



VKenaf BlockChain

For efficient, transparent and secure transactions,
Kenaf platform leveraging BlockChain technology

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VKenafChain Public Whitepaper [V1.0]



Richwork Group Co. Ltd.,

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1. Disclaimer

VkenafChain refers to Kenaf's integrated system.

The facts and information presented in the documents, as well as the information offered on the websites that provide VKenafChain and other information, do not guarantee profit.

The current whitepaper and the information contained therein has been prepared for informational and informational purposes only.

VKenaf Token does not constitute capital, income, royalties or shares, and the rights to the capital of the company issuing them.

VKenafChain does not issue securities for sale and does not distribute assets or stocks.

The information or facts obtained from the VKenafChain's websites, blogs, the pages of social networks and current whitepaper do not include the provision of financial services and are not a synopsis or plan for the issuance of securities.

VKenafChain's activity is the expansion of innovative products using advanced technology. Therefore, the results do not always meet the expectations stated in public documents or on VKenafChain's website.

We are limiting citizens from countries that do not support cryptocurrency and ICO investments.



2. Summary

VKenafChain records the entire process of producing, manufacturing, processing, and selling Kenaf as a blockchain. And it creates a healthy and transparent ecosystem through the issuance and distribution of Vkenaf Token.

VKenafChain consists of Vkenaf BlockChain, Vkenaf Token, Dapp, Global Exchange, Wallet, Core System, etc.

The VKenafChain team consists of farmers and technology teams that are savvy in the technology of producing and supplying a wide variety of products by growing Kenaf, a subtropical, short-term herbaceous plant in West Africa.

Recently, in order to produce and disseminate more Kenaf, we are exporting products to all over the world, with Vietnam, Cambodia and Indonesia as major production sites in Southeast Asia, which are the best places for production and distribution.

We are working to meet global Kenaf demands. And our research team has now observed a number of flaws in the ecosystem of the vegetable energy and textile industries, and offers great solutions to overcome them.

The biggest problem in the industry today is lack of liquidity due to traceability for end users, transparency, security and high price.

The implementation of BlockChain will introduce transparency and trust into the organic textile industry.

Therefore, VKenafChain is the world's first vegetable energy and textile company operating with a decentralized P2P network system.

VKenafChain uses a decentralized supply chain management system to increase efficiency and ensure process transparency. Not only will this help the entire vegetable energy and fiber ecosystem, it will also help governments, third parties and users access products at lower prices.



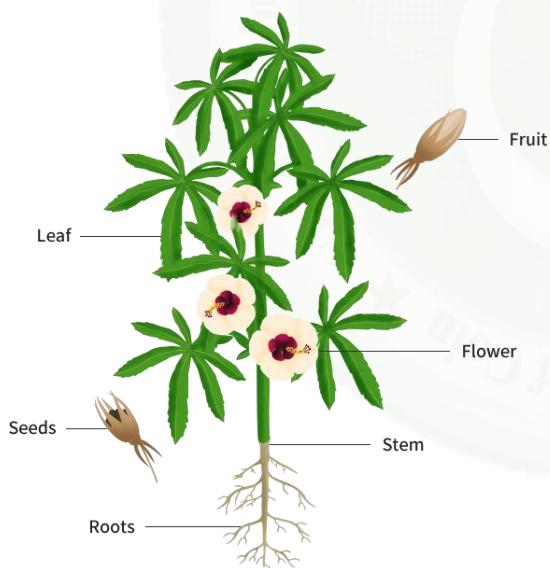
3. Mission & Vision

Mission

Our goal is to support the ecosystem of vegetable energy and textile industry by introducing a plant fiber supply chain management system in BlockChain.

Vision

VKenafChain is the first vegetable energy and textile industry operating in a decentralized P2P network system to create a strong environment through the use of BlockChain technology. We aim to introduce VKenaf Tokens into our systems so that the system is secured all over the world and makes them global, transparent and economical.



4. Introduction

Many plants have always been an integral part of the human menu, but today's use is not limited to the food industry. They have been expanded into production for household goods such as soaps, detergents, fatty acids, paints, varnishes, resins, plastics, lubricants. Also, they are also playing a major roles in the field of alternative fuel manufacturing like biofuels and etc. as well as bioplastics.

The Kenaf project was planned by the Richwork Group in 2018, and the project has been accelerated since February 2019.

Richwork Group (hereinafter referred to as "Richwork") is solidifying its position as a unique venture company in the biomass sector, focusing on providing cost-effective renewable energy solutions and bioplastics to the Asian market. It is also building a bio ecosystem using BlockChain to strengthen a transparent and fair trade.

Currently, we are focusing on biomass production and its energy conversion projects in Vietnam and Cambodia to provide demands and solutions for the world's growing clean energy.

Through expertise accumulated in the biomass industry, we are also striving to develop production of bioplastics, high-protein animal feed production for beef & dairy and food security solutions.

Bioenergy is obtained by using biomass as fuel and refers to alternative energy made to be usable as a material for biological resources. Biomass used as an energy source is an organic material that stores sunlight in the form of chemical energy. As fuel, it uses wood, wood scraps, straw, manure, sugar cane, and other byproducts from various agricultural processes.

In modern science, it refers to technologies such as bio, chemical and combustion engineering that use biomass in the form of gas, liquid, solid fuel, electricity and thermal energy through direct or physical and biochemical conversion processes. It includes not only biological materials used as biomass and biofuels, but also social, economic, scientific and technological fields related to the use of biomass as energy.





In general, it must be processed in some way to convert it into a usable fuel that can produce energy. There are pellets used when using generators in the same way coal is used today, alcohol burned with motor fuel, and methane gas that can be used in almost the same way as natural gas.

In most cases, existing technologies are used as a best practice through the energy mix of fossil fuels and renewable energy, and many investors have a significantly shorter return on investment due to the availability of low cost biomass fuels.

With 4 times efficiently than solar, Biomass is the fourth largest energy source after coal, oil and natural gas. And it is currently the largest and most important renewable energy option that can be used to produce other forms of energy.

Renewability and versatility are important advantages of biomass as an energy source. Moreover, compared to other renewable energy sources, biomass resources are widespread around the world. And Richwork focuses on expertise, technology and scalable energy production capabilities to address the growing global demand for clean alternative electricity produced through biomass energy (BME) processes. Experts predict that bioenergy has the potential to meet a significant portion of the world's energy needs by 2050.

Convenience, population growth, rising popularity of convenience foods, increased vegetarianism, increased product diversity and technological integration have been key drivers of market growth for many years. And the industry has been very successful in many parts of Southeast Asia and Africa.

Because of the diversity of uses, production and utilization have increased exponentially, resulting in great concern for the environment leading to deforestation and biodiversity imbalance. Not only environmental issues but also market actions prove to be a major obstacle to smooth industrial growth through the use of minimal resources.



Bioplastics are plastics made from renewable raw materials. Existing plastics are not free from the problem of depletion of oil, which is a raw material, and are not decomposed from hundreds of years to 10,000 years, causing plastic pollution.

Accordingly, bioplastics made of corn, sugar cane, soybean, etc. are being researched. Despite of similar properties to existing plastics, but after a certain period of time, they are decomposed by microorganisms and finally become water and carbon dioxide. As a result, it reduces carbon and enables the compost utilization of waste.

Applications range from packaging, beverage bottles, automobiles, home appliances, keyboards, interior parts, etc., to global brands such as Coca-Cola, Pepsi, automobile companies such as Ford, Audi and Lexus, and electronics companies such as Samsung Electronics, etc.

The European Bioplastics Association (EUBP) estimates that bioplastics will account for more than 10% of the total plastics market by 2025.

We are trying to solve the facing challenges through a new bio-platform that combines the world's top four textile crops, Kenaf and BlockChain, to solve the problems of the environment and energy that humanity faces today.

