BEAT YOUR HEART
Connecting the world and making lives more valuable
Creating a unique credit rating system
Innovating your dreams
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DISCLAIMER

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“Among the essential features of this situation is that no one knows his place in society, his class position or social status, nor does any one know his fortune in the distribution of natural assets and abilities, his intelligence, strength, and the like.”

- John Rawls, A Theory of Justice -
INTRO

In the beginning of the 20th century, national crises like the dot-com bubble, 9/11, and the War in Afghanistan, lead the American government to enforce a low interest rate policy as part of a strong economic stimulus package. While the main purpose of this initiative was to create corporate investments and private consumptions, it has caused tremendous household loans. In 2004, it led to the termination of the low interest rate policies, leaving financial institutions unable to collect loans. Major finance and security companies in the United States, such as New Century Financials, went bankrupt. The scandal has caused a worldwide credit crisis and hurt the real economy. One of the most widely known examples of the global financial crisis is the collapse of the investment bank 'Lehman Brothers' in 2008.

One of the most interesting events is the birth of the post-revolution system and cryptosystem currency, called ‘Satoshi Nakamoto’ after the collapse of Lehman Brothers. Speculation is rampant about Satoshi Nakamoto, who is still completely veiled. The clear message he is trying to convey in his thesis, which consists about nine pages, is the lack of trust in the banking system, especially the Federal Reserve Bank (FRB) who is central publisher and trustful third party and manages all information and policies after going through the financial crisis in 2008. He suggested a currency system that is not possible to fabricate and perfectly transparent without requiring personal information with the purpose of “substitution” for existing systems.

His message raised social discourse on the system that everyone decides the system participants transparently. His will has spread not only in the banking system but throughout media, culture and life as a whole society. Rather it is not determined by the sharing and distribution of information in a more fair society, centralized control and management body, with the meaning of ‘Decentralization’.
INTRO

Satoshi Nakamoto derives the definition of distribution from the ancient days of Platon. In particular, his discussion shows analogies to John Rawls’ book “A Theory of Justice” where the moral and political philosopher emphasizes the importance of justice. Rawls argues that fairness can only result if the procedures of distribution are fair.

Taking a closer look at how these comments relate to the blockchain, John Rawls uses the ‘fair procedure’ to account for the ‘veil of ignorance’ and to assert that the information solves asymmetry. The blockchain is a chain of blocks that are distributed through public trading principals, who can’t modify the contents. More importantly, all of the relevant records will be disclosed. In this process, no asymmetry exists between the two parties during the transaction, making it possible to implement a fair contract. The same is true for distribution. For instance, maintaining a blockchain network requires voluntary participation from the miner (e.g. PoW) and is rewarded with a donation of cryptocurrency tokens in return for mining activities. This is in line with Rawls claim for distribution of capabilities based on procedural definitions.

A Solution for Asymmetry of Information & Realization of Fair Contract = Blockchain Technology

Fair distribution = token distribution based on system contribution

The FORESTING Network, which will be introduced in this whitepaper, is based on the creation of bitcoin and a philosophy shared by Satoshi Nakamoto and John Rawls on a more fair society. Accordingly, the FORESTING Network solves the asymmetry of the information that is prevalent in our society, pursues fair contracts, distributes them according to their ability, and shares active contributions with one another. The first chapter of this paper will be about the social media field, which has transformed people’s values and lifestyles since the release of the iPhone in 2007.
DEFINE

FORESTING NETWORK

The FORESTING Network consists of the blockchain based 1) social media 'FORESTING', 2) digital banking services for FORESTING participants 'FORESTING Bank' and 3) 'FORESTING Lab' to support the FORESTING community and content creators. Each of the three departments is separated into their respective functions and roles to fulfill the core values of the FORESTING Network.

The 'FORESTING' or 'FORESTING Platform' is a blockchain based social media platform that deviates from the distribution system of traditional social media platforms. It provides a fair value distribution system for users who are the true owners of the platform. They deliver content through blockchain technologies and contribute to platforms in a variety of forms.

'FORESTING Bank' is a digital bank for content creators and curators alike. The core of the FORESTING Network is the platform users who will be provided and supported by financial services to create contents in its entirety.

'FORESTING Lab' supports communities and marketing activities besides the platform to activate the FORESTING Network, especially the content creators who are the owners of the FORESTING Network.
Chapter 1

BACKGROUND

Taking a glance at what it was, what it is, and what it will be
1.1 A World Transformed by Social Media

“Make the world more open and connected.”

- Mark Zuckerberg -

On February 4, 2004, a 19-year-old Harvard student started Facebook with a slightly unusual goal.

As of 2018, an average of 1.1 billion people out of approximately 2 billion are accessing and interacting with Facebook. From trivial daily lives and interests to sensitive political issues, Facebook friends read and write three million articles a minute. We share our thoughts and opinions as we post pictures and videos and we communicate by pressing the ‘Like’ button 2 million times a minute.

Looking back at the past decade of SNS that is represented by Facebook, there are always SNS that connect people at the center of our lives. In particular, it has brought social changes, such as political, cultural and economic and its influence is gradually expanding in each area.
SNS changes the election culture

‘Four more years!’ was U.S. President Barack Obama’s Twitter post after his re-election on November 6, 2012, which comes with a picture of him embracing his wife Michelle with a delighted look on it, and the tweet was instantly shared by 680,000 individuals. Facebook was followed by 400,000 shares with 3.3 million ‘Likes’. The tweet had only three words and one photo but it was more effective than any advertisement delivered by spending millions of dollars. The post won the hearts of Americans.

In fact, the Obama camp hired Chris Hughes, a Facebook co-founder since 2008. He created a dedicated site for the presidential election, MyBO(My.BarackObama.com) which binds supporters together and raised campaign funds. Supporters, who formed the online version of MyBO, played a crucial role in creating the “Obama Movement” on Facebook and Twitter. In fact, the 2008 and 2012 presidential elections are considered the ‘Textbook of Social Networking Elections’ and SNS has an influence on the activities of politicians today.

Serve as a channel to horizontal social change

Also, SNS has become the main tool of the Jasmine revolution called the “Spring of Arab”. An unnamed Tunisian young man’s improper death became a symbol of the democratic revolution on social networking sites around the world. In the Egyptian revolution the first group of tens of thousands of people staged a protest on Facebook. 99 percent of the young people that started the strike were also capable of taking over Wall Street with hundreds of Facebook accounts, as well as Europe. The reason why SNS has changed this rapidly is because the public is free to express their opinions. It served as a tool to bring opinions to the public for the countries where the press was controlled by a dictatorial government or opinions of the minority was not reflected. SNS has served as an alternative medium for breaking the controlled and limited media environment and spreading hidden truths and suppressed opinions.
As SNS became the keyword that changed the world, the position of the press began to be shaken. Today we can get faster news on Twitter than on any major news network. Even though Syria is a country where foreign media activity is under full control and journalists are not allowed to enter the country. For example, the Syrian protest news is being widely spread through Twitter and YouTube by “common” journalists.

In the 21st century, it became difficult for people to leave social networking sites. Apparently, SNS has caused a shift in vertical communication to “horizontal opinion spreading” in the society where it was the main subject.

1.2 Centralized Social Media

As of 2018, there are about 3 billion active users on social media, and the number is growing exponentially. Social media has changed the world and sparked the start of a new digital economy.

Popular social media app services, such as Facebook, Instagram, Pinterest, SnapChat, Twitter, and LinkedIn have some common features that are drawing attention from many people. With user convenience and behavior in mind, the changing contents momentarily are one of the most successful concepts for social media represented by mobile app services and the growth of smartphones.
Within the social media platform, user-generated content created billions of dollars, which was naturally distributed among the platform’s operators and their shareholders. They would not be where they are today if it weren’t for the actual interaction of many users who contributed to the platform’s growth through ‘Like’ or comments, produced, posted and shared. The companies that are running platforms have a basic goal to bring more users onto the platform and subordinate them to it. Traffic and contents generated through user interaction are the most valuable things in platform-based services. The company provides a space where users can share their interests and interact with their friends for free. By doing so, users will be able to offer their ideas, messages and ownership of content free of charge to the network owner (corporate). Most users will not be aware of the rewards associated with this and think rewards are only for certain influencers.

In the meantime, user data is becoming a commodity sold for advertising which is a major source of revenue for the company. Through the content and database that users contribute for free, the company acquires major revenue sources, making it a targeted advertising provider that encourages users’ desire to own and consume.
1.3 Excessive Reliance on Ad Revenue

I . Personal Information Leakage and Theft

Almost every form of media that exists today is centralized, and social media that emphasizes a free lifestyle is no exception. Rather, they are not free from security issues, such as censorship, hacking, or personal information leakage.

The recent major disruption on Facebook’s privacy has given us a strong picture of this. It revealed that about 87 million personal information was leaked from Facebook and used for certain candidates during the last U.S. presidential election.

Making a profit is a goal every company is pursuing, so there is no reason why Facebook’s business model should be criticized. However, users are complaining about the betrayal and withdrawing their trust because Facebook’s business philosophy does not match with the way the company operates. In particular, this case is significant in that Facebook has turned creative content by its users of the horizontal network into revenue streams, creating a large, centralized conglomerate. What is especially unfortunate is that most personal information is never recoverable once leaked, and can cause secondary damage. Including abuse of criminal acts such as spam mail, identity theft, privacy breaches, and voice phishing.

Looking back on this case, the biggest problem is that most content platform providers use customer DB to earn advertising revenue.

Rather than the content itself generating the primary revenue, the platform acts as an intermediary for advertisers, and advertisers are eager to collect the user DB to increase the efficiency and effectiveness of targeted advertising by advertisers and advertising agencies. Facebook is already rumored to be highly advertising-efficient. This means that our daily use of Facebook at this time of day will be the target of every company that has joined Facebook.

Rather than pursuing this profit-focused platform, Foresting will create a content-centered platform that generates direct content revenue.
II. Advertisement Abuse

Personal information leakage is not the only problem with traditional social media that relies on ad revenue. If you rely solely on ad revenue, it also creates a big problem for the quality of content. Most social media judge traffic as a value measure for content rewards to expose advertising to more users. However, this may encourage provocative, content-oriented postings to attract collectors.

Forested encourages better content creation and is more voting focused than actual traffic-oriented content valuation. We will create a better content culture through evaluation.
1.4 Value Distribution

I. Unfairness of Value Distribution: Content Providers & Participants < Service Provider

The distribution of values in traditional social media is clearly disadvantageous to the user. Although users perform a whole series of procedures to create, post and share content on their own, they are not rewarded. Despite the fact that it is so well known, people don’t feel it is unjustified. Even if people feel it is unfair, they don’t know what to do.

II. 1 Irrationality of Value Distribution: Revenue of Content Providers

Some social media platforms share the operating revenue of content creators. We tend to think only of the higher-earning annual revenue streams exposed to the media, such as YouTubers, BJs (Broadcasting Jockeys), and Bloggers and see the platform’s value and revenue between content providers separately. However, these 'Influencer' accounts for only a small fraction of all content creators, and they are still assigned an unreasonable share of the revenue distribution between the content provider and the service provider.

II. 2 Irrationality of Value Distribution: Participants

The main asset of the social media platform is user traffic. User activity indicators such as DAU, MAU, and ARPUs are always used as performance indicators for the platform operator. In particular, content and its surrounding relationships are the source of social media platform value. all platforms are maintained by users who invest their time creating content and curating it. However, their value is not revenue-generated across most social media platforms, unlike the content providers described above, but rather targets advertising campaigns within the platform or is subject to identity theft.

II. 3 Irrationality of Value Distribution: Operator

Through creating, publishing, sharing, and writing content within the platform the social media platforms have generated billions of dollars in value, and most of the revenue have returned to the operators and the shareholders.
Chapter 2

FORESTING NETWORK

“Beat Your Heart!”
Chapter 2
FORESTING NETWORK

2.1 Key Values of FORESTING Network
“Beat Your Heart!”

The FORESTING Network was created to realize the value of a new life in our society: "Work four hours a day, share everyday life, and manage your life." The FORESTING Network will bring about a value shift of ‘labor’ in the existing society. It will be completed with the blockchain based rewarding SNS and innovative financial services to fully support.

2.2 FORESTING Network Value Chain

The FORESTING Network is set up with three departments. 1) blockchain rewarding SNS ‘FORESTING’, 2) digital banking services for FORESTING participants are transformed into a direct payment from the ‘FORESTING Bank’ and 3) the ‘FORESTING Lab’, providing infrastructures and supporting content creators. While each department’s respective functions and roles are separated, their core values of the FORESTING Network remain the same. They were designed in a structure in which they interact systematically and create synergies.

1) ‘FORESTING’: Blockchain based rewarding SNS
2) ‘FORESTING Bank’: Financial services for FORESTING Network participants
3) ‘FORESTING Lab’: Providing infrastructure and supporting content creators
4) Provide credit rating information
5) Financial services
6) Using infrastructure and creating better contents
At the heart FORESTING Network’s three departments are the FORESTING users. The level of content delivery and platform involvement by the FORESTING user defines the scalability and impact of the FORESTING Network. The starting point for the FORESTING Network mechanism comes from the content providers and participants. It is also associated with the core value of the FORESTING Network, a fair world created by participants.

