

# GotG



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POWERED BY GOTG PLATFORM

We have introduced the **world's first guarantee and insurance solution** in the **digital asset market**. GotG Platform has a built-in structure of value internalization to convert tangible assets and the value of real-world businesses into digital assets. This is the key to implement the DAG guarantee and insurance solution. Now, digital assets traders and foundations issuing digital assets can be free from the shock of seeing the value zero out. GotG has earned its recognition as an innovative platform in the digital asset market, and is ready to provide more stability and profitability to project foundations and our consumers.

We launched the project in April 2019. To realize the mutually beneficial structure for creators and consumers through the convergence of **blockchain** and financial platforms, we established a company and launched the project in order to develop technology and introduce our business model.

**GotG** will be a leading company that provides momentum for the upcoming virtual world of the **metaverse**. We work towards the future of core technologies of the 4th Industrial Revolution such as IT, metaverse, and **NFT**, based on the research of Liberal arts, Hanism, and Han philosophy. We will not remain as just one of the technology companies. We are also in preparations for a differentiation strategy to implement **K-content** along with the flow of the **Hanryu**(Korean wave) and the core values of **Korean culture** onto the upcoming virtual world of the metaverse utilizing our profound business experiences. As the front runner, GotG will provide momentum and inspiration by presenting a more realistic world to the global fandom of Korean culture who visits the metaverse and communicating our company's vision to related business owners and employees.

We hope you can join **GotG**, the **God's Gift**, as a valued customer and share the values of the future together.

Dec. 2021  
GotG Platform  
Founder **Eom Meen**



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# From GotG

The Surveillance to Protect Digital Assets



DAG Guarantee·Insurance Solution

## GotG Platform

### The World's First Guarantee·Insurance Solution for Digital Assets

GotG launched the world's first DAG guarantee·insurance solution in the digital asset market.

GotG was the first platform in the digital asset market to implement the DAG guarantee·insurance solution which is evaluated as an achievement that dramatically improved the stability of digital asset investors. Now, digital asset management foundations and digital asset investors can obtain both stability and profitability for their digital assets at the same time through GotG Platform's DAG guarantee·insurance solution.

### Built-in Structure of Value Internalization

GotG Platform developed a 'built-in process of value internalization' that converts tangible assets and the value of real-world businesses into digital assets. It is a structure that issues the values of tangible assets, real-world businesses, and intellectual property (IP) through NFTs and internalize them in GotG. This is the innovative digital asset platform that has solved the 'absence of intrinsic value' known as a problem with the existing digital assets.

### Automatic Calculation · Automatic Settlement Feature

GotG Platform provides the feature of automatic calculation· automatic settlement through the configuration of a decentralized pool of digital assets. We have set up the feature of automatic calculation· automatic settlement as the first in world history to establish the structure of production · distribution · settlement · payment on the basis of asset values in the digital asset market. When a project pool is created and the project succeeds, return on investment (ROI) is automatically calculated at the promised rate of return and paid to investors. When a project fails, GotG Tokens deposited in the pool are automatically paid to investors.

All processes of the DAG solution will present transparency and fairness to platform participants, allowing digital asset users to trade digital assets with high reliability.

## Native Token(Key digital token): GotG

The native token(Key digital token) used by GotG Platform is called 'GotG'. It indicates a token holding the value of digital assets. A digital asset with value, that is GotG.

\* GotG is literally pronounced as '갓지 Got G' in Korean. Got G has the same pronunciation as '같이 Gatchi: together' and '가치 Gachi: value'.



## DAG Program

It is a program with a structure in which the value of tangible assets is converted to NFT, internalized into digital assets through the guaranteed circulation structure, and provides guarantee power again. We named it the Digital Asset Guarantee Program. GotG Platform is a digital asset guarantee·insurance solution platform installed with DAG Program.



# DAG Guarantee·Insurance Solution

## The Issues of Digital Asset Market

Currently, the digital asset market is shocked of seeing the investors' assets being 'zeroed out' due to the 'absence of intrinsic value'. The foundations that manage projects and businesses also have a risk of liquidity and failure.

## The Answer is Guarantee·Insurance Solution

We solved this problem with the DAG guarantee·insurance solution installed in the GotG Platform. The DAG guarantee·insurance solution provides liquidity and stability by assuring a guarantee to digital asset investors and foundations managing projects. The magic that protects digital assets is the DAG guarantee·insurance solution.

## DAG Mechanism

In order to receive GotG's DAG guarantee·insurance solution, individuals holding tokens for business, NFT issuing foundations and tokens, and NFT assets should sign with the GotG platform for the DAG solution after a certain screening process. Then, they should transfer a portion of their digital assets to GotG's guaranteed asset basket.

In case the owned assets go bankrupt and the value and price are 'zeroed out' due to the foundation's business failure or delisting, investors of the foundation who have been guaranteed from contracts with the foundation's guarantee program and individuals who have been guaranteed from contracts with the individual guarantee program will receive the issued and listed GotG tokens in the GotG Platform's guaranteed asset basket for the part of or the whole digital assets possessed based on their DAG guarantee·insurance solution contracts. After that, GotG tokens will be locked up for a certain period of time, and it will be released by periods. Then, the holders will be able to sell on the exchange where GotG is listed.

This process helps the investors of the foundation and individuals who contracted with the DAG guarantee·insurance solution restore the digital assets that are nearly lost. Even if GotG tokens are locked-up, they can be exchanged for the listed digital assets of other foundations through the trading function within the GotG service application, Jumoney, which can increase its liquidity.

\* Because of the DAG guarantee·insurance solution, the GotG platform will have big control over the circulation volume of the digital asset market due to the effect of locking lots of circulating tokens and NFTs listed on the digital asset market.

# GotG Guaranteed Asset Basket

## Underlying Assets of 1.5 Trillion KRW

GotG's guaranteed asset basket is filled with underlying assets (1.5 trillion KRW) of issued NFTs on the basis of tangible assets owned by GotG Platform.

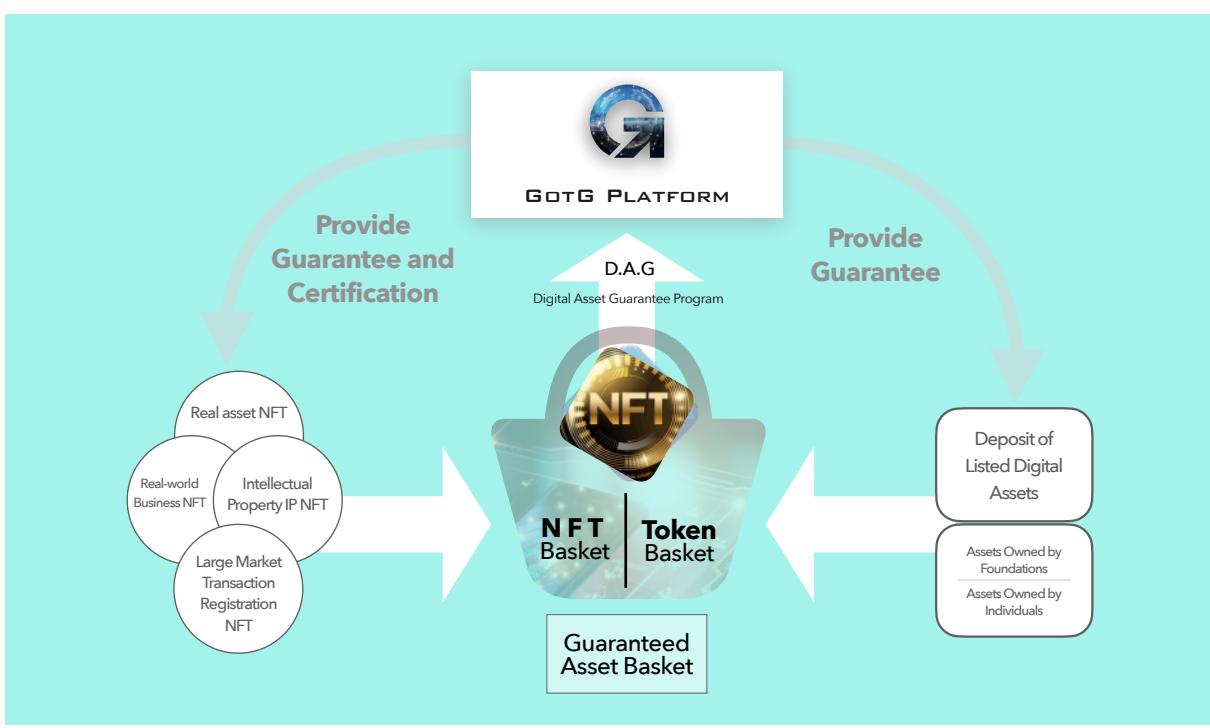
## The Guaranteed Power and Cashability

NFT with real value issued by GotG Platform and NFT with high cashability for which GotG Platform has secured IP are continuously placed in the GotG's guaranteed asset basket to increase its guaranteed power and liquidity. Cashability provides strong liquidity to consumers through NFT markets and exchanges, and the consumers' liquidity is moved to the guaranteed asset basket by the virtuous cycle system of the DAG solution.

All of these actions ultimately result in securing strong liquidity for GotG, which in turn supplies the liquidity of the powerful GotG Platform to creators and investors.

