



## HashGains (HGS) Token Sale

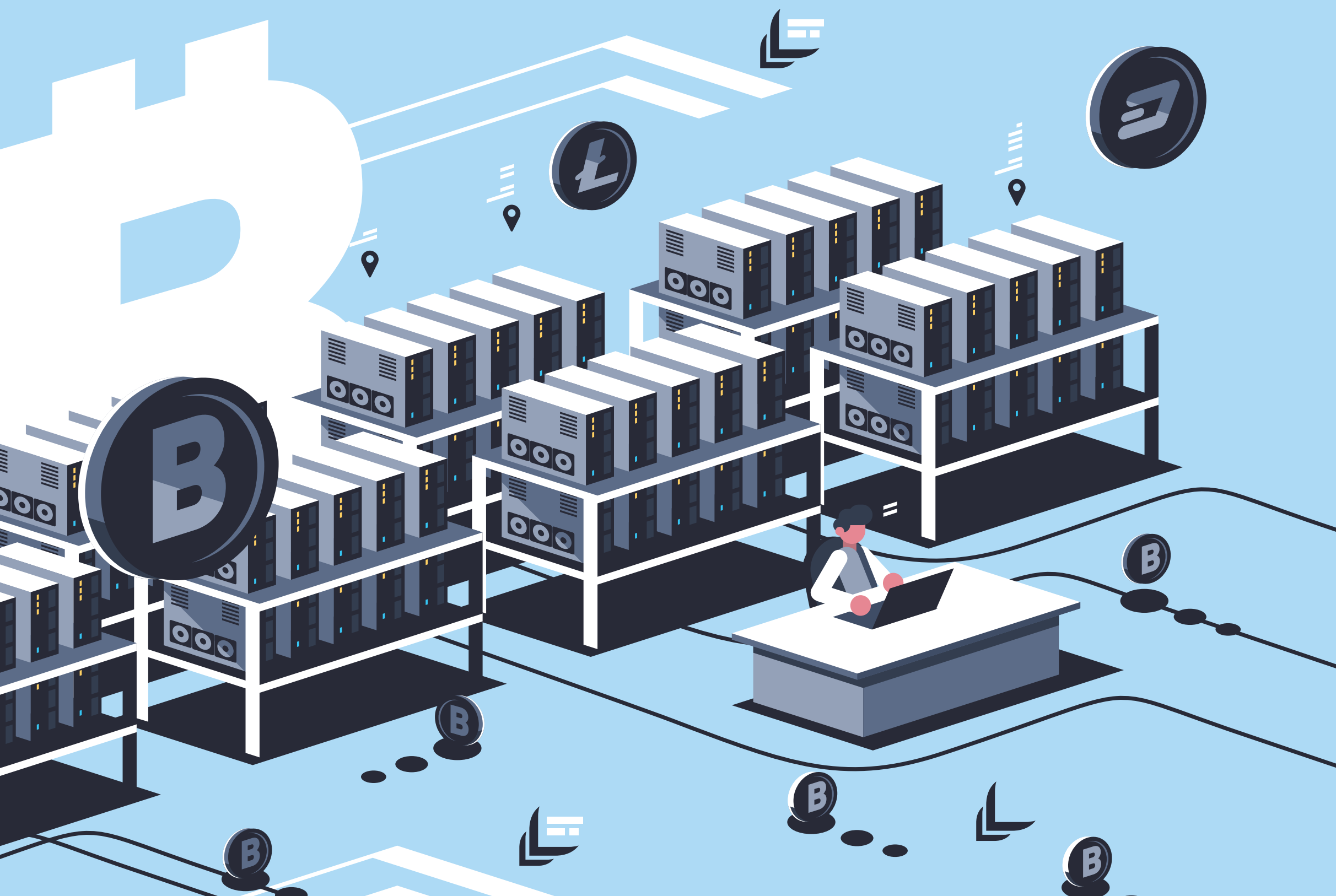
# Whitepaper v1.1



# Appreciate the Power of # with Green Energy

Mine and Earn your treasured cryptocurrency

Join the Multi -Millionaire Industry;  
be a **HashGainer Today !**





# Limited Time Presale Offer for ICO Stakeholders

HashGains has come out with an exclusive Presale Offer only for our investors. You can mine and earn Bitcoin or Bitcoin Cash with every 10 HashGains Token you buy! HashGains will empower you with 1 GH/s Hash power before the main sale starts.

Every 10 HashGains token you buy would get you 1 GH/s Hash Power to mine Bitcoin or Bitcoin Cash in our Data Center.

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Sample investment of 10,000 tokens during pre-sale will cost you \$7,000 would also get 1,000 GH/s or 1 TH/s of hashing power for 24 months which can get you close to BTC 0.05 per year or 0.1 BTC in 2 years which is equivalent to around \$2,000

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# Legal Statements



# 1. Legal Statements

## 1.1 Legal Disclaimer

The facts provided in this white paper widely cover the different aspects of Initial Coin Offering and HashGains' role in the same. Strictly meant for public guidance, it enunciates the practice of ICO Token crowd sale solely as a matter of interest to groups or individuals who would like to benefit from this venture. By taking part in any of the activities pertaining to ICO trade or by using any of the information underneath, you adhere to the following codes of practice:

1. As a user, you understand and acknowledge that HashGains' exclusive tokens will be supplied as part of the presale or/ and ICO smart contract in a predetermined order that ensures successful delivery of contracts/transactions and no modification can be made on these by any of the parties.
2. You wilfully cognize that HashGains is not accountable for the individual capability to participate in the ICO sale for reasons beyond its control- these include but are not limited to the duration of the presale and/or ICO exchange, unprecedented delays in transaction mining or/and nodal issues.
3. Following a successful presale or/and ICO, team HashGains will focus on implementing the business plans and achieving the respective milestones as construed in the financial roadmap for the times ahead. HashGains, however, undertakes no responsibility to act on account of the user's interests pertaining to the future presale or/and Initial Coin Offering.
4. As an ICO investor, you acknowledge that by transferring your assets to the HashGains site, you have taken an absolute decision regarding the deposition of money or other such liquid assets and have no right whatsoever to claim a chargeback barring one which is guaranteed by the ICO presale or/and smart contract code itself (this specifically refers to a 100% recompense when the total fund raised is below the minimum target and the timeline for the presale/ Crowdsale/ ICO has expired).
5. Under the fiscal policies of the state, the user as well as the company is responsible for individual taxations. HashGains is not a tax agent to the user nor is it liable to act as one. HashGains will not be providing the user's financial information to a third party unless officially requested by the governing authorities.
6. The links mentioned in this e-manual offer vistas to third party websites over which HashGains has no control whatsoever. The statistical figures and illustrations are for reference purpose only and HashGains is, by no means, responsible for the factual authenticity of these aforementioned sites.
7. Additionally, the information provided in this Whitepaper is not meant for legal consultation and HashGains is not liable in case of any omissions or errors, or for the results achieved from the use of this information.
8. All information on the HashGains platform should be taken as an investment advice and it does not indicate an invitation or an offer to purchase and/or sell ICO tokens or invest in the same.
9. The data is provided "as is" and comes with no assurance of accuracy, compliance, significance or consequences following the real-time application of this information. In no possible event will HashGains, or its partners, escrows or employees be legally responsible to the user for any verdict or action taken based on the information or for any damage thereof, even if fully advised of the risk of any such damages.
10. The user warrants that he/she is a capable individual of/above the legal majority age, thereby complying with the jurisdictions of the land.

**\*\*Disclaimer Note:** All investments are subject to market risks. By reading this legal disclaimer, you fully cognize that you have understood and agreed to the terms and conditions of the ICO contract. You are participating in the presale or/and ICO contract on the HashGains platform at your own risk and HashGains will not be responsible for any losses incurred.

## 1.2 Forward Looking Statements

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This document has not been examined or sanctioned by any regulatory body. Nor will such action be taken in the name of law or any such regional jurisdiction. The periodical distribution, broadcasting or publication of this Whitepaper by no means indicates that the pertinent laws, administrative rules, or advisory claims are part of some compilation. As indorsed by the relevant laws, principles and protocols, HashGains and its respected associates (including the officials and the agents), with regards to the HashGains platform and HashGains' ICO tokens, are not subject to blame for any damage including but not limited to direct/indirect, incidental/accidental, major/minor damages such as loss of profits or revenue, trading losses, third party losses (predictable or otherwise), damages resulting from the effectiveness or ineffectiveness of the HashGains website and HashGains tokens.

So as to avoid the risk of dubious dealings, the distributor makes clear that a few statements included in this ICO Whitepaper are 'forward-looking' and fall under the meaning of appropriate securities laws. These not only represent the current views of the company with regards to the financial performance, but also the central roadmap, potential growth prospects and future strategy in direct relation to HashGains, and the ICO trade industry wherein it operates. Forward-looking statements may be identified by the usage of terms such as anticipates, "plans", intends, "anticipates", "aims", "goals", "believes", "likely", "could", "would", "should", "future", "estimate" and the like. As part of any business norm, an investment may involve certain risks (known or unknown as stated in the terms and conditions) as well as other pertinent factors that lead to variations in actual results, and differences in presentations and accomplishments which are in contrast to the future-oriented statements. Therefore, these declarations should not be taken as assurances of future presentations or results. All 'risks' should be deliberated in correspondence with other advisory statements as mentioned in the terms and conditions. The generalized statements in this Whitepaper are not future proclamations or forecasts.

Readers are warned against placing undue confidence in these statements and taking them literally. All information pertaining to ICO communicates only as of the date of their release in the form of this Whitepaper.



Abstract



## 2. Abstract

The latest Blockchain developments have taken the world by storm. As yet another financial year comes to a decent closure, the tech-communities are busy predicting the colossal returns as promised by Bitcoin and its altcoin successors. It's no less than a boon, given the fundamentals of Blockchain technology has been adopted by many an international bank as part of the core infrastructure. The Distributed Ledger Technology offers an ideal solution to traditional banking problems and with the inception of decentralized coins like Bitcoin, Ethereum and Monero, the virtual world seems to take on the real world with equal gusto. Being an unassailable ledger that it is, Blockchain wallets not only store all forms of digital assets, but also record every minute detail associated with each and every transaction.

Cryptomining has created a sort of frenzy among people of late, owing to the price of cryptocurrencies which skyrocketed in the last couple of years. Today, mining is considered a long-term venture that assures lucrative returns. Bitcoin mining started in the year 2009, and since then, there has been no looking back. HashGains is one of those reliable platforms that has been specially designed for cryptocurrency mining via cloud technology. The increasing demand for mining services has now led to a dearth of mining tools and equipment. On a larger scale, mining has become an expensive deal with powerful ASIC devices fulfilling the requirements. Not only is the electricity consumption on the higher end, but mining has itself become a community-driven elitist affair. The initial purpose of crypto coins (which promotes a decentralized station that is accessible to anyone and everyone) seems to be defeated with ASIC and FCPA devices taking centre stage. HashGains aims for bio-friendly (and user-friendly) mining services so as to reduce the high level of energy consumption and encourage feasible cryptomining. With HashGains' ICO smart contracts, investors can become co-owners of the mining servers and equipment.

The company will hold an Initial Coin Offering Event in the coming year wherein investors and supporters get to play an active role and become the initial owners of the HashGains Token before it gets released on any major exchange. The token will be used in the marketplace for a wide variety of engagements. The funds amassed from the ICO presale will be used for the early development, marketing and management of the overall project and its platform. ICO owners may feel assured that this unique project is backed by a team of crypto veterans and Blockchain experts. Indeed, team HashGains has the potential to become the torchbearers of a progressive generation in years to come. Come, be a part of HashGains mining!



# Introduction

### 3. Introduction

With the advent of emerging technology 'blockchain' whole world is becoming decentralized. There is need for consensus to be created which is not only secure but can be trusted through peer to peer network. Something which can be trusted and something where no one can fiddle around. Blockchain is popularly described as "an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way. In order to use as a distributed ledger, a blockchain is typically managed by a peer-to-peer network collectively adhering to a protocol for validating new blocks. Once recorded, the data in any given block cannot be altered retroactively without the alteration of all subsequent blocks, which requires collusion of the network majority. The process of adding transaction to this distributed ledger of blocks where each block typically contains a hash pointer as a link to previous block is called as mining. Mining is an integral part of this decentralized peer to peer network.

Realizing the potential of blockchain and need of data centres an internet major in India and US, Futuristic Internet Services LLC having expertise of over 15 years in running and managing data centres across the globe having customer base of 50,000+ loyal customers including 10 of 500 Fortune 500 companies in its list of customers decided to get into this with its venture called HashGains.com. HashGains has already garnered 10,000 plus customers on its platform where customers can buy hashing power to gain the pie of very popular crypto currencies like bitcoin, ethereum, litecoin etc.

We estimate that crypto currencies have a very good future going forward and its total market capitalization which stands at around \$600 Billion Dollar is all set to grow and become multi trillion dollars in coming 2-3 years and continue to witness ever impressive growth. Estimates suggest that over 100 million people across the globe would soon start transacting in crypto currencies which would led to spurt in need for miners across the globe. All this would demand need for building mega data centres which not only works on renewable energy as growing fossil fuel need in managing mining operations have emerged to be a major concern area but would also address need of cost effective power for cloud mining data centres.

HashGains which is already serving 10,000 customers on its platform would like to reach 1 million customer mark by end of 2019 which would help HashGains emerge among top mining companies in world. In order to serve such massive base of customers HashGains would be required to build mega cloud mining data centres using its years of expertise and help customer earn precious crypto currencies. Proceeds from ICO would be deployed to build Data Center in Rajasthan India and Quebec Canada.