Our VKenafChain, which combines Kenaf and BlockChain, aims to establish a better working system in our industry by providing more transparency and security to consumers as well as producers.

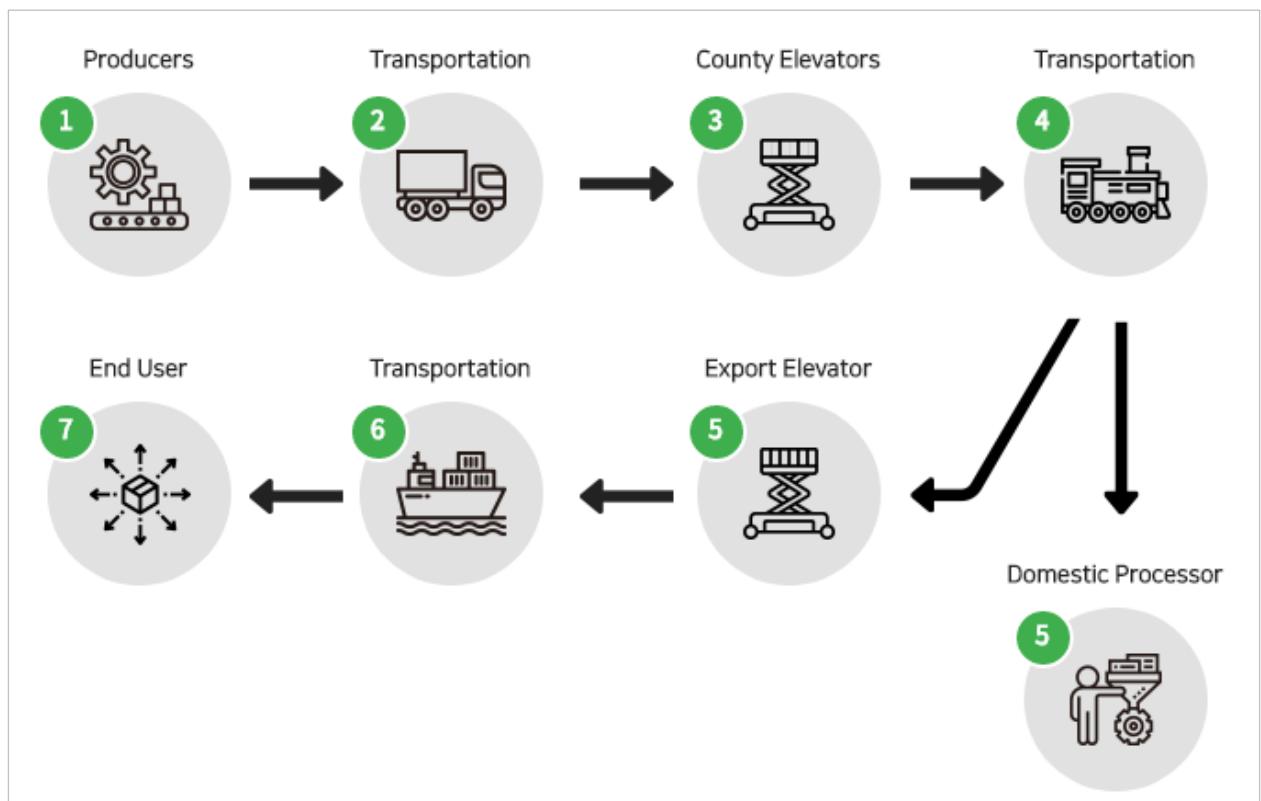
Richwork is moving towards it by introducing BlockChain technology into the vegetable oil and textile industry. This technology tracks all activities and determines the validity of the majority decision, so that a single institution works in a democratic way of dealing with the market. As its power is evenly distributed among all participants, they are only responsible for decision-making by majority through taking part in decision making process.





The introduction of BlockChain and cryptocurrency will lead the industry to a whole new level that is not only more transparent and secure, but also faster and more accurate. We will be able to offer more to our end users at a lower price by producing resources that can directly or indirectly affect the environment and consuming less of them.

In short, we aim to link the environment with BlockChain.



[Fig. 4.1] Agriculture Blockchain



5. What's Kenaf?

Feature of Kenaf

Kenaf, a native plant of West Africa and a first-year herbaceous plant, is regarded as one of the world's top four textile crops with various characteristics that are not found in common plants. It is produced with more than 25,000 products which are used in various areas of daily life and industries.

Kenaf(KENAF, Hibiscus Cannabinus) has main features as the below;

- ♣ A first-year herbaceous plant in native of West Africa.
- ♣ Fast and large growth
- ♣ Growth by 5~8m in tropical zone and 3~6m in temperate zone on 120 days
- ♣ Can grow in poor soil
- ♣ CO₂ absorption up to 9 times higher than pine tree.
- ♣ The crude protein content of the leaves is 29%, which is higher than that of beef.
- ♣ High polyphenol content makes it excellent for anti-cancer, anti-inflammatory, antioxidant, anti-aging and relief of adult diseases.
- ♣ Containing Kaempferitrin (Natural Insulin) is effective in diabetes.
- ♣ Excellent permeability and cohesion due to the large number of perforations in the plant

Utilization of Kenaf

Kenaf has great features in terms of environmental cleanup and resource development.

A. Environmental purification

1) Prevention of global warming

According to a research report by Hoshino of Nippon Electric Co., entitled 'Possibility of Carbon Dioxide Immobilization by Kenaf', Kenaf's photosynthesis is a primitive form and its photosynthetic ability increases in proportion to the concentration of carbon dioxide. And its photosynthesis speed can be increased by up to 20 times faster, which is about 40 times faster than the photosynthetic speed in the forest. As Kenaf's photosynthesis is significantly more active than wood, it reduces CO₂, which is the main culprit of global warming, and provides a large amount of oxygen.





2) Purification of water

Kenaf has a high absorption efficiency of nitrogen and phosphorus in water and plays a role in water purification. According to the "Development of a circulating and symbiotic water quality purification system using useful plants such as Kenaf" published by the Water Quality Conservation Laboratory at the Agriculture, Forestry and Fisheries Research Center in Japan, it is possible to grow Kenaf up to 6m using sewage, and sewage can be purified.

B. Resource Development

1) Pulp

The International Food Organization (FAO) report (1993) warns that "the world's forests are felling twice as fast as the growth rate, and if they do so, they will be destroyed within 100 years." In developed countries, Kenaf was selected for research and investment in the development of non-timber resources to prevent deforestation and to protect the environment. As a result, high-quality commercial products are coming out. Kenaf paper is not chlorine-treated, so dioxins are not released even when incinerated, and acid treatment is not used to reduce wastewater treatment costs. Non-wood, chlorine-free and acid-free environmental papers can be made, and Canon and Ricosa in Japan have already commercialized and are on sales of Kenaf copy papers. In addition, since Kenaf is a first-year plant, the smooth supply of raw material can also be done.

2) Deodorant and Soil improver

The charcoal made of Kenaf has good ignition property but short combustion time makes it unsuitable for fuel. So it is used for fuse or gunpowder. Meanwhile, as it has a lot of fine space, it can be used as a deodorant with its excellent absorbency and deodorization properties. Also, it can also be used as a soil conditioner for fields with a good structure for microbes to grow.





3) Soundproofing material and Kenaf board.

Developed by Japan's Kono Shinmata Kaisei Co., Ltd using the wood part of Kenaf, it is characterized by not using any adhesive material used for wood boards. As the wood part is treated with water vapor, some of the Kenaf ingredients are converted into highly adhesive resin. And then, it is molded at high temperature and high pressure. In the durability test, the JIS standard was satisfied. And the natural materials changed under high heat and high pressure have strengths equal to or higher than chemical products such as petroleum products.

