

Since 2018

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# WHITE PAPER

Happily Walking Together  
Sharing Good Deeds

**MERCi Project**



Sharing makes us a real rich person, and through our act of sharing we discover who we are and what we are.

- Mother Teresa -

## ◆ What is SUNHAENG?

SUNHAENG is a hope sharing company and offers a variety of support programs such as MERCI coin support and job creation for those who need help regardless of race, religion, nationality and gender.

## ◆ Core Business of SUNHAENG

### Job Creation

Collaborate with a variety of online and offline crowdfunding to create the right jobs.

### Blockchain Adoption

Issuance of support grants based on the MERCI blockchain suitable for sharing and donation so as to provide the most efficient support in the most needed areas.

### Humanchain

The results of the sharing and donation projects are always transparent and open to the public. This allows people to be connected to form a humanchain, an effort to create shared values.

The ideal society we dream of is a society where **everyone lives together, everyone is happy, and everyone is free.**

However, our society is now experiencing a gap between the rich and the poor resulted from the framework, so called the market economy

MMERCI COIN will be able to restart the lives of those who need help and we can see how far MERCI COIN can make an impact on our lives.



Donation, dedication, service and love are the main themes of MERCI COIN.

The greatest variable in carrying out the project for restarting the lives of those in need with these themes is the participation of many people.

How much people care about and how many people participate in this project will determine the success of the project.

Thus, we want to make everything transparent in order to earn everyone's trust.

First of all, we will create **Good Deeds Sharing Company** which will become the main body of the project.

We will be a stepping stone for those who need help through this Good Deeds Sharing Company.

However, SUNHAENG Sharing Company that will serve as the core entity in the project is not a profit organization and thus needs the support from all of us.

This does not warrant that we simply ask donations to many donors for this project.

If some people donate one thousand USD with heartfelt enthusiasm to Good Deeds Sharing Company, the money will be first used for the basic operation of the company. It is then obvious that only a small amount of one thousand USD donation will be delivered to those who need help.

If we manage Good Deeds Sharing Company by spending donations as mentioned above, the meaning of the company will be destroyed.

Thus, SUNHAENG are going to make it transparent to the public where and how we use and donate the donation coins gathered by all of you.

We will make it the first priority to consider the precious heart that you shared.

## ◆ Theme of MERCI





## ◆ Technical Features

### **Increased compatibility by using Bitcoin's UTXO transaction model**

Considering the near future possibilities, we used the transaction model of Bitcoin, which is the most basic foundation of a blockchain. Of course, we proceeded the project by adding our unique transaction features. Many blockchain experts say... "In the near future, all blockchains will be compatible with each other. And that foundation will be Bitcoin." We also expect this prediction since we use a transaction model similar to Bitcoin. Our MERCI coin is not the best. We respect Satoshi, who created the first blockchain and incorporated his research in many areas. This can be seen in the case of the Wright Brothers. They initially discovered a flight technology that could fly an airplane only a few meters, but their aerodynamic method is still referenced to help produce airplanes far superior than the past ones.

### **Creation of more secure and reliable network by using decentralized protocols that are not reliant on specific individuals in power**

Among the fundamental aspects of blockchain, the most fundamental aspect is the role of a Node. Nodes store and review the records of other Nodes by a P2P method not a centralized method, and build a new block based on this method. This process is the most basic aspect of blockchain. Therefore, in the similar manner, the MERCI coin was implemented such that Master Nodes validate new blocks and preserve previous blocks, serving as the foundation for the ecosystem of the MERCI coin. Many Master Nodes will protect MERCI's ecosystem from the 51% attack due to someone's exclusive hash power.



## Support for Ethereum virtual machine based on Smart Contract

The MERCI coin used the basic principles of Bitcoin, but it did not overlook the practicality of Ethereum's Smart Contract. The Smart Contract is one of the most wonderful works of Ethereum, and our MERCI coin also designed its basic architecture to implement the Smart Contract. This feature will be open for use if MERCI blocks are operational in the near future and confirmed by many. The MRC20 token implementation based on the MERCI coin, like the Ethereum based ERC20 token, can be used to create a large number of DAPPs, which will increase the demand for MERCI coins.

