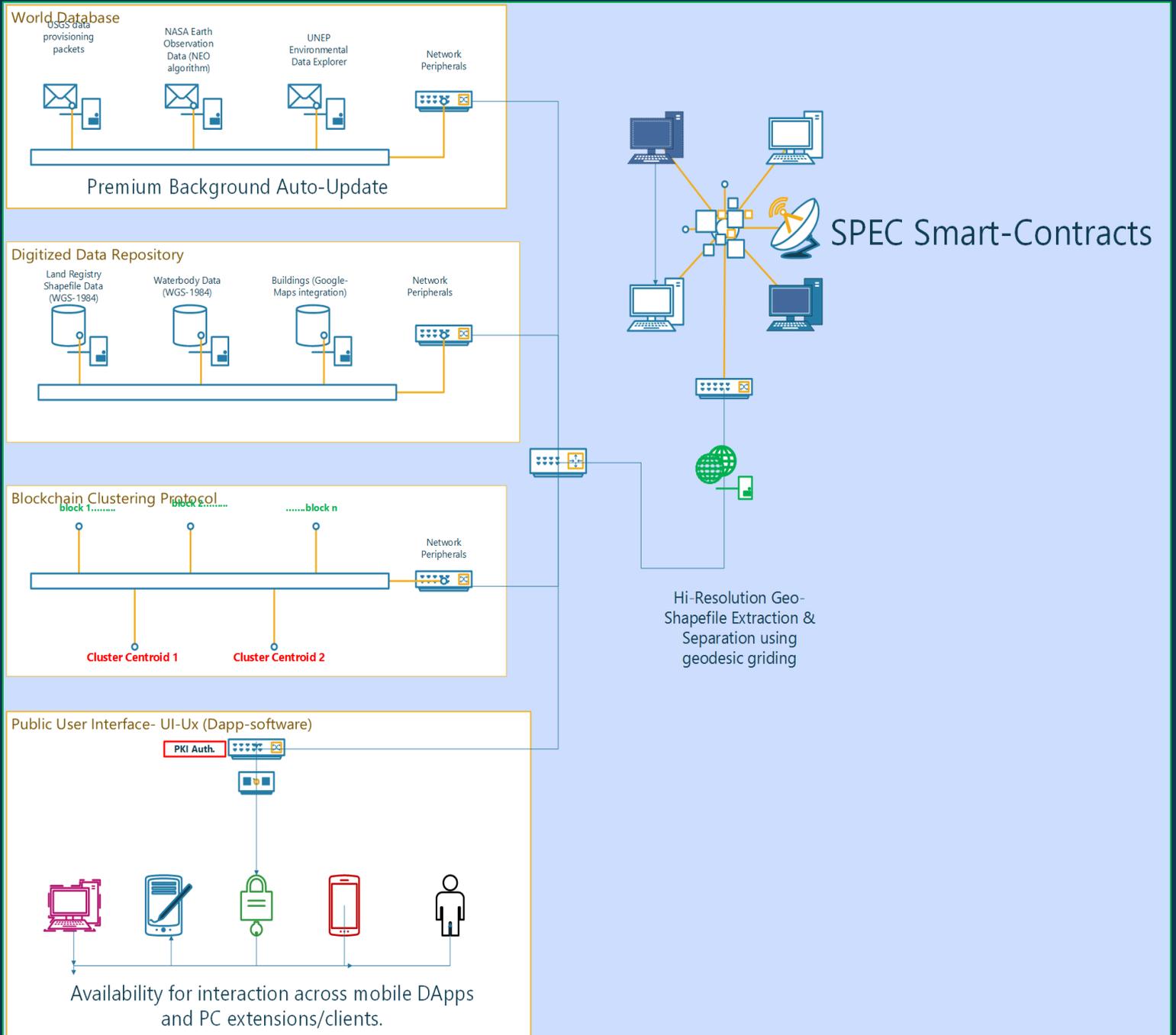
### Hey Stop!!...What is Geo-Coding?

*Geocoding is the process of converting addresses (like "1 600 Amphitheatre Parkway, Mountain View, CA") into geographic coordinates (like latitude 37.423021 and longitude -122.083739), which you can use to place markers on a map, or position the map. In other words, a geo-coded location is unique and can be applied to any Web-GIS based platform.*

Further algorithmic manipulations were employed in our token computations using geodesic gridding separation & blockchain uint protocols respectively; to harmonize globally geo-coded datasets into our the utility token "SPEC".

While in realistic terms, the ERC-20 token infrastructure inhibits the full functionality of SPEC, a main-net swap is scheduled for the 2<sup>nd</sup> quarter of 2019. A summarized model representation of SPEC technical operation is described below.