4) Wallpaper

Among building materials, wallpaper has the largest proportion of area and is often in direct contact with humans. SICK HOUSE syndrome is the main cause of chemical treatment and adhesives such as flame retardant, fireproof, antibacterial and waterproof. To this end, Japanese wallpaper maker Tori released 20 types of safe wallpaper using Kenaf in January 1998.

5) Oil absorbent

Kenaf adsorbs 9 times the weight of its own weight and absorbs oil selectively if oil and water coexist. In the event of an oil spill at sea, Kenaf which adsorbs the oil has been floating on the surface for a long time, so it is easy to recover the oil and the adsorbed oil is broken down by microorganisms.

In the United States, oil absorbents made of Kenaf are commercially available under the name Kenaf BIO-SORB.

6) Food

On leaves of Kenaf, calcium is 4 times that of milk, iron is about the same as spinach. The leaves also have as much vitamin as vegetables. And Kenaf's flowers are made from juice.



7) Non-woven fabric, paper with strong water resistance

Since Korea is dumping both combustible and non-combustible wastes using designated plastic bags, it is necessary to separate the wastes before incineration or landfill. When incinerated, the combustion efficiency of the combustion furnace is lowered and the dioxins are released. Since Kenaf can make strong water-resistant paper, it is possible to dump combustible garbage by using a bag made of Kenaf as a garbage bag while putting non-combustible garbage into the current plastic bag. Therefore, the eco-friendly image and efficiency of garbage separation can be improved.

Configuration analysis

Currently we have no competition and we have to be a pioneer in this industry





6. Market analysis

Kenaf is used in a variety of industries due to the nature of the plant. We can check the size of the bio-energy market, bio-plastics market and forage market. And we can also confirm the development potential and scalability of Kenaf.

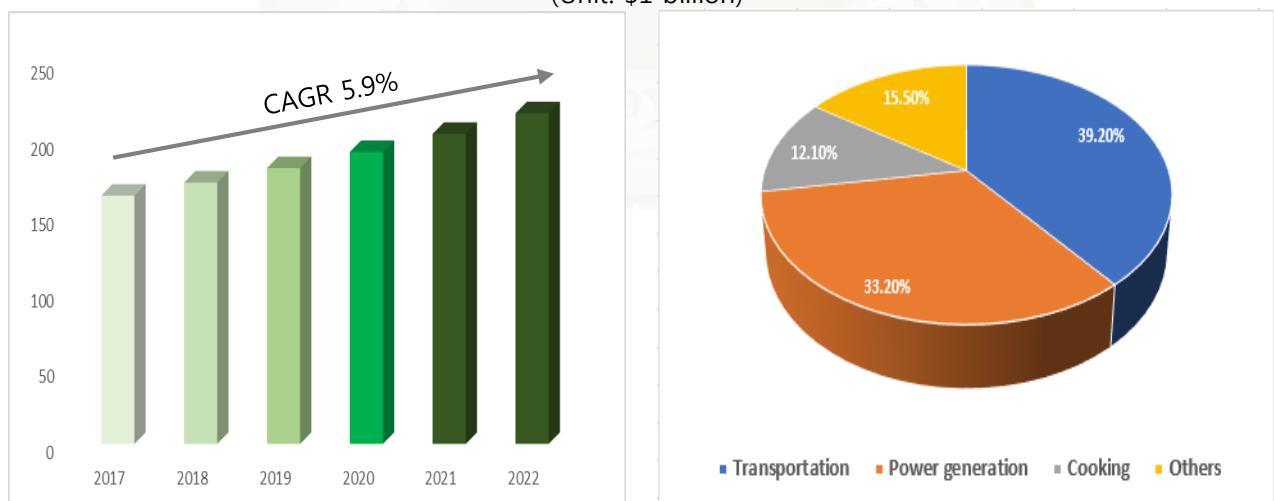
Bio energy market

Vegetable oil is a natural & organic oil extracted from the fruits of plants, nuts and seeds. It contains a large amount of nutrients and is also used as a raw material in the food industry.

Cooking oil, margarine, non-dairy creams, ice cream and fatty acids derived from vegetable oils are used in the cosmetics industry, bacteria and pharmaceuticals. Non-food uses of vegetable oils are used in the manufacture of detergents, soaps, lubricants, oils and candles. However, as one of the most popular uses of vegetable oils is as an alternative to mineral oils for use in power plants, it is used as the feedstock for the production of biodiesel. All of these are the reasons why the global vegetable oil market is currently showing positive growth, and the market size in 2017 was \$91.4 billion.

According to TechNavio's Global Bioenergy Market report, the global bioenergy market is expected to grow at an annual average of 5.9% from \$163.1 billion in 2017 to reach a market size of \$217.2 billion in 2022.

(Unit: \$1 billion)



[Fig. 6.1] World Bioenergy Market

[Fig. 6.2] Market share by industry



As of 2017, the market share by major industries was 39.2% for transportation, 33.2% for power generation, 12.1% for cooking and 15.5% for other (cooling, household, etc.) industries.

Bio plastic market

Of the bioplastics that are currently commercialized worldwide and form a market, most of the biodegradable plastics are starch-based resins, PLA, and PHAs (polyhydroxyalkanoates). The market for all bioplastics is centered around the United States, Europe and Japan with strong environmental regulations, and the market size is rapidly increasing worldwide.

The market growth rate of bioplastics is growing 20-100% annually. As the production of bioplastics is also increasing rapidly, it is predicted to increase from 4.2 million tons in 2016 to 6.1 million tons in 2021. In particular, the market growth rate of bio-based plastics is expected to be much faster than that of biodegradable plastics.

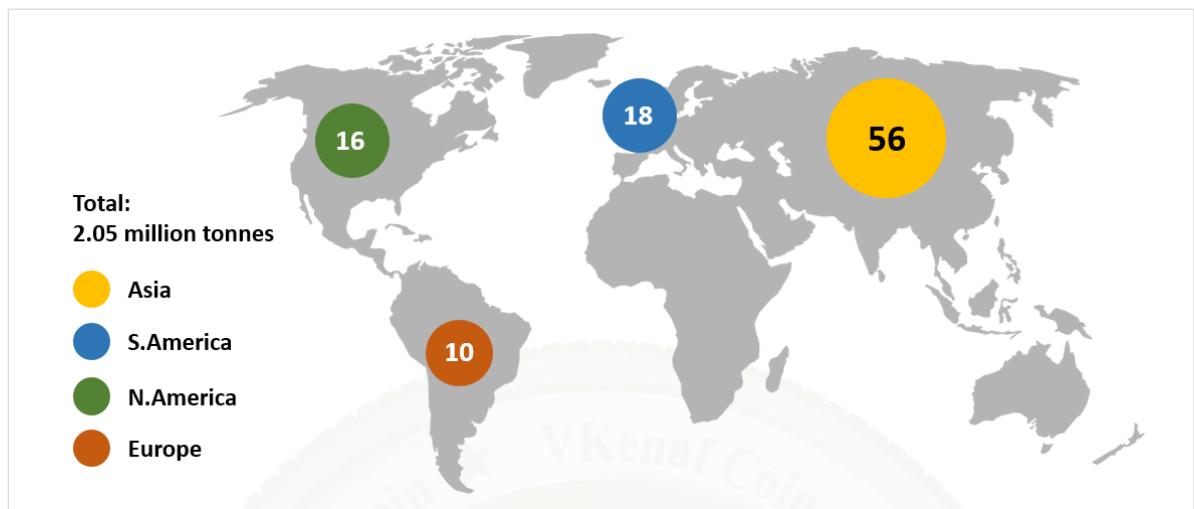
Currently, bio-based PE and bio-based PET are the most produced in the majority of bio-based plastics.

According to a recent report by Progressive Markets, the global bioplastics market is expected to grow at an annual average of 19.2% from 2017 to 2025. The main growth factors include consumer perception of the environment, interest in biodegradability in the industry and application of bioplastics in the field of rigid packaging. By 2020, the field of rigid plastics will account for 40% of sales.