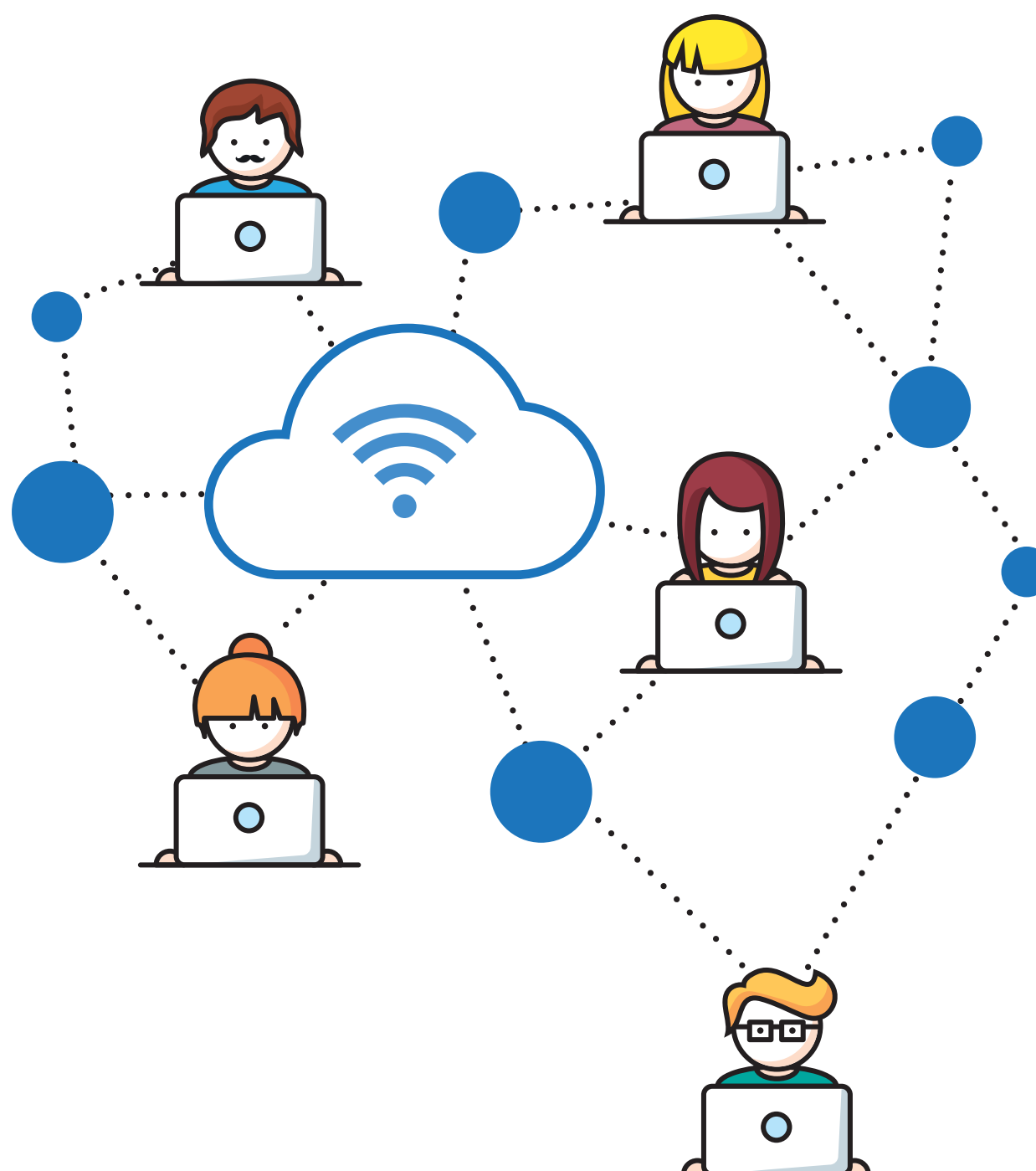
**Concept**

## 4. Concept

### 4.1 What is Distributed computing?

Distributed computing stands for a computer science field that analyses distributed systems. To be specific, distributed computer system is what contains different computers that work as a single computer or system. In this system, computers might be together physically and connected via local network. Alternatively, it might be possible that distributed systems are at a distance and then connected through wide area network. In this model, components that are situated on computers coordinate and communicate through actions like passing messages.

The computer program works in a distributed system known as distributed program. The writing process of such programs is called distributed programming. Message queues, pure HTTP, and RPC are some alternatives for passing the messages. Location transparency is a goal, pursued by practitioners and computer scientists in the distributed systems. However, the goal is not in the favour of the industry as there are some differences, including partial upgrades, system failures, and network partitions.





The ultimate goal is to prepare such network that works as a single computer. There are plenty of benefits of distributed systems on centralized systems, such as –

### Scalability

As per the requirement, more machines can be added to a system and expanded easily.

### Redundancy

Different machines can offer similar service, therefore in case one service is not available, other machines can be used. In addition, small machines might be used as there is no need of expensive redundancy.

These systems can run or work on hardware provided by most of the vendors and use various software components. A few hardware might make use of Linux or UNIX as their operating system; however other hardware will make use of Windows systems.

In order to run distributed computing systems through separating functions, there is a design of server/client model. The design uses three-tiered architecture.

## 4.2 What is Cloud Mining?

The process of utilizing a data centre with shared power in order to mine Bitcoin or other cryptocurrency is known as cloud mining. It enables miners or users to mine cryptocurrencies with no need of managing the hardware. Cloud mining efficiently runs the software or hardware and is an ideal option for people who are not tech savvy.



## Types of Cloud Mining -

There are three types of remote mining that are available in the market –

### Hosted Mining

In this mining method, a mining equipment or machine that is hosted is leased.

### Virtual Hosted Mining

Install a mining software and create virtual private server.

### Leased Hashing Power

Lease hashing power amount without virtual or physical computer. It is the most preferred cloud mining method among investors.

Generally, there is some cost involved in cloud mining and there are chances that returns might be lower. Nowadays, there are plenty of cloud mining companies who do mining scams and then leave the market.

There are countries where electricity cost is high, so for those, cloud mining is an apt option. For instance – Germany has a very high electricity cost, therefore outsourcing mining to the city or country where cost of electricity is relatively low is a great idea.

It is advisable to first assess a so-called reliable cloud mining partner by reading the testimonials and the 'About Us' section of company. After that, you can determine which purchase plan to opt for and at what terms and conditions. Most of the cryptocurrency contracts are for a year or two and some are life time or you can say infinite.

Some cloud mining service providers might charge maintenance fees throughout contract and the same will be mentioned in the initial payment that might distort returns and could be a bust and scam.

Cost per GH/TH/MH and mining contract length can be determined on the pricing page. All you have to do is make an account on the website, select the mining purchase plan of Bitcoin, Ethereum, Dash, Zcash, and Monero and make the payment in dollars. Post that, hashrate will be assigned and you can start mining your preferred cryptocurrency. Earned coins will be saved in the personal wallet.

## 4.3 Bitcoin and Altcoins

Bitcoin is a peer-to-peer payment method that has no central authority, including bank or government. It is an open-source cryptocurrency that is invented by an anonymous developer under the pseudonym

**Satoshi Nakamoto**  
in 2009.



Unique features of Bitcoin include –



### Faster Payment

Bitcoin ensures fast payment as compared to wire transfers that takes a few days for payment clearance. The cryptocurrency can make the payments in minutes.



### Low Transaction Fees

The transaction cost with Bitcoin is comparatively low. The cryptocurrency charges low transaction fees in comparison to other payment forms like credit cards or PayPal.



### Protection against Inflation

Different from other cryptocurrencies, Bitcoin mining is done for a fixed amount. Owing to the scarcity of this coin, it gets prevented from inflation.



### No Government Regulations

The cryptocurrency works on a decentralized format that means users or miners do not have to worry about the regulations and policy changes that affects the fiat currencies.



### Ownership of Currency

You have full control over your Bitcoin. However, in other payment methods, there are chances that the users' assets might get locked by a regulatory body or due to many operational reasons.

## Uses of Bitcoin

Bitcoin is the same as other well-known monetary forms as far as security and value are concerned. A currency's value can be judged by what it can be utilized on. Many bestsellers and vendors now acknowledge Bitcoin as a legitimate payment method.

The renowned PC organization, Dell was one of the primary organizations to acknowledge Bitcoin and furthermore, one of the biggest worldwide organizations to do as such. In addition, there are numerous others joining the fleeting trend fundamentally on the grounds that the development of Bitcoin can profit retailers in different ways. The case of Dell will clear up many lingering uncertainties.

## Altcoins

Altcoins are the elective digital currencies propelled after the accomplishment of Bitcoin. For the most part, they anticipate themselves as better substitutes to Bitcoin. The achievement of Bitcoin as the primary pooled and advanced currency paved the path for many of its successors. Numerous altcoins are endeavouring to focus on any apparent constraints that Bitcoin has and has come up with more up-to-date structures with a few upper hands. There is an incredible assortment of altcoins.

"Altcoin" is a blend of two words: "alt" and "coin"; alt is short for option and coin implies money. Hence together they suggest a class of cryptographic money that is another option for the computerized cash Bitcoin. After the example of overcoming adversity of Bitcoin, numerous other shared advanced monetary standards have developed themselves in an attempt to mirror that achievement.

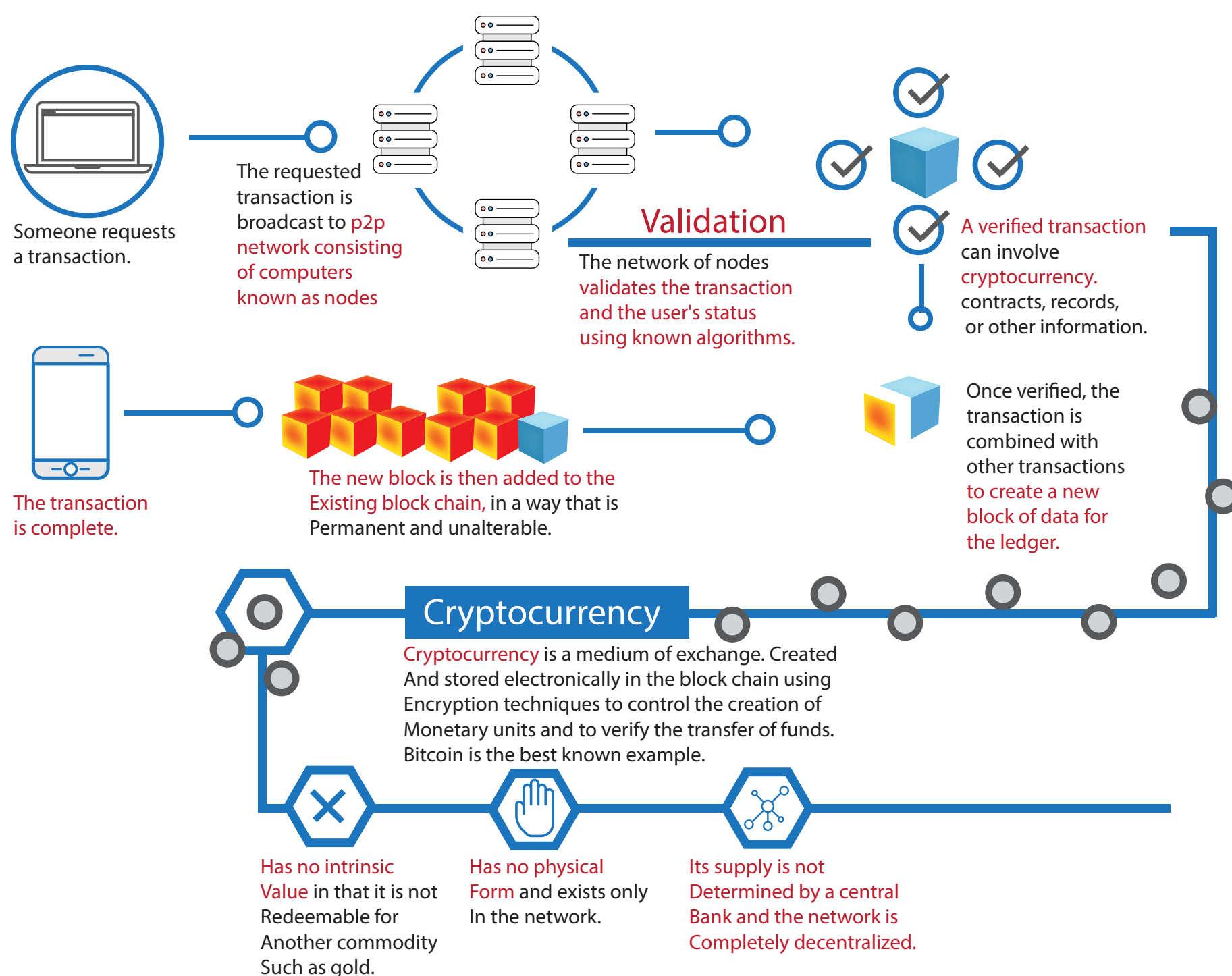
A significant number of altcoins are developed on the fundamental structure provided by Bitcoin Blockchain. Along these lines most altcoins are shared, include a mining procedure and offer effective and shabby approaches to complete exchanges on the web. Be that as it may, even with many covering highlights, altcoins differ generally from each other.

Indeed, even with many close contenders, Bitcoin is as yet driving the virtual cash pack. More up-to-date and more inventive variants are getting propelled that offer alterations in zones like exchange speed, protection, evidence of-stake, DNS determination and that's only the tip of the iceberg. A couple of them have picked up fame; the rest are lesser-known. Cases of altcoin incorporate Litecoin, Dogecoin, Peercoin, Feathercoin, Zetacoin, Novacoin, so on and so forth. Litecoin is viewed as the nearest contender to Bitcoin.

## 4.4 What is Blockchain & How It Works?

Blockchain is a digitized and decentralized public ledger of cryptocurrency transactions. It is a continuously growing network that records and adds all transactions in chronological order without any central recordkeeping. Every node (a computer that is connected to network) gets a Blockchain copy automatically. Established as Bitcoin's accounting method, Blockchains use distributed ledger technology that appears in different commercial applications nowadays. This disruptive technology is primarily used in order to confirm and verify the transactions within the digital currencies; however it also helps in code, digitize, and insert document in the Blockchain. The authenticity of record can easily be verified by the Blockchain community in place of single centralized authority.

### How it Works



## 4.5 How Cryptocurrency Cloud Mining Works?

The year 2009 was a watershed in the history of cryptomining. Miners started the trend with computer CPUs. But with the gradual growth in crypto-economy, there was a sudden shift in the mining industry. CPUs were soon replaced by GPUs or Graphics Processing Units with faster hashing rates (the rate at which equations are solved) and an improved ability to solve complex cryptographic problems.

Miners are potent alchemists who use their incredible knowledge in hashrates to earn money. The rise in the valuation of cryptocurrencies like Bitcoin inspired miners to mine more coins. As the competition increased, the focus shifted from GPUs to FPGAs which offered relevant developments in hashing rate and also reduced the power consumption. FPGA miners had an upper hand over GPU miners.

As 2011 arrived, a new industry was founded to ensure faster mining of cryptocurrencies. Application-Specific Integrated Circuits or ASICs took over the mining industry and by 2012 became a mainstream mining hardware.

As the number of miners increased, thus increased the complications in crypto equations. The hashrate had to be increased as the earning of a miner depended on how quickly he or she could solve the equations.

As miners increased by number, the complexities of crypto calculations increased with it, hashrates being the variable, which is the speed at which the crypto puzzles are calculated and deliver income to the miner. The amount of profit for a miner depended upon how much hashpower the miner has relative to the network.

As more excavators moved to the ASIC stage, the many-sided quality of the estimations likewise expanded, the many-sided quality of the computations balanced each 2016 squares. The acclimation to the unpredictability is made in understanding to the computational power being utilized for mining, as progressions are made by mineworkers, the multifaceted nature increments with it, the reason for this being to guarantee that the piece rate disclosure remains a consistent.

Clearly this implies it's a ceaseless cycle of computational power headway, trailed by expanded multifaceted nature of figuring required for mining, which likewise pushes diggers, unfit to proceed onward to the further developed stages, good and gone.

As the multifaceted nature of figuring propelled, diggers moved from utilizing small scale ranches to server farms, which are currently generally utilized today, computational power gave by the focuses instead of the individual mineworkers. The additional preferred standpoint for diggers mining through a server farm is the economies of scale, a cost to an individual excavator decreased.