We do not know yet if we will use the name of Ethereum's Smart Contract or our own terminology. However, it is evident that this part is also one of the important parts of the MERCI coin.

## Using the proof of stake (POS) protocol by Master Node

The existing block approval method mainly used the proof of work (POW) method.

However, the POW method requires a lot of capital and effort. In view of the marketability of recent cryptocurrencies, the decline of the Bitcoin prices has shut down many mining operations due to the high electricity and utilities costs that many miners cannot afford.

As a result, the formation of blocks, which is a foundation of Bitcoin, is often delayed and is not processed reliably. However, there is no excessive electricity fee burden in the POS method unlike POW. The number of coins you own will be certified as your stake, and you will be rewarded for blocks that are mined accordingly. In addition, in our MERCI coin system, only Master Nodes among Nodes, can participate in the system, and this mechanism make them perform the leadership role of the MERCI coin.

## Issuance of up to 30 billion coins over 100 years

The maximum number of MERCI coins is 30 billion.

77% of the total coins are already mined and distributed as outlined in the whitepaper.

23% of them to be mined in the future will be mined by Master Nodes over 100 years.

## Blockchain algorithm and consensus

- ▶ Use of the SHA-256 cryptographic hashing algorithm
- ▶ Use of the ECDSA asymmetric private key-public key encryption algorithm
- ▶ Verification of a signature via a public key
- ▶ Implementation of a distributed peer to peer blockchain network
- ▶ The reliability of a blockchain ledger in the network is determined by comparing lengths of blockchains.
- ▶ The Merci network generates a block through POS.
- ▶ The Master Node which is required to have a minimum number of coins ensures blockchain stability.



The total issue of MERCI COIN is 30,000,000,000. 77% of these will be pre-mined, and the remaining 23% will be minded when the block generation is approved by Master Nodes.

Blocks will be automatically generated at regular intervals over the next 100 years, and the auto-generated blocks are approved by Master Nodes. The block creation cycle is processed within one minute and the coin will be distributed to the Master Node that approved the transaction on the network. Although the coin could have been developed such that all coins are pre-mined to minimize wasteful power consumption and capital during the mining process, Moreover, as a minimum consideration for those joining the Master Nodes, the delegated proof-of-stake method using Master Nodes with a certain number of the reserved coins is selected over the proof-of-stake method using all nodes. the delegated proof-of-stake method using Master Nodes with a certain number reserved coins is selected over the proof-of-stake method using all nodes. The MERCI COIN is based on the open sources of several coins already published. We have put own unique blockchain architecture into the MERCI COIN. We would like to take this opportunity to express our appreciation to all coin foundations for providing open sources.

The following is the distribution of 77% of the pre-mined coins which is 23,100,000,000 coins.

Good Deeds Sharing Company that manages the entire project owns 20% or 4,620,000,000 coins. We will not use the MERCI coins that we possess for three years so that we maintain the market price of the coin stable. After three years, we will continue to develop and evolve MERCI COIN by using a minimum amount of the coin t realize the self-sustaining power and roadmap of Good Deeds Sharing Company. 10% or 2,310,000,000 coins will be given to a support company that will support and operate everything related to the project. It is a reward for three years of services such as software development, server building, and marketing. In order to build a Master Node, you have to have more than 6 million MERCI coins in your wallet. Then, everyone who meets this qualification is eligible to become a Master Node. If you have coins in your wallet with the qualification of running a Master Node, you can approve and mine for the MERCI blocks and receive MERCI coins as a reward for it.

24% or 5,544,000,000 coins will be reserved as donation coins, and a certain amount of the reserved coins will be credited to the main donation wallet when people register the proof of their donations or love and service data to the MERCI-prepared platform. The detailed financial statement of the credited coins will be transparent to the public so that they can be fairly distributed to those in need. 10% or 2,310,000,000 coins will be used for exchange air drops and homepage visitors to encourage anyone to join the project. The coin will be paid at the time of joining as a member at the homepage, and the coins to be mined will be paid to Master Nodes in the form of dividends for block creation and approval.