Bioplastics are plastics made from renewable raw materials such as corn, sugarcane and cellulose. The widespread availability and eco-friendly availability of renewable materials are a factor in global market growth. In addition, increased adoption in new end industries and government policies on the use of eco-friendly and biodegradable products are one of the key factors driving market growth. On the other hand, high production costs will be a deterrent to growth.

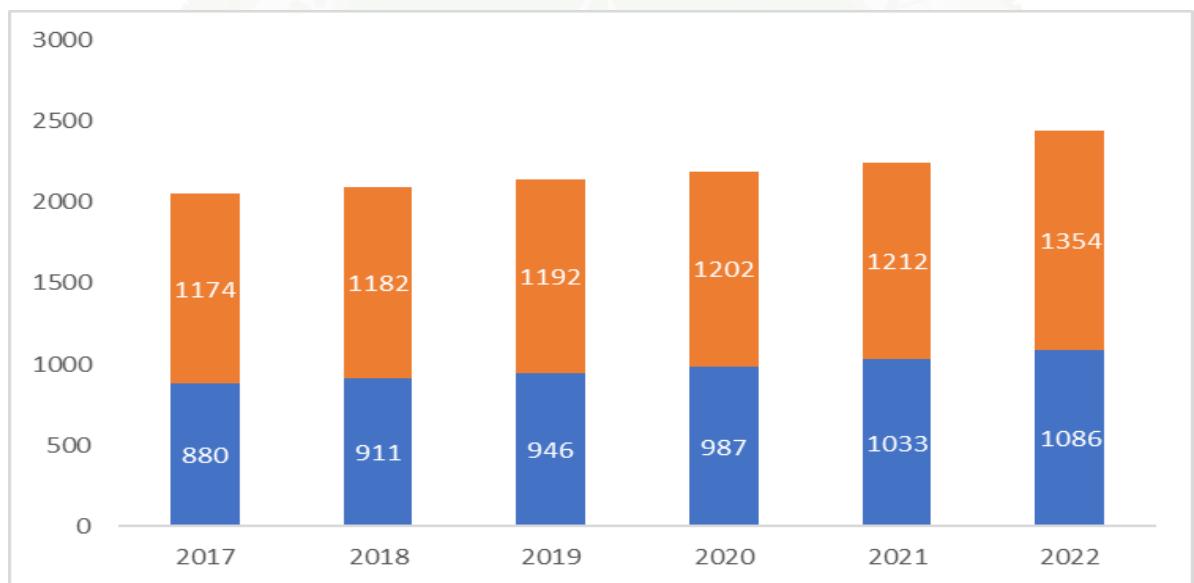


The composition ratio of bioplastics production by region in 2017 is shown in the figure below.



[Fig. 6.3] Global production capacities of bioplastics

(Unit: 1,000 tons)



[Fig. 6.4] Global Production capacities of bioplastics

The bioplastics industry occupies 10-15% of the total plastics market as of 2012 and will replace the existing plastics market by at least 30% by 2020.

By 2018, the demand for bioplastic starch, PLA, PHA, and other bioplastics is expected to increase rather than petroleum-based biodegradable polymers. In particular, unlike the current intensive use of packaging materials, bioplastics are expected to increase to 26% of the total amount by 2020 due to increased use of bioplastics not only in packaging materials but also in other areas such as textiles.



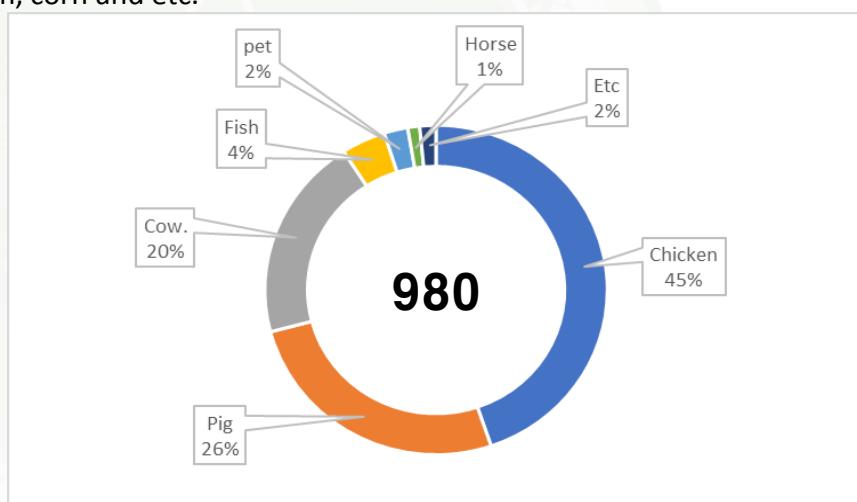
By region, the demand for Western Europe is 40%, North America is about 30% and Japan is about 20%. Moreover, it is expected to expand to China and other regions over time.

Compound feed market

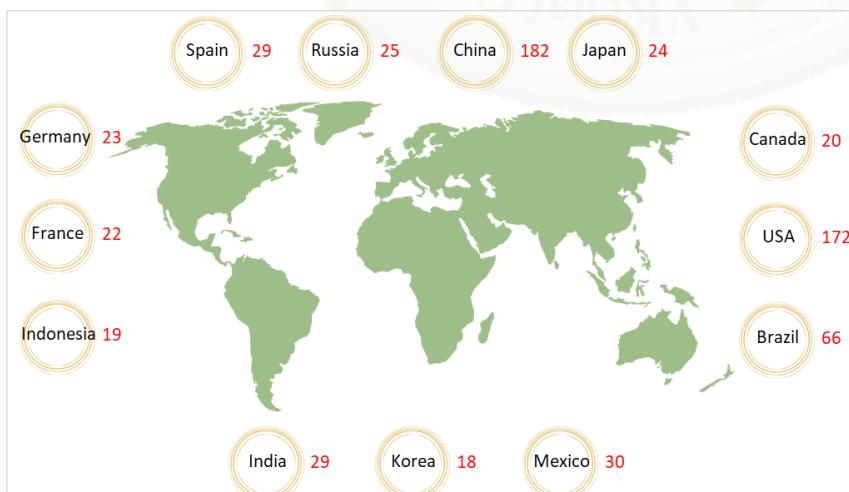
The global compound feed market is expected to reach \$ 539.9 billion in 2023 (approximately 645 trillion Korean Won), according to thepigsite.com, a livestock specialized media market. Also, Market Research Future which is market research firm in recent report predicts that compound feed market will grow 4.02% annually to \$539.9 billion by 2023.

Grain accounted for 37.44% of the compound feed market in 2017, and the grain sector is expected to grow to \$195.9 million (about 233.9 billion Korean Won) with an annual average growth rate of 3.48% by 2023 due to the abundant supply of raw materials such as sorghum, corn and etc.

Chicken	439
Pig	256
Cow.	196
Fish	41
pet	22
Horse	11
Etc.	15



[Fig. 6.5] Global feed production_2014



Looking at the statistics above, we can see that the market is fairly scalable and needs some technically powerful solutions for better functionality.

Here, VKenafChain will solve this problem to create a whole ecosystem that can benefit all participants in this ecosystem.

To implement the plan, VKenafChain has strategized its expansion.

Let's take a look at our plan and scalability.

On average, 25 ones per square meter can be cultivated for our Kenaf.

Thus, about 25 kg of Kenaf per 1 m² can be produced.