While server farms are absolutely of gigantic prevalence, the market has likewise observed the development of cloud mining, with cloud digging evacuating the requirement for excavators to gain expensive mining gear or take care of the power costs coming about because of the utilization of ASIC stages, however there is an expense included and will prompt diminished wage accordingly.

Cloud mining, which is additionally alluded to as cloud hashing, enables the client to purchase the yield of digital currency mining equipment, which are situated in remote server farms, with all mining done remotely, expelling the issues looked by excavators utilizing capable stages, including sizeable power use, warmth, protection and obviously, support



There are a few inconveniences of utilizing cloud mining administrations, however, that mineworkers should know about and these include:

- Lower benefits than having your own particular hashing frameworks.
- Possible misrepresentation, with cloud mining administrators being unverifiable.
- Inability to change mining programming as the digger does not have the equipment.
- Contracts can be ended with specialist organizations ready to close shop should digital money costs be too low, which could bring about delinquency of salary.

For a regular person, cloud mining may be one of the most straightforward methods for entering the mining scene, however as beforehand said, some care should be taken and some examination should be done on which benefit bundle best addresses a person's issues to stay away from over-membership, which would eat into conceivable profit.

Digital money mining is surely extraordinary to digging for wares, for example, gold and silver, in that cryptographic money mining does not convey a physical resource and could be contrasted all the more intimately with putting resources into the items' fate markets than physicals.

The mining forms are completely different, where digging for items including an inquiry and extraction of a physical item, while digital currency mining is electronic, with cryptographic money wallets additionally being electronic and not physical.

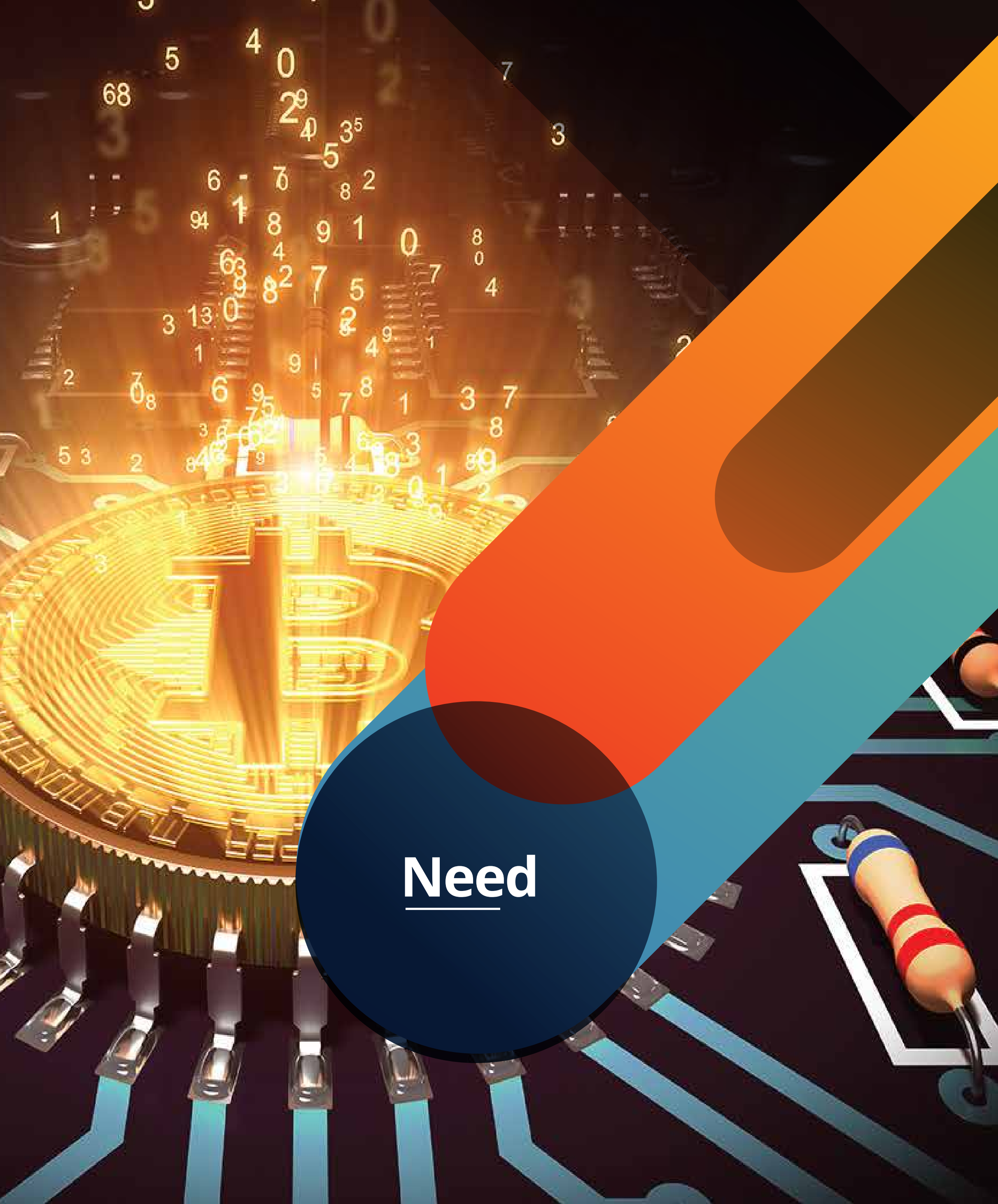
Cryptographic money mining, regardless of whether through a server farm, cloud mining specialist organization, possession of mining equipment or other, is the age of new units of a specific digital currency, contingent on the trade on which the mining is completed.

The mining procedure is a computational one and has progressed since the good old days into a much more intricate crypto confuse tackling process that requires critical handling power.

The mineworker, by method for the mining stage, is then compensated for illuminating the complex crypto bewilders.

It's imperative to take note of that should you hope to mine utilizing your standard work area or workstation at home, the preparing power is sufficiently not to mine gainfully, with effective excavators utilizing specific equipment and furthermore, bring down running costs, for example, less expensive power bills.

Hence, subscribing to mining programs that use your home PC or PCs are, not prone to produce benefits for you, but rather for the program suppliers, who are taking the upside of putting your equipment to utilize, however without the extra expenses at their end and obviously they get a charge for the program itself.



Need

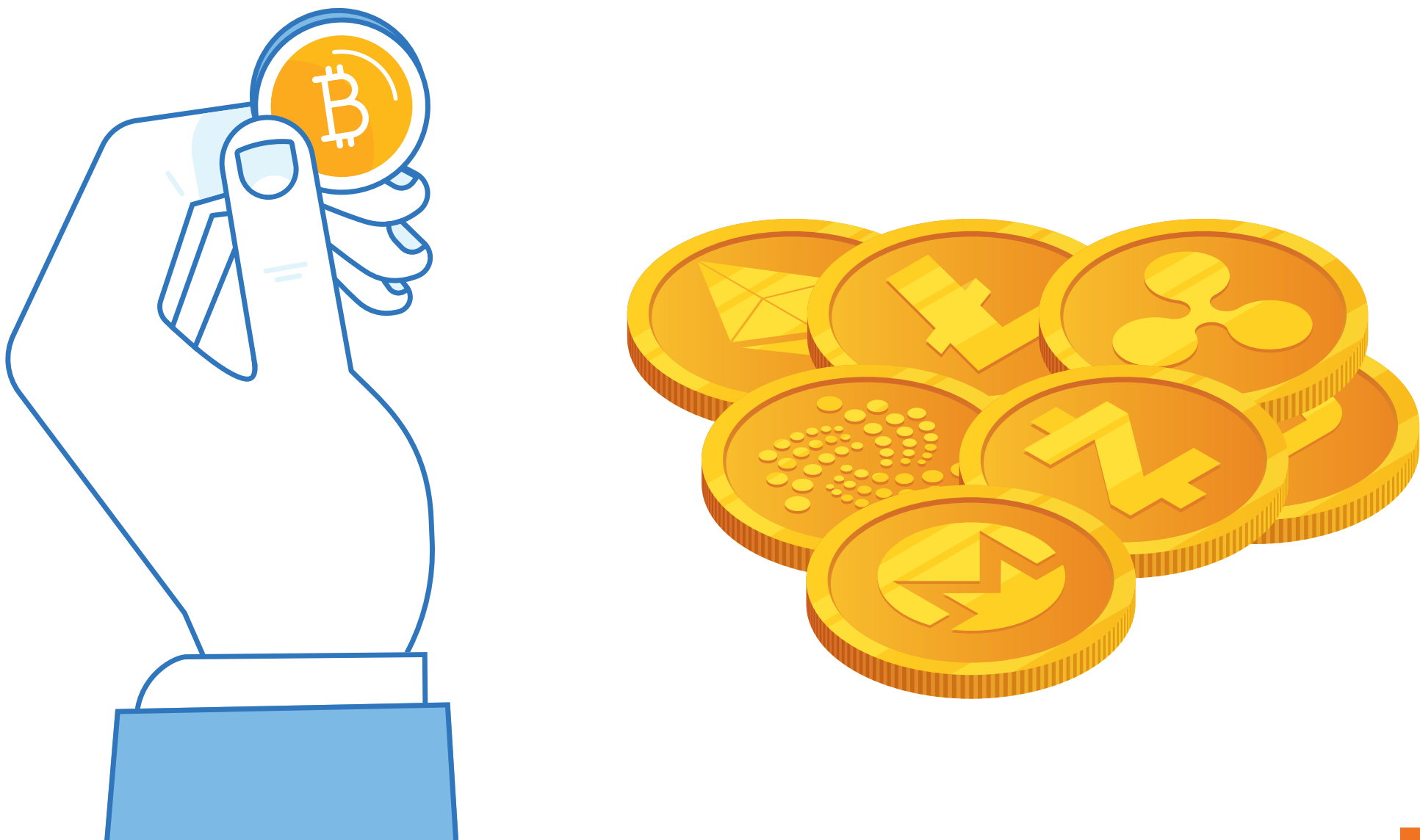
# 5. Need

## 5.1 Industrial Needs of the Cryptocurrency

The true potential of the Blockchain which is the underlying technology behind the cryptocurrency has reached a level which is too far away from the simple definition of cryptocurrency! We have seen the ledgers of Blockchain to be included in logistics, identities, loans, and land titles too. The Blockchain technology is not just revolutionizing the world of cryptocurrency but is also bringing transparency into the domain of those industries where public scrutiny is the key. In international domain- in the world of diplomacy where multilateral agreements and abiding by them are the key for the verifiable scrutiny of the postulates- the key functions could only be performed through the Blockchain technology.

It can easily be speculated that the revolution which the Blockchain has brought in is soon going to completely alter the way in which the contacts are being tracked among the parties. In layman's terms, Blockchain is that system of record keeping which manufactures the blocks or the combination of sets for the ongoing transactions. These blocks are the sets of the transactions known as distributed logs or the ledgers in a multifaceted multiparty system. This way, anyone present in the chain can verify the legitimacy of any altercation going on. Also the nature of transactions is to be verified before the permanency to the amendment is granted by all the nodes. A completely transparent and open world is possible, at least theoretically; only if the deployment of the Blockchain is made sure in domains; in which it was not originally envisioned for.

The utilization of the Blockchain is done in the situation when we have gigantic amounts of data present and we have to resort to artificial intelligence operations to underline the legitimacy within the intricacies of a multilateral multifaceted transaction. The altercation of the system is only possible when there is a hundred percent consensus among the participating bodies to manipulate the framework all over the chain of business.



# The Promising Payment Systems Based On Cryptocurrency Could Benefit The MSMEs

The credit cycles of the smaller companies is effectively under the control of larger companies under the present setup. It quite regularly happens that bigger companies withhold the payments of smaller companies. The terms of credit are often dishonored despite the cycle of payments being clearly stated within the signed contracts. Going legal is not a viable option for small and medium enterprises as it is not only expensive but is also a time and resource -intensive process. The problem could effectively be solved if the contracts are specified within the terms of Blockchain so that the execution of terms of contracts could not be tampered with; if they are deployed through the public ledger.



## In The Retail Industry

As per the reports of E&Y which is a consulting firm, the gross size of retailing industry is above \$ 650 billion. Out of these 650 billion, only a tenth part is under the organized sector. The statistics also suggest that only 1.5 percent of the total revenue in this sector is spent in innovation of technologies of the future. For a retail transaction to take place, the manager of the store could easily add a POS (that is, point of sale) methodology with the Enterprise Resource Planning (ERP) of the corporate. This implementation shall make the company aware of the exact product and the amount of what is currently being ordered in real time! Ultimately the replenishment and reinforcements could easily be sent at the exact point where it is required. It shall happen in a way that a requirement for reinforcement shall be made out from a particular POS and then the ERP shall trigger a flag of alert to the background systems which are used to shop a particular item so that these could be shipped as per the need at the store. This could easily be and unbiasedly be implemented only through the Bitcoin Blockchain technology.



## Banking Sector

The most important aspect for an import based industry is the banking credit. Credit is unbiasedly linked up with the banks and their issued letters of credit. Suppose there is a situation that a certain manufacturer X in Asia wants to contact another manufacturing firm Y based in Europe. In such a scenario X needs to issue a letter of intent to his bank in Asia; so that his bank in Asia may pay for the equipment which X is going to import from the manufacturer Y in Europe. Afterwards the Asian Bank shall have to contact the Y's Bank in Europe for verification to check if such and such equipment is within the inventory of the manufacturer and whether it could be exported to Asia. The theoretical base of the Blockchain technology which underlies the Bitcoin cryptocurrency could be applied for the EMI payments as the Blockchain shall deplete the redundancy of data of it being duplicated in a multi-faceted system of international banking.



## Healthcare

At the various levels of hierarchy in third-world nations, Blockchain could effectively be employed to eradicate the health disparity. If we utilize Blockchain for the benefit of the poor, none of the resident who is having a Health Insurance could, under any scenario be denied the right to be treated. For this, the government needs to link up the social security number of an individual to create up-sets of ongoing transactions which shall be binding upon the companies which are providing the insurance and the hospitals which are there to provide the treatment- so as to honor the patient based upon the verification of the patient's identity. If the verification fails to identify the person, all the parties present in the pool shall be informed of this. Or vice versa, if the identity of the patient is verified, then every node present in the Blockchain must execute that transaction. There are news of majors of the health industry going to rebuild their fully furnished records of medical health over the platform of Blockchain.