2.3 Blockchain Based Rewarding SNS ‘FORESTING’

“Connecting the world and making lives more valuable”

FORESTING is the platform’s revenue chain that allows users to quantify the content provider’s contribution to offer rewards using a distributed consensus method.

FORESTING, which will open a new world, is a combination of ‘Forest’ and ‘Networking’, ‘Connecting’, and ‘Interacting’. FORESTING is the primary social media, a blockchain with economic freedom for content providers. The platform will be able to increase the efficiency and impact of content providers by enabling them to generate new, faster content than traditional social networks. The platform will create a new ecosystem for social media through blockchain technology and a new concept of social media token operation.

FORESTING is designed to build a network by distributing income through reasonable content generation and on the assessment of the users’ content. It supports all types of content, whether it is text, images, videos, audio, or live broadcasting, and provides a social network based on a content-oriented rewarding service.
2.4 FORESTING Bank

“Creating a unique credit rating system”

The purpose of FORESTING Bank is to support financial services that are required by users so that they can fully focus on creating contents at the center of the FORESTING Network.

Users can contribute to the FORESTING platform through a variety of activities, including creating and providing content, writing comments, pressing likes, and sharing. The contribution of users is evaluated using a new contribution assessment model presented by FORESTING Bank. Users will be provided with a variety of financial services depending on the contribution level of the platform which is based on the level of the connections, created contents, coin acquisitions, and transactions. Users can improve their credit ratings just by working on social networking sites, and have an amazing experience with broader economic activities.

Users could not fully focus on content creation before. Some were categorized as self-employed or had to suffer economic difficulties such as low income. Providing financial services were based on income, money transactions and credit ratings at existing banks. Therefore this platform will lead to better content creation, enhance the quality of the content across the FORESTING platform, and ultimately lead to a virtuous circle structure that extends the rapid expansion and impact of the FORESTING platform.
2.5 FORESTING Lab

“Innovating your dreams”

The purpose of FORESTING Lab is to provide infrastructures for communities who are participated in FORESTING Network and support content creators who want to make contents and post on FORESTING platform.

The FORESTING Lab runs an offline share office for FORESTING users. FORESTING Share Office is available to any participant in the FORESTING Network and is used fully only to expand the FORESTING Network and develop the community. This space provides a space for users at the core of the FORESTING Network to create greater quality content, along with the equipment needed such as cameras, microphones, lights, speakers, and instruments. Users no longer have to give up being a content creator because they cannot afford the space or equipment to create the content. By doing so, FORESTING will be able to offer high-quality content and build a stronger post-staging ecosystem.
Chapter 3
FORESTING

“Connecting the world and making lives more valuable”
Chapter 3
FORESTING

3.1 Roles and Structures of FORESTING

FORESTING is available to anyone without prior knowledge of blockchain and cryptocurrency. Anyone in the world can easily profit from FORESTING, and just being active within the platform is rewarded with PTON.

FORESTING, a new concept SNS, distributes the revenue generated by the content to all users who contribute to it. In FORESTING, content creators no longer have to rely on the funds from followers and advertisers. Instead, users can get enough economic activity just by getting ‘Like’ through the use of blockchain technologies and cryptocurrency. Blockchain technologies enable users to support content creators without losing anything, and users can also tap on incentives to post comments to other content creators or to ‘Like’ them.
3.2 Characteristics

Similar projects have been popping up in the market since the first blockchain-based social I. User-friendly UX/UI networking site, Steemit’s successful debut. FORESTING seeks out the best services to implement the perfect blockchain for social networks.

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<td>IV. Coin Economy Activation</td>
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<td>V. Supports all forms of content</td>
<td>VI. Security and privacy protections</td>
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I . UX/UI

As a blockchain based social media service, FORESTING’s goal is to provide users with easy and convenient services as traditional social medias, while also providing real-time measurements and transactions of their content values. The platform also aims to provide a service that is intuitive to users rather than a service that requires them to be aware of difficult concepts, like blockchain technology and cryptocurrency. For this purpose, we will provide a service equipped with the best UX/UI. In addition, the platform supports voluntary activities such as registering, withdrawing, and deleting posts. For content provider’s ‘Protection of deletion and personalization’ and hiding options for posts that users don’t want to be public in the blockchain based SNS, are available
II. Device Optimization

FORESTING is offering a new ecosystem that integrates people’s lifestyles and the income it brings into a single mobile app. This makes it easy for FORESTING users to share and influence their content anytime, anywhere.

FORESTING will be designed for the users to share text, images, and videos easily. People can comfortably use features such as writing comments, sending messages, and exploring chronological feeds.

The content of FORESTING can spread rapidly across the public.

It is uploaded and shared live and is a unique source of social media services like Facebook and Instagram which have caused hundreds of millions of viral downloads over the years.

III. Simplified Coin Exchange

While targeting global services, FORESTING also wants to make it easier for its users to add value to their content and easily convert the value they are given into money. For this purpose, we will display the current coin market in real time in the app. In conjunction with main exchange offices around the world, we will make it easy to exchange coins from anywhere.

For this purpose, a link button for the country you are referring to will be installed at the bottom of the page, and decentralized voting and messaging will be implemented for community-based developments and projects. As a result, it allows for experiences such as DAO in managing community projects while maintaining simplicity from a technical standpoint.

FORESTING will allow network transaction fees to be paid with custom tokens. Orders must be sent to the next decentralized exchange where these transactions are exchanged with the main network tokens.

※Under discussion for some exchanges and the list may vary.
IV-1. Coin Economy Revitalization: Master Node Based P2P Transactions

By default, the platform opens at least 10 coins per user. After opening, you can update them. Each blockchain can have independent settings. Coin-specific blockchain node compiles and the installations are automated. An RPC module is provided to access each coin. It provides basic operations and master nodes for node operation. Some coins may be presented with lightweight wallets. These master nodes, or wallets, can be connected to FORESTING by payment channels, state channels and so on.

FORESTING Dex enables the sale of PTON tokens and creates a system for collecting current market information. This enables the sale of general, split, tender, and split bids without polling. For this purpose, we will use the tools to close deals, push notices, and push notifications, social networking services, email, etc., and can use different types of transaction history and statistical queries. It also enables the use of group chat rooms using zn-SNARKs libraries and provides messenger services for user transaction-related inquiries and discussions.

IV-2. Coin Economy Revitalization: On/Offline Wallet & Transfers

The wallet shows the number of tokens that belong to that account and works like an electronic bank account. With that account, you can transfer tokens, withdraw tokens, and leave tokens in your account. The wallet account will be directly associated with your FORESTING account.

When a new account is registered, it automatically creates a personal online wallet. Although the blockchain technology is a transparent technology and all transactions are visible, users can protect their wallets using anonymous accounts and the FORESTING interface. An anonymous account and interface will allow only the wallet owner to see the transactions made suitable for them, and to gain access to the wallet.

Digital wallets store coins produced on blockchains and act as individual bank accounts for. Users can use direct messages and instant remittance features that let them send tokens into other people’s wallets in seconds. The P2P bank solution will be completed on a FORESTING basis, a simple, fast, and secure blockchain-based social media platform.

As security issues are being raised after a series of hacking attacks at home and abroad, attention is growing to hardware wallets, which are known to be relatively safe to keep encrypted currency. The hardware wallets’ private key has many benefits, including never being exposed to a PC environment or affected by a virus.

The only problem is that most of the hardware wallets we have on the market today only support popular coins such as Bitcoin, Ethereum, Quantum, and EOS. FORESTING will enable the use of PTON coins in conjunction with the hardware wallet developer, or through the provision of an open-source for users who prefer the use of a hardware wallet from the beginning.
IV-3. Coin Economy Revitalization: Direct Transfer

Each time PTON moves from one user’s wallet to another using the ‘direct delivery’ feature, the sender receives a fee of 0.001 PTON per transaction.

IV-4. Coin Economy Revitalization: Coin Shooting

In addition to supporting other users through the ‘Like’ button, users can also donate the PTON token by pressing the ‘Donation’ button under the post. This feature can also be seen as one of the ways to send a FORESTING token directly to other users, but it makes a difference in the way that donation behavior is shown openly in the posts.

IV-5. Coin Economy Revitalization: Advertiser

In traditional social media, an advertising company accesses and uses the users’ databases through PPL. However, in FORESTING, advertisers and advertising agencies can upload their advertisements and advertising proposals to the advertising pool category or communicate with content providers that meet their respective articles and concepts. Content creators will be rewarded through the interaction of other users with their content after a week, such as comments and ‘Like’. They can then select the ad they want, and post it on their content pages. This means that a content creators can make a profit over a period of time, in addition to making a profit from an ad. This creates a virtuous circle in which content creators try to create better content, while FORESTING users come across better content.

V. Supports all forms of content

FORESTING provides users with the best security and privacy system possible, using blockchain technologies. One of the key components of blockchain technology is that it does not have a broker. The block is processed into a block after the encryption process, including all transaction details, transaction summary, and block information from the previous transaction. The encrypted block contains a full list of transactions and blocks until the last minute, making it look like a chain.
VI. Security and privacy protections

FORESTING provides the best security and privacy system for users through the use of blockchain technology. One of the key points about blockchain technology is the lack of brokers. The blocks are processed into a single batch, with all transaction details, transaction summaries, and blocks information from the previous transaction going through the encryption process.

The encrypted blocks contain all of the transaction details and blocks of the previous transaction, therefore the blocks look like chains.
Chapter 4

FORESTING BANK

“Creating a unique credit rating system”
Chapter 4
FORESTING BANK

4.1 Purpose of FORESTING Bank Establishment

At the center of the FORESTING Network is the user. In addition to providing content, users also contribute to the platform’s growth with a variety of types of formats. In particular, users may no longer rely on advertising companies and centralized platforms to directly exchange their content for real value. And as the influence of the FORESTING platform continues to grow in society, ‘Influencers’ will start to appear as they did for YouTube and other blogs. It will emerge as another profession that children dream of.

However, the primary income from the content does not directly influence the social ratings of users. While traditional major social media influencers, such as YouTube, Instagram, Twitch, and Afreeca TV, have been known to raise millions of dollars a year, it is only applicable to a few popular influencers. Most of the people who work with professional influencers are self-employed, except for celebrities who work with large business and entertainment companies on their backs. Their income is not fixed, and some of them have hard time dealing with daily lives.
Furthermore, they are not classified as common jobs in traditional banking systems in which they are not given a positive impact on credit ratings. This is because they are subject to an independent credit rating regardless of their economic activities which result in a negative credit rating. This means that they cannot perform common financial activities, such as getting loans, within the system compared with their wage earnings. Even more unfortunate is the fact that in addition to time invested in content creation, it is also a challenge for those with expensive equipment, making users feel left behind competitors who have strong ideas and talents, and who are also able to gain capital gains.

To solve these problems, FORESTING Bank will provide a digital banking service that is available to anyone who uses FORESTING. In particular, it provides personalized financial services for content creators that contribute to the growing platform and community. By doing so, the content provider will be able to focus on creating his/her own content, and the distribution of good content will make the FORESTING network more influential.

4.2 Digicrypto Bank “Digital Bank + Crypto Bank”

1. Challenges to Traditional Banks

"Banking is necessary, banks are not." -Bill Gates-

It is already well known that traditional banks are conservative. Recent changes have also been made to these banking institutions. There has been the establishment of new overseas transfer services and security systems based on blockchain technology with traditional financial institutions and FinTech companies, document notarization, and mobile optimization activities, including consideration of the user’s UX & UI. Financial innovation has been happening throughout the industry such as finding ways to make improvements on the SWIFT system with blockchain technology which has been slow and expensive for overseas transfers for about 45 years since 1973. In addition, there are compelling examples of global bank startups offering most of the financial services traditional banks provide through non face-to-face services rather than simple financial services such as remittance.

FORESTING Bank makes use of its innovative digital banking model that deviates from the traditional banking system based on the needs of its clients and of the digital bank’s middle code, which is a blockchain based financial service that has recently become an issue.

FORESTING Bank = Digital Bank + Crypto Bank = Digicrypto Bank

FORESTING Bank will provide a non face-to-face financial service that extends directly to the Internet, PCs, and even smartphone which would be applicable with existing digital banking services. To achieve this purpose, the FORESTING Bank has come up with a new credit rating model.
II. Traditional Credit Rating Method

The existing CSS Credit Evaluation Method predicts the customer’s ability to repay their financial statements by viewing and grading the customer’s financial history to provide information to financial institutions. Therefore, if CB does not have financial information data, financial activities such as loans and credit card issuance are restricted as new users cannot be assessed even among customers with good repayment ability.

While the Financial Supervisory Service and the Financial Services Commission present various methods of supply such as warranty insurance related products, the actual situation is not well modelled as it lacks the most important credit assessment information.