## The Model Representation



*A clear abstract representation of how the SPEC tokens interact with geo-data*

As a valuable digital asset, SpectrumNetwork's value appreciate as our community increases across the entire globe. The maximum supply, coupled with the token's utility, is expected to kick off a unique vibe on the cryptocurrency system. At the same time, welcome a healthy growth and better valuation of the token.

We propose to achieve a controlled value of SPEC tokens by listing with more stable exchanges, where the holders will not be able to trade our tokens lower than our pre-sale price. This way the value of the tokens is ultimately preserved.

Presently, SPEC is listed on exchanges. We are establishing cooperation with more and more exchanges with time.

## OUR CORPORATE VISON

Our corporate culture stems from numerous years of sound business judgment, which led to the successful conceptualization, development and deployment of various projects. Among our business principles has been our business policy which is to channel no less than fifty five percent of our resources into scaling and increase of our customer base. No less than fifteen percent (15%) of our resources are allocated to the maintenance of current operational activities and the rest of our token resources are deployed into research and development of new stack of technologies.



The thinking behind SpectrumNetwork is that subscribers should be able to tap into a decentralized blockchain structure controlling the distribution and exchange of valid geospatial information. SPEC is committed to solving this need by providing spatial protocols, standards, and applications that offer a higher level of security and resiliency than conventional geospatial technologies and location-based services.

Location-based services like ours, have augmented both urban and rural life, changing how people get around and how products will get to people. In the future, the world's collective critical infrastructure will rely even more heavily on spatial information, from stock exchanges to global security to autonomous vehicles and the internet of things. Blockchains have emerged to enable cryptographically secure transactions and manage risks through networks systems, without the need for a trusted third party. Blockchains have the potential to enable secure and self-regulating emergent infrastructures of the future.

New applications driven by smart contracts will need consensus-driven geospatial data that can be verified and trusted. Previous attempts to create an open source map that is legible to humans, verifiable, and readable by machines, have been crippled due to a lack of funding for open source projects. The SpectrumNetwork protocol inculcates the grassroot developer or user base to efficiently solve this infrastructure development problem around open communication standards for maps, which can now be freely generated from SPEC tokens.

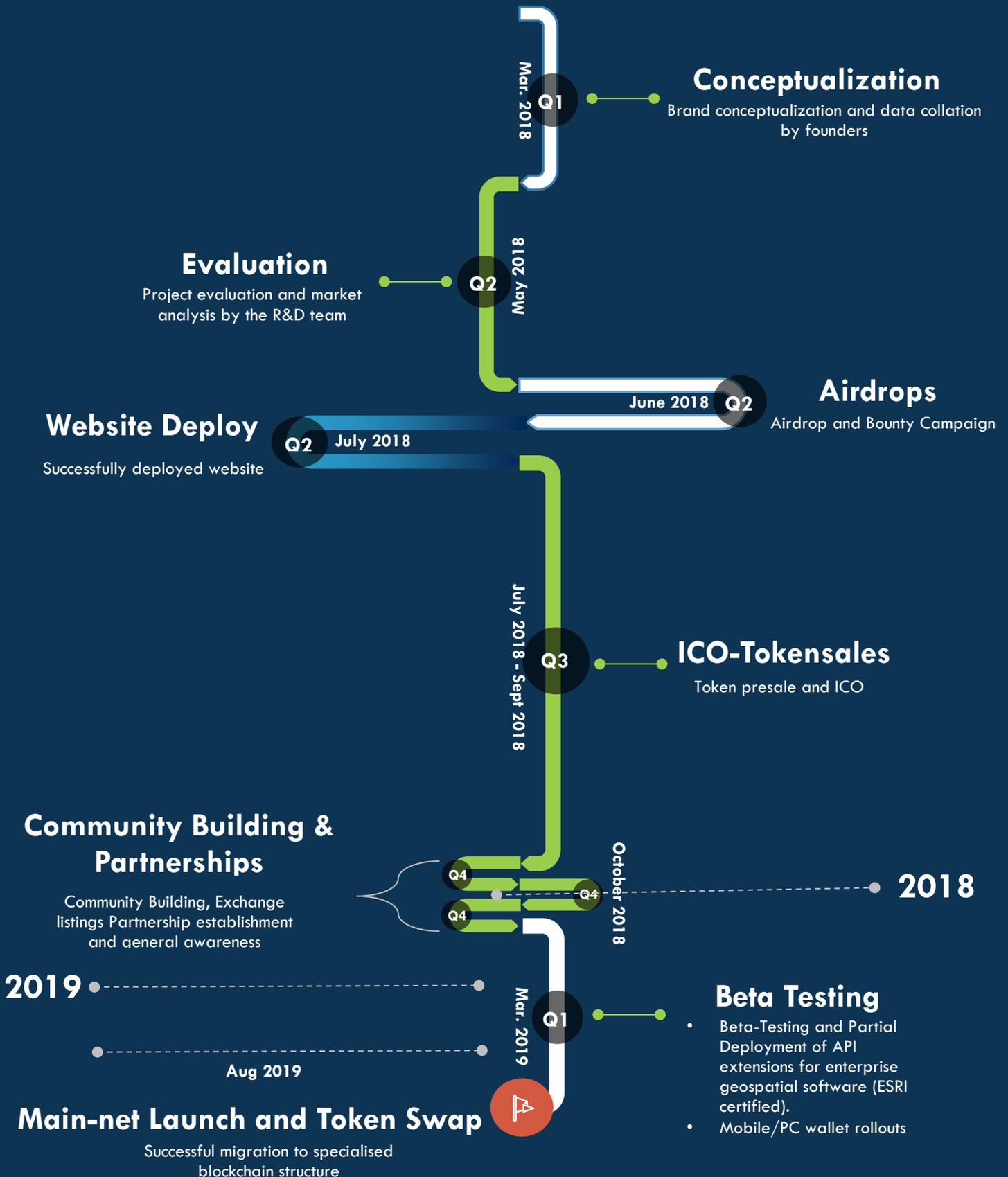
Similar to a need for a location encoding standard, there also needs to be able to interact, visualize and reason about the data with an advanced user experience. Examples of such interfaces exist for conventional centralized geospatial data sets, which are not compatible with open blockchain infrastructure. Additionally, there are no open user experience standards for visualizing geospatial data from a blockchain. The experience will be built from SpectrumNetwork Models.