## 5.2 Future growth and demand of cryptocurrency

There are ample evidence and inherent reasons as to why these cryptocurrencies have become so obviously popular among the masses. The most obvious reason is they are utterly decentralized, anonymous, and inherently safe too. Not a single authority or regulatory body controls the flow of cryptocurrencies in the world. Thereby, this inbuilt decentralization mechanism is what which makes the cryptocurrency a free entity out of the clutches of the governments. The only variable which drives the prices of cryptocurrency is the equilibrium-disturbance caused by the demand supply binary. There is a least probability that these cryptocurrencies could ever be counterfeited and this is all due to the intricate algorithmic code of systems which encrypt each of the transactions thereby ensuring a 360-degree-complete anonymity and fool-proof security for every end-user present within the Blockchain. However, a perception may prevail that there are very high risks involved in trading of cryptocurrency because no government would be able to provide credibility of any kind. But, despite all such odds against the growth of cryptocurrency, we are seeing growths of magnanimous proportions in the utilization of cryptocurrencies all around the world. Monetary experts all around the globe have from time to time shown their excitement over the upcoming future of the Blockchain in general and cryptocurrency in particular. Innovations in the recent times such as Ethereum, Monero, Ripple, Dashcoin and Bitcoin are just the tips of the iceberg. The whole continent of ice lies under the sea which, in future, could go and revolutionize the world of many industries. There is no dearth of opportunities in the space in which these cryptocurrencies operate.





In the year 2008, which could admittedly be called the year of Bitcoin, a pseudonymous Satoshi Nakamoto released a white paper in which he detailed what would later in the years to come be regarded as the world's first postmodern initiatives in the field of cryptocurrency. This idea of cryptography installation culminated the concepts of Blockchain technology, limited supply, near perfect anonymity, and decentralization which ultimately resulted in the formation of world's first cryptocurrency - the Bitcoin. The idea of Bitcoin soon picked up mileage as a hell lot of small start-ups such as Litecoin, Ethereum etc. started blowing up. The first legitimate recognition of the Bitcoin came in the year 2010 when vendors such as Microsoft, Expedia, and WordPress etc. started to accept Bitcoin as a way of payment.

If we fast forward to the year 2017, we would find that not a single government of any nation of the world has recognized Bitcoin as a legitimate mode of payment. Still there is no dearth of online vendors which are so straightforwardly accepting Bitcoins and other cryptocurrencies as a mode of payment. Not just this, but we need to consider the fact that there is a huge population of more than 2 billion people who have no access to any formal economic sector and are living a primitive lifestyle. So the Blockchain based cryptocurrency initiatives which have been started by many enthusiast entrepreneurs in different parts of the world are aiming to cope up with the challenges of monetary insufficiency by putting their stakes into the world of digital currencies, so as to leave long lasting effects to eradicate these social impediments. Mr. Dinis Guarda, who is the chief executive officer at Humaniq, has been able to amass a whopping 10,000 investors who have contributed \$ 4 million within the passing of 14 days in his bid to accumulate funding.

Ether, which is an alternate cryptocurrency, has reached its career best of \$ 40 per coin this year. Despite the fact that it had been inherently programmed the way that it cannot be used as a direct payment method, it has got the spark which can make it the future of cryptocurrencies. It is all due to the smart contracting feature in-built within it. Within the passing time period, more and more altcoins are coming to the age into the domain of cryptocurrencies having better security mechanism and with the promise of fixing the laxity that earlier cryptocurrencies had. On 10th of March 2017, the Fortune magazine indicated the 'flicking markets phenomenon' in these newfound assets. Even the educational industry is embracing the concept of cryptocurrencies into their financial faculties' curriculum. The University of Ohio has come up with special classes on the concept behind cryptocurrencies. Some colleges in the United States of America have also started taking Bitcoins and other cryptocurrencies as a method of payment of tuition fees. This wide-ranging forbearance of these cryptocurrencies in general, and Bitcoin in particular, has caused the main stream investors which are institutionalized too, to ride on the horse of rapidly unfurling cryptocurrency race to fuel their journey towards their stated monetary targets.

Will the rage of cryptocurrency mania continue in the future too? Well, it would be too early to predict any target for its sustenance; however, it is quite evident that the cryptocurrency phenomenon has gathered wide-ranging appeal within the world of technologically savvy industries, and this particular fact is going to work in an unbridled way in its favor all around in the times to come!

## 5.3 Cloud Data Centres

If we talk in layman's lingo, then cloud mining is said to be the setting out of shareable processing capacity by the remotely located data centres to mine the cryptocurrency. The only requirement is to have a personal computer or a smartphone with a connected cryptocurrency wallet app. There are many advantages of using cloud data centres for cryptocurrency mining as are listed below:

1. If one wishes to invest a hefty sum in the process of mining and goes through the process of purchasing mining equipment then he has to be very vigilant about the quality and the reputation of the hardware offered by the manufacturer. Cloud mining eliminates these chances of being fooled by the equipment manufacturer.
2. As the statistics show, a considerable fraction of the world's energy requirements is being consumed by the mining facilities which are spread all around the world. These equipment dissipate considerable amount of heat in the surroundings. Therefore if one puts the mining equipment at his home then he has to cope with the heating problem. These problems are eliminated if one takes the services of cloud mining data centres for this purpose.
3. However, there seems to be no slowing down in the market of cryptocurrencies in the times to come. Still in case, maybe in future, it may happen that the mining process no longer remains to be a profitable activity. As such, there would be no takers of the old mining equipment. If one goes for the mining process through a cloud mining data centre then he need not purchase the equipment himself. Thus he is saved from the trouble of disposing off old equipment.
4. The mining facility is an electricity intensive process. Deployment of mining equipment at home may considerably raise the electricity bill at the month's end and one may be required to compensate by cutting costs of his necessities.



However you would miss the fun if you opt for the cloud mining in the following ways:

1. If you are a geek who wears retro vintage spectacles and are too much into the technical intricacies of the cryptocurrency mining; then you might not want to miss the fun by letting a cloud mining data centre to mine cryptocurrency for you!
2. You might not want to cease the control over the way you would want to regulate and manage your mining equipment.

## Various Types of Cloud Mining Operations

We, at the present moment have three kinds of mining processes available:

### Leased Hashing Power

In leased hashing power mining operation, the customer is granted a fraction of hashing power. He is not provided with a dedicated server for cloud mining himself. Till the point of writing this piece the leased hashing power mining operations have remained the most sought-after types of cloud mining operations.

### Virtualized Hosted Mining

The cloud provider makes arrangement for a virtual private server for the client and the client is allowed to put in his own customized software for mining of cryptocurrency over it.

### Hosted Mining

The hosting mining methodology is the most expensive option out of the three mining methodologies as in this, a person is supposed to lease a fully furnished mining equipment hosted over the cloud service provider.

In every kind of economic activity there are associated risks and benefits. Cryptocurrency Mining industry is no exception to this rule. Cryptocurrency mining could be highly profitable if the user picks up the right options at the appropriate times. The above pointers mentioned in this white paper might give you some clues on the way of deciding to go for cryptocurrency mining activities.

## 5.4 Bitcoin and Altcoins Mining

Altcoins are those cryptocurrencies which had been launched after the Bitcoin cryptocurrency tasted its success. Sometimes it so happens that altcoins prove to be a better replacement of Bitcoin. The unprecedented success which Bitcoin gained ultimately gave the way for other innovators to follow the path and devise alternative cryptocurrencies which came to be known as altcoins. It too happened, that certain shortcomings of Bitcoin were improved upon, in the alternate cryptocurrencies which came after Bitcoin. And altcoins are not a few- there are many. A

Altcoin: this word is formed by collating the words 'alt' and 'coin'. Alternative is called 'alt' in short and 'coin' is, as obvious, currency. The word altcoin is made to focus on the sense that it is that kind of cryptocurrency which is different from Bitcoin. The basic underlying philosophical thought process behind the altcoins was to make the process of mining easier and efficient; so to eradicate the problems underlying within Bitcoin. However despite many of the altcoins' shared common features, they can't be said to be the same and are sometimes entirely different from each other.

The packet of virtual currencies is still led by Bitcoin; howsoever; more and more altcoins are adding up into the sleeve of cryptocurrencies. These altcoins are undergoing new innovations and better modifications in fields such as DNS resolution, proof of stake, privacy, speed of transactions etc. Novacoin, Zetacoin, Feathercoin, Peercoin, Dogecoin, Litecoin, Monero, Ripple, Ethereum are some of the alternative cryptocurrencies which have come to the mark and have made an impact.

Despite there being inherent similarities among the algorithmic approximations of the different cryptocurrencies, yet with respect to mining operations, the processes of mining could differ considerably. Let us illustrate it with an example.

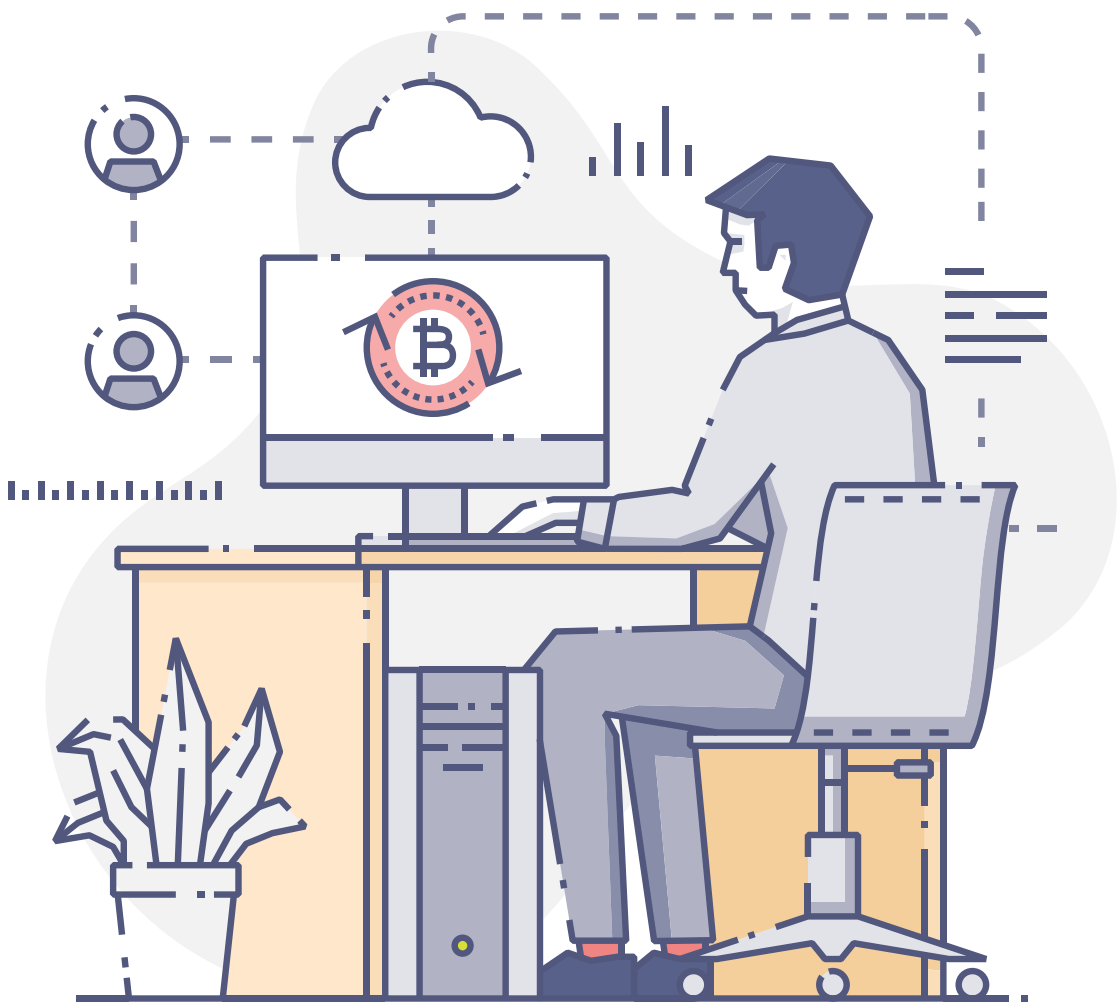
What lies within the core of the idea of mining is the concept of block rewards. For the crypto-coins the block rewards are awarded to the mining entities (which could be a person or a group) in lieu of the successful process of finding a mathematically valid answer to the algorithmic hashing cryptography. The mathematical solution of the future block shall be dependent upon the answer of previous block solution. Therefore, there remains no way an entity could predict or pre-calculate the solutions for an upcoming block without having the knowledge of the previous block. In the case of Bitcoin, the stated target is set to manufacture a solution for the Block within every 10 minutes on an average. While on the other hand, for Ethereum, the solutions for the block are expected to come at an interval of every passing 16 seconds.

As we can see, there is a considerable time difference among the altcoin Ethereum and Bitcoin in their algorithmic time expansion for the block reward to get produced. Obviously, this causes hugely different approaches to be followed while mining altcoins from Bitcoins.

## The Software Side of Cryptocurrency Mining

Many kinds of software solutions exist for the mining operations depending upon the affectivity of a particular mining software on a particular piece of hardware. There exist some of the algorithms which could be executed with more efficiency on CPUs while they might not work as effectively as on GPUs. Some of the software are the sole domain of the ASIC miners that is to say Application Specific Integrated Circuit. But the story of cryptocurrency mining does not end with just the hardware and there does exist considerable meat to the matter on the software side too.