The MERCI platform is a homepage used to share users' volunteer activities and various memories and to donate MERCI coins to people who need help. You can use the platform if you only have a personalized e-mail. After receiving a confirmation e-mail, you can click the authentication button inside the e-mail to activate your account and use the platform after login.

It is the activity pictures that occupy the largest portion of the platform. When a person or company registers a photograph of an activity and selects a donation entity, our system allows the donation coins to be accumulated in the donation entity.

\* You can decide whether or not you want to make the photo public while registering the activity photo.

\* In order to be approved for the activity photo, the personal identification key shown on the dashboard page after login must be confirmed on the activity photo.

These deposited coins will not be paid to those who posted donation activities, but they will be accumulated in the open wallet and paid to the selected donation entities over a period of time.

Those in need might want seemingly valuable cash right away, but with the help and commitment by many people, as soon as the MERCI coin is listed on an exchange, we are confident that it becomes the first step to escape hunger and return to society to live together, not just a cash to live a day.

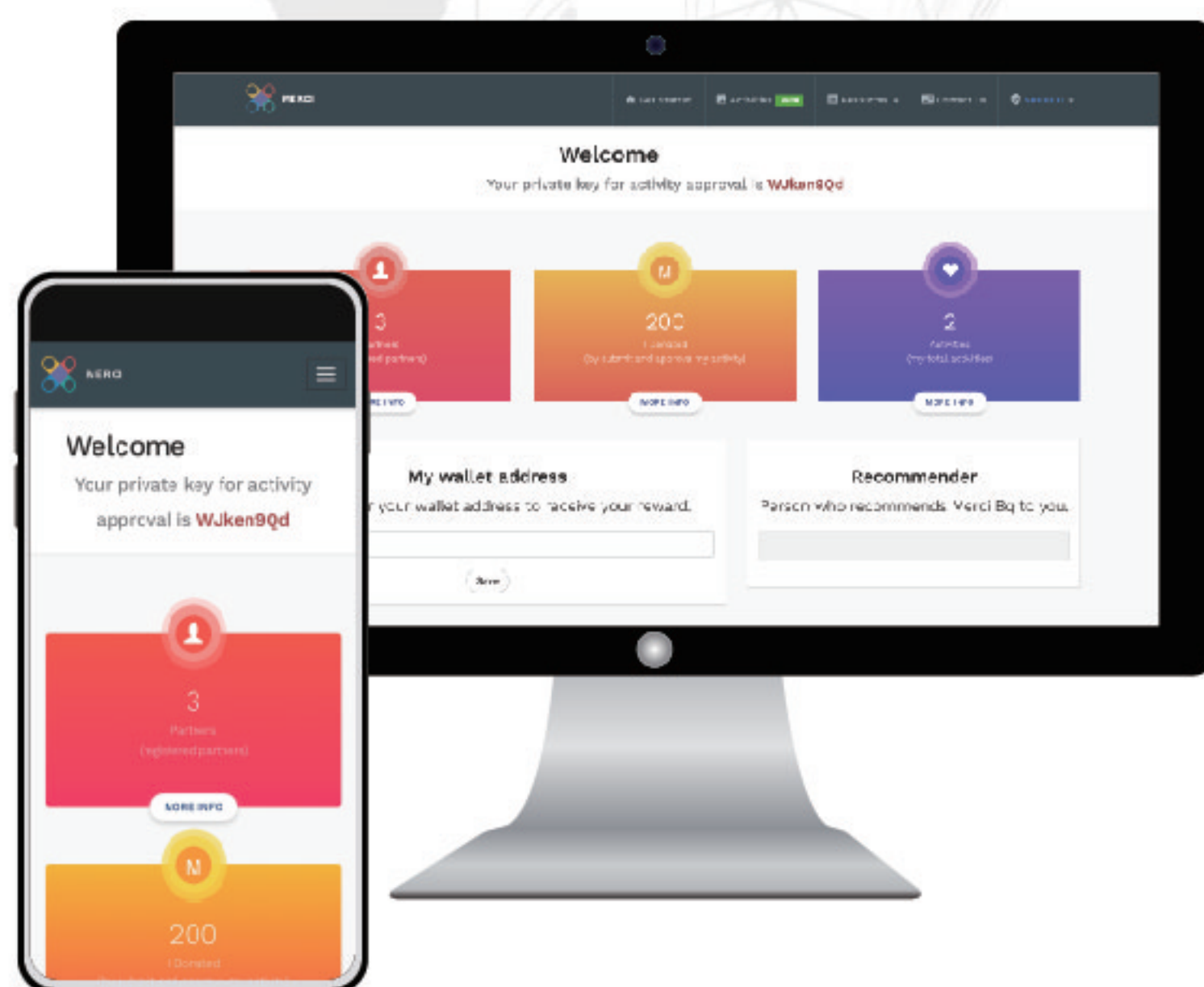
Through this project, we will find out that many people's commitment and meaningful actions can give a lot of help to everywhere needing help. We hope to prove that these small movements can come together to prove that the word 'hope' exists in all human beings in the world and that we can live together. We will contact many related institutions, organizations and individuals.