## Continuous Increase in Value

Some of NFTs issued as tangible assets, real-world businesses, and intellectual property (IP) will be sold for trading and the rest will be put into the guaranteed asset basket. Not only the NFTs, but the assets of coins from other foundations wanting to be guaranteed can also be placed in the guaranteed asset basket. As the new IP NFTs and digital assets are accumulated in the guaranteed asset basket regardless of success or failure, the quantitative and qualitative values of guarantee·insurance continue to rise.

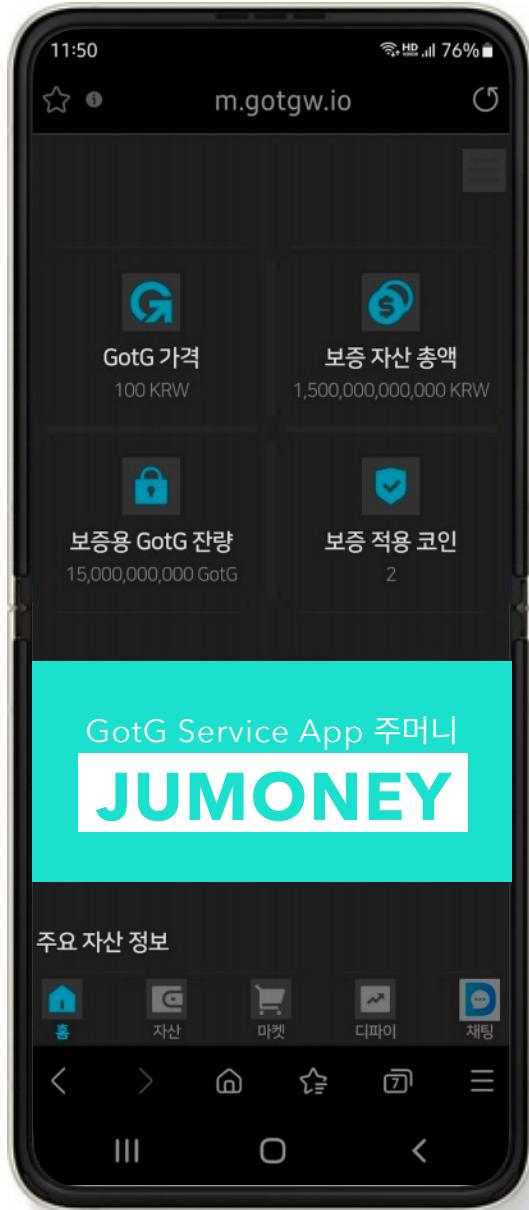


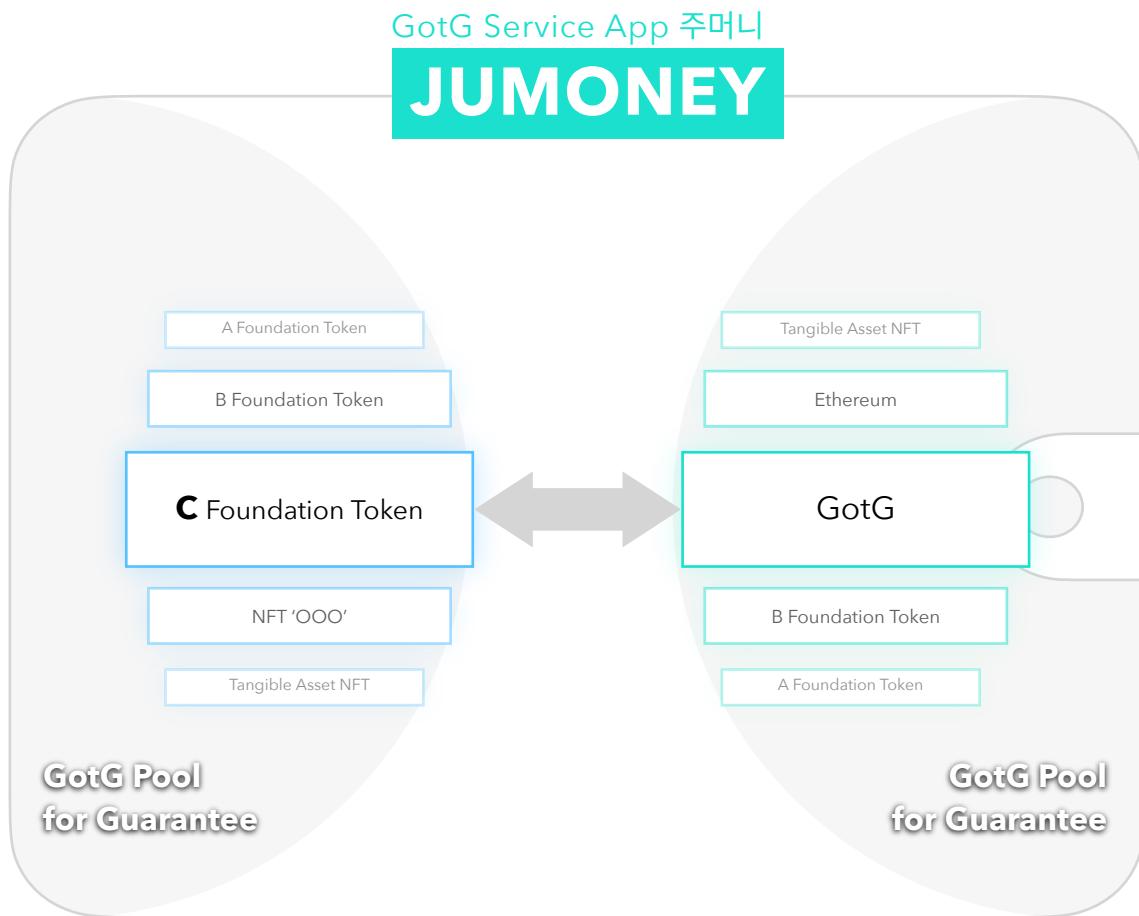
# GotG Service Application **'JUMONEY 주머니'**

**The Integrated Service for Wallet - Market  
- Messenger At Once.**

The GotG service application 'Jumoney' contains W-M-M which indicates multi-chain Wallet / Marketplace / Messenger. The GotG Jumoney is a multi-wallet developed by reflecting the users' needs. The users cannot have more convenient experiences than trading, sending, and receiving all digital assets within the GotG Jumoney.

\* The meaning of Jumoney(주머니): In Korea, Jumoney literally means a small bag that can put personal items or money to carry or wear around the waist. The GotG Jumoney implies for Lucky bag.





### Wallet - Equipped with Exchange Feature

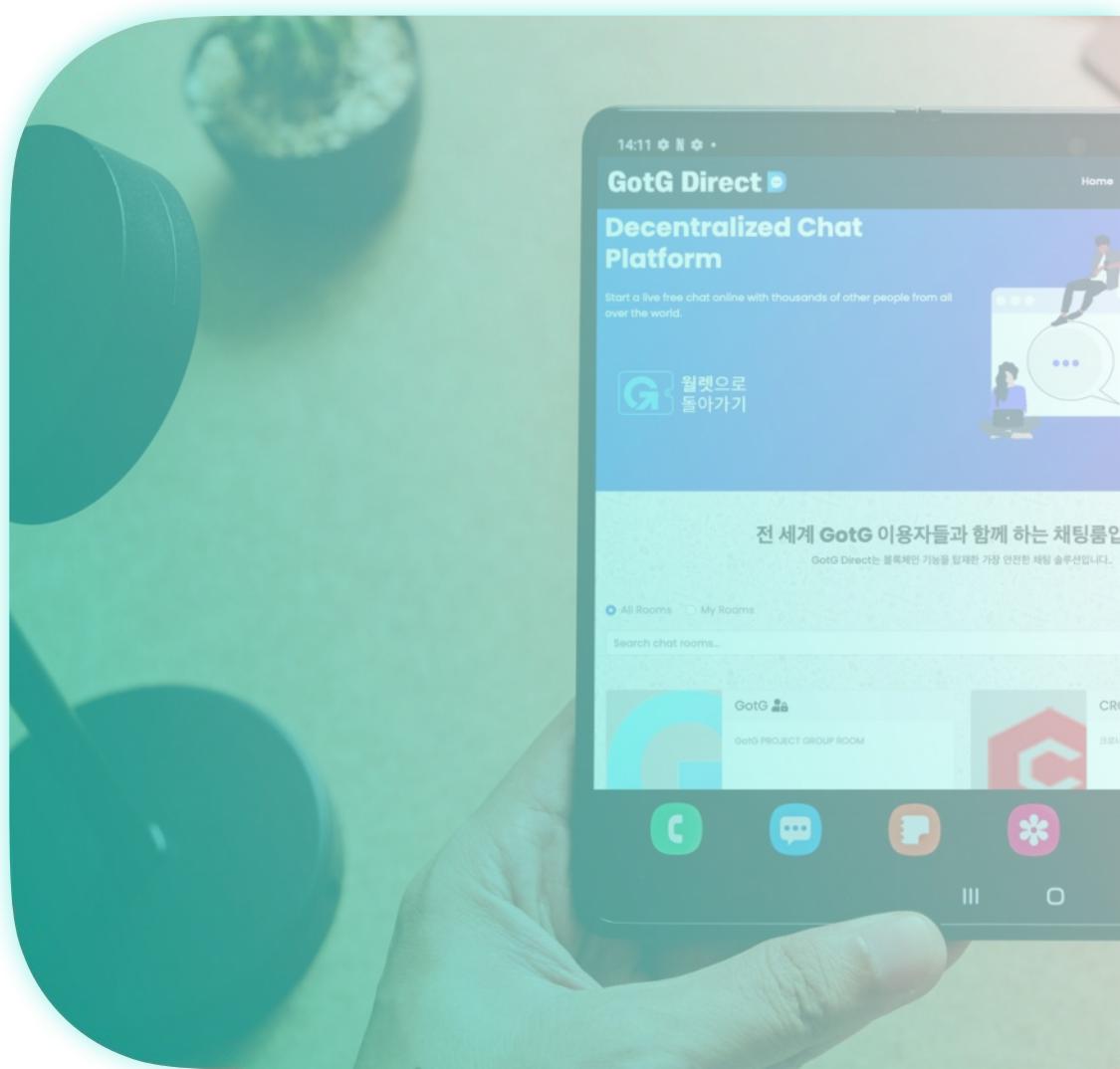
The wallet is equipped with a trading (swap) feature that allows exchanges between digital assets, so holders who possess listed tokens can easily use the swap feature within the application to trade listed tokens and other tokens at once without going through multiple steps.