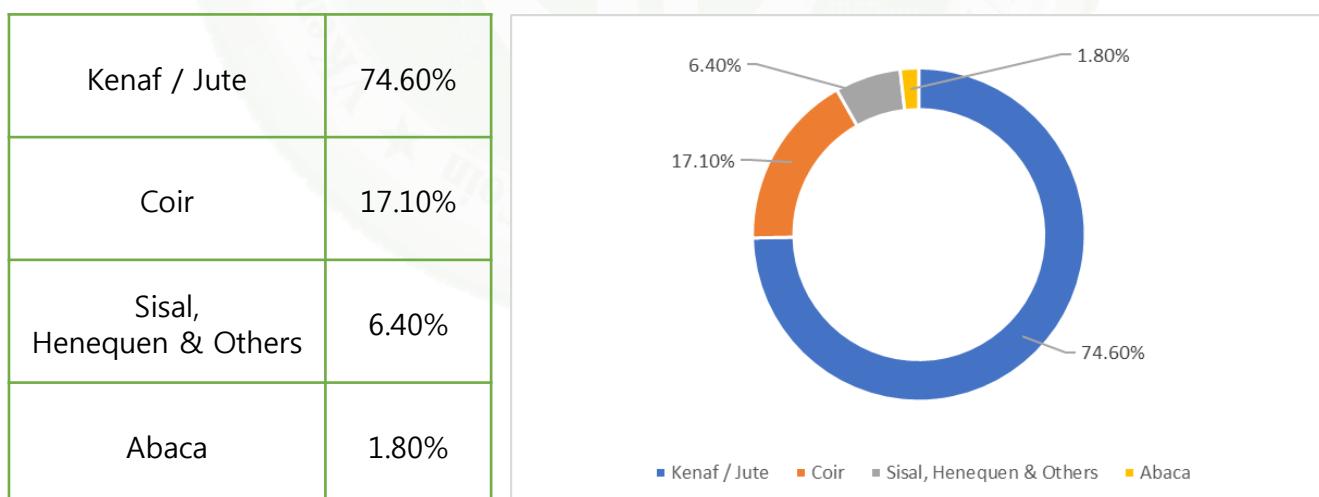
With 250,000 kg of Kenaf produced per hectare, VKenafChain's goal is to have at least 2,000,000 hectares of Kenaf farms.

1 hectare = Kenaf production of 250 tons

Income per ton of processed(pellets, etc.,) Kenaf = USD 150

Production income per 1 hectare = $250 \times 150 = \text{USD } 37,500$

Total production income a year = $37,500 \times 2,000,000 = \text{USD } 75,000,000,000$



[Fig. 6.6] Global production rate of textile crops





7. Current market's problems

Safety of vegetable oil supply

Due to the opaque nature of the vegetable oil supply chain, customers and regulators cannot determine which producers are truly sustainable. Consumers, despite the increasing market size, are still in the dark to believe that certain products are sustainable.

Decentralized ledger technology can change the supply chain traceability and bring more transparency through the value chain to create value for all stakeholders.

Cross Border Investment

Kenaf's global value chain is a complex environment that requires different stakeholders to comply with different regulations in different countries. There are unexpected difficulties in ensuring that all stakeholders are compliant while the project team is operating within this complex statute, custom and system.

The implementation of the model we propose is that stakeholders with different abilities, interests and goals will overcome geographic location and they participate without regular interactions among them.

Government Complications

Governments are playing a larger role in economic affairs, and nationalist ambitions are entering an era that makes globalization more difficult to manage.

It is necessary to coordinate investment strategies and operations so that companies and funds promoting cross-border investments can function effectively at the intersection of government, business and finance.

Disturbed Market

The challenges facing foreign investors are important issues to consider before initiating inbound or outbound transactions. Of course, transactions between countries are different. And the implementation of these issues will depend largely on the size, facts and dynamic geographic scope of the particular situation.

Cross-border workers for a better environment are sometimes caught in a web of discontent and confusion over compliance and regulatory issues that have strange complications.





While regulators do their best to catch up with money launderers, terrorist financiers and tax fraudsters, it also results in disruption over the personal financial plans of innocent businessmen.

Weak Supply Chain Management System

Current supply chain management systems are not transparent. From the production of raw materials to the production of final products, products pass through a vast network of distributors, transporters, traders, storage facilities and distributors.

This makes customers unsure about the true history of the product. In the current supply chain, there is no knowledge of the reliability and rating of the product, and this model cannot trace quality standards.

Market prices are dependent on brand and specific circumstances, regardless of oil quality and conservation.

Trust & Security Issues in Current System

The need for greater transparency in traditional supply chain management systems is increasing not only for governments but also for consumers. Centralized systems now have many weaknesses, such as trust issues and bribery, hacking attacks, and social engineering.

To overcome current supply chain management challenges, VKenafChain leverages the power of BlockChain to provide additional security and trust to current supply chain management systems.

It provides a solid infrastructure for tracking products in a supply chain that generates trust from customers as they ensure product reliability. Our BlockChain solutions are subject to jurisdiction, and this secure solution for BlockChain will encourage other investors to participate in projects and leverage the following factors to make the solution feasible and scalable.

Traceability system

Too many intermediaries are involved in traditional supply chains, and VKenafChain uses BlockChain to track trusted products and keep an eye on their status.



It will also track all production activities, including not only the product but also the raw materials from which the final product is made.

Transparency

Any product or raw material related to the process is visible in the ledger and tracks its entire journey. This helps to detect any illegal entities on the system, and traceability makes it impossible for illegal trading practices or illegal substances to be added to the system.

Records are stored in a tamper-resistant block, making data manipulation impossible, and data redundancy is managed by the distributed database characteristics of BlockChain.

New market

The vegetable oil industry hasn't achieved this technological revolution in the past decade. VKenafChain has the ambition to innovate the vegetable oil and textile markets with the latest technological advances in BlockChain & AI.

VKenafChain provides AI-based multilingual chat support systems to support participants from all over the world, and offers rewards and debit cards to attract users to our platform.

Cross-border payments

VKenafChain products are open for people from all countries. The VKenafChain platform allows users to transfer funds or purchase VKenafChain products without using third-party applications. Thus, it makes the market economical for end users.

Taxation & Accounting

The taxation and accounting portion of the transaction is handled by VKenafChain's BlockChain solution, which complies with the tax laws on transactions. And taxes levied on foreign investments are reduced as VKenafChain fulfills all responsibilities related to the taxation of the platform.



Trust for investors

BlockChain is a state-of-the-art technology that provides a mechanism for storing data in a decentralized, distributed ledger, making it an anti-tampering block that prevents any manipulation and secures it using encryption. This secure technology implementation provides a trust relationship between the investor and VKenafChain. Especially, VKenafChain offers transparency and traceability which provide investors with a complete overview regarding the operation of a system that creates trust with the investor and VKenafChain.

Privacy

Privacy is one of the key concepts when we talk about networks. VKenafChain is primarily concerned with user privacy, and provides a platform where transaction history is shared only with participants on the network. The data in the block is encrypted using a one-way SHA 256 (Secure Hash Algorithm) to maintain the user's privacy.



8. Product description

VKenafChain is a vegetable oil mining and textile company with the ambition to create the new market space by leveraging the power of BlockChain. We start in Southeast Asia, but we plan to work on another continent. VKenafChain's project development will start in Southeast Asia and expand across Asia.

Currently, VKenafChain is expanding Kenaf cultivation farms, which provide raw materials from major regions of Vietnam and around Cambodia. As discussed earlier, our raw materials will be placed in BlockChain with designated quality indicators that help the platform classify each element to use or be used for a particular product. VKenafChain aims to have 2,000,000 hectares of farmland across Southeast Asia to produce the highest grade Kenaf.

The size of the land we are trading here and VKenafChain's powerful BlockChain solution is huge and magnificent.

We own and rent these large lands, which will drastically lower commodity prices, and our farmers and technicians will play a big role in helping VKenafChain grow its state-of-the-art and sustainable models all over the world.

These figures coincide with the size of the land and will generate significant profits in terms of oil or other related derivatives.

VKenafChain's current strategy suggests focusing on bioenergy, bioplastics and animal feed.

We plan to primarily produce products suitable for animal feed and increase the production of pellets and seed oils to be used in bioenergy.