In the process, we will meet people who need help

and will look for people who can help. However,

it is clear that the donated coins, which is owned by SUNHAENG Sharing Company, will be depleted after a certain period of time. However, we believe that many people will join this project if we start this project on a great note and showcase the success of the project. If many people participate in the project and we gather many donation coins, the donation coins will not be depleted and we believe this project can be continually maintained.

Please use the MERCI platform to tell everyone about your warm heart.





## MERCI blockchain secure document storage system

There are many storage devices in the world.

However, these storage devices can be manipulated to change the stored content at any time whenever their operators intend to do so. However, when blockchain is used, the contents stored in the storage devices cannot be changed and can be stored without being falsified.

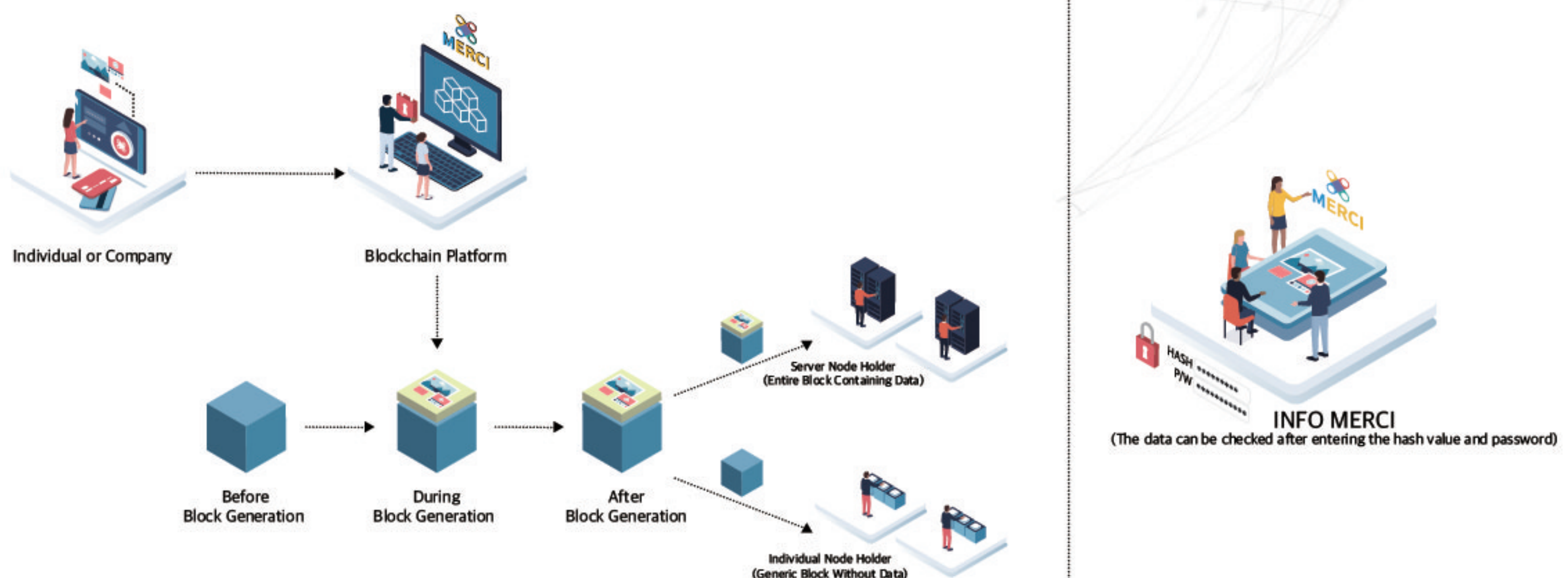
We will develop a blockchain system that allows anyone to easily store and check all the contents and memorable activities that occurred in everyday life. But there is a block limit to storing documents or image files on these systems. All coins create blockchains and store blocks, but the storage space that they have is too small.