## Market - Digital Asset Shopping

'My own digital asset to choose like shopping at a market,' the GotG Jumoney Application, delivers the market to you. It is the market where you can shop digital assets such as GotG, listed tokens of other foundations, and NFTs.

## Messenger - p2p, airdrop

The world's first developed blockchain messenger, GotG Direct, is a messenger that has features of p2p and airdrop, and the users can easily send and receive digital assets for their convenience. The users can freely exchange digital assets they desire using the p2p method.



# GotG Sophistication

## The Sophistication Project on Landing Page and Service Application

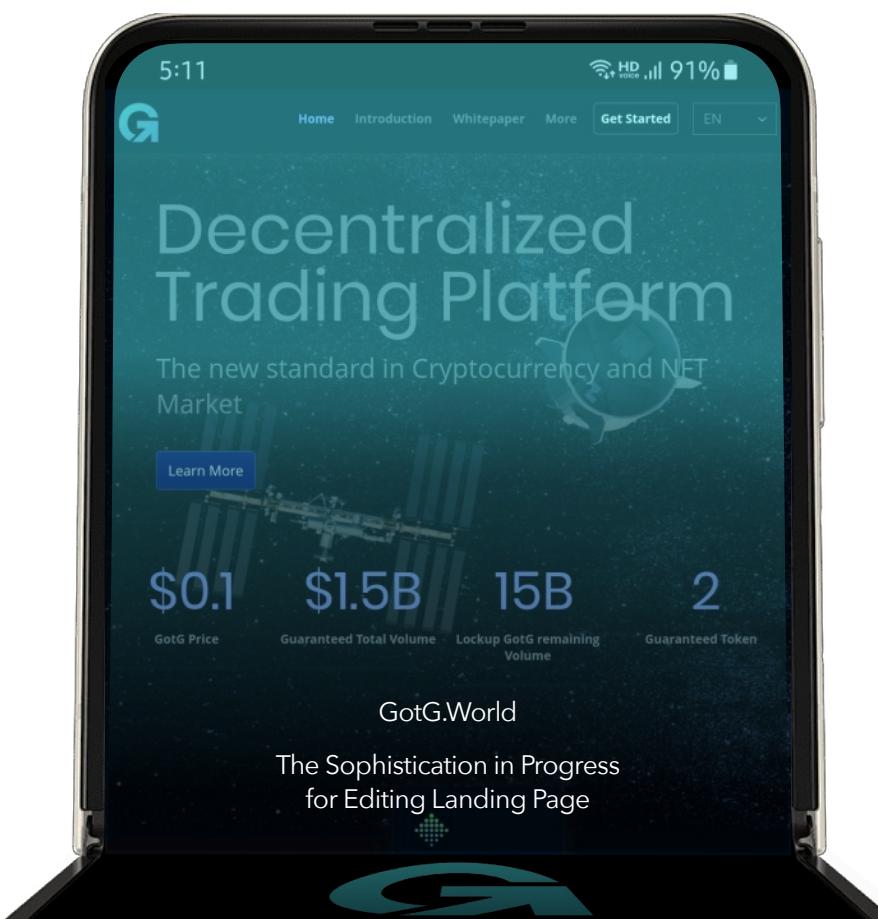
With the confirmation of GotG symbol and UX·UI, we are in a process of reorganizing and upgrading the design of the landing page and service application 'Jumoney'. We will soon present the highly sophisticated version of them.

## Promotion Channel Expansion

There are 33,623 members on GotG Global channel in Telegram as of early December 2021 and 21,387 followers on GotG's Twitter account. GotG is in a process of upgrading its promotion channels to expand and communicate with global users.

## Mainnet Set-up

We are expecting to take over the developed mainnet and to change it to a structure suitable for GotG as another upgrading process.



# Now NFT

Visible Digital Assets



NFT

NFT(Non Fungible Token)



**Blockchain**

Metadata · Unique Identification Information

**Rights**

Ownership · Copyright · Certification (Written Guarantee)

## NFT by GotG

**Non-fungible · Verification of Original · Traceable**

NFT is a digital file with a unique ID that can be verified on a blockchain, and it is not interchangeable unlike Bitcoin. Cryptocurrencies such as Bitcoin are fungible (FT), so it is different from NFT. This non-fungibility allows NFT to perform the function of proving the 'original' and entitles as a digital asset that can hold in the rights of almost any tangible or intangible assets, including artworks, music, videos, collectibles, trading cards, virtual items, or real estate.

NFTs are also traceable and cannot be duplicated because each NFT contains a unique serial number or non-replicable 'fingerprint' (hash).

## NFT Brought Revolutionary Changes in the Copyright System

NFT, which destructively innovates the existing copyright system, implements the creation and transfer of rights such as ownership or copyright to digitally created works with blockchain technology.

Even if creators do not register their works to the Copyright Association, they can create their own works as NFTs and announce their creations to the corresponding digital network, and automatically receive royalties without tracking the use of their works. Since a revolutionary change has begun in the existing copyright system, people craze about NFT, a digital asset.



## Visible Digital Asset, NFT

Instead of digital assets that were invisible making doubt for the existence, NFT known as a visible digital asset is recently all the rage.

GotG issued the world's first tangible asset based NFT in April 2021. The NFTs created by GotG are visible. We approached NFT in the eyes of Liberal arts, not in the eyes of technology. Therefore, we could plan and release the differentiated NFT business model and could still run new businesses with a number of partners.

GotG provides a written NFT digital guarantee (certification of genuine product) for the products in Amazon Korea Mall by utilizing NFT certification feature. Also, we are planning to provide consumers 'compensation-guarantee plan' by applying the DAG solution in case of forgery accidents or copyright violations. Since the native Token(Key digital token) GotG is used in all processes such as guarantee, insurance, and compensation, the value of GotG will continue to increase.

# Amazon Korea Mall by GotG Platform

## The Operation of Amazon Korea Mall

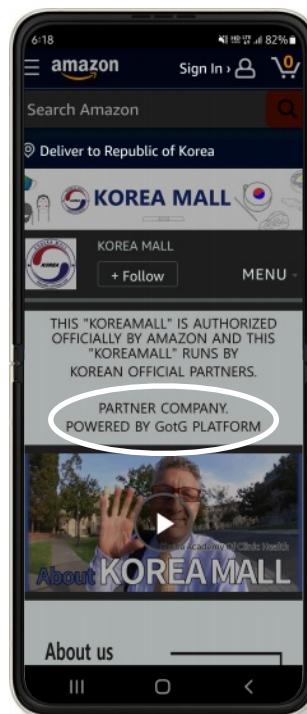
GotG Platform runs the Korea Mall on the website of Amazon, the world's largest shopping mall, which ships its products to 180 countries around the world.

GotG will transform Amazon Korea Mall into a professional shopping mall for K-products with Korean wave and other Korean products based on a differentiated strategy.

### \* **amazon.com/koreamall**

Partner Company Powered by GotG Platform

\* Currently in Preparations



## Operations Strategy

### **The first**

**K-Content + Celebrity Goods**

### **The second**

**K-Products + K-Content + NFT**

NFT certification business for the original K-products and K-content

### **The third**

**GotG Guarantee Compensation Plan (TBA)**

GotG compensation plan will be provided in case of issues with NFT certified genuine product

## K-Content + Celebrity Goods (example)



## K-Products + K-Content + NFT



### NFT Certification of Original K-Content and Goods

We will start with selling goods linked with K-Content along with the flow of the Korean wave, and other Korean products on the Amazon Korea Mall. Then, NFT digital certificate of genuine product is issued through the NFT certification process.

## METAVERSE

### Amazon Korea Mall → Enters Metaverse Shop

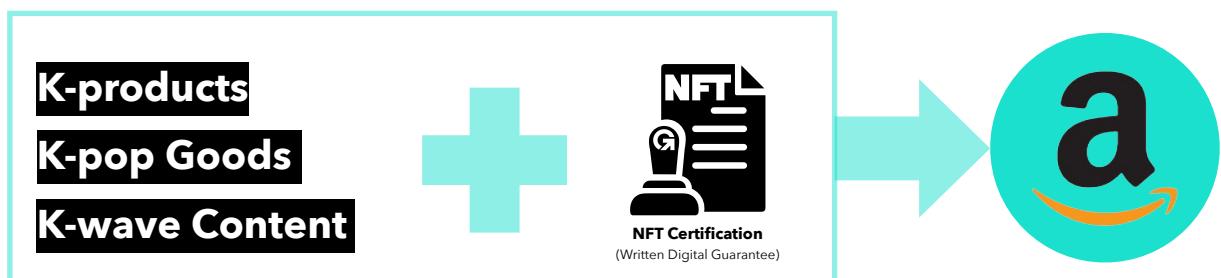
K-products in the Amazon Korea Mall will be converted to NFTs to enter the metaverse shop.