Credit-scoring model of internet banks

- Submit loan application
- Individual financial data
  - Consumption patterns and sector prospects for new business
- Additional data provided by affiliates of
  - Kakao Bank or KBank
    - Retail purchasing history from mobile phone
- Credit data provided by credit-scoring agencies
  - Employment and credit card usage history

<table>
<thead>
<tr>
<th>Credit score</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>Interest rate (percent)</td>
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<td>4.17</td>
<td>4.37</td>
<td>5.81</td>
<td>6.41</td>
<td>7.01</td>
<td>7.61</td>
<td>8.21</td>
<td>8.81</td>
<td>9.41</td>
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Of course, there are moves in the market to replace traditional credit rating methods and some companies are becoming passionate about using online data and social network activity data.

From Saving Money to Saving Value > Open Digital Assets

ex) World of Warcraft Gold (game item) deposit to the current checking account for digital assets
III. FORESTINGS Bank Credit Assessment Method

In addition to promoting credit rating through social activities, FORESTING Bank will introduce a credit rating structure according to its contribution assessment model, which only evaluates FORESTING platform contributions from FORESTING users. Every FORESTING user contributes to the growth of the FORESTING platform in a variety of forms, ranging from creating content to viewing, writing comments, and sharing content. Since the FORESTING platform’s blockchain technology offers the benefits of complete transparency through a highly integrated structure, all submissions and transactions appear on the blockchain through timestamps.

The FORESTING Bank collects the data shown on the FORESTING blockchain to measure the degree of connection, content creation, coin security, and the contribution to FORESTING’s growth. By doing so, the users who have opened accounts for each FORESTING Bank can check their platform contributions at any time, and can raise funds required to create content. In fact, we will transform this into a credit rating assessment based on the creation of values for users rather than on the credit rating assessment based on the financial histories provided by the traditional banks. Users can improve their credit ratings just by using SNS, and have an amazing experience with broader economic activities. Based on this, FORESTING Network will allow financial services that all users will be able to get access at anytime, anywhere.

In particular, the financial services offered by existing banks are based on income, money transactions, and credit ratings. Users will be able to fully focus on creating content through FORESTING by becoming ‘Influencers’ which had been difficult before due to economic difficulties such as self-employed or low income. This will lead to better content creation, enhance the quality of the content across the FORESTING platform, and ultimately lead to a virtuous circling structure that extends the rapid expansion and impact of the FORESTING platform.
4.3 The Financial Innovation is the Innovation of Society.

We believe that the core of financial innovation is not technology rather the attention to society, the perception of problems and the action to address them. With the role of FORESTING Bank for the FORESTING Network, the FORESTING Bank’s vision of our society is clear. FORESTING Bank will contribute to society through constant challenges and innovation to enhance economic freedom and the value of life for more people in our society. Citizens of Bangladesh had to pay back the interest they borrowed from loan sharks with what they earned working all day. Because of that, the large part of the population was unable to get out of poverty, and the economist Muhammad Yunus, who observed this, went to a bank in Bangladesh saying, “Why not lend money to the poor?”, where the bank responded, “We can not lend it to them because they do not have collateral.” Yunus established his own bank in 1976 which he set the condition that the less than 150 dollars could be checked out only by the bottom 25 percent without collateral and proof of identity. It was a micro-processing credit loan bank that lent money at low interest and then paid it back over a long period of time.

Now it is one of the largest banks in Bangladesh, borrowing 160 billion Dhaka (approx. 3.6 trillion won) with 1,117 branches across the country. Surprisingly, the annual repayment rate is higher than 90 percent on average since its establishment and if there is a bad credit rating at one branch, other borrowers also offer credit to each other on loan limits. With the money loaned, people could invest in carts, sewing machines, calves, and other necessities for their economic activities. Unexpectedly, the rate of recovery has reached 98 percent and citizens are now able to get out of poverty. For his work, Muhammad Yunus received the Nobel Peace Prize in 2006.

Financial innovation is never about capital and technology alone. It comes from the interest and love we have in the society. FORESTING Bank will work to develop financial services by challenging and innovating for small business owners, low-income workers, and vulnerable social groups, so that more people can continue to enjoy economic freedom and increase their value in life. We will provide innovative financial services for greater value, not just for capital and technology.
Chapter 5
PTON ECOSYSTEM
Leading the coin ecosystem to the next level
5.1 Value Model

The initial Foresting system is built on the ethereum network. As the project progresses, 24 billion PTON Tokens are swapped with the mPTON (tentative name) coins at a 1:1 rate after the mainnet launch. Foresting Bank and PTON credit which is a credit evaluation standard based on platform contributions in connection with content creation and curation, will operate Token Economy.

Prior to the Foresting mainnet launch, the rewards for content delivery until beta testing and operation of the master node are managed through the PTON Token payment assigned to the Reward Pool in Token Distribution. In addition, Foresting conducts projects faster, more efficiently and more fairly through the board program that encourages participation by third parties.

In this regard, the value model to be covered in this sector is an evaluation model for the Foresting network mainnet launch, The Factors for the development of the PTON value model is as follows.

\[
\begin{align*}
\text{Total Number of Coin} &= (a) \\
\text{Annual Return} &= \text{Inflation} = 6\% = (b) \\
\text{Content Reward} &= 75\% \text{ of } (b) = (c) \\
\text{Masternode Reward} &= 25\% \text{ of } (b) = (d) \\
\text{Daily Issued Coin} &= (b)/365 = (e) \\
\text{Users (optimistic)} &= (f) \\
\text{Users (conservative)} &= (f1) \\
\text{Users (pessimistic)} &= (f2) \\
\text{DAU (20\% of } (f)) &= (g) \\
\text{Like} &= \text{Voting ((g)*5)} = (h) \\
\text{Daily Issued Coin for Content Reward} &= ((c)/365) = (i) \\
\text{ILike} &= (x)\text{Coin} = (i)/(h) = (j) \\
\text{Daily Posted Contents} &= 20\% \text{ of } (g) = (k) \\
\text{Like per a Content} &= ((h)/(k)) = (l) \\
\text{Daily Content Reward per a Content} &= (j)/(l) = (m)
\end{align*}
\]
Factor (a) in the table above is mPTON (tentative name), which is exchanged 1:1 ratio with 24 billion existing PTON tokens while launching the mainnet. Afterwards, about 6% of coins are issued each year. As a result, (c) 4% of Annual Return (b) 6% is paid to the content creator and the Voting participant, and (d) 2% is paid to the Foresting network.

\[
\begin{align*}
(a) &= \text{Number of Issued Coin at the beginning} = X = 24,000,000,000 \\
(b) &= \text{Annual Return} = \text{Inflation Rate} = \text{Approximately 6\%} = (c) + (d) \\
(c) &= \text{Content Rewards} = 4\% \\
(d) &= \text{Masternode Rewards} = 2\%
\end{align*}
\]

Many blockchain projects are currently underway with PoS methods. In most projects, Annual Return is set to between 0.5% and 8%. In addition, the total amount of coin flows gradually increases over time. But the amount of tokens issued on a regular basis would be similar or equal in each time period, so the compensation paid to the Masternode operator is gradually reduced.

However, to maintain the Annual Return 6% rate, the Foresting network will increase the absolute publication amount in the same rate. For this reason, in a year after the mainnet launch, the total volume of PTON will increase by 6%. However, in 5 years the total PTON value would not increase by 30%, but 34%, from the initial point of entry.

\[
\begin{align*}
\text{After 1 Year} &= X + 0.06X = 1.06X = 25,440,000,000 \\
\text{After 5 Years} &= X(1.06)^5 = 1.34X = 32,117,413,862
\end{align*}
\]

Furthermore, although the compensation paid to the master node is 2%, the limited masternode(32-128 to be confirmed by further testing) will possess 25% of the total PTON revenue per annum. This allows to earn higher rewards compared to other PoS projects.
The following table shows the key indicators of five-year estimation regarding content creator compensation and platform expansion.

<table>
<thead>
<tr>
<th></th>
<th>Optimistic</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y1</td>
<td>Y2</td>
<td>Y3</td>
<td>Y4</td>
<td>Y5</td>
</tr>
<tr>
<td>User</td>
<td>10,000,000</td>
<td>36,000,000</td>
<td>60,800,000</td>
<td>84,500,000</td>
<td>105,600,000</td>
</tr>
<tr>
<td>DAU</td>
<td>2,000,000</td>
<td>7,200,000</td>
<td>12,160,000</td>
<td>16,900,000</td>
<td>21,120,000</td>
</tr>
<tr>
<td>Like</td>
<td>10,000,000</td>
<td>36,000,000</td>
<td>60,800,000</td>
<td>84,500,000</td>
<td>105,600,000</td>
</tr>
<tr>
<td>Daily Issued Coin for Content Reward</td>
<td>2,958,904</td>
<td>3,136,438</td>
<td>3,324,625</td>
<td>3,524,102</td>
<td>3,735,548</td>
</tr>
<tr>
<td>Daily Content Reward per a Content</td>
<td>7.4</td>
<td>2.18</td>
<td>1.37</td>
<td>1.04</td>
<td>0.88</td>
</tr>
<tr>
<td></td>
<td>Conservative</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y1</td>
<td>Y2</td>
<td>Y3</td>
<td>Y4</td>
<td>Y5</td>
</tr>
<tr>
<td>User</td>
<td>8,000,000</td>
<td>28,800,000</td>
<td>48,640,000</td>
<td>67,600,000</td>
<td>84,480,000</td>
</tr>
<tr>
<td>DAU</td>
<td>1,600,000</td>
<td>5,760,000</td>
<td>9,728,000</td>
<td>13,520,000</td>
<td>16,896,000</td>
</tr>
<tr>
<td>Like</td>
<td>8,000,000</td>
<td>28,800,000</td>
<td>48,640,000</td>
<td>67,600,000</td>
<td>84,480,000</td>
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<tr>
<td>Daily Issued Coin for Content Reward</td>
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<td>3,136,438</td>
<td>3,324,625</td>
<td>3,524,102</td>
<td>3,735,548</td>
</tr>
<tr>
<td>Daily Content Reward per a Content</td>
<td>9.25</td>
<td>2.72</td>
<td>1.71</td>
<td>1.30</td>
<td>1.11</td>
</tr>
<tr>
<td></td>
<td>Pessimistic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y1</td>
<td>Y2</td>
<td>Y3</td>
<td>Y4</td>
<td>Y5</td>
</tr>
<tr>
<td>User</td>
<td>5,000,000</td>
<td>18,000,000</td>
<td>30,400,000</td>
<td>42,250,000</td>
<td>52,800,000</td>
</tr>
<tr>
<td>DAU</td>
<td>1,000,000</td>
<td>3,600,000</td>
<td>6,080,000</td>
<td>8,450,000</td>
<td>10,560,000</td>
</tr>
<tr>
<td>Like</td>
<td>5,000,000</td>
<td>18,000,000</td>
<td>30,400,000</td>
<td>42,250,000</td>
<td>52,800,000</td>
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<tr>
<td>Daily Issued Coin for Content Reward</td>
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<td>3,324,625</td>
<td>3,524,102</td>
<td>3,735,548</td>
</tr>
<tr>
<td>Daily Content Reward per a Content</td>
<td>14.79</td>
<td>4.36</td>
<td>2.73</td>
<td>2.09</td>
<td>1.77</td>
</tr>
</tbody>
</table>

For the number of users (f), there are three expected indicators were entered: optimistic, conservative, and pessimistic. First of all, for optimistic forecasting, we apply Facebook’s user growth indicator from 2008 to 2012, which is the most popular social network since iPhone was introduced in 2007. The public impact of traditional SNS cannot be directly compared with that of blockchain-based social network services since the former have been spreading widely along with smartphones. Therefore, the market size of Foresting has been reduced by one-tenth. In addition, conservative (f1) and pessimistic (f2) users, will get discount rates of 20 % and 30 % respectively from optimistic (f) users. As a result, sub-index such as DAU(g) based on user counts are all changed for optimistic, conservative, and pessimistic accordingly to their circumstances.
In particular, there are 7.4 coins (f) that will be compensated per package in 2019. This structure reduces the number of coins that can be paid over time. However, this section should be considered in conjunction with the increase in the value of PTON coins which are not included in the factor above. For most content platforms, the value of the platform increases as multiple activity indicators, such as MAU, DAU, PV and ARPU increase. Despite the decrease in compensated coins per transaction, the value to be compensated can increase as the platform expands rapidly.

For (h) of the factors above, since the number of daily Voting is limited to 5 votings, (h) is 5 times of (g). Assuming the fact that all visitors participate only in the Voting, DAU is satisfactory by making up 20% of the total number of users.

We will also continue to disclose the weight of the content voting power, depending on the PTON Credit holdings, during the alpha and beta tests.

5.2. PTON Usage

PTON is a coin used in FORESTING. PTON’s market value determines the value of the reward pool for the participants that contribute to FORESTING. Unlike traditional mining methods, PTON is created by the contribution of participants to FORESTING. PTON guarantees that people who contribute to FORESTING benefit from the app.

PTON
[Phytoncide]

“A word referring to all of the sterile substances that plants in the forest produce.”