Thus, we want to implement a P2P storage system in our MERCI coin block, which is the most fundamental system in a blockchain. As you can see in the figure, an image file or a document will be linked to a block by using a bridge program that can link the image file or the document to the block during the block creation. At this time, a fee will be charged for the linking process. Moreover, the actual blocks among the linked blocks will be sent to all Nodes, and the block associated with the document or the image will be sent to the Sub Node holder. At a first glance, this may seem simple, but it requires a lot of technology. Because Sub Node has enough space to process large amounts of data, it can process the contained blocks. Because it contains the block here, it has the same block height as an individual Node. Because the cost for those who hold the Sub Node increases accordingly, the fee incurred for sending the linked image or document will be sent to the owner of the Node to cover the cost.

The hash value that is generated along with the block will be the value that is used to get the image associated with the block. On the other hand, if anyone searches and sees the hash value, it will be a potential issue.

Therefore, a system is created where opening the file requires two values, a password value and a hash value which were used when the file was connected to the block.

The block archiving using the P2P method where a block is stacked on the top of another block is the most fundamental part of the blockchain standards. The system by mutual consensus among individuals without the central control is the most basic principle that MERCI pursues.





## MERCI coin, mileage, and point interchange platform

There are many kinds of points in the world.

Many of these existing points can only be used in respective shops or designated places, and they will usually be expired after a certain period of time. However, by the mutual business agreements with the MERCI coin, points will be given directly in the MERCI coin, or points already given and the MERCI coins will be exchanged through the MERCI point platform. The MERCI coin will take the lead in making it more efficient the use of points and mileages that are now overflowing in the market. All points and mileages in the world have limitation of where we can use them, but the MERCI coin will become a stepping stone bridge. We will build a platform that can exchange points to allow them to be used anywhere in the world. This also requires a difficult task of maintaining symbiotic relationships with many companies, but we will make sure that the MERCI coin exchange platform becomes the foundation where everyone can share happiness in the world.

We think that it is a task worth challenging if this project helps even one person, by making it easy to exchange the donated MERCI coins and the points of companies which are owned by each individual by using the MERCI exchange platform.



## MERCI coin shopping mall

We will make sure that everyone who use MERCI coins enjoy the benefit of shopping. It is a bit irrational to introduce a coin whose price is not fixed and can be volatile, into the shopping mall transaction. However, this issue can also be solved if a payment module is used by linking the payment system with the exchange. Some might have a lot of coins but may feel inconvenience in using them because there are too few actual places to use the coins. However, in order to reduce the inconvenience, the MERCI coin will be used in a coin shopping mall created to solve all the shopping need for everyday life.

There will be no hassle of exchanging personally owned coins into a legal currency all the time, and the direct purchase with the coins will be possible.

The coupons issued by donation entities will also be used in the shopping mall.





## Ongoing business agreement discussions with public institutions and charitable organizations

The public institutions and charitable organizations are helping the underprivileged in their own way, respectively. However, there are many who question the transparency of those organizations. Blockchain can be free from these questions. The transparent work is essential for each public institution or charitable organization, and organizational activities through business agreements with the MERCI block will be more convenient than otherwise. Of course, as the system is more integrated, the MERCI coin can be readily used to help the underprivileged. We will accomplish everything we set out to do so that it can be used whenever and wherever SUNHAENG are practiced through people's sharing.



## MERCI Card

You can use MERCI coins through MERCI cards.