## NFT Certification Business

A lot of Korean products are sold by Amazon. However, most of them are counterfeit products that are not produced in Korea. For example, in the case of hanbok, more than 90% of clothes are not from Korea but cheap copies made of nowhere. In the case of goods of the Korean wave, unauthorized copies without a license are also on sale.

GotG conducts NFT certification business for Korean products, goods of the Korean wave, and K-brand products. Amazon's worldwide consumers will be able to purchase 'certified genuine Korean products' with the NFT digital certificate of genuine product issued by GotG.

- ✓ In order to receive the NFT digital certificate of genuine product issued by GotG Platform, the seller should pay the certificate issuance fee with GotG, the native token(Key digital token).



## GotG Compensation Plan (TBA)

GotG is planning to commercialize the service of 'GotG Compensation Plan', which provides compensation to consumers if the products sold by GotG are found to be counterfeit and forgery. The consumers who are suffering from counterfeit and forgery will be compensated with 'GotG', and GotG will serve as a native token(Key digital token) optimized for the compensation plan.

- ✓ The detailed description of 'GotG Compensation Plan' will be included in the 'business plan for Amazon Korea Mall'

## 'A young Korean man maketh the Hanryu(Korean wave)'

GotG supports the project on youth creative content with the slogan of 'A young Korean man maketh the Korean wave'. The content created by the Korean youth through media commerce are creative and clever. They create quite interesting advertisements. GotG will provide the youth with support and strategies in connection with Korean cultural products and K-products. Idols are not the only stars of the successful Korean wave, but even promotional content created by the Korean youth are also K-content of the Korean wave. We will help them by building a new system to transmit their high-quality content onto Amazon Korea Mall. We are planning to promote a project to support the basic income of youth content creators with the coin, GotG.

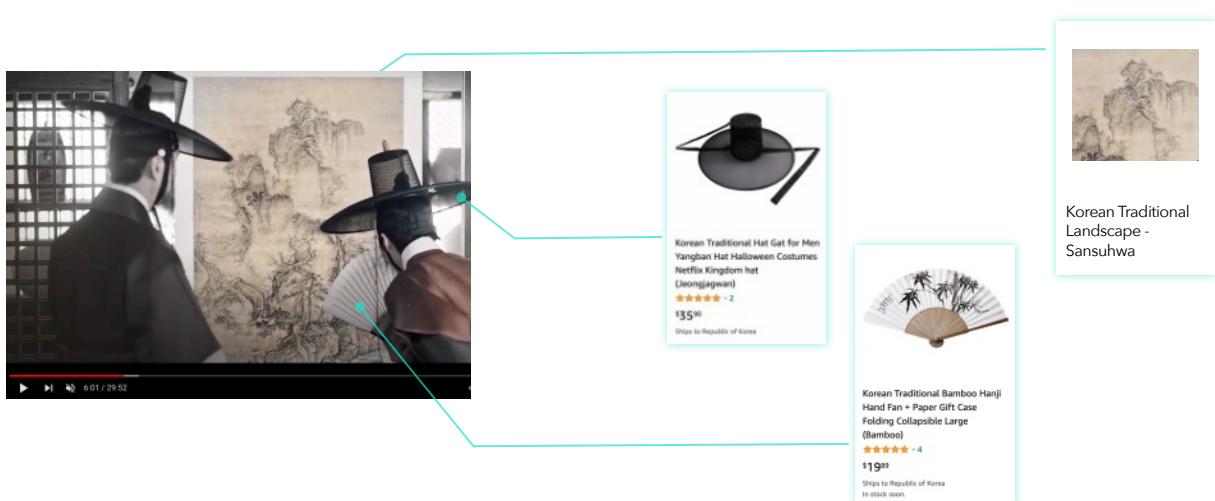
- ❖ The advanced content creation: Support for sending the content to Amazon, Provide the coin, GotG, as a reward (basic income support)
- ❖ GotG Partners Creator: 1,270 video-based creators, 27.6 million cumulative followers



## Special Edition

Discover products made by Korean masters, tangible and intangible cultural assets, and sell through NFT certification!

We will continue to discover unique Korean products and supply them as special editions on Amazon Korea Mall. Through our efforts, Amazon Korea Mall will introduce differentiated products to global fans with the Korean wave and Korean culture fandoms around the world.



## NFT Production Base Creation

### Signed MOU with Sewon E&C listed in KOSPI

GotG Platform and Sewon E&C (KOSPI:091090) signed MOU for the promotion of joint NFT projects on October 7, 2021. Through the establishment of a joint venture, we plan to secure a number of intellectual property rights (IPs) such as the Korean wave, games, and entertainment, and carry out the business of converting them into NFTs. We are building the NFT production base through business agreements with a number of partners, including famous entertainment companies.

News : <https://news.naver.com/main/read.naver?mode=LSD&mid=sec&sid1=101&oid=003&aid=0010758935>



October 7, 2021,  
NFT business agreement signed



Production Base Creation

## NFT Business Model : Damda.N

GotG will release NFT business model 'Damda.N' with the motto of 'contain value', 'contain asset' and 'contain copyright'.

'Damda.N', a completely differentiated NFT business model based on GotG's analysis on Liberal Arts, consists of A Series - Art NFT Collection, R Series - Real asset NFT Collection, F Series - Fashion NFT Collection, etc. We plan to collaborate with various partners by providing the optimal NFT business model to companies and creators.

## Metaverse Bridge Platform : Dari.N

The world you see when you cross over the bridge, Metaverse. GotG will introduce 'Metaverse Bridge Platform: Dari.N'. Dari.N is a bridge platform that converts tangible assets and products into NFTs and supplies them to the virtual world of the metaverse. Dari.N will allow all the companies to supply their products and services to the ecosystem of the metaverse. The key to success is the GotG Platform that has technology of converting tangible assets into digital assets.

# Future Metaverse

The future that has already come forward  METAVERSE

The metaverse is the future that has already come forward in front of our faces.

**GotG**, the front runner



- Games and entertainment IP
- K-Content, Goods of the K-pop IP
- Korean Products, Tangible Assets, etc.

METAVERSE BRIDGE PLATFORM

**GotG Dari.N**

MetaHanryu

Hanryuverse

# GotG Edition with Metaverse

## Amazon GotG Edition → Use in Metaverse

Special GotG Edition selling at Amazon Korea Mall can be used in the metaverse by providing NFT interoperability.

- ❖ Example) When purchasing a full set of General officer outfit at Korean drama '00' (helmet + General officer outfit + sword + archery + cotton + etc.), NFT is provided that can be used in the metaverse
- ❖ NFT interoperability allows to match with the desired game
- ❖ It can be displayed, worn, and resold in the Metaverse wardrobe



**GotG Edition** on  
Amazon Korea Mall

It can be used in the metaverse, games, etc.

- The metaverse project details will be announced soon

## MetaHanryu · Hanryuverse

100 million Korean wave fans worldwide, 100 million + @ Korean culture fandoms

GotG will provide a financial service combined with culture by supplying certified K-content NFT and physical product NFT to the metaverse.

GotG will present the K-Meta · K-Bus project for Korean wave fans and Korean culture fandoms around the world. K-Meta · K-Bus, where anyone can meet K-content and experience Korean culture in the world of the Metaverse, is different because it is created by GotG.

- We have been running the K-community for 20 years and preparing for this moment by conducting R&D related to the Hanryu(Korean wave) for 15 years.

## Invite Finance to the Culture

**Invite 'Hongik Finance' to 'the Culture of Hanryu(Korean wave)'**

The founding ideology of the Republic of Korea has a spirit of 'Hongik Ingan (Humanitarian ideal)' that widely benefits people. We are creating 'Hongik Finance' by translating the unique spirit of Hongik Ingan (Humanitarian ideal) into finance. We will introduce the 'Hongik Financial Project' for people on the basis of the Korean wave culture in the metaverse. You can look forward to it. 'The rise of Korean culture · Hongik Finance' is the future with GotG for you and for everyone.

- The metaverse project details will be announced soon

## Public Business by GotG

### Basic Income Project for Content Creators

GotG, which continuously contains valuable NFTs based on the boundless creativity of content creators, conducts public interest projects for creators. We plan to support basic income for content creators of the youth utilizing the profits generated from the U.S. patent right of the company 'O' and guarantee·insurance business. Furthermore, we plan to build the Korean Wave Cultural Exchange Centers in each country of Southeast Asia to support and nurture content creators living in culturally underprivileged countries.

### Hangeul (한글 : Korean Alphabet) Education Project

The Cia-Cia tribe, an ethnic minority living on the Indonesian island of Buton, did not have their own texts. In 2009, Hangul (Korean alphabet) was adopted as the official alphabet, and their culture, history, and language are recorded and educated through the Korean alphabet. This was possible because the greatest strength of Hangul is a phonetic character that can contain any language in the world. GotG plans to carry out a project for the public interest to distribute the Korean alphabet to diverse ethnic groups around the world. Minorities will be able to record their language and culture through the Korean alphabet, Hangul.

### Discovery Project for Content on the Original Culture of Mankind

We plan to carry out a storytelling and content project by collecting old stories about the original culture of mankind possessed by minorities in the global village. Through this project, we believe humans will be able to dream of a better future from the stories of the past.