People enjoy mountain bathing because of Phytoncide. Phytoncide is a natural antimicrobial substance that is synthesized by Phyton (plant), which means “plant”, and Cide, which means “sterilizing power”. Phytoncide is sprayed by trees to protect themselves from pests and germs. It relieves stress and strengthens cardiopulmonary function. It has an effect of sterilizing action and suppresses the growth of house dust causing atopy. Phytoncide gives you a pleasant feeling by cleansing the air and you can get the effect of taking a mountain bath in the forest.
5.3. PTON Credit

PTON Credit has two features: a FORESTING token, bound by a Smart Contract and also represents the credit rating in which users are based on credit ratings for the use of financial services at FORESTING Bank, as described earlier in Chapter 2-4. This chapter will discuss the features of PTON Credit, which represents the level of impact the account has across the platform.

First, the number of PTON credits also means the total amount of ‘Like’ activity for that user. Thus, the higher the PTON credit your account has, the greater the impact it has on the ‘Like’ you will use. In addition, the profile screen for all accounts displays the numbers that represent the level of influence the user has on the account. The higher the PTON credit, the higher the number you’ll see in your account, which creates a competitive environment that is similar to a game. Specific PTON credit must be achieved in order to take advantage of certain features within the app, which encourages new users to commit to FORESTING in the long run.

5.4 “Like” Mechanism and Regulations

Visitors will initially have 5 Voting opportunities every day. You will also automatically participate in the rewards you get for the content you are voting. The policy that limit 5 Votes daily can be modified into different forms as the number of users and contents increase. For example, you can choose to click “Like” on a certain content with as many credits as you like. If a user presses ‘Like’ on a post with 100% (full power), that user will not be able to vote for other contents over the course of the day.

5.5 Compensation Payment Process

Rewards for all contents can be received at a certain time interval on a daily basis. Users can choose to receive 50% of their rewards for their contents, 50% for their PTON credits, or receive a full refund of their rewards to increase their “Like” power. Users and investors can convert the liquid asset and PTON into PTON Credit through the function of ‘Credit Up’.

PTON credits can not be sent or exchanged immediately, but holders can convert them into a PTON token on a weekly basis through a feature called “Credits Down”. When the credit is downloaded, the PTON token is paid to the user on a weekly basis, which is up to 1/13 of the total amount of the credits. As PTON credits decrease, the account loses ‘Like’ power in proportion to the amount of tokens withdrawn. The related mechanism is already running successfully on Steemit, and we will make additional updates during the Foresting platform testing period. We will also share it through additional whitepapers and communication channels as the update progresses.
5.6 Consensus Algorithm

I. Various Consensus Algorithms

After the invention of Bitcoin in 2009, the blockchain’s Proof of Work (PoW) consensus algorithm was introduced to the world for the first time and a variety of algorithms have been developed until now. PoW, which uses hash power of nodes, is widely being used. Recently, consensus algorithms, such as PoS, dPoW, dPoS and others have been developed and are under development.

II. PoW(Proof of Work)

PoW is a consensus algorithm used by Bitcoin. Being the simplest algorithm, it finds header hash as a result of SHA256 by using nonce value of the current block and difficulty of the previous block. This method prevents malicious block withholding attacks because it requires a lot of computing power to generate header hash of results specified in previous blocks. The advantage is that PoW ensures that the blockchain is protected clearly when the difficulty is high with sufficient hash rate of blockchain nodes. The downside is that it costs a lot to maintain a stable blockchain. Newly-generated blockchains that do not have sufficient computing power have an easy exposure to external pass-the-hash attacks. With the advent of a better sell and buy hash rate process with digital nomads, who generate high hash rates around the world, attacks on low hash rate blockchains have become easier.

III. PoS(Proof of Stake)

PoS is an consensus algorithm used by Dash. It is created to reduce the waste of equipment and electricity caused by the high hash rate of PoW. This is a cryptocurrency ownership method used to maintain the blockchain stability by a cryptocurrency proof process. The proof process assures to reward the real owner of cryptocurrency by screening fake blocks. PoS has an advantage in managing the blockchain with lower equipment and maintenance fees. The disadvantage is that the compensation rate on cryptocurrency used for staking in public blockchains is high which causes increasing inflation. As a result, ownership percentage of a specific cryptocurrency holder grows higher.

IV. dPoW(delayed Proof of Work)

It is an consensus algorithm used by KOMODO. Since it is easy to attack newly-generated blockchains with a common PoW consensus algorithm, dPoW is used to prevent attacks by inserting the hash results of bitcoins into the algorithm. 64 blocks are generated by PoW in a single group and monitored by nodes. The 65th block is then inserted as the bitcoin block header to demonstrate the stability of the previous 64 results. In this case, no pass-the-hash attack is higher than the bitcoin itself. Therefore, only the last 64 blocks belong to the group can be damaged with a pass-the-hash attack without affecting the other blockchains. Thus, stability for the entire blockchain can be established by applying an algorithm for the previous block.
V. dPoS(Delegated Proof of Stake)

dPoS is used in the EOS operating system. It solves problems of traditional PoW or PoS. Traditional PoW has a disadvantage of consuming too much resources and not being able to prevent attacks on new blockchains. PoS was originally designed to work on this issue. But the downside of PoS is that block generators are spread around the world, which means that the throughput rate per second decreases. To resolve this, dPoS allows only verified nodes, not any miner, to create a new block. Then the verified nodes are grouped into a faster cloud network. Consequently, the throughput rate rises up. However, hackers can easily attack the nodes rather than attacking the blockchain itself as the number of nodes is small and the targets are clear. At a disadvantage, dPos miners will dominate a higher number of tokens over time.

VI. Foresting's consensus Algorithm

Foresting is developing a mainnet with the advantages of multiple algorithms to minimize the weaknesses of the algorithms specified above and to highlight the Foresting's advantage. In order to provide Foresting service and platform, Foresting is improving the performance of PoS consensus algorithm which is advantageous for main-net management and development. Meanwhile, the algorithm of Foresting minimizes the discarded blocks that appear while creating blocks via Stake. It also boosts the synchronization speed and throughput rate among nodes. The throughput per second will be increased by minimizing the generated blocks by delayed node and the rate can be maximized by processing the stored data in the mempool or txpool separately that has not yet been up on the block. In addition to the traditional dPoS, the new system develops algorithms that can easily delegate unverified nodes even in mobile devices to fairly distribute tokens among the miners. This helps lessen the concentrated token retention on a small number of people and creates a wider user population.
Chapter 6
TECHNICAL CONSIDERATIONS
Solving technical difficulties for future aspects
6.1 Technical Architecture

The FORESTING consists of five main layers. The bottom layer consists of the Blockchain Toolkit for providing basic blockchain services such as block formats, algorithms, networks, databases, users, and permission management services. The Blockchain Toolkit enables fast, efficient multi-transaction processing, allowing users to expect high availability and low latency.

FORESTING Core is the layer responsible for key business logic implementations, rights and account management, reward distribution algorithms, community platforms, and advertising systems.

The Universal Application Programming Interface (UAPI) provides third-party developers with APIs for content creation, evaluation, and user management so that they can create their own layers of development on any platform with development capabilities.

Software Development Kit (SDK), Plug-ins, Sample Applications, and Development Documents support developers and users that desire to build their content platform. In particular, users can integrate the FORESTING Network directly into forums, blogs, and CMS using a set of plug-in devices.

The content platform that is based on the FORESTING Network is at the top. All types of content platforms, such as text, images, audio, video, and real-time broadcasting, can be provided with a content-oriented incentive platform supported by the FORESTING Network.

<table>
<thead>
<tr>
<th>Content Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SDKs/Plug-ins</strong></td>
</tr>
<tr>
<td><strong>Sample Applications</strong></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
</tr>
<tr>
<td><strong>Universal Application Programming Interface</strong></td>
</tr>
<tr>
<td><strong>Foresting Core</strong></td>
</tr>
<tr>
<td><strong>Blockchain Toolkit</strong></td>
</tr>
</tbody>
</table>
6.2 Two Layer Architecture and Lightweight Clients

The traditional Bitcoin approach uses a common transaction log to synchronize the distributed systems. This involves storing a full copy of the transaction history for each network node, because not all nodes are highly scalable. There are several ways to mitigate this, including simple payment authentication procedures that only allow the required data to be stored on a given node, the transaction of the blockchain (off-chain), and the two-way payment chain (payment tunnel).

In effect, a second layer architecture occurs.

It doesn’t inherently centralize the system. This is because the new node can enter the context network and become a complete node if there are sufficient resources.

Because light nodes can only trust the full nodes and become the victims of rogue full nodes, the new centralization is clearly a source of trust problems. However, there are ways to mitigate this: polling multiple nodes, maintaining a list of trusted nodes, and so on.

Light node of the FORESTING Network does not download blockchain at all, but instead it connects to the full node for billing authentication and network interaction.

The FORESTING Network imposes an approach that may seem extreme to traditional fixed-money advocates. This is because lighter nodes do not download any blockchain at all, and instead depend on the complete node for payment authentication and network interaction.
6.3 Light Node Implementation and Browser Plug-In

Light nodes are implemented as Google Chrome browser plug-ins that are written in JavaScript. Light Node interacts with the blockchain toolkit based full node, and the plug-in is installed in the Google Web Store. Since there are no blockchain for users to download, simply follow the installation procedures to get a blockchain based wallet with all the features.

WebAssembly is a web standard technology developed recently with the support of Microsoft, Google, and Apple. WebAssembly’s goal is to enable the browser to run unreliable high performance codes (level of native code). WebAssembly will change the game by enabling high-performance apps to run directly in the browser, such as videos, image editing, and games.

[Note : https://www.youtube.com/watch?v=MaJcfdmr9Wg]

WebAssembly provides integrated compile targets. As a result, any programming language can be compiled into WebAssembly. Currently, there are compilers for C, C++, and Rust, also projects are underway to compile Solidity (Ethereum Smart Contract Development Language) into WebAssembly.

Target the transplant to 1,000,000 tps and embedded IoT devices of the FORESTING platform as well as to develop VMs and smart contract language written in C.

6.4 Supports KYC, AML, Price Oraclized

FORESTING is a blockchain based social media that basically provides anonymity. At the same time, the Oracle’s nC, AML, price, and more will be provided for community users, developers, and content providers who want to trade transparently. The foundation is mobile devices (smartphone based), rather not for IT devices that do not have PC, other Subscription features or procedures.
6.5 Developer SDK

FORESTING Network will provide IDE to help develop new services and products using all assets. Also the FORESTING Network toolkits and api modules will be offered to eclipse, intelliJ, and atom editors by plugging in.

6.6 Technical Challenge

Scalability and availability difficulties have led to a competition among platforms such as Bitcoin, Bitshare, NXT, Steemit, Waves, Akasha, Ethereum, EOS, and Cosmos. EOS is trying to depart from the decentralization solution, and Ethereum is trying to solve this issue by keeping decentralization active, while Cosmos has taken an intermediate position by doing various experiments.

To improve scalability and availability, it is necessary to solve a synchronization problem that is difficult to implement in a P2P mesh distributed network, which is directly connected to the time sync. The network system time must be synchronized, and the protocol of the entire system must be operated according to the synchronized time. However, there has already been a proven system, implemented globally. Resulting in the most efficient cellular mobile communication system.

Throughout the history of IT, Apple has been able to provide ultra-high performance and a user-friendly UX/UI with optimized iOS over a single standardized device ranging from Apple computers, Macs, to iPhones. Microsoft has taken over the industry with Windows running on a standardized device called IBM PC, and Google has dominated the market by presenting H/W Requirements of Android to other smartphone manufacturers. In the blockchain industry, EOS may have taken advantages of another standard competition by presenting its Supernode and its specification out of decentralization.

Now, the algorithm of the blockchain agreement or the DApp competition is coming to an end, and the blockchain project leading to the advancement of scalability and availability will win the competition. The development and supply are necessary because the time for a system’s standardized device that is capable of generating consensus algorithms and blocks as well as spreading within the synchronized time has come.
Chapter 6  TECHNICAL CONSIDERATIONS

Foresting for Phone

Ubuntu OS is a Debian-based Linux distribution that has been used by many people around the world. In 2017, the “Ubuntu for Phone” and “Ubuntu Touch” project, which were highly anticipated and aimed at porting and operating on a global chain of smartphones, were unfortunately stranded. However, in the Foresting Network, to spread blockchain full-nodes in the mobile environment, the Foresting Network blockchain was considered, which operates on an embedded Linux-based phone. The Foresting Network blockchain also aims to become a blockchain project with a billion of full-nodes worldwide.

The preferred target phones will be Galaxy S9, Oneplus 5T, and Mate 10. We hope Custom Phones will also appear in the future.

6.7 BLE(Bluetooth Low Energy) nano H/W ledger

The standard H/W Wallet holding the private keys of a blockchain account in the Foresting Network will have a BLE interface and support Android and iOS at the same time. It strictly blocks the above modulation by supporting the blockchain related Secure Boot at the chip level.