Numerous blockchain projects' use cases have or will need visual mapping tools for smart contracts such as:

1. Security
2. Supply Chain
3. Energy Markets
4. Real Estate
5. Mobility
6. Location-based games

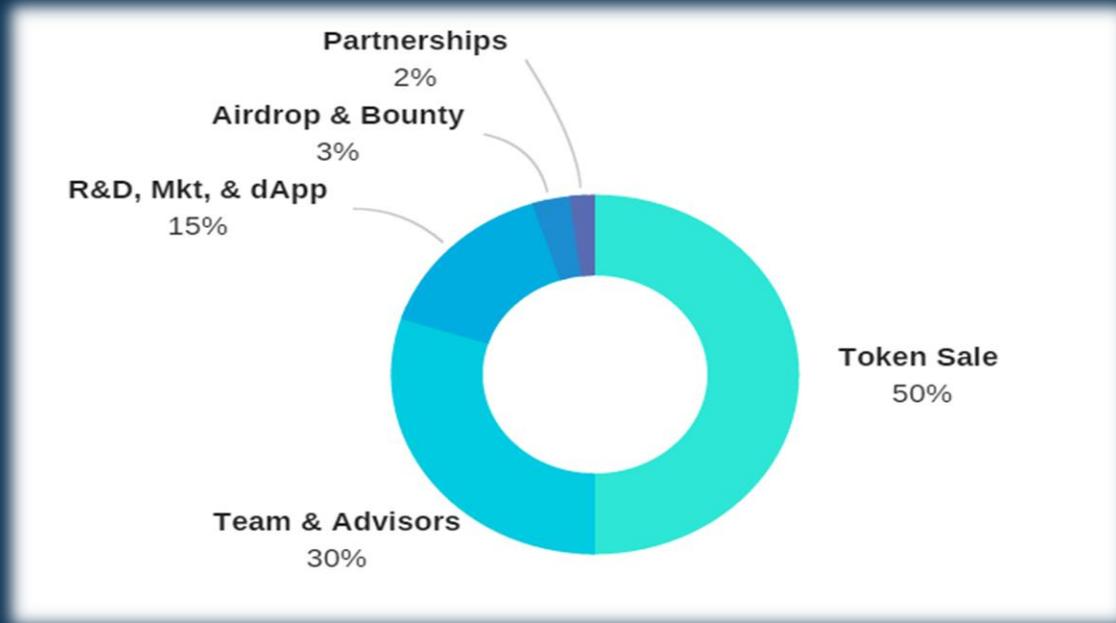
For any of these blockchain applications a map or visualization component is crucial. Currently there are no blockchain tools for geospatial data. SPEC aims to provide a solution to this.

## PRODUCT DEVELOPMENT AND SUMMARISED ROAD MAP



## THE SPECTRUMNETWORK TOKEN INFORMATION

SpectrumNetwork was developed for both geo-spatial data managers and for financial activities giving users the option to buy and sell our tokens. A fiat option is still in development to be enabled within our web wallet and mobile wallet API interface after a successful migration to our owned blockchain.



Coin Algorithm

•ERC20



Token Symbol

•SPEC



Total Token Supply

•1,000,000,000



Decimal

•18



Burn

•NO



Mining

•NO

**ICO - INFORMATION**

START DATE	31 <sup>st</sup> July, 2018
END DATE	30 <sup>th</sup> September 2018
MODE OF PAYMENT	Ethereum

Token sale was in two phases.