## GotG Economy

### GotG Issuance

**16,000,000,000 GotG**

Guaranteed Lockup 15,000,000,000 GotG  
Distribution 1,000,000,000 GotG

### NFT Issuance

**80,000,000 NFT**

Guaranteed Asset NFT 75,000,000 NFT  
Distribution 5,000,000 NFT  
Issued price 20,000 KRW

### Etherscan

<https://etherscan.io/address/0xceeb07dd26b36287b6d109f0b06d7e8202ce8c1d>

### Rarible

<https://rarible.com/token/0xB11C634a53b513b8680925Af6d3Af04bD79F9B27:2140983002222104065441207583007766577678162003462608049876578261259512676353?tab=history>

## GotG Upside Momentum

### BPS

BPS (Book-value Per Share) is an indicator of a company's financial soundness in the stock market and represents 'liquidation value' or 'net asset value per share'. In other words, it indicates the amount recovered per share if the company distributes the remaining assets to shareholders after cessation of activities. It is used as a primary metric in GotG's DAG solution.

**BPS= Total Asset - Liabilities / Number of Shares Issued**

The value of GotG is based on pre-issued NFT assets worth 1.6 trillion KRW on tangible assets, and digital assets flowing from the digital asset market.

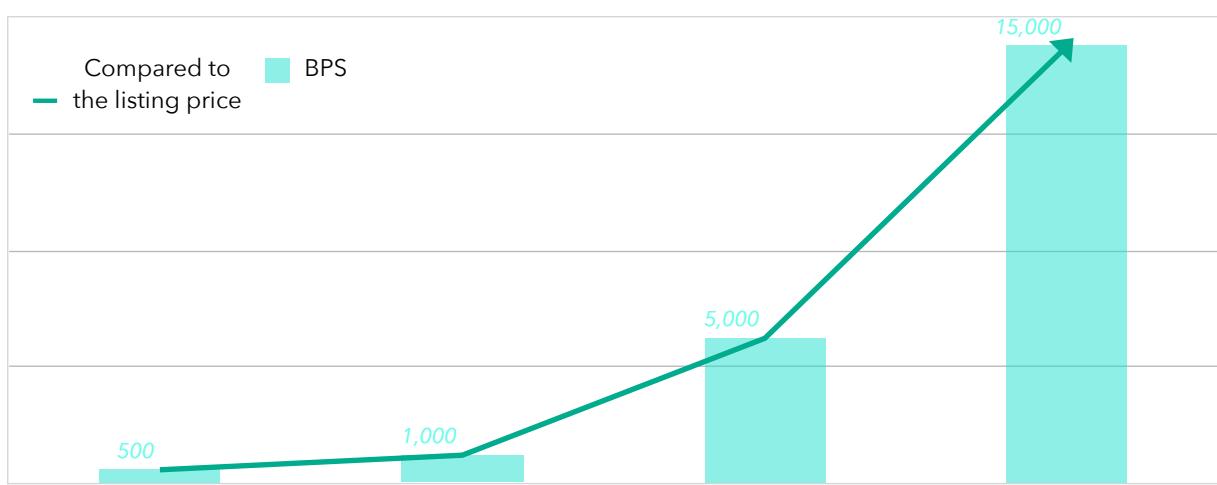
In the cycle system of GotG Platform's production, distribution and liquidation, the assets flowing into the guaranteed asset basket will be fairly and thoroughly evaluated in accordance with the International Financial Reporting Standards (IFRS).

Digital assets converted into numbers and evaluated will provide tremendous opportunities to many creators and project planners within the economic ecosystem of GotG Platform.

## NFT and GotG Issuance Structure



## GotG's Expected BPS Index and Upside Momentum When Listing

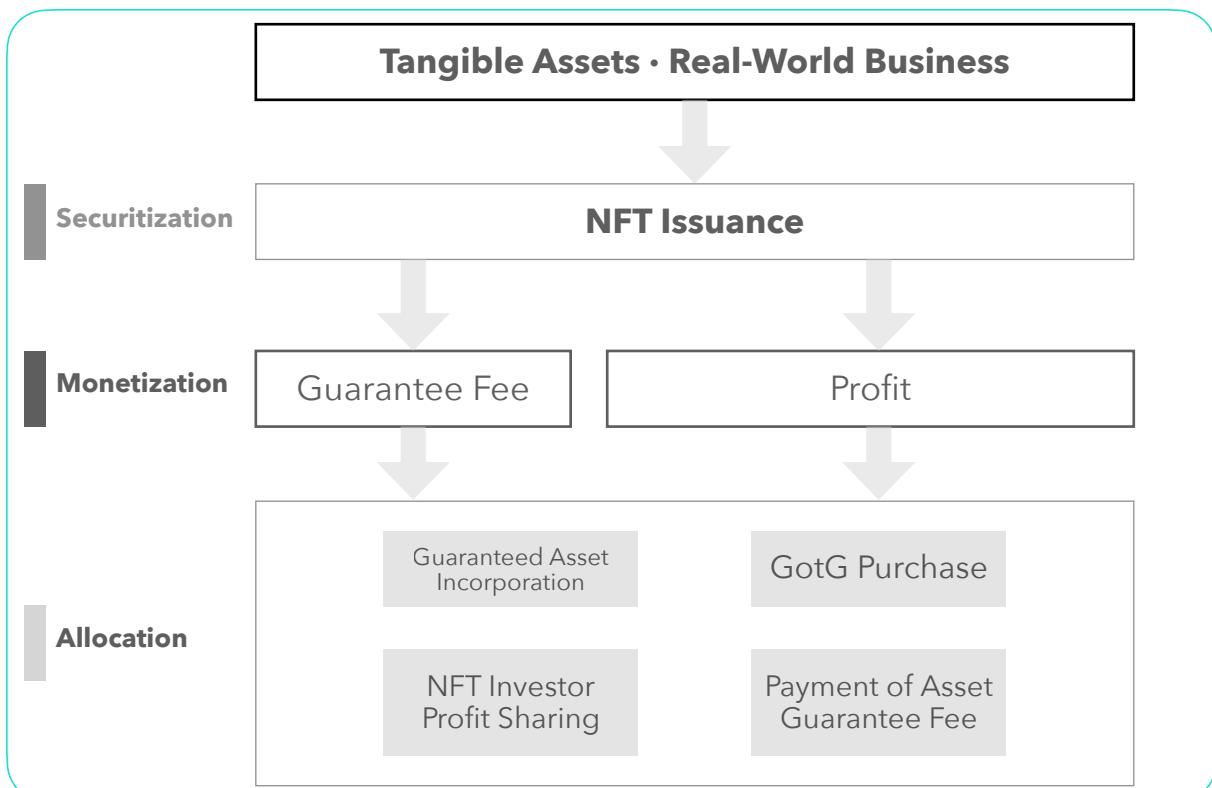


## GotG Distribution and Incineration Process

	In case of project success	In case of project failure
NFT	Collected by GotG Platform	
GotG	Incinerated after purchasing lockup volume or distribution volume	Lockup volume is distributed
GotG Distribution Value Change	Token sale proceeds or token incorporation <hr/> Decrease in GotG distribution = Value and BPS Increase per GotG token	Residual assets and transfer of business rights <hr/> Increase in GotG distribution = Value and BPS per GotG token remain stable
Strengths	A virtuous cycle system in which the project success increases the value of GotG through asset incorporation and reduced GotG volume	Even if the project fails, the asset size is maintained through the incorporation of residual assets so that the damage caused by failure can be reduced

- The above project is for the creator and the foundation issuing tokens which is guaranteed by GotG and provides tremendous opportunities to creators who have experienced failures through the advanced support based on data accumulated during the business period even in the result of business failure.

## GotG Purchase Process



# GotG Tech

HyperNEX



HyperNEX - GotG BEOM(범) Networks

## Abstract

### Focus on valuation and preservation of digital assets

The introduction and development of blockchain technology have begun to destroy the power of centralized service platforms in various fields, regardless of country and industry in an innovative way. Especially, the financial industry has been very conservative for a long period of time than any other industries and has been restricted for industrial innovation due to barriers of national laws and licenses.

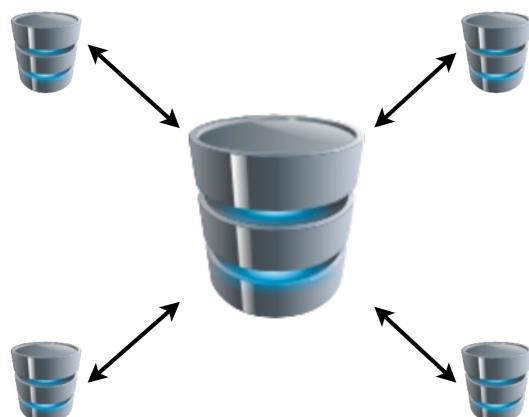
The development of technology has pushed the boundaries between countries and created a path for faster exchanges, but still, there are services that are not available or satisfactory. There were a large number of projects trying to overcome these limitations by using blockchain technology. However, these blockchain projects focused only on the decentralized technology of blockchain, which exposed quite of limitations in applying to the real world.

From the perspectives of replacing current currencies or of the role of the asset function as business assets, the market price stability of cryptocurrency based on blockchain under the limited situation always remains in question. To complement this, GotG plans to protect investment assets, and furthermore, build a platform that focuses on evaluating and preserving the value of various digital assets including NFT-based digital assets.