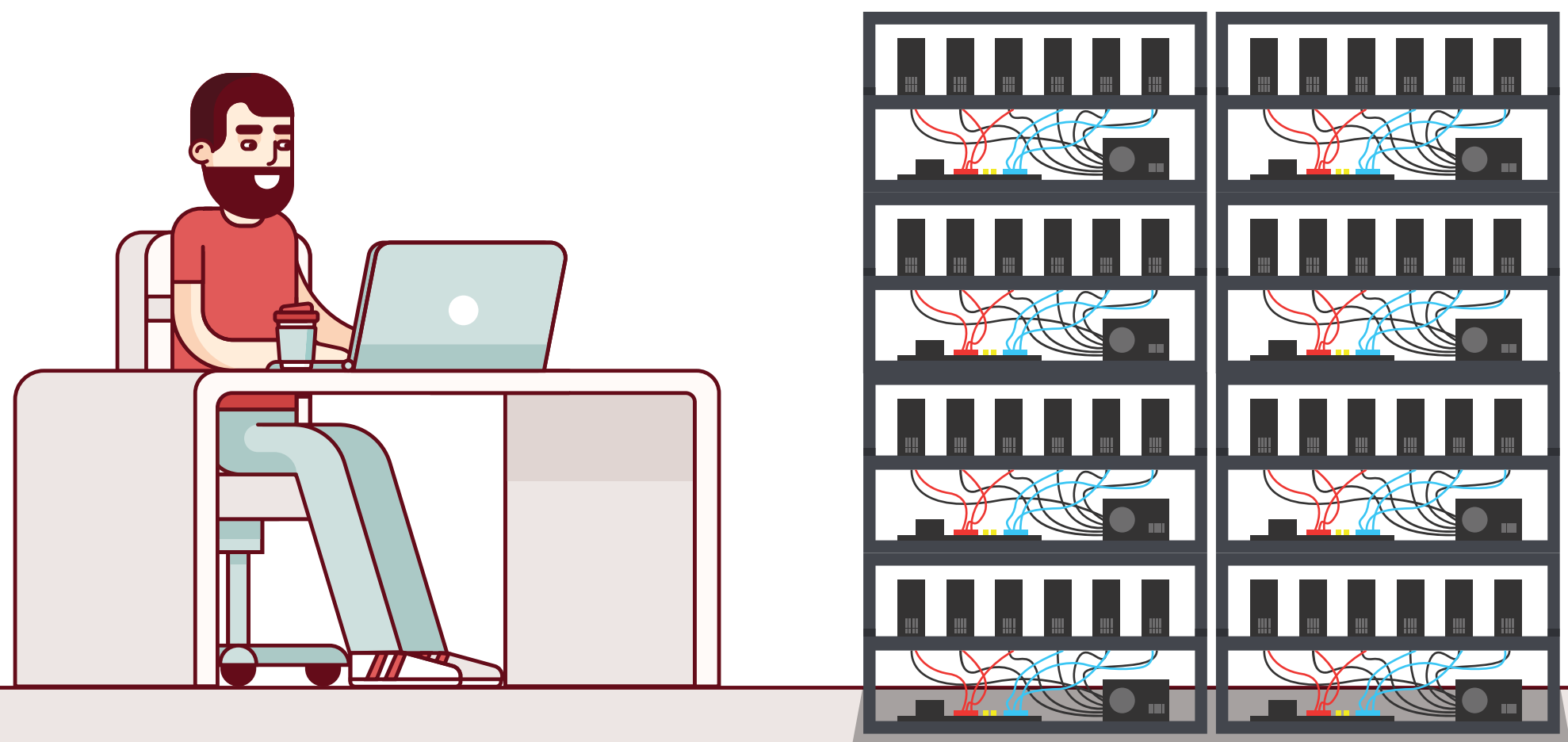
In the good old days of cryptocurrency mining people were able to mine the cryptocurrencies just by setting aside a crypto coin wallet and downloading the right cryptocurrency mining software. As the popularity of cryptocurrency surged, more and more people started mining operations. Things started on a corporate scale too. As such, when the total number of coins which could ever be extracted are limited by the algorithm underlying the Blockchain of cryptocurrency itself, the demand and supply equilibrium gets disturbed. In such cases, either you need better mining hardware and software combinations to mine the equal amount of currency value you used to mine net when there were less miners in the pool itself.



## Cloud Mining Provider's Crucial Role

Here comes the role of specialized cloud mining service providers. For any of the cryptocurrency to be mined you need specialized hardware as well as specialized knowledge of the software.

These technical skills are not expected from an average person who knows nothing about cryptography and the underlying Blockchain technology. The command over the software side is too crucial for successful mining of cryptocurrency. Non-nerdy and non geeky people's last refuge in such scenarios only remains the cloud mining service providers.







Solution

## 6. Solution

### 6.1. Green Energy Framework

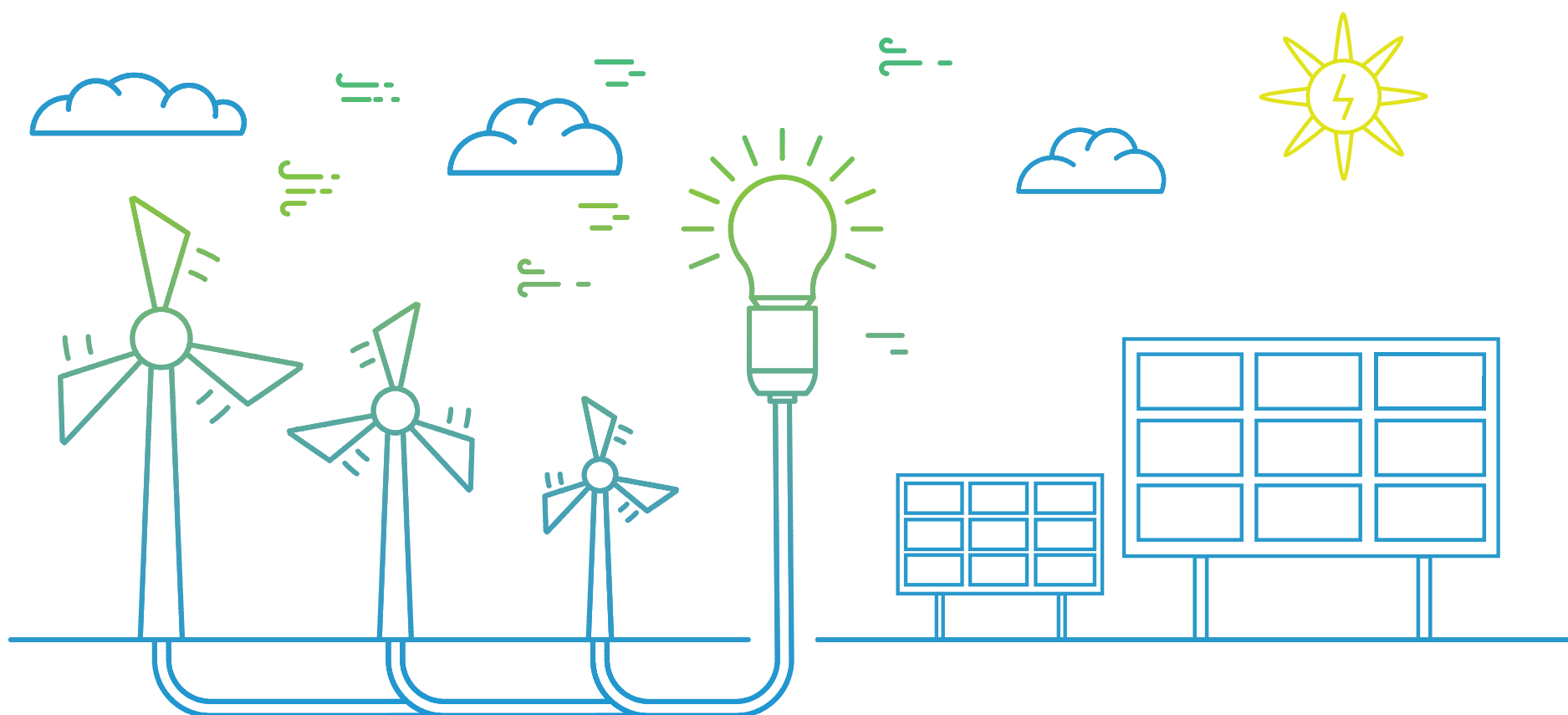
Drawing resources from the lithosphere is not the only form of mining that consumes excessive energy- Bitcoin mining is equally energy intensive, the very reason why HashGains aims at utilizing alternative resources to promote 'bio-friendly' cryptomining.

A popular cryptocurrency that has intrigued the curious minds of tech-savvy groups and individuals, Bitcoin enables miners to solve complex equations using computer programming and earn reward tokens. Its manifold appeals include low transaction fees, privacy and accessibility. It is needless to say that Bitcoin's decentralized network allows faster transactions without the interference of a central body which, at any given point of time, can freeze your account within the capacity of its power. Given its extensive Proof-of-Work algorithm, it consumes unwarranted electrical units during the mining process. The maximum number of BTC that can be mined is fixed at 21 million, while more than 16 million have already been mined till date. The race is on, as lucrative prospects form a part of this future endeavour. Like the non-renewable resources which will soon be depleted in years to come, so will Bitcoin, given the fact that it is being extensively mined all across the globe.

As Bitcoin evolves, the computational equations get all the more difficult —so as to control the currency's supply before it gets all exhausted like organic fuels.

Initially Bitcoin mining was relatively easier as one could use regular computer GPUs and CPUs to complete the process. But as competition increased, these devices gradually became redundant. Bitcoin mining is now the sole monopoly of FCPA and ASIC users. Indeed, Bitcoins were specially designed to devour increased computational efforts, thus resulting in a steep rise in electricity consumption.

The complex calculations, along with the exponential power consumption has raised many eyebrows as more and more people now seem to be concerned about the carbon emissions that inherently form a part of Bitcoin mining, owing to the fact that the cheap electricity comes from coal-fired energy generation.



Bitcoin was not really intended as an investment venture but was rather envisioned as an alternative for paper currency. Even the Bitcoin inventor did not realise that a time would come when this cryptocurrency would deflate all attempts at creating an eco-friendly environment. Owing to its fast increasing climatic footprint, it is considered a malignant development that's getting worse with time. Will Bitcoin mining ever support the positive evolution of mankind without any dependence on depleting fossil fuels? Well, this is just the beginning.

Today, one crypto transaction calls for the same electrical units that are required for powering 9 households in the United States for a day. While miners are continuously installing more and more high-speed computers, the total computing power of Bitcoin's server at the moment is 100,000 times higher than the 500 fastest supercomputers of the world taken together.

This unsustainable trajectory simply can't go on and thus calls for some serious action. While some of the Bitcoin mines in China (the largest in the world) siphon carbon-free energy from hydroelectric dams, this renews our hopes and reinstalls our faith in Bitcoin mining. Some of the major data centres in the world have already started to harness solar and wind energy to fuel their mine plants. Serious reforms are underway when it comes to Bitcoin transactions with more energy-efficient plans coming up to reduce global carbon emissions.

## 6.2. Mega Data Centres

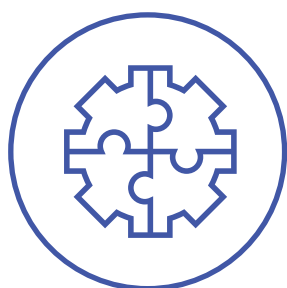
Spread across acres of land and drawing a horse power above 100 Megawatts, Data Centres are the core of every business, operating on digitalized global network. With advent of virtualization and technology, Mega Data Centres faced major revolution.



Combining some services with large applications resulted in minimized operational/capital costs and reduced complexity. Implementing a particular amount of mega data centres might empower companies to get benefit in terms of tax exemption and energy expense. In addition, it also provides an easy access to other energy resources. Basically, Mega Data Centres aims at maximizing profit and minimizing costs. Low power consumption, usage of renewable energy resources, and reduced environmental influences are some of the advantages provided by Mega Data Centres.

HashGains is backed by Cyfuture, a known technology giant with over 15 years of experience in running and managing the data centres, and possesses a team of around 1500 professionals that serves 10 out of Fortune 500 companies. HashGains is planning to establish a cost-effective and green cloud mining mega data centres in Rajasthan (India) and Quebec (Canada). The data centres will have a combined capacity of 75 Mega Watt.

Some of the benefits that will be provided by HashGains Mega Data Centres are:



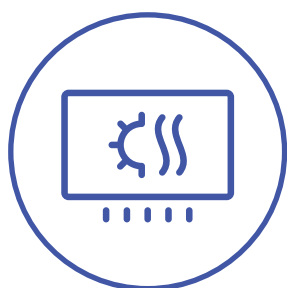
### Reduced Complexity

Distributing infrastructural resources across different settings has its own benefits. However, all these benefits come with serious complexities. A unique consolidation of data centres (in the form of a mega data centre) not only lowers complexity via centralized supervision but also helps to maintain a concentrated management unit. Simple administrative structures incur low costs as these edifices as far easier to build as well as operate.



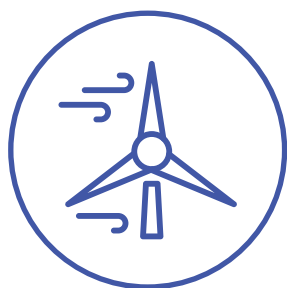
### Local Incentives

The running costs of data servers and their maintenance now exceed the capital costs associated with them. This inevitably means that the output of energy is also a cause of concern apart from the equipment costs. Thus, when big companies get a major boost from low power supplies (that essentially leads to cost-cutting) and other such incentives, they invariably continue to depend on these performance-driven data centres at a larger scale. Low capital costs are a general attraction for businesses, especially when it comes to long-term guarantees. Yet another advantage that it offers is the regional tax incentives. How exactly is it rendered possible? Well, many governments owing to their profligate expenditure have incurred overwhelming debts and thus promote convenient sources of revenue to keep them going. Mega data centres come with the potential to generate huge property tax and increased employment, thus furthering the development of these remote locations. These weak governments thus offer data centres with reasonable exemption from property taxes on the land and sales taxes on the infrastructural supplies.



### Free Cooling Services

The ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) protocols permit free cooling all throughout the year for different locations. These perks apply only to some specific permissible temperature levels. Taking into account these suggested ranges, some areas provide exceptional opportunities for free cooling than many others. Conditions like these foster the spirit of centralization. A single mega data centre in a strategic location offers certain economic benefits.



### Alternative Energy Resources

Unusual locations that support alternative energy resources allow businesses to develop a 'clean and green' image. Increased reliability of alternative resources not only reduces dependence on coal-fired resources but also pleases different ecological communities.



## 6.3. Efficient Mining Devices

Bitcoin mining tools have evolved over time, ever since its inception in the year 2009. Originally, miners would use CPUs to mine Bitcoin. These were simple devices and had a hashing rate of 10MH/sec or less. Any personal computer that had a mining software installed was capable enough to deal with this cryptocurrency mining process. However, owing to the rise in the difficulty level of mining, CPU mining machine gradually lost the war to evolving tools with comparatively high hashing rates.

Soon, miners shifted their interest to GPUs or graphics processing units (essentially computer graphics card) which provided faster hashing-speed (50-100 times faster than CPU speed) and consumed less energy.

Here's a list of the best computer GPUs for mining Bitcoin:

### 1 Nvidia GeForce GTX 1070

- Low power consumption
- Higher hash rate
- Good amount of memory
- 1,506MHz Core Clock
- 8GB Memory (GDDR5)
- 8Gbps Memory Clock
- 1 x 6-pin Power Connectors
- 150W draw per unit of work
- 3 x DisplayPort 1.4, 1 x HDMI 2.0, DL-DVI
- Overpriced





## 2 AMD Radeon RX 580

- Core Clock: 1,257MHz Core Clock
- Memory: 8GB Memory (GDDR5)
- 8Gbps Memory Clock
- 1x 8-pin/1 x 6-pin Power Connectors
- Power Draw of 185W
- 1 DisplayPort 1.4, 1 x HDMI 2.0
- Great cooling
- Pocket-friendly



## 3 AMD Radeon RX 480

- Core Clock: 1,120MHz Core Clock
- 8GB Memory (GDDR5)
- 8Gbps Memory Clock
- 1x 8-pin/1 x 6-pin Power Connectors
- Power Draw of 150W
- Outputs: 1 DisplayPort 1.4, 1 x HDMI 2.0
- Pocket-friendly
- Great mining performance
- Relatively older
- Not easily available



## 4 Nvidia GTX 1080 Ti

- 1,480MHz Core Clock
- 11GB Memory (GDDR5X)
- 11GHz Memory Clock
- 1 x 6-pin/1 x 8-pin Power Connectors
- Power Draw of 250W
- 3 x DisplayPort 1.4, 1 x HDMI 2.0
- Exceptional hash rates
- Expensive



With the passage of time, GPU miners also became redundant. The year 2011 witnessed the growth of a new industry which launched customized equipment for even better performance. These devices were built on FPGA or field-programmable gate array processors that could be attached to PCs via USB cables. FPGA miners consumed far less energy when compared to CPUs and GPUs and initiated the foundation of concentrated mining farms.