The MERCI coin to be used will be sent to the card company to make a card that can be used freely in everyday life. The MERCI card will be used anywhere in the world for shopping, payment, and cash withdrawal, etc., having features not different from existing cards. Many people say, "I've seen coin companies like that, but I've never actually seen their use case in any place." However, the MERCI card is different. We have set up a business agreement with a card company such that if you send only the amount of the MERCI coins you want to use, you can freely use them anytime and anywhere.

However, the time of the implementation will be at a point when the trading volume will rise to a certain level after blocks stabilize and the coin is listed on an exchange.

Of course, it is possible to make the card available in the near term, but the business agreement with the card company demands stability of the block, listing of the coin in an exchange, and a trading volume over a certain amount. How soon you can use your card essentially depends on your participation.





We will see how a coin without value can be valued by working as a medium and that this created value can help those who need help. Furthermore, we will allow MERCI COIN to go deeper into our daily lives. MERCI COIN, which was given to those in need through the participation and commitment of everyone, can be exchanged with fiat currency and spent if it is possible to exchange it with fiat currency, but we will make sure that MERCI COIN can be used instead of points or mileages in our daily lives such as at public institutions, corporations or organizations. You will be able to use the received MERCI COIN as cash via the exchange, or make a donation using the MERCI platform. Numerous coins are still being created and disappear. Looking at a lot of coins that came out with their own purposes but disappeared without achieving their goals, we question whether there was too far a gap between the purpose and ideal and the reality. We have seen many investors who have joined the ICOs only to suffer disappointment and regret due to hard to understand and complex whitepapers and not following proper due diligence. However, we will continue to lead the project reliably without disappointing all those who watch MERCI, believe in the ideals of MERCI, and trust the promises of MERCI. we will work hard and move forward. This project is not a project created by one person for one's well-being but a project for many places that need help, so many people will help us. This whitepaper might have been too wordy in explaining the MERCI project. From a professional point of view, it may seem insufficient, but we carefully wrote every word in the whitepaper with the intention of reflecting the ideas of SUNHAENG. Please read the whitepaper and contact SUNHAENG Sharing Company of MERCI at any time if you have questions or would like to contribute. We will do our best so that MERCI COIN can help create a hopeful society where everyone can live together.



This document is for the MERCI team, which contains plans for the miner platform business and the MERCI COIN function. The MERCI team can adjust its business plans according to industry development, related regulatory requirements, administrative regulations, local regulations, and departmental regulations at any time.

This document does not contain legal opinions on the sale or purchase of MERCI COIN or related companies, company securities, or proprietary securities. However, similar proposals or prices may be applied in accordance with applicable securities laws and other relevant laws and regulations.

The information or analysis presented in this document does not contain any opinions or advice about investment and should not be construed as an offer, commitment, act or agreement between individuals. - MERCI COIN is a cryptocurrency coin issued by the MERCI platform.

- MERCI COIN can be obtained by getting a Master Node status or purchasing it on an exchange.
- The MERCI team can increase or adjust the coin service content as needed for business development.
- The price of MERCI COIN will be determined through market transactions.
- Users who buy and hold MERCI COIN can benefit from increased coin prices, but they may see losses due to price drops.
- The MERCI team makes no promises or guarantee about the future price of the coin. The MERCI team made it clear that users should be aware of the risks of the MERCI project. When individual investors or institutional investors participate in MERCI COIN investment, they should understand and accept the risks of the project and take the consequences or risks that may arise. The MERCI team is not responsible for direct and indirect losses incurred by MERCI investment projects (economic loss due to user's management, economic loss due to user's mistakes or negligence and incorrect information, economic loss due to user's blockchain product transactions, economic loss due to irresistible or unforeseeable risks, economic loss due to blockchain regulations, etc.).

MERCI COIN is not an investment management product. Under certain circumstances,

MERCI COIN value may decline. The MERCI team does not guarantee a rise in the coin price.

Holding MERCI COIN does not have ownership, control, or decision-making power over the MERCI platform or company. MERCI COIN exhibits a commercial value, but not are securities.

Newly emerging financial products should not be registered as securities in any country or region.

The content of the whitepaper is subject to change, and the current whitepaper is the whitepaper published on December 28, 2018.

The latest version of the whitepaper is available at <https://mercibq.com> or <https://www.sunhaeng.com>