# Background

## Traditional Database - Centralized Oracles

- The Traditional database uses a client-server network architecture.
- Traditional Users (referred to as clients) can modify data stored on a central server.
- The control authority of the database belongs to the designated administrator, and access to the database is allowed after the client's credentials are authenticated.
- Because the designated administrator is responsible for managing the database, the database may be changed or deleted if the security of the administrator is breached.



## Blockchain Database

The blockchain database is distributed across multiple nodes.

- Each node participates in the management, and the entire node must confirm new additions to the blockchain so that new data can be entered into the database.
- These additions to the blockchain require the consensus of most of the nodes.
- Because this consensus mechanism ensures the security of the network, it is difficult to change.
- \* In the case of Bitcoin, the consensus is achieved by a form of cryptographic proof (who solves the password faster) called Proof Of Work (POW), whereas Ethereum uses Proof Of Stake (POS) for the consensus mechanism.

## Integrity and Transparency

A key feature of blockchain technology that is distinguished from the traditional database technology is its public verifiability, which guarantees integrity and transparency.

- Integrity: All users can be confident that the data they are searching for has not been changed or damaged since it was recorded.
- Transparency: Any users can see how the blockchain technology has been added from the past.

## CRUD vs. Reading and Writing

In the case of the traditional database, the client can perform four functions: Create, Read, Update, and Delete / (referred to as CRUD commands).

The structure of the blockchain is designed for append-only addition and users can only create data by adding new blocks.

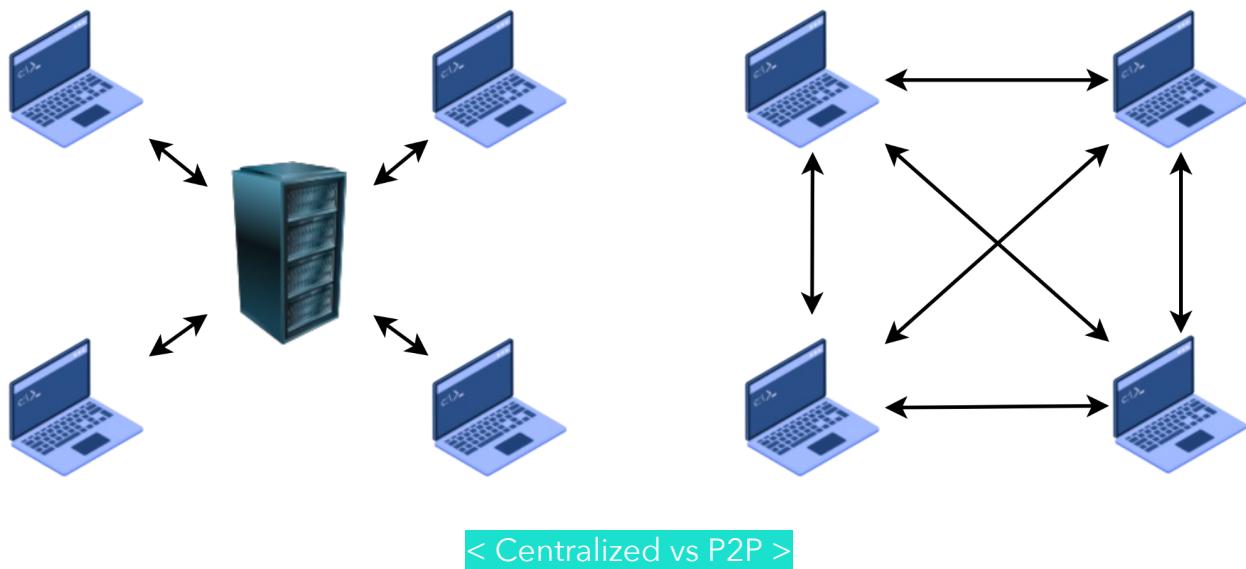
- All previous data is stored permanently and cannot be changed.
- Therefore, the only tasks related to the blockchain are Reading and Writing:
  - ✓ Reading : Querying and retrieving data from the blockchain.
  - ✓ Writing: Creating data to the blockchain.

## Validation and Creation

Two features of the blockchain

- 1) Validation of transactions
  - 2) Creation of new transactions
- The transaction is an operation that changes the state of data on the blockchain.
  - Existing content on the blockchain must always remain the same, but new content can change the state of the old content.

For example) If it is recorded on the blockchain that your Bitcoin wallet contains 1 million BTC, this amount is permanently stored on the blockchain. If you spend 200,000 BTC here, this transaction will be recorded on the blockchain, and the amount in your wallet will be 800,000 BTC. However, since the blockchain can only be added, the amount of 1 million BTC before the transaction remains permanently on the blockchain, and anyone who wishes can see it. This is why the blockchain is often referred to as an immutable distributed ledger. It can be updated only after the consensus is reached between each node, but it takes quite a time.



To simply explain, the difference is the distributed control scheme.

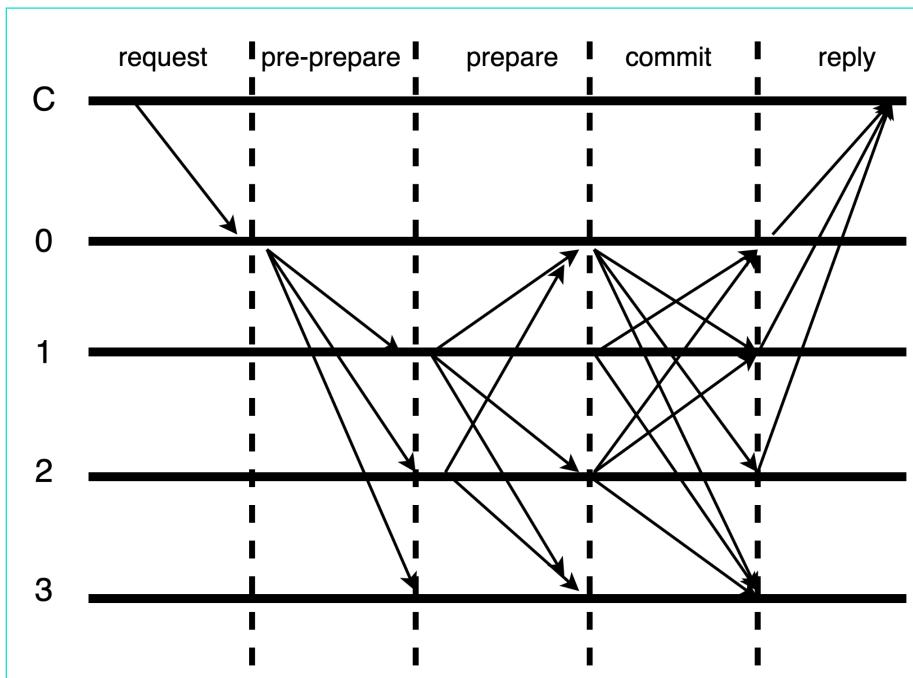
The distributed control eliminates the risk of the centralized control. Anyone who has the access to a centralized database can destroy or change data. That is why users have no choice but to rely on the security infrastructure of the database administrator.

Blockchain technology provides better security because it blocks these issues in advance through a distributed data storage method.

## Practical Byzantine Fault Tolerance (pBFT)

The consensus algorithm developed to successfully reach the consensus among all nodes that participated in the distributed system when the distributed system is inactive in which a Byzantine Node that is not performing the promised behavior may exist.

- The consensus algorithm of existing Byzantine Fault Tolerance (BFT) solved the issue where the consensus was only possible in a synchronous network, allowing the consensus to be achieved in an asynchronous network where the Byzantine Node exists.
- The consensus works as follows:



- The leader collects requests from clients, sorts them, and propagates them to other nodes along with execution results.
  - The nodes that have received the leader's message propagate the message received from other nodes to the rest nodes once again.
  - Every node propagates to other nodes the same message (more than a quorum) received the most from other nodes.
  - After the process is completed, all nodes have the same data agreed upon by a quorum or more.
- 
- pBFT uses two broadcast processes so that even if the Byzantine leader, or the Byzantine Node for verification sends a strange or random message for network branching, all nodes in the network can have the same message.
  - Using the pBFT method is significantly faster than the consensus by decentralized nodes but is still slower than the centralized method.

## Targets - Planned Goals

There always has been a conflict of interest between the transaction stability of the traditional database and the requirements for decentralization of the blockchain. We aim to build a new platform that takes full advantage of the strengths that the two platforms have from different perspectives.

We will create a digital asset management environment that anyone can trust and use to provide a foundation for a new financial ecosystem to be activated by building a faster, more stable, and more robust environment with the new platform.

We plan to design in consideration of the following.

*"There is no single perfect solution that applies to every situation."*

In other words, there is no need to apply one consensus method to all trades at once. If the account and coin can use different chains, calculations between unrelated resources can be processed simultaneously which can take advantage of the processing speed and stability.