Today, ASIC (Application-specific integrated circuit) processors are ruling the mining industry. These devices mine at unparalleled speed and at the same time, consume far less energy than CPU, GPU or FPGA mining rigs. Several reputable companies have established themselves with excellent products. Here's a list of the best ASIC miners that not only provide great hashing speed but are equally energy-efficient.





## AntMiner S7

- Capacity: 4.73 Th/s
- Efficiency: 0.25 W/Gh
- Weight: 8.8 pounds
- Price: \$479.95
- Bitcoin earning per month: 0.1645 approx.

## AntMiner S9

- Capacity: 13.5 Th/s
- Efficiency: 0.098 W/Gh
- Weight: 8.1 pounds
- Price: \$1,987.95
- Bitcoin earning per month: 0.3603 approx.



## Avalon 6

- Capacity: 3.5 Th/s
- Efficiency: 0.29 W/Gh
- Weight: 9.5 pounds
- Price: \$499.95
- Bitcoin earning per month: 0.1232 approx.

## 6.4. Cloud Mining as a Service

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Cloud computing is the innovative technique of solving complex equations using a large cluster of interrelated PCs or network servers (either public or private). Google is exemplary in this regard and successfully hosts a private cloud (which can only be accessed by Google users) consisting of small personal computers as well as large servers. Cloud computing is not limited to any single business or company. The data and applications which are served by Cloud can be accessed via internet by a large spectrum of authorized online users across different enterprises and platforms. However, cloud computing is not the same as network computing wherein the single network of a business hosts all relevant data which can only be accessed by the members of that particular network.

Cloud services, by far, exceed the parameters of network computing. It comprises of multiple enterprises, networks as well as servers. Before applying cloud technology in Bitcoin mining, it is crucial that we understand the importance of a cloud-based application. There are a number of benefits that cloud computing offers, some of which are:

1. User-friendly computers that are economical and may be used for cloud computing, which specifically operates on cloud and not your PC.
2. The computers function smoothly as your PC doesn't have to save and run powerful software applications.
3. This further ensures lower software and infrastructural costs and fewer maintenance matters.
4. Cloud technology offers vast possibilities, including indefinite storage capacity, better data security, improved computing power and prompt software updates.

Owing to these attractive benefits, cloud services may be applied in Bitcoin mining to make it more competent and reasonably cheaper. These cloud services comprise of Infrastructure as a Service, Platform as a Service and Software as a Service.





# About HashGains



# 7. About HashGains

## 7.1 Our Vision

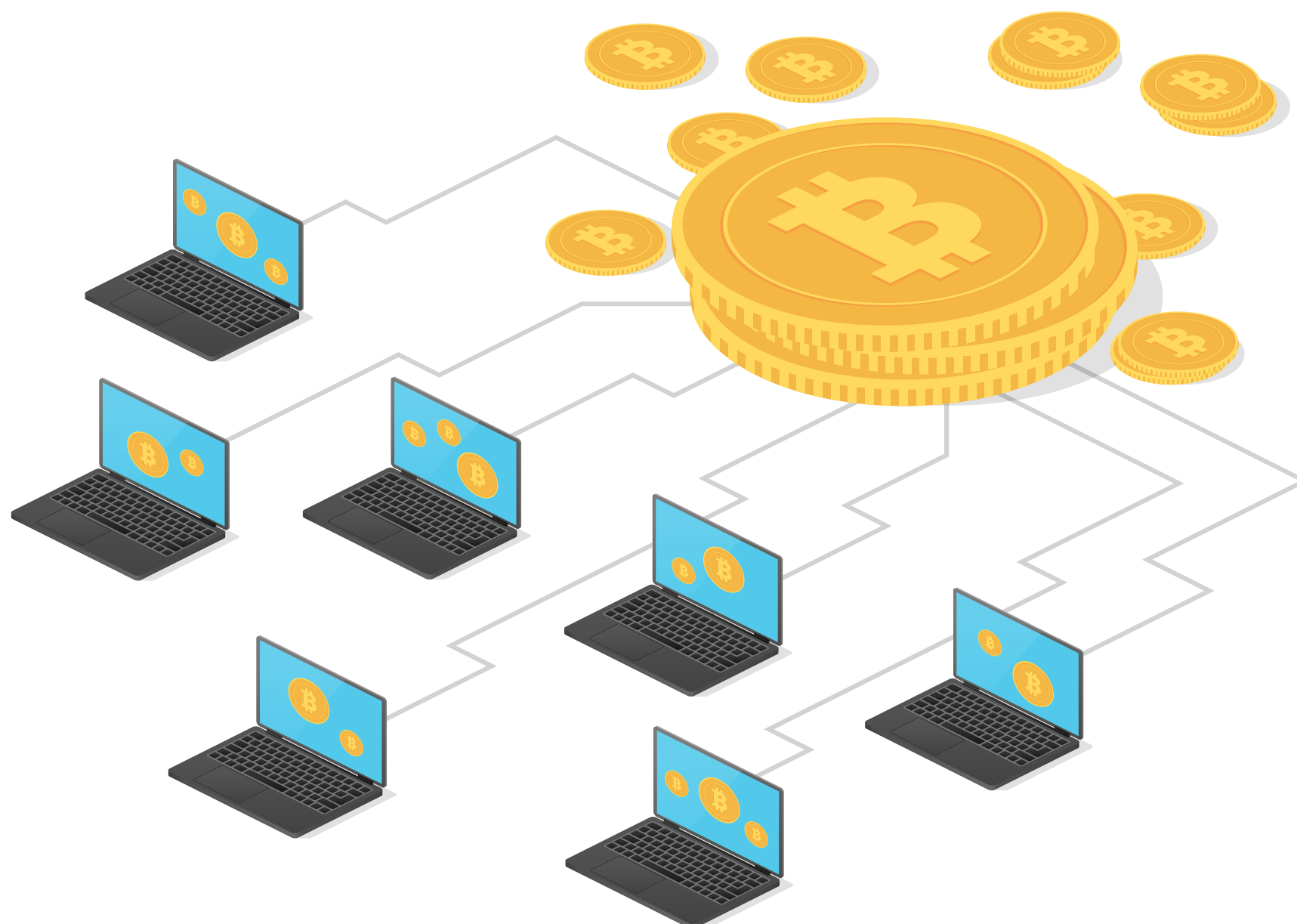
**\$30 Million ICO**

**100 PH/s**

**Top 10**  
Bitcoin Mining Pools

**100,000 customers**  
by end of 2018

HashGains expects \$30 Million ICO proceeds would help company build state of art Cloud mining data centre which will help it create its own mining pool and generate the hash rates of 100 Peta Hash per second or (100 PH/s) which will establish itself among top 10 bitcoin mining pools top 5 miners in world. Hashgains which has customer base of around 10,000 customers would top 100,000 customers by end of 2018 for which cloud mining capacity creation must happen before hand. Hashgains expects to generate revenues of around \$50 million in its first full year of operations thus boosting the price of its token.



## 7.2 History

Founded in 2016, HashGains is the leading cryptocurrency cloud mining platform in the market. The company started commissioning work of its data centre in October 2016. Post that, the cloud mining data centre was established in February 2017. HashGains went live in the month of July 2017. The company's initial hashrate was of 2 TH/s on X11 and 1.5 PH/s on SHA-256 algorithm. Then, in September 2017, HashGains acquired around 10,000 customers and enhanced its data centre capacity to 2.5 GHS/s on ETHASH, 3 TH/s on X11, and 2.5 PH/s ON SHA-256. In the month of November and December 2017, HashGains attained the 10,000 customers mark.



## 7.3 Expertise

Our crypto mining team comes from different scientific disciplines and constantly monitors the latest innovations in order to implement them and benefit investors. We have large-scale industrial data centres with state-of-the-art technology to host the diverse and complex mining environments.

At HashGains, we're using world's best ASIC (Application specific integrated circuit) and GPU (Graphics processing unit) machines to generate best returns with high efficiencies. We make sure that our mining partner provides warranties for the mining equipment and maintenance. We keep on evaluating the best solutions so that we can provide excellent capacity, speed, and performance.

## 7.4 Cloud Mining Facilities

HashGains is a group company of 1500+ strong professionals and 2 mega data centres. The parent company Cyfuture has experience of over 15+ years in Data Centre Industry and is currently serving 10 Fortune 500 Clients. The company offers a wide range of cryptocurrency cloud mining facilities, including Bitcoin mining, Ethereum mining, Monero mining, Dash mining, Zcash mining, and the like.

Our unique cloud mining data centre offers cryptocurrency mining in the easiest way with minimal expense and risk.

**1500+**  
Professionals

**2**  
Mega Data Center's

**15+ yrs**  
in Industry

**10 of Fortune**  
500 Customers



## 7.5 Our Team



### Anuj Bairathi

(Founder & Chief Executive Officer)

Anuj is the Founder & CEO of HashGains and is responsible for driving the business strategy and growth of the organization. Anuj has 8 years of experience in cryptocurrency mining and has been the key driving force behind HashGains' growth and business plans.



### Gary Barlow

(Director - Green Data Management Services, UK & Europe)

Gary is Director, Green Data Services at HashGains. He is responsible for business development and managing client relationships in UK and Europe. Gary is a seasoned financier and business lead with more than 25 years of experience across varied roles in cryptocurrency mining, funding, and business development across leading companies.



### Ravish Sharma

(Vice President – Operations)

Ravish (Vice President- Mining Operations) has been leading the service delivery functions. He is responsible for ensuring operational efficiency of mining services and has a proven track record of implementing operational excellence in every sphere of the process: expansion, cost reduction, customer & employee satisfaction as well as ensuring that the concurrent business goals are met within specific deadlines.



### Rahul Baweja

(Assistant Vice President – IT Infrastructure)

Rahul Baweja is an accomplished IT professional with over 17 years of experience in data centre management, monitoring, service delivery and escalation management. With an expertise in Virtualization, Linux & Windows web hosting services, he is perfectly positioned to manage Blockchain network and monitor the cryptocurrency platform.



### Ravi Sharma

(Assistant Vice President – Sales, Cryptocurrency)

Ravi is unquestionably a visionary leader blessed with around 20 years of domain-wide experience in handling, managing, and monitoring organizational functions and marketing strategies. His exhaustive insight into cryptocurrency mining services, product enhancements, market forecast, and product positioning has helped us escalate a respectable stature in the competitive market quite efficiently.



### Munish Mahajan

(Assistant Vice President – HR & Admin)

Munish leads the human resources function at HashGains. He is responsible for all people processes and implementing the organizational human resources strategy. Munish is focused on continuous process improvements through performance driven learning and management solutions across departments.

## 7.6 Hashgains USP



Strong Hashpower with  
**99.95% Uptime**



**Instant Coins Deposit**  
to the Account



Excellent Efficiency with  
**Upscale Equipment**



**24/7/365**  
Technical Support



**Legit Mining**  
All New Coins



Mining with  
**GUI Miner**





**HashGains**  
ICO

# 8. HashGains ICO

## 8.1 Our Offer

\$1

has become quite powerful

YOU GET

1

HashGains Token

100 MH/s

of Bitcoin Hashing power for 2 years.

HashGains a venture of Futuristic Internet Service LLC backed by Cyfuture is offering 3,500,000,000 tokens for sale via pre-sale & main sale in January and February 2018.

Mining which is heart of blockchain would extensively be needed in coming years and who better than experienced data center player can execute this and ramp up capacities giving best return on investment to its thousands of customer. Being a data center player for last 15 years we have experience of handling thousands of servers including installation, assembling, software configuration, security, management and handling complex switchgears, UPS, Precision air conditioning & many more things required to run data center. Managing complex compliance like ISO 9001, 22001, 27001, HIPPA, PCI DSS & TIA942 Tier3, SSAE16 to serve customer in highly effective manner.

HashGains after its major success with cloud mining venture is looking forward for ramping up capacities to serve over 100,000 customer with over 100 PH/s capacity on SHA 256 & multiple PH/s on equihash & EThash algorithms.



## 8.2 ICO Details

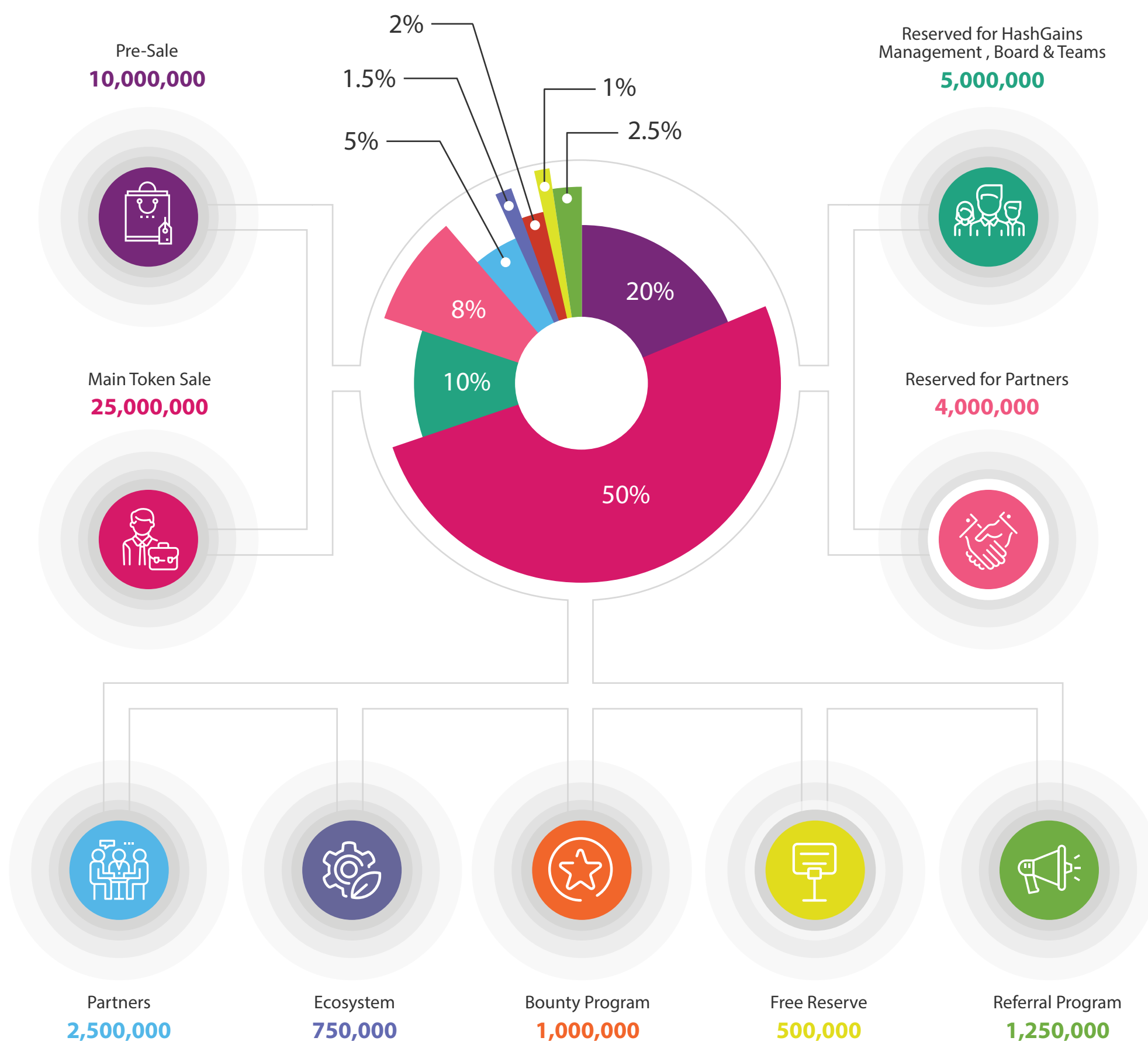
No of Tokens	Dates	Type of Sale	Additional Incentive of Free HashGains.com Hashing Power**
<b>10,000,000</b> Discount on Token Price if any <b>30% or US\$0.70 Per Token</b>	26 <sup>th</sup> Jan 2018 (00:00 EST) to 11 <sup>th</sup> Feb ,2018 (23:59 EST)	<b>Pre-Sale</b>	1 GH/s of Bitcoin (BTC) or Bitcoin Cash (BCH) Hashing Power for every 10 token purchased for 24 Months
<b>12,500,000</b> Discount on Token Price if any <b>20% or US\$0.80 Per Token</b>	17 <sup>th</sup> Feb 2018 (00:00 EST) to 4 <sup>th</sup> Mar,2018 (23:59 EST)	<b>Main Sale Tier 1</b>	1 GH/s of Bitcoin (BTC) or Bitcoin Cash (BCH) Hashing Power for every 10 token purchased for 24 Months
<b>12,500,000</b> Discount on Token Price if any <b>US\$1 Per Token</b>	10 <sup>th</sup> Mar 2018 (00:00 EST) to 25 <sup>th</sup> Mar,2018 (23:59 EST)	<b>Main Sale Tier 2</b>	1 GH/s of Bitcoin (BTC) or Bitcoin Cash (BCH) Hashing Power for every 10 token purchased for 24 Months