Tracking is important because the number of intermediaries associated with traditional supply chains can make the system vulnerable. Therefore, this traceability enables the maintenance and warranty of the genuine product in use, and BlockChain will take care of it if manipulation is attempted. This allows the raw material to be traced from start to finish, from the plantation to the raw material that is converted into the finished product.



Kenaf pellets and Kenaf chips will be listed on the international market. Traceability in the supply chain plays an important role in getting the company's full profit for what it owns and will get to implement BlockChain that third parties do not affect BlockChain.

After the raw materials are collected, they are sent for processing to obtain the desired product.

On the VKenafChain platform, whether raw materials are being processed or ready to enter the market, it shows the current status and provides continuous updates and track records for each product as the status changes.

VKenafChain checks for problems such as containing toxins that can harm the body, and makes it clear what customers should buy and what not to buy to avoid the problems.

VKenafChain revolutionizes the vegetable oil sector and textile crops by truly standardizing products to standards that are trusted by end customers. In addition, payments from anywhere in the world are processed without using a third-party application on the VKenafChain platform itself and payments can be made across borders.

Since VKenafChain manages the legal aspects of the tax, vegetable oil mining industry and textile crops, smart contracts and chain codes are developed to be responsible for complying with government-designed guidelines. As privacy of data is also considered one of the top priorities, VKenafChain handles it carefully by using blockchain.

If we use BlockChain combined with RFID, smart phones, IoT networks and mobile applications by 2030, we predict that it will be able to create a vegetable oil trading industry and textile crops with a sustainable record.



The supply chain management of vegetable oil mining and textile crops is very new and VKenafChain promises global development with vegetable oil mining technology. Also, our supply chain management will help identify the specific processes that exist in the organization and the factors that prevent it from obtaining the desired throughput. Therefore, proper implementation of supply chain management will enable supply chain management and BlockChain to be used to increase production, as well as eliminate all vulnerabilities to provide an effective and scalable solution for vegetable oil mining and fiber crop proliferation.

We are probably the first company to explore this area. And this kind of change can make a difference in how we buy products with less focus on the freshness or purity of products just by trusting suppliers or sellers. .

Standardization of many types of vegetable oils and fiber crops on BlockChain is very important and this will lead to better product production. And end customers will not be scammed by not paying for products that do not meet the quality standards they have been insisting on so far.



9. Why choose BlockChain?

BlockChain is an immutable, encrypted database where every node contains exactly the same transaction records for producers, farmers, transporters or buyers.

Each transaction in the value chain will exist on every node, where the transaction data is encrypted and stored in a container of information called "Blocks" across all nodes. BlockChain incorporates the business rule of "smart contract" into a system that enforces the logic of "if it works, then it becomes that" to act free from human intervention.

BlockChain can be defined as a digitally decentralized public ledger where transactions are stored. It is formed as a tamper-resistant block, which is not only added as a time stamp after a certain number of transactions or at time intervals but also maintained in a distributed manner by nodes.

Once a transaction is made, it is notified on the network and this raw transaction is verified by the node by checking specific parameters, and then the Block is committed to BlockChain. Summarizing this, BlockChain consists of blocks that store transactions that are linked together to form a chain using the hash key of the previous block.

It contains three main contents: data, hash of the current block and hash of the previous block. Data is stored in the block and everything in the block is encrypted. We call this the hash of the current block.

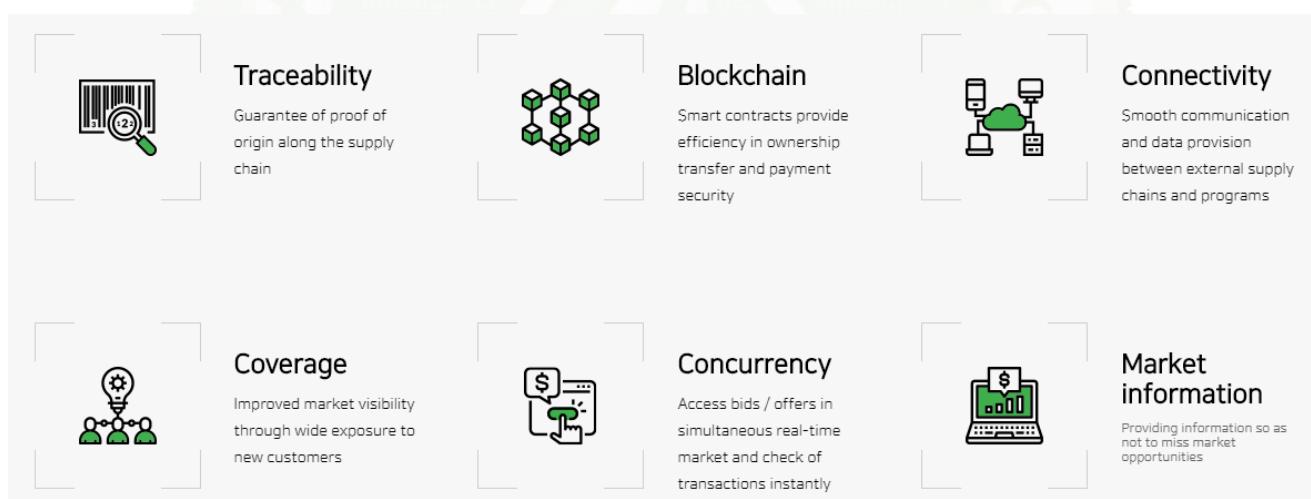
Changing the data provides a different hash, so once a block is created, the data cannot be changed. The hash of the previous block is in all the blocks that help to form BlockChain, and if one of them is changed, the hash of that block is also changed. Thus, as the hash for this block is used as the hash of the previous block, the next block can be changed. Hereby the entire chain becomes invalid.



The concept of distributed ledger is that consensus algorithms exist to ensure everyone downloads a copy of the current transaction and BlockChain is not a vulnerable solution to the system. In summary, it is a record keeping mechanism that keeps records safe, and we use it to store data in our supply chain.

BlockChain technology can track transactions and the stored data in a block cannot be manipulated. By using these two advantages, it is possible to set up a supply chain management system.

Experts and advisors suggest BlockChain is the best solution for supply chain management. In BlockChain, it is much easier to record data of huge vegetable oil containers and raw materials. In addition, on BlockChain, tracking of these orders can be done in real time during delivery.



[Fig 9.1] Features of Kenaf platform

10. VKenaf Eco Platform

If farmers and farm workers tag fresh Kenaf and Kenaf seeds by using their smartphones, it is possible to capture information such as worker ID, plantation ID, location of Kenaf, batch ID, harvest time and etc. And then, the captured information can be uploaded into BlockChain in real time.

Kenaf plantation

It also supports the registration process for cultivation that can be used to verify the geologic location data of the harvested Kenaf.

It will contribute to unprecedented levels of transparency as well as to protect the legal employment and working conditions of field workers including provides abundant data on Kenaf harvest. Thanks to Smartphones with digital maps in geo-location capabilities that enable certification bodies, governments, farmers and producers to maintain a digital inventory of agriculture, sustainable land use in planning policies can be implemented.

Vegetable oils and raw materials tend to hydrolyze or oxidize rapidly under optimal transport and storage conditions, both of which are activated through impurities, moisture or high temperatures. This can amplify the content of free fatty acids (FFAs) in vegetable oils, which can be dangerous for product consumption, but will minimize deterioration by solving supply chain problems.

IoT-enabled sensors and BlockChains enable carriers to monitor processing and temperature, transportation, humidity during storage, and then integrate detailed data from BlockChain Nodes to record Out-of-range instances so as to efficiently identify bad placement.

BlockChain's algorithm in smart contract can enforce logic to automatically grade products to meet the highest quality standards for consumption of products.

Similarly, shipping companies can record product shipment data in decentralized applications using GPS-enabled tamper-resistant seals and mobile devices to lock containers. When container shipping reaches the destination, only authorized personnel can access the credentials of the Distributed Application (DAPP) to open the seal and start the receiving process.