It will be implemented by using ‘NT:52 (Nordic Thingy : 52)’, Bluetooth 5 Compatible Single-Board Bluetooth Low Energy Development Kit for wireless functionality straight from the cloud or smartphone apps from Nordic semi-conductor (www.nordicsemi.com).
6.8 QRNG (Quantum Random Number Generator)

The creation of a True Random Number in the cryptography is really important. However, due to the constraints of the actual economic transaction time, we are using Pseudo Random Numbers.

After Wang Xiaoyun, a female cryptographer at the Chinese Academy of Commerce University Information, released the study of “Collision for Hash” finding a single way password vulnerability in the current cryptology. On August 17, 2014, True Random Number became more significant.

The Foresting network recognized the challenge of building a decentralized and distributed community. The Foresting Network proposes a new method, QRNG, to add fundamental safety to the creation of a cryptocurrency address and to the transactions of bitcoins or tokens.

Since bitcoin created the signature algorithm by using digital signatures, it has been widely known and applied to all altcoins in transferring cryptocurrency.

Bitcoin uses a secp256k1 standard elliptical curve function (function) in the ECDSA (Elliptic Curve Digital Signature Algorithm) family, which is an unsynchronized key algorithm. The public key is expressed as the coordinates (x, y) of the elliptical curve function, and since the (x, y) was used in the Bitcoin client in the past, it can be expressed only with the value of x. This is called a compressed public key, and the latest version uses it to create addresses. If we call it PubKey, the formula for finding the cryptocurrency address hash is as follows.

\[
\text{PubKey hash}<20\text{bytes}/160\text{bits}> = \text{RIPEMD160}(\text{SHA256}(\text{PubKey}))
\]

\[
\text{bitcoin address} = \text{Base58CheckEncode}(\text{PubKey hash})
\]

* RIPEMD160 and SHA256 are hash functions

Therefore, the bitcoin address is based on the public key.

**Bitcoin Keys**

- **Random 256 bit private key**
- **256 bit public key with prefix**
- **160-bit public key hash**
- **WIF private key**
- **Address**
Therefore, generating addresses for all blockchains of bitcoin follows the procedure as below:

256-bit random number private key is generated. The private key is required to sign the transaction and send bitcoins. If the private key is not kept securely, there is a risk of stealing bitcoins.

The Elliptic Curve DSA algorithm generates a 256-bit public key from the private key (elliptical password will be discussed the later), which is used to verify the signature of the transaction. Ironically, the bitcoin protocol adds 04 to the public key. The public key is not released until the transaction is signed, which is different from what most other systems do.

The next step is to create a bitcoin address and share it with others. Because the 256-bit public key is large, you use the SHA-256 and RIPEMD hash algorithms to downgrade to 160 bits. The key is encoded in ASCII using Bitcoin Custom Base58Check Encoding. The final result will be the same value as 1KKKK6N21XKo48zWkuQKXdvSsCf95ibHFa and will be the address where people will notify you to receive bitcoins. The public and private keys can not be obtained from the address. If you lose your private key, you won’t be able to find the bitcoin.

Finally, the Wallet Import Format (WIF) is used for adding to the bitcoin core program. This is a base58Check encoding of the private key in ASCII and makes it easy to extract a 256-bit private key.

In summary, there are four types of keys: 1) private keys, 2) public keys, 3) hash of public keys, and 4) external keys with Base58check encoding. This is because the private key is a very important key, and it is necessary to generate bitcoins and other keys. The open key hash is a bitcoin address.

The following code manipulations are used to generate WIF formats and addresses. The private key is only a 256-bit random number. The ECDSA password library generates a public key from a private key. The Bitcoin address is created by a SHA-256 hash generator, RIPEMD-160 hash calculator, and by adding Base58 and Checksum. Finally, it encodes the private key to Base58Check and inserts it into the Bitcoin Core program.

We know the technology of the world of atoms and photons that go against intuition. We know that at each particle level, there is a whole new potential for quantum chance. Quantum Nonlocality presents a new possibility for secure, non-national distribution, which is based on non-national correlation. This is a technology using entanglement and quantum incommutativity, and the principle is based on the principle of uncertainty that was discovered in the early 20th century.

\[ \Delta x \Delta p \geq \frac{\hbar}{2} \]

We have the opportunity to use this technology in the core of the Foresting chain, and it is the H/W HD Walls of “Foresting for Phone” and the master nodes that support the Port.
Available Products

**QRNG - EYL [Suitable for Master Node]**

**Principle of Micro QRNG**
- Use alpha particles emitted by radioactive isotopes for a half-life.
- It follows uncertainty in terms of quantum mechanics and thus has full uncertainty.
- Produce random numbers that humans can not predict.
- Alpha particle → Diode collision → pulse generation
- Measure the time interval between pulses to generate random numbers.

**QRNG - SKT [Suitable for Mobile]**

**CONCEPT**
- LED
- OR Fibre
- Camera
- Extractor
- Random numbers
Chapter 6  TECHNICAL CONSIDERATIONS

QRNG - SWISS IDQ [Suitable for Master Node]

Quantis QRNG: USB

- 4Mbps of true quantum randomness
- Certified by Swiss National Laboratory
- USB 2.0 interface
- OS Support: Windows, Linux, Solaris, FreeBSD, MAC OS X
- Demo application

Quantis QRNG: PCIe 4Mb

- 4Mbps of true quantum randomness
- PCI Express interface
- Certified by Swiss National Laboratory
- OS Support: Windows, Linux, Solaris, FreeBSD
- Demo application

Quantis QRNG: PCIe 16Mb

- 16Mbps of true quantum randomness
- PCI Express interface
- Certified by Swiss National Laboratory
- OS Support: Windows, Linux, Solaris, FreeBSD
- Demo application
6.9 Technical Roadmap

## Content Platform

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<td><strong>Network Protocol</strong></td>
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</tbody>
</table>

### Tech-Roadmap 1

**Stage 1**
- Foresting.network Alpha Test Net
- Supernode make
- Wallet Sample

**Stage 2**
- Foresting.network Beta Test Net
- Masternode make
- Foresting.Block explorer
- Web Wallet
- Community Site First Edition
- Test issue of PTON token
- Test operation of PTON CREDIT and CASH

**Stage 3**
- Foresting.network Mainnet Launching
- Android, iOS Mobile Wallet (Light Client)
- Foresting for phone make and distribution
- BLE nano ledger make
- Foresting.scan info site
- Foresting.dashboard site
- Community Site Second Edition
- Proof Mechanism of Concept (PMC) for Like Voting
- PMC for Reward and echo system
- PMC Credit Evaluation

### Tech-Roadmap 2

**Foresting Bank launching**
- Ensuring the confidentiality of orders and transactions (porting mSNARKs)
- StableCoin issue or Pegging w/ DAI for value stability
- Acquire Liquidity and interoperate w/ Gateway(such as OpenANX)
- Make Foresting.Storage.node and distribute gadget
- Make first Foresting.Storage DApp and IDE SDK Release
- Community Site Third Edition release
- Make KYC,AML,Oraclization utility-chains
- Make Foresting.QRNG and release

### Tech-Roadmap 3

Make Foresting WASM Plug-ins for high transaction speed
- Use dPoS+modifiedPBFT Core Consensus Mechanism and Make Advanced for 1,000 transaction per second
- Use modifiedFBA and Make improvements for 250,000 transaction per second
- Use modifiedSharding and Make improvements for 1,000,000 transaction per second
- Community Site Forth Edition
- Make Foresting.Messenger.node and distribute gadget
- Make lightweight DApp repository
- Make IBC( Inter-Blockchain-Communication ) Interface hub and convertor DApp
- Project to Side-chain,Child-chain,utility chains
- Research HashLimit protocol and delayedPOW and make low-power miner
- Community Site Fifth Edition release
Chapter 7

PTON ISSUANCE

Counting down for important dates and numbers
7.1 ICO Planning

The PTON token will be issued as a total of 24,000,000,000 (24 billion) tokens with ERC-20, with 40% of the total token set for sale. ICO participants may receive the swap through the listed exchange wallet or the Foresting wallet after the launch of the Foresting mainnet.

General Information

<table>
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<th>Token name</th>
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<td>ERC-20</td>
<td>Initial PTON Token Sale</td>
<td>1ETH = TBD</td>
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Token Distribution

- Token Sale: 40%
- Team & Founder: 25%
- Partners: 10%
- Reserve: 5%
- Reward: 10%
- Advisors & Marketing: 10%
IMPORTANT: YOU MUST READ THE FOLLOWING DISCLAIMER IN FULL BEFORE CONTINUING

The FORESTING Protocol is intended to be maintained by Foresting HQ Pte. Ltd. and/or its affiliate(s). References in this Whitepaper to Foresting HQ Pte. Ltd. shall be deemed to include a reference to such affiliate(s).

The sale ("Token Sale") of FORESTING tokens ("Tokens") is only intended for, made for and directed towards, and to be acted upon by only the person(s) (a) who is not a citizen, domiciled, or resident of the United States of America or the People’s Republic of China (which for the purpose of these Terms, shall exclude the Hong Kong Special Administrative Region of the People’s Republic of China, the Macau Special Administrative Region of the People’s Republic of China, and the Republic of China) ("PRC"); and (b) outside the United States of America or PRC.

By accessing and/or accepting possession of any information in this Whitepaper or such part thereof (as the case may be), you represent and warrant to FORESTING Pte. Ltd. (Singapore Company Registration : 201816629Z) ("Forested HQ Pte. Ltd.") that:
(a) you are not an Excluded Person (as defined herein), or a citizen or resident of a country in which the token sale (as referred hereto in the Whitepaper ) has been prohibited;
(b) you agree to be bound by the limitations and restrictions described herein; and
(c) you acknowledge that this Whitepaper has been prepared for delivery to you so as to assist you in making a decision as to whether to purchase Tokens.

IMPORTANT INFORMATION

PLEASE READ THIS DISCLAIMER SECTION CAREFULLY. IF YOU ARE IN ANY DOUBT AS TO THE ACTION YOU SHOULD TAKE, YOU SHOULD CONSULT YOUR LEGAL, FINANCIAL, TAX OR OTHER PROFESSIONAL ADVISOR(S).

This Whitepaper in its current form is circulated by Foresting HQ Pte. Ltd. for general information and to invite participant feedback only on the FORESTING Protocol (the "FORESTING Protocol") and the Tokens as presently conceived, and is subject to review and revision by the directors and/or advisors of Foresting HQ Pte. Ltd. Please do not replicate or distribute any part of this Whitepaper without this section in accompaniment. The information set forth below may not be exhaustive and no part of this Whitepaper is intended to create legal relations between a recipient of this Whitepaper or to be legally binding or enforceable by such recipient against Foresting HQ Pte. Ltd. An updated version of this Whitepaper may be published at a later date and to be announced by Foresting HQ Pte. Ltd. in due course.
PLEASE READ THIS SECTION AND THE FOLLOWING SECTIONS ENTITLED “DISCLAIMER OF LIABILITY”, “NO REPRESENTATIONS AND WARRANTIES”, “REPRESENTATIONS AND WARRANTIES BY YOU”, “CAUTIONARY NOTE ON FORWARD-LOOKING STATEMENTS”, “THIRD PARTY INFORMATION AND NO CONSENT OF OTHER PERSONS”, “TERMS USED”, “NO ADVICE”, “NO FURTHER INFORMATION OR UPDATE”, “RESTRICTIONS ON DISTRIBUTION AND DISSEMINATION”, “NO OFFER OF INVESTMENT OR REGISTRATION” AND “RISKS AND UNCERTAINTIES” CAREFULLY. IF YOU ARE IN ANY DOUBT AS TO THE ACTION YOU SHOULD TAKE, YOU SHOULD CONSULT YOUR LEGAL, FINANCIAL, TAX OR OTHER PROFESSIONAL ADVISOR(S).

While we make every effort to ensure that any material in this Whitepaper is accurate and up to date, such material in no way constitutes the provision of professional advice. Foresting HQ Pte. Ltd. does not guarantee, and accepts no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency, or completeness of any material contained in this Whitepaper. Participants and potential Token holders should seek appropriate independent professional advice prior to relying on, or entering into any commitment or transaction based on, material published in this Whitepaper, which has been is purely published for reference purposes alone.

The Tokens subject of the Pre-Initial Token Sale and Initial Token Sale are proprietary cryptographic tokens issued and sold by Foresting HQ Pte. Ltd. ("Issuer"). The Token will function as the native universal utility token used in the FORESTING Protocol as the means of value exchange and to power the FORESTING Protocol.

The Tokens are not intended to constitute securities of any form, units in a business trust, units in a collective investment scheme or any other form of regulated investment or investment product in any jurisdiction. This Whitepaper does not constitute a prospectus or offer document of any sort and is not intended to constitute an offer of securities of any form, units in a business trust, units in a collective investment scheme or any other form of regulated investment or investment product, or a solicitation for any form of regulated investment or investment product in any jurisdiction.