Phase 1: At phase one, token was sold at 0.00001119 ETH per SPEC. Proceeds of Phase One were channeled into website deployment and other expenses foreword.

Phase 2 - Crowdsale: At phase two, token value was upped to 0.00002ETH. Proceeds of Phase Two are targeted for channelling into mobile wallet and PC wallet development.

**Soft Cap**

1500 ETH

**Hard Cap**

3000ETH

For exactly 60 (sixty) days, SpectrumNetwork pioneered both her Token presale and Crowdsale inclusive. The event kicked off at exactly 12:00HRS CST on 07/30/2018 and ran till 12:00HRS CST - 09/30/2018.

500,000,000 SPEC tokens were bided and a total of 291,375,460 SPEC was successfully sold out. See the technical details below:

At the token presales: 201,427,468 SPEC tokens were sold out in barely 425 transactions, crossing our soft cap of 1500ETHER.

At the coordinated Crowdsale event: 89,947,992 SPEC tokens were purchased along with bonuses offered to incentivize purchase. Additional bonuses totaled up to 10,000,000 SPEC tokens.

A recorded balance of 198,624,540 SPEC were allocated at the below rates;

40%- driven towards a Private Sale to extremely committed investors.

30%- Added to residual benefits for Research & Development.

30%- will continually be distributed amongst all members holding SPEC: at an even proportion to amount held.

An airdrop sequence was conducted in Mid-July 2018, and has been fully distributed.

## CONCLUSION

Cryptocurrencies are faced with the adoption of new laws around the world, abstractly regulating their turnover. New laws do not bypass and carry out token sale, which were also subject to regulation. We therefore warn participants that, we are not responsible for possible changes in the project in the event of a possible restrictions on the activities of cryptocurrency projects and token sale of various jurisdictions.

At the moment, blockchain technology is still pretty innovative and has not yet been subjected to technical and legal settlements. We are not responsible for the possible adoption or rejection of our ideals by any country's laws in the field of blockchain technology regulation, which are negative will affect the development of the project or the entire cryptocurrency system.

Our team makes every effort to develop and stabilize the formidability of our utility tokens.

Investments in start-ups, cryptocurrencies and various token sales are considered high-risk. There is no guarantee that you start getting your returns immediately.

The cryptocurrency industry has high volatility today and we warn you about possible losses in case of sharp fluctuations of rates cryptocurrency.

## THE TEAM



**Robert Mills - Co-founder and CEO.**

*Robert Mills is a nancial advisor, a business mentor and coach, possessing a great expertise in mutual funds, portfolio management, alternative investments and asset management. He was part of the influencers with Ridgehead Consult that assists clients in defining or executing Technology and customer support strategies. He was an active participant in organizing and providing funds for local companies who needed low lending rates for capital projects both in real estate and Mining various sectors. Robert is a co-founder of the New Life Business (NLB) project, which is dedicated to empowering and mentoring latest entrepreneurs in building and sustaining their enterprise.*



**Andrew Collin - Technical CTO.**

*Andrew Collin is a web GIS mapper and analyst. Renowned for his expertise in creating and testrunning APIs for major geo-softs. He solely synthesized spatial data with blockchain technology securely. He is a key member behind the full success of the SpectrumNetwork project. Being a software developer with deep knowledge and expertise spanning in years of experience, he has an international certification in cyber security and software development.*



**Mary Mills – Legal Advisor**

*Mary Mills is a legal practitioner and the founding partner of Smythe & Mills Solicitors. She is a serial marketing entepreneur as well as an astute negotiator with a wealth of experience in corporate practice having served as external solicitor and legal adviser for various companies around the globe. She and Andrew Collins are respective key elements in the success of the brand.*



**Luca Fong Chan – Blockchain Expert**

*Luca Fong Chan is the Technology Director at Accenture Hybrid Block Systems. He is a major entrepreneur in the new world industry for the last twenty-five years. He successfully built several internet businesses in his early career and has been developing new technologies for social media, payment, mobile wallets, mobile phones, telcom systems, IOT solutions and blockchain technology.*



**Martha Simmons - Cyber Security Advisor**

*Martha Simmons is a CEO of GMSICT .She has been a successful entrepreneur for over 10 years. An expert in Information Security, IT controls, Governance, and Risk Management, but more importantly understanding it in the context of the organizations and their industry & meeting enterprise objectives.*



**Peter Hadrill – Geo-Designer**

*Peter Hadrill has worked in the geospatial industry for over 12 years in various roles from performing technical analysis, designing high end maps, developing enterprise system administration functions up to supervisory level overseeing a small GIS team.*