Finally, retailers can present the final product with an identifier such as a short-range wireless communication chip, RFID or QR code, allowing buyers to identify the source of the product.

For today's environmentally conscious and health-conscious users, this level of transparency, reliability and brand loyalty will only be available through the VKenafChain network.

We support more convenient products to support BlockChain solution and increase adoption rate in the market.

VKenafChain reward card

Farmers, merchants, manufacturers or end users can use the VKenafChain Rewards card to access multiple bonuses including referral rewards and dividend rewards. Here, VKenaf Token will be rewarded to all participants according to their loyalty to what they have used within the VKenafChain platform. Ecosystem Tokenization will bring financial immutability in the supply chain and these rewards will be reimbursed as VKenaf Tokens. The VKenaf Tokens can be converted into Fiat currency upon exchange.

VKenafChain debit card

We know the needs for our market and that most farmers will spend some time to use encryption technology. To support them and make payments physically convenient, VKenafChain will link debit cards. Participants will be able to pay directly to our ecosystem via VKenafChain debit card.

Multilingual chat support

To support 24 hours a day, 7 days a week, we will introduce a multi-lingual AI-based chatbot. This will help all users and participants in this chain worldwide. On the other hand, apart from general support, implementation of AI & Deep Learning with the best data available in search engines will help users identify the next step.



11. Token economics

Our Token Sale is strategically structured to fully utilize all funds for the purpose of accelerating our growth and expanding the positive impact of our organization. Since we are interested in the lifespan of our platform and the benefits of Token holders, we have a long-term plan to make the VKenaf platform and Token create value in the future.

The following are the seven key mechanisms that create demand and increase the value of VKenaf Token in the secondary market.

1. VKenaf Token is required to access the platform and services of the platform.
2. Traders will need a VKenaf Token to access the VKenafChain market.
3. The purchase of Kenaf raw materials from VKenafChain consists of Token Sale or VKenaf Token obtained in the secondary market.
4. VKenafChain's purchase of vegetable oil will only be possible with VKenaf Token.
5. Traders of VKenafChain products will receive VKenaf Token received from consumers in the market as a payment method.
6. Kenaf plantation and factory workers will accept VKenaf Token as payment method.
7. To receive dividends from KenafChain, VKenaf Token must be held.

Because of these seven mechanisms, Token will have its own demand-driven economy and the value of Token will be completely independent of speculative ecosystems. As a result, the value of VKenaf Token will not be affected even if other cryptocurrency markets are completely collapsed.



12. Token Distribution



[Fig. 12.1] Token Distribution Structure

The VKenafChain ecosystem is supported by VKenaf Token, a virtual asset represented by VKenafChain Smart Contract.

The total issuance of Token is 100,000,000VKNF, 55% of the total issuance is used for FUTURE DEVELOPMENT, 35% is sold as Token sale, 7% is for the company, 2% is for advisors, and 1% is used for Bounty.

Pre-sale and token generation event

Tokens will be distributed in stages after the end date of each sale, as shown in the schedule below. The Ethereum "ERC20" Token is distributed during the Token Generation Event (TGE) period, so VKenaf Tokens can be exchanged in open trading before VKenafChain is activated.



[Fig. 12.2] Token Sale Event

Classification	Coin amount	Percentage	Period
Private Sale 1	3,500,000	10%	
Private Sale 2	7,000,000	20%	July 1, 2020 ~ July 20, 2020
Private Sale 3	10,500,000	30%	Aug 10, 2020 ~ Aug 30, 2020
Pre-Sale	14,000,000	40%	Sep 2, 2020 ~ Sep 14, 2020
TOTAL	35,000,000	100%	

[Fig. 12.3] Token Sale Amount and Period

The Token Generation Event (TGE) which is VKenaf Token issuance event is held with the aim of obtaining financial support from partners at cloud sale events that seek to support our future development. Our plan is dynamic and adaptable to various situations.

We are ready for every situation as a result of fundraising and will promote a plan to use only the funds raised in the pre-sale even if we do not raise additional funds among the Token Sales.

But we have a goal to raise funds to more than \$ 10 million.

Our Token Sale aims to create new rules in law and politics around the world and establish the VKenaf Foundation For complete budget and expenditure plans including development goals, legal structures and research goals, please contact Richwork.

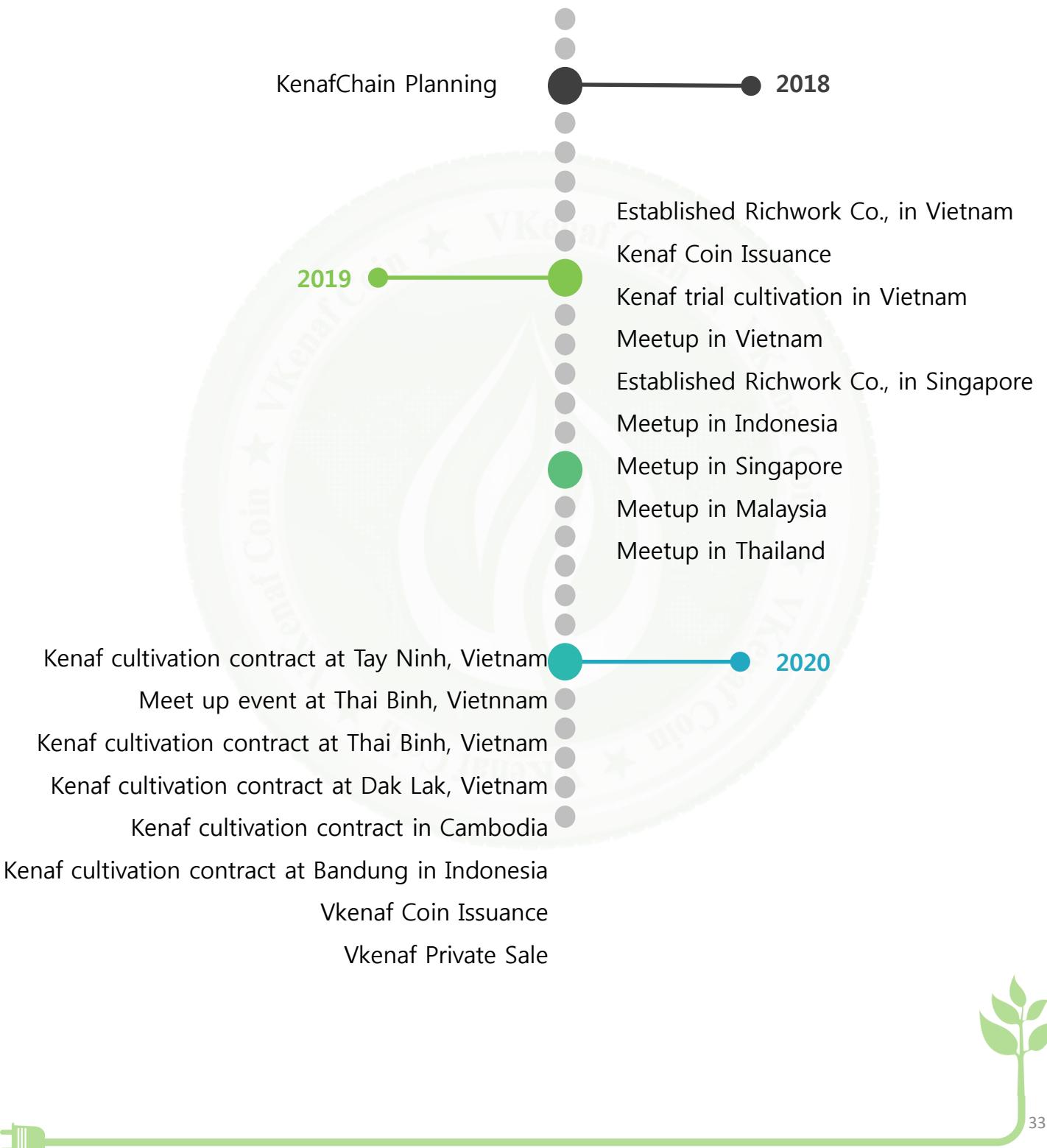




13. History & Roadmap

History

We have prepared a lot for the past 3 years for the development of VKenafChain.