No regulatory authority has examined or approved of any of the information set out in this Whitepaper. No such action has been or will be taken by Foresting HQ Pte. Ltd. and/or Issuer to obtain such approval under the laws, regulatory requirements or rules of any jurisdiction. The provision of this Whitepaper to you does not imply that the applicable laws, regulatory requirements or rules have been complied with.

This Whitepaper does not constitute or form part of any opinion on any advice to purchase, sell or otherwise transact with Tokens and the fact of presentation of this Whitepaper shall not form the basis of, or be relied upon in connection with, any contract of investment decision.
THE TOKEN SALE (AS REFERRED TO HEREIN) IS INTENDED FOR, MADE TO OR DIRECTED AT ONLY PERSONS OUTSIDE THE UNITED STATES OF AMERICA OR THE PRC AND MAY BE ACTED UPON ONLY BY PERSONS OUTSIDE THE UNITED STATES OF AMERICA OR THE PRC. ACCORDINGLY, YOU ARE NOT ELIGIBLE AND YOU ARE NOT TO PURCHASE ANY TOKENS IN THE TOKEN SALE IF YOU ARE:

(A) A CITIZEN, DOMICILED IN, OR RESIDENT OF THE UNITED STATES OF AMERICA OR THE PRC;
(B) LOCATED IN THE UNITED STATES OF AMERICA OR THE PRC AT THE TIME OF YOUR WHITELISTING FOR AND INTENDED PURCHASE OF OR PURCHASE OF TOKENS IN THE TOKEN SALE;
(C) LOCATED IN A JURISDICTION WHERE THE TOKEN SALE IS PROHIBITED, RESTRICTED OR UNAUTHORISED IN ANY FORM OR MANNER WHETHER IN FULL OR IN PART UNDER THE LAWS, REGULATORY REQUIREMENTS OR RULES IN SUCH JURISDICTION; OR
(D) A PERSON WHO IS OTHERWISE PROHIBITED OR INELIGIBLE IN ANY WAY, WHETHER IN FULL OR IN PART, FROM PARTICIPATING IN ANY PART OF THE TRANSACTIONS CONTEMPLATED IN THE TOKEN SALE TERMS (AS DEFINED BELOW),
(COLLECTIVELY, “EXCLUDED PERSONS”).

For the purpose of this Whitepaper, to be “Whitelisted” means to be identified to be eligible to participate in the Token Sale by the Issuer, subject to satisfactory know-your-client and anti-money laundering and counter financing of terrorism checks conducted in connection therewith, or such other criteria as may be imposed by the Issuer in connection therewith at its sole and absolute discretion.

No Token should be construed, interpreted, classified or treated as enabling, or according any opportunity to, purchasers to participate in or receive profits, income, or other payments or returns arising from or in connection with the FORESTING Protocol or the Tokens or the proceeds of the Token Sale, or to receive sums paid out of such profits, income, or other payments or returns.

No person is bound to enter into any contract or binding legal commitment in relation to the sale and purchase of the Tokens, and no cryptocurrency or other form of payment is to be accepted on the basis of this Whitepaper.

Any agreement as between Issuer and you as a purchaser, and in relation to any sale and purchase, of Tokens is to be governed by only a separate document setting out the terms and conditions (the “Token Sale Terms”) of such agreement. In the event of any inconsistencies between the Token Sale Terms and this Whitepaper, the former shall prevail.

There are risks and uncertainties associated with Foresting HQ Pte. Ltd., the Issuer and their business and operations, the Tokens, the FORESTING Protocol, and the Token Sale. Please refer to the section entitled “Risks and Disclosures” set out at the end of this Whitepaper.

This Whitepaper, any part thereof and any copy thereof must not be taken or transmitted to any country where distribution or dissemination of this Whitepaper is prohibited or restricted.
No part of this Whitepaper is to be reproduced, distributed or disseminated without including this section and the following sections entitled "Disclaimer of Liability", "No Representations and Warranties", "Representations and Warranties By You", "Cautionary Note On Forward-Looking Statements", "Third Party Information and No Consent of Other Persons", "Terms Used", "No Advice", "No Further Information or Update", "Restrictions On Distribution and Dissemination" and "Risks and Uncertainties".

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REPRESENTATIONS AND WARRANTIES BY YOU

By accessing and/or accepting possession of any information in this Whitepaper or such part thereof (as the case may be), you represent and warrant to Foresting HQ Pte. Ltd. as follows:

(a) you agree and acknowledge that the Tokens do not constitute securities of any form, units in a business trust, units in a collective investment scheme or any other form of regulated investment or investment product in any jurisdiction;

(b) you are not an Excluded Person, or a citizen or resident of a country the laws of which prohibit or conflict with the Token Sale or your participation in the Token Sale;

(c) you are not located in a jurisdiction where the Token Sale is prohibited, restricted or unauthorised in any form or manner whether in full or in part under the laws, regulatory requirements or rules in such jurisdiction;

(d) you are not a person who is otherwise prohibited or ineligible in any way, whether in full or in part, from participating in any part of the transactions contemplated in the Token Sale Terms;
(e) you agree and acknowledge that this Whitepaper does not constitute a prospectus or offer document of any sort and is not intended to constitute an offer of securities of any form, units in a business trust, units in a collective investment scheme or any other form of regulated investment or investment product in any jurisdiction, or a solicitation for any form of regulated investment or investment product, and you are not bound to enter into any contract or binding legal commitment and no cryptocurrency or other form of payment is to be accepted on the basis of this Whitepaper;

(f) you acknowledge and understand that no Token should be construed, interpreted, classified or treated as enabling, or according any opportunity to, Token holders to participate in or receive profits, income, or other payments or returns arising from or in connection with the Tokens or the proceeds of the Token Sale, or to receive sums paid out of such profits, income, or other payments or returns;

(g) you agree and acknowledge that no regulatory authority has examined or approved of the information set out in this Whitepaper, no action has been or will be taken by Foresting HQ Pte. Ltd. to obtain such approval under the laws, regulatory requirements or rules of any jurisdiction and the publication, distribution or dissemination of this Whitepaper to you does not imply that the applicable laws, regulatory requirements or rules have been complied with;

(h) you agree and acknowledge that this Whitepaper, the undertaking and/or the completion of the Token Sale, or future trading of Tokens on any cryptocurrency exchange, shall not be construed, interpreted or deemed by you as an indication of the merits of Foresting HQ Pte. Ltd., the Tokens, the Token Sale, and the FORESTING Protocol;

(i) The distribution or dissemination of this Whitepaper, any part thereof or any copy thereof, or acceptance of the same by you, is not prohibited or restricted by the applicable laws, regulations or rules in your jurisdiction, and where any restrictions in relation to possession are applicable, you have observed and complied with all such restrictions at your own expense and without liability to Foresting HQ Pte. Ltd.;

(j) you agree and acknowledge that in the case where you wish to purchase any Tokens, Tokens are not to be construed, interpreted, classified or treated as:

(i) any kind of currency other than cryptocurrency;

(ii) debentures, stocks or shares issued by any person or entity;

(iii) rights, options or derivatives in respect of such debentures, stocks or shares;
(iv) rights under a contract for differences or under any other contract the purpose or pretended purpose of which is to secure a profit or avoid a loss;

(v) securities;

(vi) units or derivatives of units in a business trust;

(vii) units in a collective investment scheme; or

(viii) any form of regulated investment or investment product;

(k) you are fully aware of and understand that you are not eligible and you are not to purchase any Tokens if you are an Excluded Person;

(l) you are legally permitted to participate in the Token Sale and all actions contemplated or associated with such purchase, including the holding and use of Tokens;

(m) the amounts that you use to purchase Tokens were not and are not directly or indirectly derived from any activities that contravene the laws and regulations of any jurisdiction, including anti-money laundering laws and regulations;

(n) if you are a natural person, you are of sufficient age and capacity under the applicable laws of the jurisdiction in which you reside and the jurisdiction of which you are a citizen to participate in the Token Sale;

(o) you are not obtaining or using Tokens for any illegal purpose; (p) neither:

(i) yourself;

(ii) any person who is controlling or is controlled by you;

(iii) if you are a privately-held entity, any person who has a beneficial interest in you(relevant only to privately held entities); or

(iv) any person for whom you are acting as an agent or nominee in connection with this Token Sale,

is a senior foreign political figure, or any immediate family member or close associate of a senior foreign political figure.
A “senior foreign political figure” is defined as a senior official in the executive, legislative, administrative, military or judicial branch of a government (whether elected or not), a senior official of a major political party, or a senior executive of a foreign government-owned corporation, and includes any corporation, business or other entity that has been formed by, or for the benefit of, a senior foreign political figure.

“Immediate family” of a senior foreign political figure typically includes such figure’s parents, siblings, spouse, children and in-laws.

A “close associate” of a senior foreign political figure is a person who is widely and publicly known to maintain an unusually close relationship with such senior foreign political figure, and includes a person who is in a position to conduct substantial domestic and international financial transactions on behalf of such senior foreign political figure;

(p) if you are affiliated with a non-U.S. banking institution (“Foreign Bank”), or if you receive deposits from, make payments on behalf of, or handle other financial transactions related to a Foreign Bank, you represent and warrant to Foresting HQ Pte. Ltd. that:

(i) the Foreign Bank has a fixed address, and not solely an electronic address, in a country in which the Foreign Bank is authorised to conduct banking activities;

(ii) the Foreign Bank maintains operating records related to its banking activities;

(iii) the Foreign Bank is subject to inspection by the banking authority that licensed the Foreign Bank to conduct its banking activities; and

(iv) the Foreign Bank does not provide banking services to any other Foreign Bank that does not have a physical presence in any country and that is not a regulated affiliate;

(q) you have a basic degree of understanding of the operation, functionality, usage, storage, transmission mechanisms and other material characteristics of cryptocurrencies, blockchain-based software systems, cryptocurrency wallets or other related token storage mechanisms, blockchain technology and smart contract technology;

(r) you are fully aware and understand that in the case in which you wish to purchase any Tokens, there are risks associated with Foresting HQ Pte. Ltd. and its businesses and operations, the Tokens, the FORESTING Protocol and the Token Sale;
(t) you bear the sole responsibility to determine what tax implications purchasing Tokens may have for you and agree not to hold Foresting HQ Pte. Ltd. or any other person involved in the Token Sale liable for any tax liability associated with or arising therefrom;

(u) you agree and acknowledge that Foresting HQ Pte. Ltd. and/or any person involved in the Token Sale and/or with the creation and distribution of Tokens or the FORESTING Protocol, is not liable for any direct, indirect, special, incidental, consequential or other losses of any kind, in tort, contract or otherwise (including but not limited to loss of revenue, income or profits, and loss of use or data), arising out of or in connection with any acceptance of or reliance on this Whitepaper or any part thereof by you;

(v) you waive the right to participate in a class action lawsuit or a class wide arbitration against Foresting HQ Pte. Ltd. and/or any person involved in the Token Sale and/or with the creation and distribution of Tokens or the FORESTING Protocol; and

(w) all of the above representations and warranties are true, complete, accurate and non-misleading from the time of your access to and/or acceptance of possession of this Whitepaper or such part thereof (as the case may be).

CAUTIONARY NOTE ON FORWARD-LOOKING STATEMENTS

All statements contained in this Whitepaper , statements made in press releases or in any place accessible by the public and oral statements that may be made by Foresting HQ Pte. Ltd. or its directors, executive officers or employees acting on behalf of Foresting HQ Pte. Ltd. (as the case may be), that are not statements of historical fact, constitute “forward-looking statements”. Some of these statements can be identified by forward-looking terms such as “aim”, “target”, “anticipate”, “believe”, “could”, “estimate”, “expect”, “if”, “intend”, “may”, “plan”, “possible”, “probable”, “project”, “should”, “would”, “will” or other similar terms. However, these terms are not the exclusive means of identifying forward-looking statements. All statements regarding Foresting HQ Pte. Ltd.’s business strategies, plans and prospects and the future prospects of the industry which Foresting HQ Pte. Ltd. is in, are forward-looking statements. These forward-looking statements, which include but are not limited to statements as to Foresting HQ Pte. Ltd.’s prospects, future plans, other expected industry trends and other matters discussed in this Whitepaper regarding Foresting HQ Pte. Ltd. are matters that are not historic facts, but only predictions.
These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual future results, performance or achievements of Foresting HQ Pte. Ltd. to be materially different from any future results, performance or achievements expected, expressed or implied by such forward-looking statements. These factors include, amongst others:

(a) changes in the political, social, and economic landscape, and the stock or cryptocurrency market conditions, and the regulatory environment in the countries in which Foresting HQ Pte. Ltd. conducts its business and operations;

(b) the risk that Foresting HQ Pte. Ltd. may be unable to execute or implement its business strategies and future plans;

(c) changes in interest rates and exchange rates of fiat currencies and cryptocurrencies;

(d) changes in the anticipated growth strategies and expected internal growth of Foresting HQ Pte. Ltd. and the FORESTING Protocol;

(e) changes in the availability and fees payable to Foresting HQ Pte. Ltd. in connection with its businesses and operations or on the FORESTING Protocol;

(f) changes in the availability and salaries of employees who are required by Foresting HQ Pte. Ltd. to operate their respective businesses and operations;

(g) changes in preferences of users of the FORESTING Protocol;

(h) changes in competitive conditions under which Foresting HQ Pte. Ltd. operates, and the ability of Foresting HQ Pte. Ltd. to compete under such conditions;

(i) changes in the future capital needs of Foresting HQ Pte. Ltd. and the availability of financing and capital to fund such needs;

(j) war or acts of international or domestic terrorism;

(k) occurrences of catastrophic events, natural disasters and acts of God that affect the businesses and/or operations of Foresting HQ Pte. Ltd.;

(l) other factors beyond the control of Foresting HQ Pte. Ltd.; and

(m) any risk and uncertainties associated with Foresting HQ Pte. Ltd. and its business and operations, the Tokens, the FORESTING Protocol and the Token Sale.
All forward-looking statements made by or which are attributable to Foresting HQ Pte. Ltd. or persons acting on behalf of Foresting HQ Pte. Ltd. are expressly qualified in their entirety by such factors. Given that risks and uncertainties that may cause the actual future results, performance or achievements of Foresting HQ Pte. Ltd. could be materially different from what has been expected, expressed or implied by the forward-looking statements in this Whitepaper, undue reliance must not be placed on these statements. These forward-looking statements are applicable only as of the date of this Whitepaper.