\*\* Terms and Conditions /Usage Agreement of HashGains.com applies for all contracts created and maintenance charges would apply as well . Refer HashGains.com calculator to understand how much can each GH/s can mine.

## 8.3 Distribution Scheme

### Token Distribution

Total Tokens : 50,000,000



Currencies Accepted : **ETH, BTC AND LTC**

Platform : **ETHERIUM**

Exchange Listings : **end of ICO+6 days**

## 8.4 ICO Proceeds and Utilization

HashGains plans to acquire over 1 Million customers in coming years and hence there would be need to build world class green data centres well in advance to cater the needs of customers in future. We estimate that for year 1 and year 2 of operations in order to cater the need of over 500,000 customers assuming each customer subscribes for minimum 1 TH/s we would need 500,000 TH/s of hashing power. Each ASIC per TH/s roughly consumes 150 watts and for 500,000 X 150 watts we would need to create the capacity of 75 Megawatt of green power. Moreover, ASIC machines, air conditioning plant, UPS etc. would all cost roughly

No of Tokens	Contribution Tier	Token Price	Total
10,000,000	Tokens for Pre-Sale	US\$0.70	US\$7000000
Discount/Premium			
30% Discount			
10,000,000	Tokens for round 1	US\$0.80	US\$8000000
Discount/Premium			
20% Discount			
15,000,000	Tokens for round 2	US\$1.00	US\$15000000
Discount/Premium			
No Discount			
Unsold tokens from Pre-Sale, Round 1& 2	Round 3 & Final Round	US\$1.25	
Discount/Premium			
25% Discount			



## Utilization details

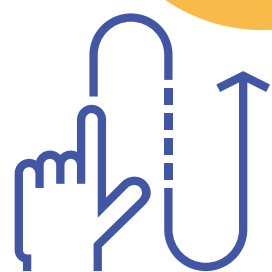
S.No.	Machinery Type	Costs in US\$
1.	Data Center with 75 MW Capacity	US\$20 Million
2.	ASIC Machines	US\$30 Million
3.	Air Conditioning	US\$8 Million
4.	UPS Devices	US\$5 Million
5.	DG Sets and Switchgear systems	US\$5 Million
6.	Other IT Equipment’s like switching , routing , racks	US\$2 Million
	<b>Total Costs</b>	<b>US\$70 Million</b>

## Funding Plan

S.No.	Funding Source	Amount
1.	ICO Proceeds of HashGains Tokens	US\$30 Million
2.	Revenue run rate /internal accruals	US\$40 Million
	<b>Total Costs</b>	<b>US\$70 Million</b>

## 8.5 Project Details

Planning  
to establish



# 2 Green DATA CENTRES in India & Canada

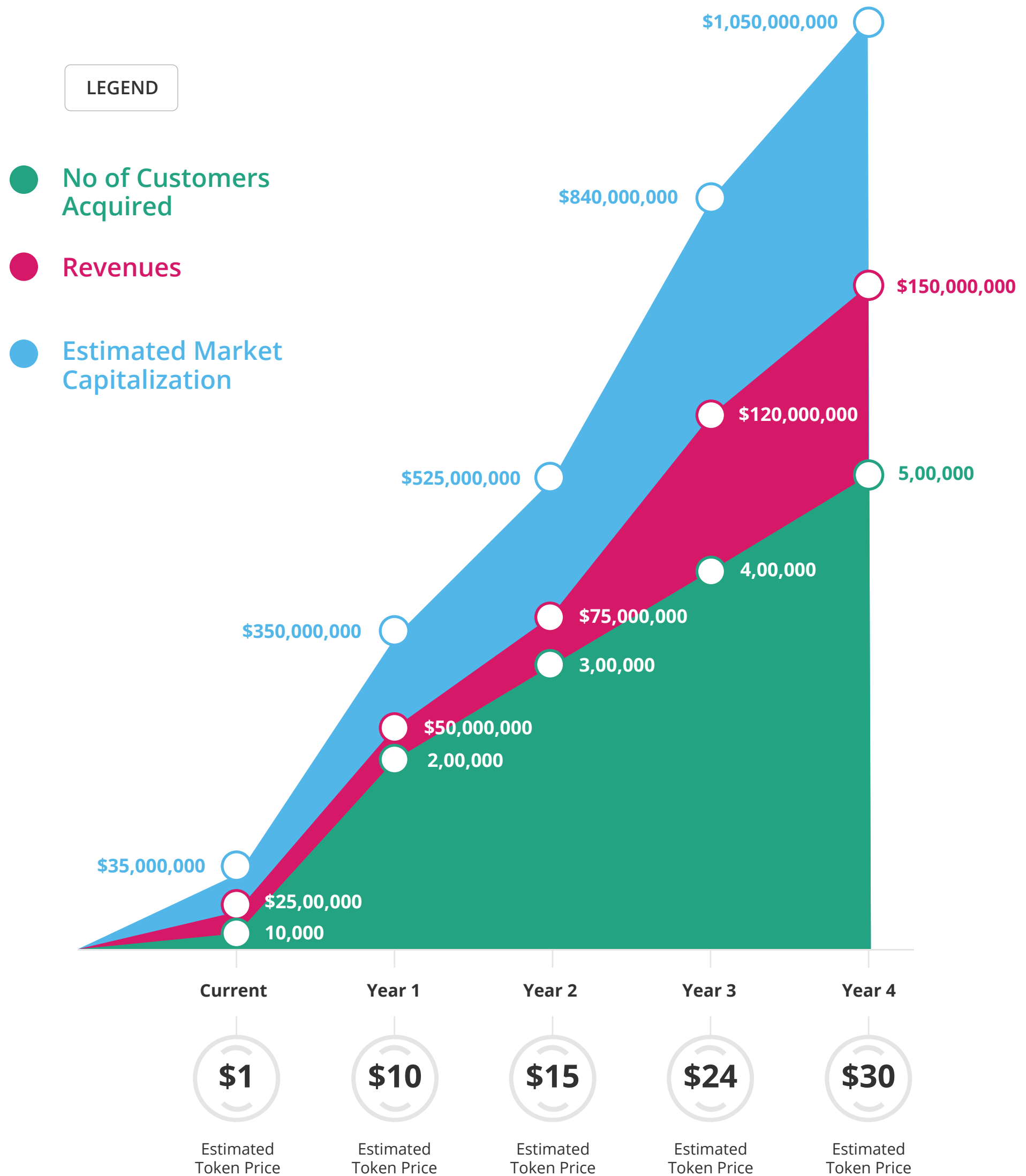


HashGains is planning to establish 2 green data centres with combined capacity of 75 Mega Watts in India and Canada.

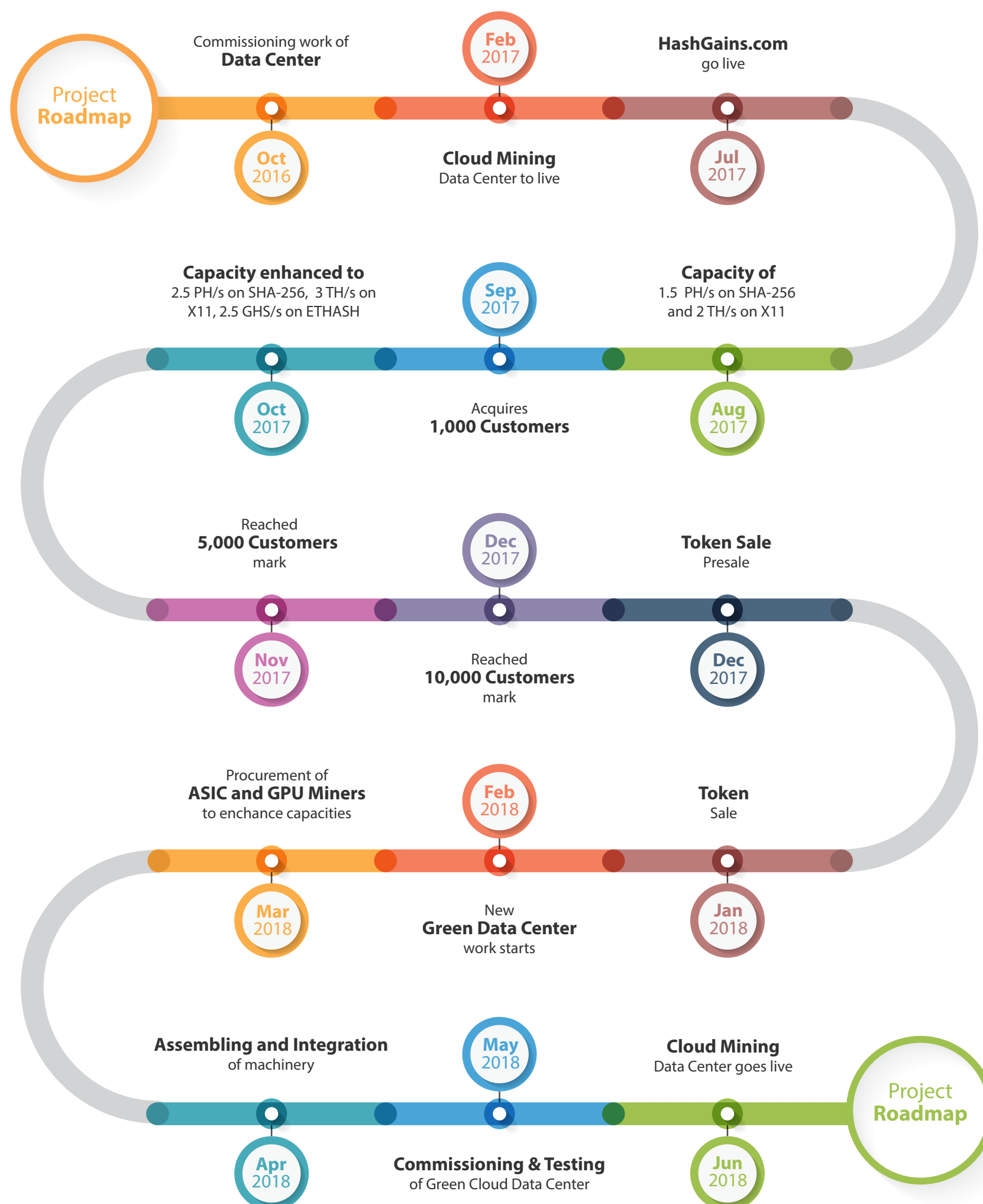
Both India and Canada are hub for solar and wind power which provides clean and green power at highly competitive prices of US\$0.06/kwh which is at 50% of power costs for rest of the world. This not only brings great competitive advantage but would also open room for further expansion. Though it is expected that future ASIC and GPU machines would be power efficient but if this becomes the case it would be even better for us as we would be able to accommodate the future devices in same cloud mining data centres.

Our expertise of over 15 years in Data Centres and cloud brings us unique advantage of delivering mega cloud mining projects where our highly sophisticated software automatically places order for individual customer in combined cloud capacity and delivers the returns based on difficulty levels which changes very frequently. With the features of automatic pay out and auto set up our platform is loved by all our customers.

We estimate that company's revenue is expected to grow by over 100 times from current figure in coming 5 years. Based on valuations of cloud mining industry our conservative estimates suggest company to be valued whopping US\$ 1 Billion in next 5 years.