Roadmap



14. Team & Farm

Team

Founder & CEO Jonh Khil	<p>With 10 years of experience at Duyang Steel Co., which is the one of the best Korean companies and 15 years of experience at Prudential Life Insurance Co., and MetLife Insurance Co., he quickly grasped global funding flows with rich expertise and experience in manufacturing, business and finance. Investing investors' fund in the right place to maximize effectiveness, he is currently a consultant to Top Non Exchange for pioneering Asian markets and will help many investors with rich financial and investment trading experience and knowledge.</p>
COO Deborah Yun	<p>Having worked in education and Japanese translation business for more than 15 years, she has gained experience in business travel agencies and trade-related businesses in Vietnam from 5 years ago. Communicating in Korean, Japanese and English, she is supporting business projects that have entered various countries with the partners speaking French and Russian. Since 2017, she has served as a manager in Asia for promoting arbitrage and cryptocurrency trading, and has also been in charge of practical affairs such as acting an advisor. Currently, she is working passionately to educate working-level officials in each country and facilitate business interaction.</p>
Director Do Van Son	<p>Mr. Do Van Son, co-founder and director of Richwork Ltd, headquartered in Vietnam, continues to maintain the company's overall vision and strategy. He has more than 20 years of leadership experience in management, marketing and finance, and has done a number of projects including working with American Express, DBS Bank, OCBC and Standard Chartered Bank to provide financial services for unprivileged children especially.</p>

<p>CMO Jeffery Park</p> 	<p>After conducting global marketing since 1999, he served as the Central Youth President at the Asia-Pacific Environmental NGO's Korea Headquarters and conducted research and guidance activities on eco-friendly agriculture, livestock and fisheries. And he also conducted research project on the recycling of waste resources (livestock waste's fertilization). Since 2014, he has been instructing police officers in Cambodia (MUSAT, UDT close combat martial arts, arrest techniques, etc.)</p>
<p>CTO Phan Ho Thien Truong</p> 	<p>Director PALANISAMY SEKAR</p> 
<p>CMO Global JAMES PARK</p> 	<p>General Manager of Kenaf Project KIM JI HAN</p> 
<p>Managing Director Nguyen Thi Huyen Trang</p> 	<p>Kenaf Manager Nguyen Anh Tai</p> 



Assistant Director
Nguyen Tri Tan



CFA
Le Thị Nhi



Community Manager
Tran Phuong Thao



Sales Manager
Tran Thị Thuy Dung



Supervisor
Hoang Thị Cuc



Developer
Akash Sekar



Developer
Huynh Huu Loc



TEAM
Nguyen Thị Huong Lien





Advisor

<p>TAEIN KWON Republic of Korea</p> 	<p>Belavignesh Murugessan Indian</p> 
<p>Global Financial and Trade Specialist</p>	<p>Marketing MBA and engineering</p>
<p>Kosshlavani Malaysia</p> 	<p>DongHo Seo Republic of Korea</p> 
<p>Blockchain and the decentralized application development</p>	<p>EveryCoin CFO ANYNEW VN CEO</p>
<p>DAO VAN THUAN Vietnam</p> 	<p>NGUYEN VAN BAN Vietnam</p> 
<p>Marketing Professional</p>	<p>Kenaf Project Manager in northern region</p>





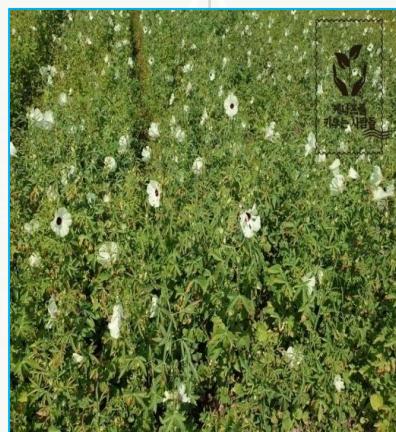
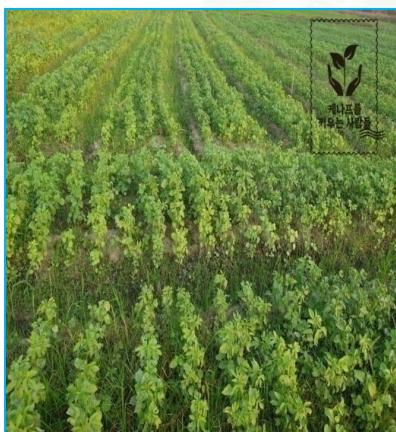
<p>HUYENDIAMOND Vietnam</p> 	<p>SeungMuk Kim Republic of Korea</p> 
<p>CEO & Founder GREEN COMMUNICATIONS & TECHNOLOGY JOINT STOCK COMPANY</p> <p>Do Van Nam Vietnam</p> 	<p>Global Marketing Advisor</p> <p>Tam Huynh Vietnam</p> 
<p>Training Expert</p>	<p>Senior Sales Manager</p>





Farm

TAY NINH



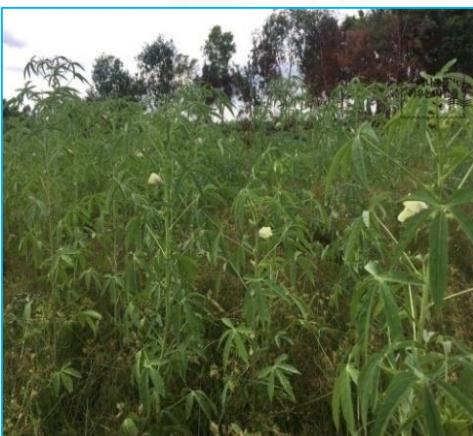


THAI BINH





THANH HOA





KIEN GIANG



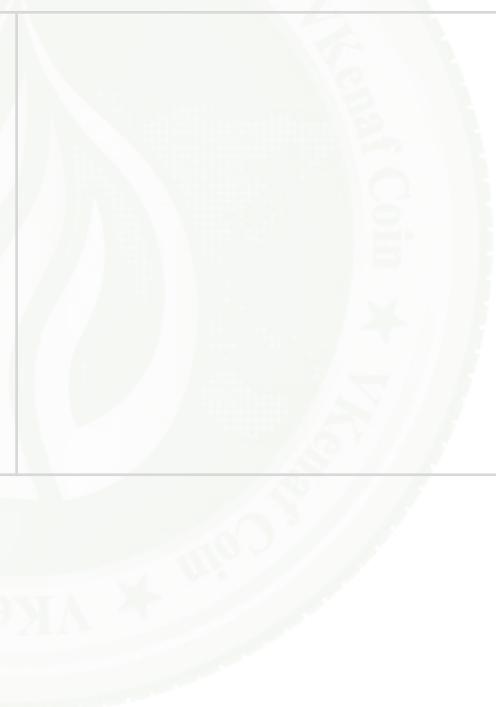


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15. Conclusion & Disclaimer

Conclusion

The VKenafChain team is deeply aware of the problems of the current agriculture and BlockChain world.

BlockChains for transparency, stability and security are exposed to hackers, bugs and malicious nodes, so the concept of trust is weakened and the development of the industry is being hindered.

With deep insight into business and BlockChain technology, we have solved problems and will do our best to achieve our goals.

Disclaimer

This document is currently being published as a draft and we strive to ensure that the content of this inquiry is accurate and up-to-date, but is not complete.

This document includes forward-looking statements, which are subject to change and are not noticed.

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April 1, 2020





vKenaf BlockChain