Neither Foresting HQ Pte. Ltd. nor any other person represents, warrants, and/or undertakes that the actual future results, performance or achievements of Foresting HQ Pte. Ltd. will be as discussed in those forward-looking statements. The actual results, performance or achievements of Foresting HQ Pte. Ltd. may differ materially from those anticipated in these forward-looking statements.

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TERMS USED

To facilitate a better understanding of the Tokens being offered for purchase by Foresting HQ Pte. Ltd., and the businesses and operations of Foresting HQ Pte. Ltd., certain technical terms and abbreviations, as well as, in certain instances, their descriptions, have been used in this Whitepaper. These descriptions and assigned meanings should not be treated as being definitive of their meanings and may not correspond to standard industry meanings or usage.

Words importing the singular shall, where applicable, include the plural and vice versa and words importing the masculine gender shall, where applicable, include the feminine and neutral genders and vice versa. References to persons shall include corporations.
NO ADVICE
No information in this Whitepaper should be considered to be business, legal, financial or tax advice regarding Foresting HQ Pte. Ltd., the Tokens, the FORESTING Protocol, or the Token Sale. You should consult your own legal, financial, tax or other professional advisor regarding Foresting HQ Pte. Ltd. and its business and operations, the Tokens, the FORESTING Protocol, and the Token Sale. You should be aware that you may be required to bear the financial risk of any exchange of Tokens for an indefinite period of time.
None of the advisors engaged by us has made or purports to make any statement in this Whitepaper or any statement upon which a statement in this Whitepaper is based and each of them makes no representation regarding any statement in this Whitepaper and to the maximum extent permitted by law, expressly disclaims and takes no responsibility for any liability to any person which is based on, or arises out of, any statement, information or opinions in, or omission from, this Whitepaper.

NO FURTHER INFORMATION OR UPDATE
No person has been or is authorised to give any information or representation not contained in this Whitepaper in connection with Foresting HQ Pte. Ltd. and its business and operations, the Tokens, the FORESTING Protocol, or the Token Sale and, if given, such information or representation must not be relied upon as having been authorised by or on behalf of Foresting HQ Pte. Ltd.. The Token Sale shall not, under any circumstances, constitute a continuing representation or create any suggestion or implication that there has been no change, or development reasonably likely to involve a material change in the affairs, conditions and prospects of Foresting HQ Pte. Ltd. or in any statement of fact or information contained in this Whitepaper since the date hereof.

RESTRICTIONS ON DISTRIBUTION AND DISSEMINATION
The distribution or dissemination of this Whitepaper or any part thereof may be prohibited or restricted by the laws, regulatory requirements and rules of any jurisdiction. In the case where any restriction applies, you are to inform yourself about, and to observe, any restrictions which are applicable to your possession of this Whitepaper or such part thereof (as the case may be) at your own expense and without liability to Foresting HQ Pte. Ltd.
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This Whitepaper does not constitute a prospectus or offer document of any sort and is not intended to constitute an offer of securities of any form, units in a business trust, units in a collective investment scheme or any other form of investment, or a solicitation for any form of investment in any jurisdiction. No person is bound to enter into any contract or binding legal commitment and no cryptocurrency or other form of payment is to be accepted on the basis of this Whitepaper.

THE TOKEN SALE (AS REFERRED TO HEREIN) IS INTENDED FOR, MADE TO OR DIRECTED AT ONLY PERSONS WHO ARE NOT EXCLUDED PERSONS
No regulatory authority has examined or approved of any of the information set out in this Whitepaper. No such action has been or will be taken under the laws, regulatory requirements or rules of any jurisdiction. The publication, distribution or dissemination of this Whitepaper does not imply that the applicable laws, regulatory requirements or rules have been complied with.

RISKS AND UNCERTAINTIES
Prospective purchasers of Tokens should carefully consider and evaluate all risks and uncertainties associated with the Issuer and Foresting HQ Pte. Ltd., and their business and operations, the Tokens, the FORESTING Protocol, and the Token Sale, and all information set out in this Whitepaper and the Token Sale Terms prior to any purchase of the Tokens. If any of such risks and uncertainties develops into actual events, the business, financial condition, results of operations and prospects of the Issuer could be materially and adversely affected. In such cases, you may lose all or part of the value of the Tokens.
Please read the following risks and warnings before deciding to purchase Tokens. It should be noted the following list of risks and warnings is not exhaustive. Accordingly, prospective purchasers should not place undue reliance on these statements.

1.
RISKS RELATING TO PARTICIPATION IN THE TOKEN SALE
The Issuer may be forced to cease operations
It is possible that, due to any number of reasons, including, but not limited to, an unfavorable fluctuation in the value of cryptographic and fiat currencies, the inability of the Issuer to establish the Project or the Token’s utility, the failure of commercial relationships, or intellectual property ownership challenges, the Issuer may no longer be viable to operate and the Issuer may dissolve or take actions that result in a dissolution of the Issuer.
There is no prior market for the Tokens and the Token Sale may not result in an active or liquid market for the Tokens.
Prior to the Token Sale, there has been no public market for the Tokens. In the event that the Tokens are traded on a cryptocurrency exchange, there is no assurance that an active or liquid trading market for the Tokens will develop or if developed, be sustained after the Tokens have been made available for trading on such cryptocurrency exchange. There is also no assurance that the market price of the Tokens will not decline below the purchase price of the Tokens (the “Purchase Price”). The Purchase Price may not be indicative of the market price of the Tokens after they have been made available for trading on a cryptocurrency exchange.

A Token is not a currency issued by any central bank or national, supra-national or quasi-national organisation, nor is it backed by any hard assets or other credit. The Issuer is not responsible for nor does it pursue the circulation and trading of Tokens on the market. Trading of Tokens merely depends on the consensus on its value between the relevant market participants, and no one is obliged to purchase any Token from any holder of the Token, including the purchasers, nor does anyone guarantee the liquidity or market price of Tokens to any extent at any time. Accordingly, the Issuer cannot ensure that there will be any demand or market for Tokens, or that the Purchase Price is indicative of the market price of Tokens after they have been made available for trading on a cryptocurrency exchange.

Future sales of the Tokens could materially and adversely affect the market price of Tokens
Any future sale of the Tokens (which were not available for sale in the Token Sale) would increase the supply of Tokens in the market and this may result in a downward price pressure on the Token. The sale or distribution of a significant number of Tokens outside of the Token Sale, or the perception that such further sales or issuance may occur, could adversely affect the trading price of the Tokens.

Negative publicity may materially and adversely affect the price of the Tokens
Negative publicity involving the Issuer, the FORESTING Protocol, the Tokens or any of the key personnel of the Issuer may materially and adversely affect the market perception or market price of the Tokens, whether or not such negative publicity is justified.

There is no assurance of any success of the FORESTING Protocol
The value of, and demand for, the Tokens hinges heavily on the performance of the FORESTING Protocol. There is no assurance that the FORESTING Protocol will gain traction after its launch and achieve any commercial success.

The FORESTING Protocol has not been fully developed, finalised and integrated and is subject to further changes, updates and adjustments prior to its launch. Such changes may result in unexpected and unforeseen effects on its projected appeal to users, and hence impact its success.
While the Issuer has made every effort to provide a realistic estimate, there is also no assurance that the cryptocurrencies raised in the Token Sale will be sufficient for the development and integration of the FORESTING Protocol. For the foregoing or any other reason, the development and integration of the FORESTING Protocol may not be completed and there is no assurance that it will be launched at all. As such, distributed Tokens may hold little worth or value, and this would impact its trading price.

If and when the FORESTING Protocol is fully developed, there is no assurance it will be widely adopted or utilised by its target users.

The trading price of the Tokens may fluctuate following the Token Sale

The prices of cryptographic tokens in general tend to be relatively volatile, and can fluctuate significantly over short periods of time. The demand for, and correspondingly the market price of, the Tokens may fluctuate significantly and rapidly in response to, among others, the following factors, some of which are beyond the control of the Issuer:

(a) new technical innovations;

(b) analysts’ speculations, recommendations, perceptions or estimates of the Token’s market price or the Issuer’s financial and business performance;

(c) changes in market valuations and token prices of entities with operations similar to that of the Issuer that may be made available for sale and purchase on the same cryptocurrency exchanges as the Tokens;

(d) announcements by the Issuer of significant events, for example partnerships, sponsorships, new product developments;

(e) fluctuations in market prices and trading volume of cryptocurrencies on cryptocurrency exchanges;

(f) additions or departures of key personnel of the Issuer;

(g) success or failure of the Issuer’s management in implementing business and growth strategies; and

(h) changes in conditions affecting the blockchain or financial technology industry, the general economic conditions or market sentiments, or other events or factors.
The funds raised in the Token Sale are exposed to risks of theft. The Issuer will make every effort to ensure that the funds received from the Token Sale will be securely held at such address as directed by the Issuer (“Receiving Address”). Further, upon receipt of the funds, the Issuer will make every effort to ensure that the funds received will be securely held through the implementation of security measures. Notwithstanding such security measures, there is no assurance that there will be no theft of the cryptocurrencies as a result of hacks, mining attacks (including but not limited to double-spend attacks, majority mining power attacks and "selfish-mining" attacks), sophisticated cyber-attacks, distributed denials of service or errors, vulnerabilities or defects on the Receiving Address, the FORESTING blockchain, or any other blockchain, or otherwise. Such events may include, for example, flaws in programming or source code leading to exploitation or abuse thereof. In such an event, even if the Token Sale is completed, the Issuer may not be able to receive the cryptocurrencies raised and the Issuer may not be able to utilise such funds for the development of the FORESTING Protocol, and the launch of the FORESTING Protocol might be temporarily or permanently curtailed. As such, the issued Tokens may hold little worth or value, and this would impact its trading price. The Tokens are uninsured, unless you specifically obtain private insurance to insure them. In the event of any loss or loss of value, you may have no recourse.

2. RISKS RELATING TO THE RECEIVING ADDRESS AND WALLETS
The Receiving Address may be compromised and the cryptocurrencies may not be able to be disbursed.

The Receiving Address is designed to be secure. However, in the event that the Receiving Address is, for any reason compromised (including but not limited to scenarios of the loss of keys to such Receiving Address), the funds held by the Receiving Address may not be able to be retrieved and disbursed, and may be permanently unrecoverable. In such an event, even if the Token Sale is successful, the Issuer will not be able to receive the funds raised and the Issuer will not be able to utilise such funds for the development of the FORESTING Protocol, and the implementation of the FORESTING Protocol might be temporarily or permanently curtailed. As such, distributed Tokens may hold little worth or value, and this would impact its trading price.

The loss or compromise of information relating to your wallet may affect your access and possession of the Tokens.

Your access to the Tokens in a cryptocurrency wallet (“Wallet”) depends on, among other things, the safeguards to the information to such Wallet, including but not limited to the user account information, address, private key, and password. In the event that any of the foregoing is lost or compromised, your access to the Wallet may be curtailed and thereby adversely affecting your access and possession to the Tokens, including such Tokens being unrecoverable and permanently lost.

The Wallet or Wallet service provider may not be technically compatible with the Tokens. If Wallet or Wallet service provider may not be technically compatible with the Tokens, this may result in the delivery of Tokens being unsuccessful or affect your access to such Tokens.
3. RISKS RELATING TO Foresting HQ Pte. Ltd.

The FORESTING Protocol is intended to be operated and maintained by Foresting HQ Pte. Ltd. Any events or circumstances which adversely affect Foresting HQ Pte. Ltd. may have a corresponding adverse effect on the FORESTING Protocol if such events or circumstances affect Foresting HQ Pte. Ltd.’s ability to maintain the FORESTING Protocol. This would correspondingly have an impact on the trading price of the Tokens.