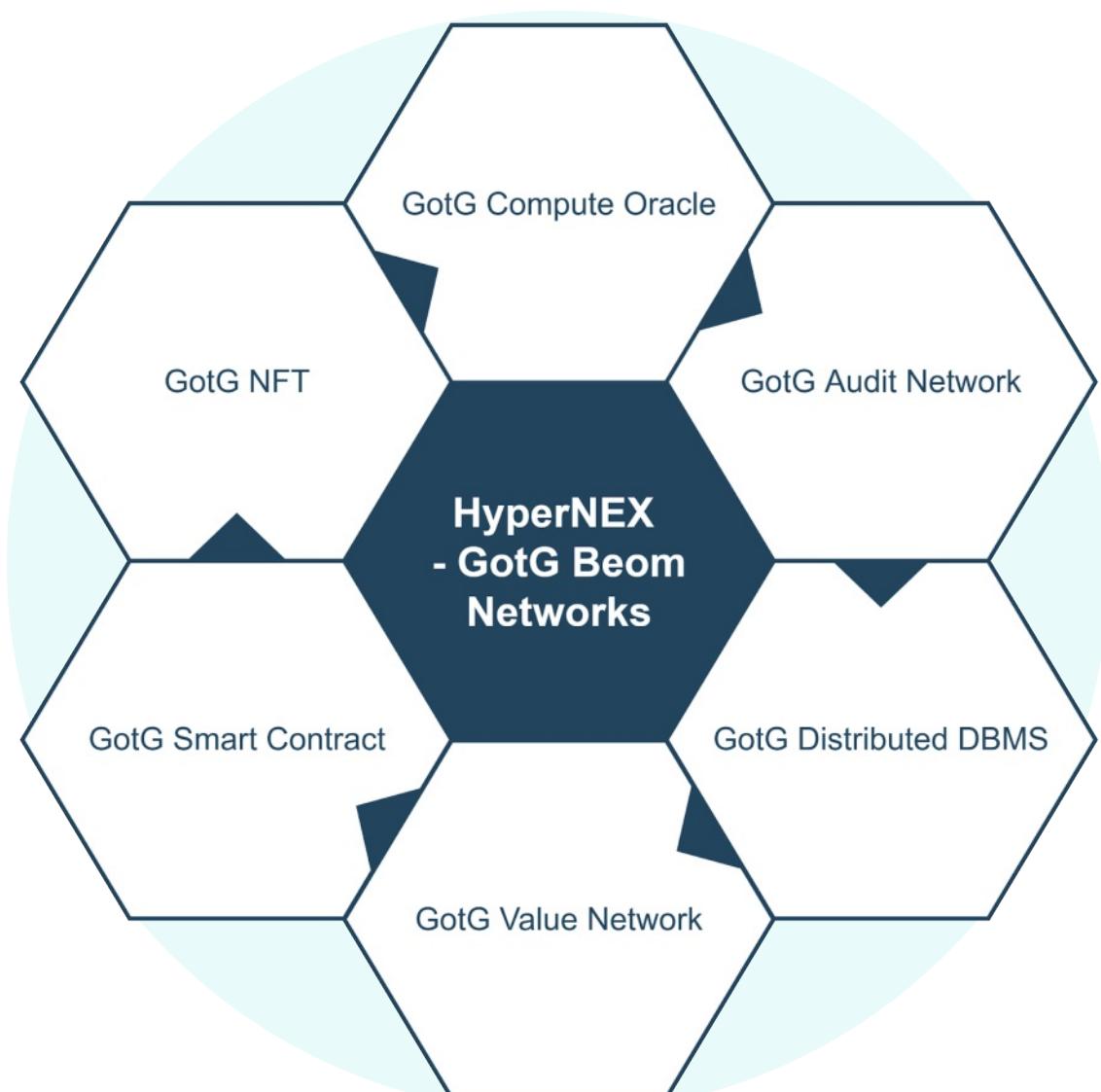
Based on the previously stated, GotG has designed a platform with the following goals for more stable and faster trade execution.

- The use of transactions utilized in the traditional database is excluded as much as possible.
- It can be contracted first without an audit, and make sure there is no error in executing the contract.
- Nodes in charge of the auditing role receive incentives 'fairly' as much as they contribute.
- The execution speed of the basic contract, such as a wire transfer, can be as fast or faster than the centralized method.
- Instead of having only one blockchain, the blockchain is put in each account to enable parallel processing.

It sounds contradictory to say that we should implement the level of integrity that the traditional databases already have achieved in a distributed environment while executing multiple chains in parallel without using transactions, the most important feature of the traditional database, as much as possible. Of course, it sounds impossible if we urge to run them all in one stage. To achieve this goal, we will use a solution of dividing the execution into stages and process each stage by applying the time difference.

# GotG Platform

The GotG platform follows the below configuration to register, distribute and implement Smart Contracts.



**HyperNEX - GotG BEOM(범) Networks**

## GVM - GotG Virtual Machine

GVM stands for GotG Virtual Machine and is responsible for executing all Smart Contracts created in GotG.

- When a Smart Contract is executed on the blockchain, similar issues of the Ethereum network may occur such as an increased cost burden on gas or a slow execution speed.
- GotG will solve the issues by executing in the GotG Oracle first, reflecting the result, and applying a Smart Contract in the GotG blockchain node.
- After comparing the result before and after with its own copies, GotG resets the Smart Contract to the initial stage before the execution if it does not pass the audit.

## GSC - GotG Smart Contract

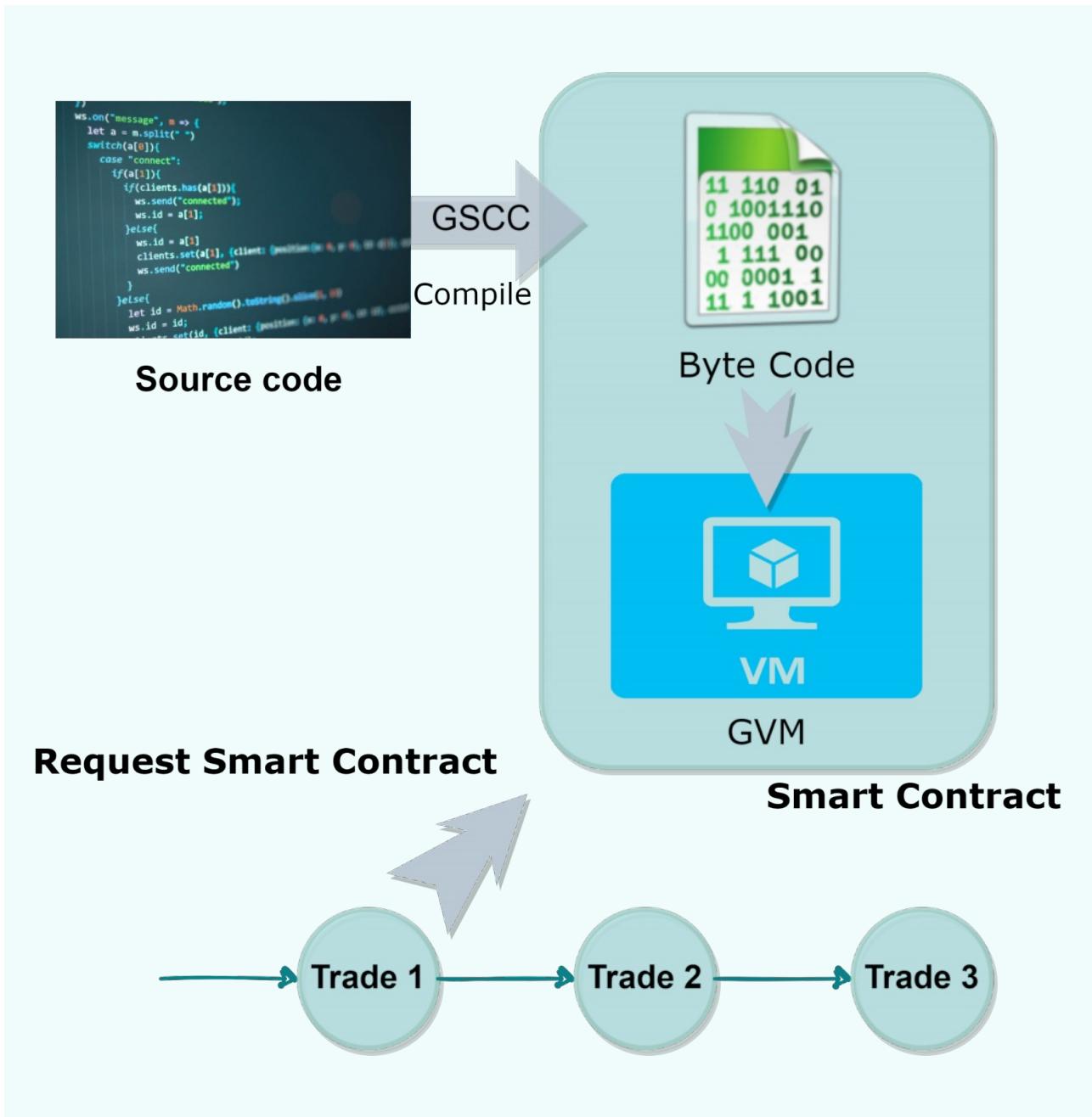
In the GotG platform, the basic unit of trade is set through each contract, and the contract is stored in the form of GSC - GotG Smart Contract.

For example) Let's suppose that A agreed to give B 1,000 KRW and create a Smart Contract if Korea wins against Germany in the World Cup. If Korea wins against Germany, A is supposed to automatically give 1,000 KRW to B if the result of this match is entered into the Smart Contract. In case parties signed the written contract and A does not keep the promise, B has to go to court and file a lawsuit, which requires considerable time and money. But in the case of using the Smart Contract, the promise made by A to B is automatically fulfilled by confirming that the transaction is in progress in his or her own account and automatically closing this contract when the audit is completed. The word 'automatic' is very important, and the execution of the 'automatic' contract is possible because the GotG Oracle node automatically executes the bytecode that has been programmed in advance. GotG Smart Contract can be created and registered by anyone who knows how to code a little bit of verification and execution of contracts, so we are designing a specialized user service tool.