## 8.6 Roadmap





## 8.7 ICO Timeline

Total Tokens

**50,000,000**

Tokens for pre-sale @ US \$0.70

**10,000,000**

Token Price

**US \$1**

Tokens for tier 1 round -Until Sold

**10,000,000**

Pre-Sale Starts

**26<sup>th</sup> January 2018**

Tokens for tier 2 - Until Sold - to be finished before 25<sup>th</sup> March ,2018

**15,000,000**

Pre-Sale Discount

**30%**

ICO Starts

**17<sup>th</sup> Feb, 2018**

ICO Tier 1

**20% Discount**

ICO Tier 2

**No Discount**

Token Cap

**35,000,000**

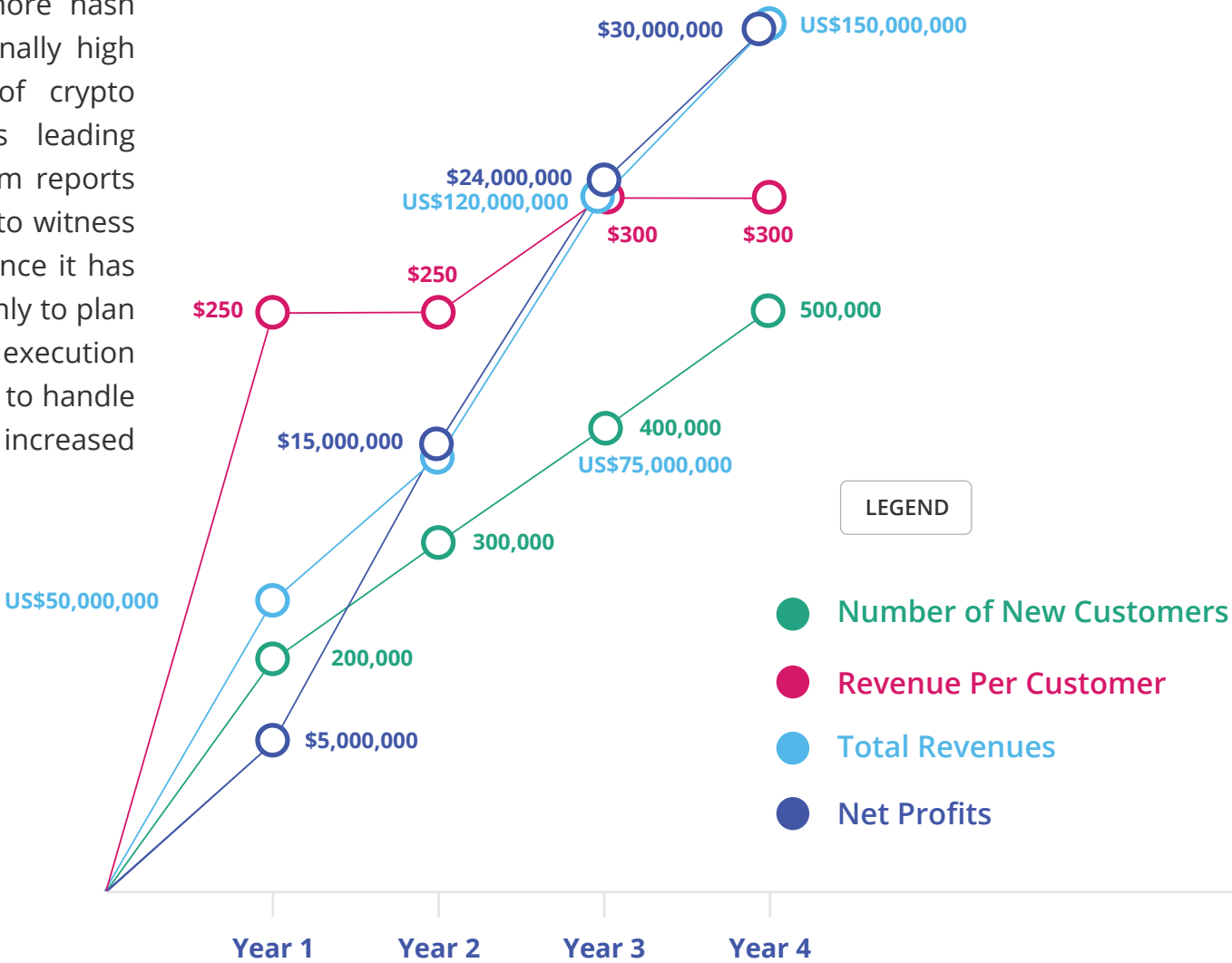
The background of the image is a stack of old, thick books with worn, yellowed pages. The spines of the books are visible, showing some text and wear. Overlaid on the right side of the image is a large, stylized graphic consisting of several overlapping shapes in shades of orange, red, and blue. A dark blue circle is positioned in the lower-left area of this graphic, containing the word "Financials" in white text.

# Financials

# 9. Financials

## 9.1 Projected Financials

HashGains.com since inception is witnessing phenomenal growth and is unable to fulfil the ever increasing demand of its customer for more hash power. Customers are witnessing exceptionally high hash gains thanks to spurt in prices of crypto currencies. As per the various reports leading investments bankers, world economic forum reports crypto currency mining market is expected to witness triple digit growth for coming years and hence it has become inevitable for HashGains.com not only to plan expansion well in advance but also ensure execution on time. Capacities must be built in advance to handle ever growing need for mining due to increased transactions in this space.



Year of operation	Number of New Customers	Revenue Per Customer	Total Revenues	Net Profits
Year 1	200,000	\$250	US\$50,000,000	\$5,000,000
Year 2	300,000	\$250	US\$75,000,000	\$15,000,000
Year 3	400,000	\$300	US\$120,000,000	\$24,000,000
Year 4	500,000	\$300	US\$150,000,000	\$30,000,000

## 9.2 Fund Utilization

S.No.	Machinery Type	Costs in US\$
1.	Data Center with 75 MW Capacity	US\$20 Million
2.	ASIC Machines	US\$30 Million
3.	Air Conditioning	US\$8 Million
4.	UPS Devices	US\$5 Million
5.	DG Sets and Switchgear systems	US\$5 Million
6.	Other IT Equipment’s like switching , routing , racks	US\$2 Million
	<b>Total Costs</b>	<b>US\$70 Million</b>

## Funding Plan

S.No.	Funding Source	Amount
1.	ICO Proceeds of HashGains Tokens	US\$30 Million
2.	Revenue run rate /internal accruals	US\$40 Million
	<b>Total Costs</b>	<b>US\$70 Million</b>

The image features a background of a cloudy sky. In the center, two hands are shaking, symbolizing an agreement or partnership. Surrounding the hands are several golden Bitcoin symbols (₿) floating in the air. A large, colorful geometric overlay is positioned on the right side of the image, consisting of a large orange shape with a brown semi-circle cutout, and a dark blue circle at the bottom left. The word "Conclusion" is written in white text inside the dark blue circle.

Conclusion



## 10. Conclusion

HashGains with its highly aggressive plans around blockchain technology is all set to become technology powerhouse empowering millions of users and applications with its state of art data centres which works on green power also an answer to rising global concern around mining data centres considered to be threat to environment with rising energy consumption and needs in future. Running data centres ensuring best return on investment, managing uptime, servers and utilities is no less than a highly complex task but who better than HashGains backed by Cyfuture having experience of 15+ years managing global Fortune 500 customers can accomplish this.

With best combination of strong development, marketing & sales team HashGains is all set to establish itself among top 10 mining companies in the world. HashGains ICO is one of the best investment opportunities as investor not only gets the token of high growth and profit venture but also get the chance to become part of booming blockchain and earn crypto currencies by getting free hash power offered by each token of HashGains.

Pre-sale which opens in first week of February makes it even more attractive with 30% discount to investors. We feel that there cannot be any better opportunity for investors than this!



# Glossary

# 11. Glossary

## 1. What are Altcoins?

The other alternates of Bitcoins are known as Altcoins. They are part of crypto world but not much successful as of now. However, we never know when they can rise above Bitcoin and have more value.

Altcoins are in thousands of number now, with a little difference in coding and the mining process. They are more effective and less expensive, like Ripple, Zcash, Steem, etc.

## 2. What is ICO?

ICO refers to initial coin offering, wherein people are keen to invest in a new project or start-up and they take the coin offered to them in exchange for legal tenders. This offering is done to raise funds for the company with open attestation of their future plans.

## 3. What is a Token?

A cryptocurrency token is identical to a Fiat exchange- only that it operates on the Blockchain network and doesn't have a physical form like paper currency. There are a number of virtual assets/digital currencies, namely Bitcoin, which operate on an open-source protocol. They can be used in trade/exchange, and can also be mined. These operate on a decentralized network and work on the principles of creating more incentives out of it.

## 4. What is Double-Spending?

Double-spending means spending the same amount twice without it being registered in the ledger transactions. It is an act of fraud or ineptitude that has to be checked always. With everything operating on a digitized platform nowadays, there are some menace in the verification process, but it is always heeded by the Blockchain.

## 5. What is Decentralization?

Decentralization refers to the transparency and universality of all transactions that take place between the consumers with the use of cryptography. This is the basis of peer-to-peer networking where there is no legal documentation via government or central banks. The verification of the same is done by nodes and are recorded in the public ledger popularly known as Blockchain.

## 6. What is cryptocurrency?

Cryptocurrency in this modern world refers to Digital Currency that has no physical form and is solely operational on a decentralized network. It is a digital money system where the transactions are really secure, with little or no fraud because of its tenacious codes and algorithm.

## 7. What is Cryptography?

Cryptography is the key to deal in Bitcoins, all transactions that are performed carry a special code which can only be decoded by the one who is receiving the money sent by another. It keeps every transaction safe and secure, verifies every transaction and helps in the debasement of double-spending.



## 8. What is Dapp?

Dapp or Decentralized Application is today's new technology that helps create Ether (the currency used on the Ethereum platform) and work on this network without much of an effort. Dapp has the special power to bring back the losses and keep it safe for the future. It is transparent by nature and encourages users to use this application so as to and gain more profits.

## 9. What is Exchange?

Exchange (cryptocurrency exchange) refers to buying and selling of digital/virtual assets from various exchange platforms that are safe and secure. It is not necessary that you have to exchange Bitcoins or altcoins for cash, you can even purchase products and services using these coins. Many international merchants have already started to accept cryptocurrencies as an acceptable mode of payment. These sites capacitates us to invest and earn more with full security.

## 10. What is Scrypt?

It is the backup service by the name of transnap. It has a secret key derived out of password for security purpose. It is a derivation-based functioning system. It is a cryptographic Proof-of-Work algorithm, and does not dissipate much of a processing time.

## 11. What is a wallet?

Like our pocket wallets, e-wallets are used to store digital currency earned through mining, trading and investments. It is encrypted with a password to deny any unauthorized access by third parties. It is controlled by its owner only. The users should always store their private keys in a file name wallet.dat and are advised to copy it in some other folder as well.

## 12. What is Proof-of-Work?

Proof-of-Work, as the name suggests, shows that an investor has invested an ample amount into his computer system setup. Proof-of-Work algorithm refers to a special economic measure taken to prevent the refusal of service attacks or any other service related abuses, essentially any sort of spam on the featured network. Now miners can start solving calculations and the one who completes the process receives Bitcoin as a reward for solving a 'block', which is then added to the Blockchain.

## 13. What is Oracle?

An oracle is a mathematical function that is caused due to data leak and is the random response to your query that you ask for. However, if you put the same query again the response will be the same. These oracles are the domain proof of your query. Random oracles are used for the replacement of the cryptographic hash functions.

## 14. What is multi-signature?

Multi-signature is the security protocol that allows more than one person to sign a single document. This technology was introduced to secure the transactions of any company or a big empire. It does allow us a safe generation of Bitcoin and also provides us with the facility to create a password and let the majority sign do or stop the transactions.

## 15. What is EVM?

EVM refers to Ethereum Virtual Machine. It is one of the most important part of Ether transactions because it focuses on providing secure and trusted computers all over the world. Its ultimate intent is to provide overall security to the users.



## 16. What is Block Reward?

When a miner successfully solves a mathematical algorithm they are remunerated with a block reward in the form of crypto tokens which are then added to their accounts as a saving and can be further used in any of the transactions.

## 17. What is Genesis Block?

Genesis block is the backbone of the Blockchain as it is the very first block of the Blockchain. This block does not hold any transaction because there was no cryptocurrency produced before. Bitcoin Genesis Block is special because only it starts from the start.

## 18. What is Arbitrage?

Arbitrage is the process of buying and selling of currency during the time of valuation up and down. It can be a little difficult as to when and how you will be buying the currency so that it can profit you, or sell the currency when it yields the most.

## 19. What is Private Key?

Private Key is a minuscule of mathematic codes that is made up from both public and private transactions but with various restrictions. It is made to secure the personal transactions and keep them private, as the name suggests. It is for one entity or owner who has the password and can do the transactions.

## 20. What are Smart Contracts?

Smart contract is the one which eliminates the middleman in the procedure of buying and selling of the cryptocurrency you hold. The transactions that happen can be tracked easily to avoid any fraud and cannot be reversed so that no one can steal money from your account.

## 21. What is Turing Complete?

Turing complete is a computer that can solve algorithm problems and is well established. It is basically a program that can give answers to the provided programs. It has the same set of behaviour as a universal quantum computer, which can simulate any physical system.

## 22. What Is Blockchain?

Blockchain is an incorruptible digital ledger, and is a mechanism to bring everyone up to the highest degree of accountability. It is a continuously growing list of the members of the mining industry known as "blocks".

It was first found by an anonymous person or group known as Satoshi Nakamoto and implemented in 2009 as a core component of Bitcoin where it serves as the public ledger for all transactions. It is designed in such a way that it secures the online transactions.

## 23. What is Bitcoin?

Bitcoin is a cryptocurrency and a secured online payment system, which was created as a reward for the process known as mining. This can be exchanged for any product, services, so on and so forth. Commonly known as peer-to-peer electronic cash system, Bitcoin is the first "completely decentralized system with no server or central authority."

Bitcoins are complete virtual coins with no pressure of keeping them in banks and other financial institutions.

## 24. Who invented Bitcoin?

Satoshi Nakamoto is the name of the unknown founder of Bitcoin. Nakamoto claimed to be a 37-year-old male who lived in Japan, but some speculated he was unlikely to be Japanese due to his use of perfect English and his Bitcoin software not being documented or labelled in Japanese. Transactions are made with no middle men – meaning, no banks! There are no transaction fees and no need to give your real name.

## 25. What is Bitcoin Mining?

Bitcoin mining is the process by which transactions are verified and added to a public ledger, which is known as Blockchain. It is an advanced mathematical and record-keeping process by which you make money. Mining does not create Bitcoin, rather it is a reward for validating the previous transactions. Each group of transaction id is known as block.

## 26. What is mining rig?

Mining rig is used for mining Bitcoins, and controls all the workings of the computer system. Basically, a network or setup made to mine Bitcoins, it totally depends on how perfect a rig you make. The more money you will put in the more you will earn, because utilization of power and electricity do bind you from earning what you desire for.

## 27. What is Bitcoin address?

A Bitcoin address is that unique link that holds all your Bitcoin currency. It is a 26-35 alphanumeric character or can be scanned as QR Code. This address is used for all transactions. It is like a single token or an e-mail, to be sent or received like money. Each user may have more than one Bitcoin address and it is recommendable to create a new one every time you receive money, so as to enhance the privacy of your account.

## 28. What is ASIC?

An ASIC, or application-specific integrated circuit, is a microchip designed for a special application, such as a kind of transmission protocol or a hand-held computer. It can be found in many other devices like voice recorder and Bitcoin Mining hardware.

Capable of easily outperforming the aforementioned platforms for Bitcoin mining in both speed and efficiency, all Bitcoin mining hardware that is practical in use will make use of one or more Bitcoin ASICs.

## 29. What is hash rate?

Hash rate, also known as Hash Power, measures the power of the Bitcoin miner machine. It is the speed at which a computer is performing and completing tasks in Bitcoin code. The network consumes a lot of energy because it has to solve mathematical intensive computations regularly to find the blocks, so hash rate keeps a check on the same.

To successfully mine a block, a miner needs to hash the block's header in such a way that it is less than or equal to the "target".

## 30. What is Bitcoin wallet?

Wallets grant you access to your public Bitcoin address and allow you to sign off on transactions, but they differ based on how you choose to access them. It facilitates the inflow and outflow of the transactions done by the user and helps to store them at one place with a unique id.

The Bitcoin wallet comes in many forms. Desktop, mobile, web and hardware are the four main types of wallets.