Foresting HQ Pte. Ltd. may be materially and adversely affected if it fails to effectively manage its operations as its business develops and evolves, which would have a direct impact on its ability to maintain the FORESTING Protocol and consequently the trading price of the Tokens.

The financial technology and cryptocurrency industries, and the markets in which Foresting HQ Pte. Ltd. competes, have grown rapidly and continue to grow rapidly and evolve in response to new technological advances, changing business models and other factors. As a result of this constantly changing environment, Foresting HQ Pte. Ltd. may face operational difficulties in adjusting to the changes, and the sustainability of Foresting HQ Pte. Ltd. will depend on its ability to manage its operations, adapt to technological advances and market trends and ensure that it hires qualified and competent employees, and provide proper training for its personnel.

As its business evolves, Foresting HQ Pte. Ltd. must also expand and adapt its operational infrastructure. Foresting HQ Pte. Ltd.’s business relies on its blockchain-based software systems, cryptocurrency wallets or other related token storage mechanisms, blockchain technology and smart contract technology, and to manage technical support infrastructure for the FORESTING Protocol effectively, Foresting HQ Pte. Ltd. will need to continue to upgrade and improve its data systems and other operational systems, procedures and controls. These upgrades and improvements will require a dedication of resources, which are likely to be complex and increasingly rely on hosted computer services from third parties that Foresting HQ Pte. Ltd. does not control. If Foresting HQ Pte. Ltd. is unable to adapt its systems and organization in a timely, efficient and cost-effective manner to accommodate changing circumstances, its business, financial condition and results of operations may be adversely affected. If the third parties whom Foresting HQ Pte. Ltd. relies on are subject to a security breach or otherwise suffer disruptions that impact the services Foresting HQ Pte. Ltd. utilises, the integrity and availability of its internal information could be compromised, which may consequently cause the loss of confidential or proprietary information, and economic loss.

The loss of financial, labor or other resources, and any other adverse effect on Foresting HQ Pte. Ltd.’s business, financial condition and operations, would have a direct adverse effect on Foresting HQ Pte. Ltd.’s ability to maintain the FORESTING Protocol. As the FORESTING Protocol is the main product to which the Tokens relate, this may adversely impact the trading price of the Tokens.
There may be weaknesses, vulnerabilities or bugs in the FORESTING smart contract. Foresting HQ Pte. Ltd. will make reasonable efforts to ensure that the smart contracts underlying the Tokens are audited, tested and approved by technical experts. However, as smart contract technology is still in its early stage of development and its application of experimental nature carries significant operational, technological, financial, regulatory and reputational risks, there are inherent risks that such smart contracts could contain weaknesses, vulnerabilities or bugs.

Purchasers of Tokens should understand and accept that there are no warranties that Tokens are fit for a particular purpose or do not contain any weaknesses, vulnerabilities or bugs which would cause a loss in their worth or value. In the event that any of the aforementioned risks materialises, Foresting HQ Pte. Ltd.’s business strategies, results of operations and prospects may also be adversely affected.

Foresting HQ Pte. Ltd. may experience system failures, unplanned interruptions in its network or services, hardware or software defects, security breaches or other causes that could adversely affect Foresting HQ Pte. Ltd.’s infrastructure network, and/or the FORESTING Protocol. Foresting HQ Pte. Ltd. is unable to anticipate when there would be occurrences of hacks, cyber-attacks, mining attacks (including but not limited to double-spend attacks, majority mining power attacks and “selfish-mining” attacks), distributed denials of service or errors, vulnerabilities or defects in the FORESTING Protocol, the Tokens, the Receiving Address, the Wallet or any technology (including but not limited to smart contract technology) on which Foresting HQ Pte. Ltd., the FORESTING Protocol, the Tokens, the Receiving Address that the Wallet relies on, or on the FORESTING blockchain or any other blockchain. Such events may include, for example, flaws in programming or source code leading to exploitation or abuse thereof. Foresting HQ Pte. Ltd. may not be able to detect such hacks, mining attacks (including but not limited to double-spend attacks, majority mining power attacks and “selfish-mining” attacks), cyber-attacks, distributed denials of service errors vulnerabilities or defects in a timely manner, and may not have sufficient resources to efficiently cope with multiple service incidents happening simultaneously or in rapid succession.

Foresting HQ Pte. Ltd.’s network or services, which would include the FORESTING Protocol, could be disrupted by numerous events, including natural disasters, equipment breakdown, network connectivity downtime, power losses, or even intentional disruptions of its services, such as disruptions caused by software viruses or attacks by unauthorised users, some of which are beyond Foresting HQ Pte. Ltd.’s control. Although Foresting HQ Pte. Ltd. has taken steps against malicious attacks on its appliances and its infrastructure, which are critical for the maintenance of the FORESTING Protocol and its other services, there can be no assurance that cyber-attacks, such as distributed denials of service, will not be attempted in the future, and that any of Foresting HQ Pte. Ltd.’s enhanced security measures will be effective. Foresting HQ Pte. Ltd. may be prone to attacks on its infrastructure intended to steal information about its technology, financial data or user information or take other actions that would be damaging to Foresting HQ Pte. Ltd. and users of the FORESTING Protocol.
We are dependent in part on the location and data center facilities of third parties.
Forested HQ Pte. Ltd.’s infrastructure network is in part established through servers which it owns and houses at the location facilities of third parties, and servers that it rents at data center facilities of third parties. If Forested HQ Pte. Ltd. is unable to renew its data facility lease on commercially reasonable terms or at all, Forested HQ Pte. Ltd. may be required to transfer its servers to a new data center facility, and may incur significant costs and possible service interruption in connection with the relocation. These facilities are also vulnerable to damage or interruption from, among others, natural disasters, arson, terrorist attacks, power losses, and telecommunication failures. Additionally, the third party providers of such facilities may suffer a breach of security as a result of third party action, employee error, malfeasance or otherwise, and a third party may obtain unauthorised access to the data in such servers. As techniques used to obtain unauthorised access to, or to sabotage systems change frequently and generally are not recognised until launched against a target, Forested HQ Pte. Ltd. and the providers of such facilities may be unable to anticipate these techniques or to implement adequate preventive measures. Any such security breaches or damages which occur which impact upon Forested HQ Pte. Ltd.’s infrastructure network and/or the FORESTING Protocol may adversely impact the price of the Tokens.

General global market and economic conditions may have an adverse impact on Forested HQ Pte. Ltd.’s operating performance, results of operations and cash flow.

Forested HQ Pte. Ltd. has been and could continue to be affected by general global economic and market conditions. Challenging economic conditions worldwide have from time to time, contributed, and may continue to contribute, to slowdowns in the information technology industry at large. Weakness in the economy could have a negative effect on Forested HQ Pte. Ltd.’s business, operational and financial condition, including decreases in revenue and operating cash flow. Additionally, in a down-cycle economic environment, Forested HQ Pte. Ltd. may experience the negative effects of increased competitive pricing pressure and a slowdown in commerce and usage of the FORESTING Protocol. Suppliers on which Forested HQ Pte. Ltd. relies for servers, bandwidth, location and other services could also be negatively impacted by economic conditions that, in turn, could have a negative impact on Forested HQ Pte. Ltd.’s operations or expenses. There can be no assurance, therefore, that current economic conditions or worsening economic conditions or a prolonged or recurring recession will not have a significant adverse impact on Forested HQ Pte. Ltd.’s business, financial condition and results of operations and hence the FORESTING Protocol, which would correspondingly impact the trading price of the Tokens.
Foresting HQ Pte. Ltd. or the Tokens may be affected by newly implemented regulations. Cryptocurrency trading is generally unregulated worldwide, but numerous regulatory authorities across jurisdictions have been outspoken about considering the implementation of regulatory regimes which govern cryptocurrency or cryptocurrency markets. Foresting HQ Pte. Ltd. or the Tokens may be affected by newly implemented regulations relating to cryptocurrencies or cryptocurrency markets, including having to take measures to comply with such regulations, or having to deal with queries, notices, requests or enforcement actions by regulatory authorities, which may come at a substantial cost and may also require substantial modifications to the FORESTING Protocol. This may impact the appeal of the FORESTING Protocol for users and result in decreased usage of the FORESTING Protocol. Further, should the costs (financial or otherwise) of complying with such newly implemented regulations exceed a certain threshold, maintaining the FORESTING Protocol may no longer be commercially viable and Foresting HQ Pte. Ltd. may opt to discontinue the FORESTING Protocol and/or the Tokens. Further, it is difficult to predict how or whether governments or regulatory authorities may implement any changes to laws and regulations affecting distributed ledger technology and its applications, including the FORESTING Protocol and the Tokens. Foresting HQ Pte. Ltd. may also have to cease operations in a jurisdiction that makes it illegal to operate in such jurisdiction, or make it commercially unviable or undesirable to obtain the necessary regulatory approval(s) to operate in such jurisdiction. In scenarios such as the foregoing, the trading price of Tokens will be adversely affected or Tokens may cease to be traded.

The regulatory regime governing blockchain technologies, cryptocurrencies, tokens, and token offerings such as the Token Sale, the FORESTING Protocol, and the Tokens is uncertain, and regulations or policies may materially and adversely affect the development of the FORESTING Protocol and the utility of the Tokens

Regulation of tokens (including the Tokens) and token offerings such as the Token Sale, cryptocurrencies, blockchain technologies, and cryptocurrency exchanges currently is undeveloped and likely to rapidly evolve, vary significantly among international, federal, state and local jurisdictions, and is subject to significant uncertainty. Various legislative and executive bodies in Singapore and other countries may in the future, adopt laws, regulations, guidance, or other actions, which may severely impact the development and growth of the FORESTING Protocol and the adoption and utility of the Tokens. Failure by Foresting HQ Pte. Ltd. or users of the FORESTING Protocol to comply with any laws, rules and regulations, some of which may not exist yet or are subject to interpretation and may be subject to change, could result in a variety of adverse consequences, including civil penalties and fines.

Blockchain networks also face an uncertain regulatory landscape in many foreign jurisdictions such as the European Union, the PRC, South Korea, and Russia. Various foreign jurisdictions may, in the near future, adopt laws, regulations or directives that affect the FORESTING Protocol. Such laws, regulations or directives may directly and negatively impact Foresting HQ Pte. Ltd.’s business. The effect of any future regulatory change is impossible to predict, but such change could be substantial and materially adverse to the development and growth of FORESTING Protocol.
Protocol and the adoption and utility of the Tokens.

New or changing laws and regulations or interpretations of existing laws and regulations may materially and adversely impact the value of the currency in which the Tokens may be sold, the value of the distributions that may be made by Foresting HQ Pte. Ltd., the liquidity of the Tokens, the ability to access marketplaces or exchanges on which to trade the Tokens, and the structure, rights and transferability of Tokens.

Tokens holders will have no control on Foresting HQ Pte. Ltd.
The holders of Tokens are not and will not be entitled, to vote or receive dividends or be deemed the holder of capital stock of the issuer for any purpose, nor will anything be construed to confer on the purchaser any of the rights of a stockholder of Foresting HQ Pte. Ltd. or any right to vote for the election of directors or upon any matter submitted to stockholders at any meeting thereof, or to give or withhold consent to any corporate action or to receive notice of meetings, or to receive subscription rights or otherwise.

The purchaser may lack information for monitoring their investment
The purchaser may not be able to obtain all information it would want regarding Foresting HQ Pte. Ltd., the Tokens, or the FORESTING Protocol, on a timely basis or at all. It is possible that the purchaser may not be aware on a timely basis of material adverse changes that have occurred. Information in relation to the development of Tokens may also be highly technical by nature. As a result of these difficulties, as well as other uncertainties, the purchaser may not have accurate or accessible information about the FORESTING Protocol.

There may be risks relating to acts of God, natural disasters, wars, terrorist attacks, riots, civil commotions widespread communicable diseases and other force majeure events beyond the control of Foresting HQ Pte. Ltd.

The Token Sale and the performance of Foresting HQ Pte. Ltd.’s activities may be interrupted, suspended or delayed due to acts of God, natural disasters, wars, terrorist attacks, riots, civil commotions, widespread communicable diseases and other force majeure events beyond the control of Foresting HQ Pte. Ltd.. Such events could also lead to uncertainty in the economic outlook of global markets and there is no assurance that such markets will not be affected, or that recovery from the global financial crisis would continue. In such events, Foresting HQ Pte. Ltd.’s business strategies, results of operations and prospects may be materially and adversely affected. Further, if an outbreak of such infectious or communicable diseases occurs in any of the countries in which Foresting HQ Pte. Ltd., the developers, data providers or data consumers have operations in the future, market sentiment could be adversely affected and this may have a negative impact on the FORESTING Protocol and community.
There may be unanticipated risks arising from the Tokens
Cryptographic tokens such as the Tokens are a relatively new and dynamic technology. In addition to the risks included in this Annex, there are other risks associated with your purchasing, holding and using the Tokens, including those that Foresting HQ Pte. Ltd. cannot anticipate. Such risks may further materialize as unanticipated variations or combinations of the risks discussed hereto.