## GSCL - GotG Smart Contract Language

GotG Smart Contract is written in GSCL language.

- GSCL is compiled into the bytecode through GSCL - GotG Smart Contract Compiler again to have a unique hash value
- The Smart Contract created in the above process is distributed to the GotG Oracle and GotG Blockchain.



< Smart Contracts Flowchart >

## Gotg Account

GotG Account is the party executing contracts.

- The execution result of GotG's contracts is attached to the end of the contract execution chain created for each Account.
- For all trades, we set up chains for each account and coin to avoid using just one global chain.
- When a transaction occurs between different chains, such as an exchange, and a change made to another chain, the processing varies depending on which method is used to proceed with the Smart Contract.
- When using the pBFT method, it does not require a special processing
- However, in the case of using the GAaP method, the transaction is stopped until the audit on the receiving side of a chain is completed leaving no room for any issues.

## GotG Oracle

GotG Oracle is the main network operating the GVM in order to execute GotG contracts.

- In the GotG Oracle, the contract execution is handled by one Oracle server per contract.
- There are multiple Oracle servers for the contract execution, but it is only for parallel processing and multiple Oracles do not agree with each other.
- The GotG Oracle consists of the following nodes.

### 1) GotG Master Node

The server responsible for executing GotG's contracts: For speed, multiple Master Nodes execute the contracts assigned to them and reflect the results.

### 2) GotG Slave Node

The spare nodes in case Master Nodes become inoperable: If one of the Master Nodes fails to operate, one of the Slave Nodes takes over the Master role.

### 3) GotG Router

When there is a request for the contract execution, the Router finds the most suitable Master Node and requests the contract execution.

### 4) GotG Distributed Database

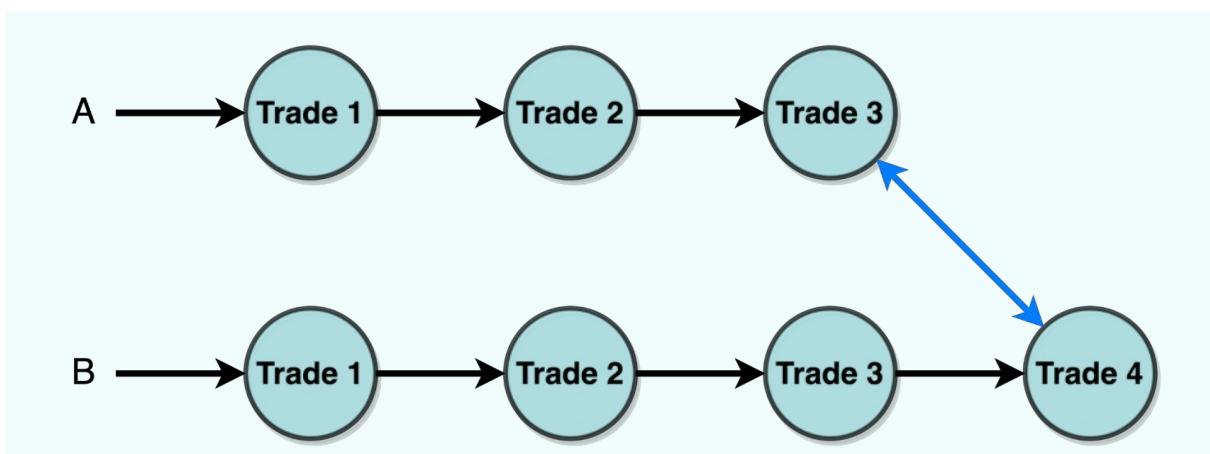
The distributed database responsible for storing contracts and contract processes of the GotG platform

- Multiple servers where the GotG Master Node or Slave Node uses to read and write data.
- Structure to be distributed and stored, but logically, can be used as a single database

## Process of Contract Execution

The created Smart Contract is sent to the GotG Oracle and distributed to the audit network as described below.

Through the distributed bytecode, when an actual asset is traded, a new chain is created and connected to the end of the trade chain that exists for each account, reflecting the result of the execution of the new contract.



The above picture shows the appearance of the newly created chain when the contract for a wire transfer is executed from A to B. The status between 'Trade 3', which is the result of status change of A, and 'Trade 4', which is the result of status change of B, are newly added, and the audit has not begun for 'Trade 3' and 'Trade 4'.

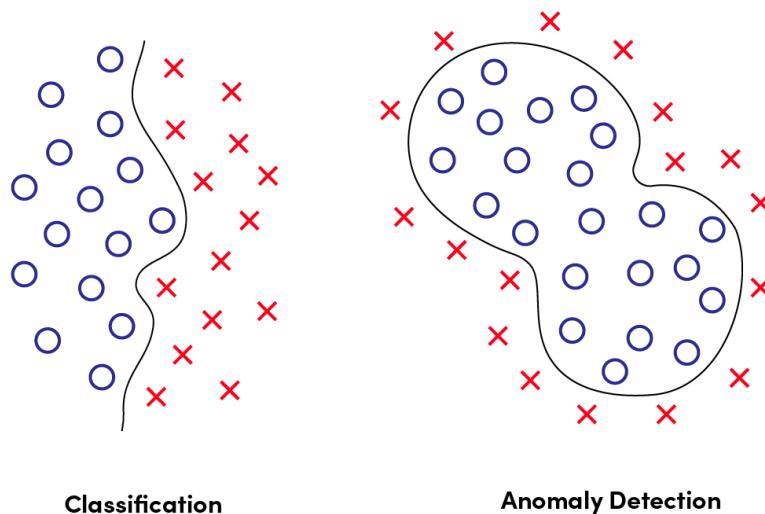
## GAN - GotG Audit Network

The 'Audit Node', the core of GotG's trading environment, consists of an independent environment for each node.

- GAN has copies of the contract execution history for each account, and whenever a new contract is executed, it finds the data related to the contract in the copies it owns and compares the state before and after the contract execution.
- If the state before the contract execution is different from the state before the contract execution brought from the Oracle, or if the conditions that must be met do not match after the contract has been executed, it will open the poll for voting on whether to cancel the contract.

For example) If two-thirds of all Audit Nodes agree to cancel the contract, The Oracle cancels the contract execution and resets the contract to the state before the execution of the contract. The specific voting method and conditions of cancellation will be determined using various tests by fully utilizing empirical methods before rolling out the mainnet.

- Also, the consistency of the contract execution is not the only issue. If the contract execution is too slow, it can affect the overall performance of the GotG Oracle.
- By tracking and evaluating the average contract execution speed, it should be possible to suspend its registration through the consensus in the case of contracts that require significantly longer time for execution.
- To prevent Audit Nodes committing fraud, a number of other nodes auditing the Audit Nodes should also be considered furthermore.
- We are working on using Machine Learning models to detect each other for cheating. For example) Anomaly detection based on a Binary Classification model may be used to exclude Audit Nodes that are not suitable for auditing. Of course, it could also be used for tracking the evaluation of the previously mentioned execution performance.

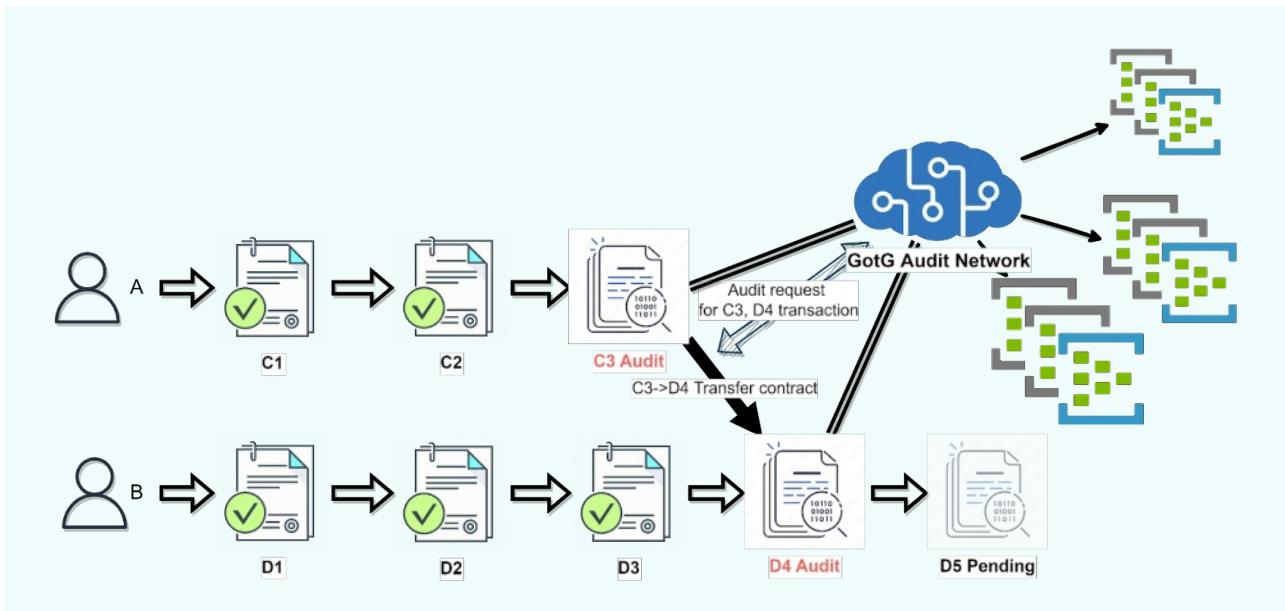


## GAaP -GotG Approval after Processing

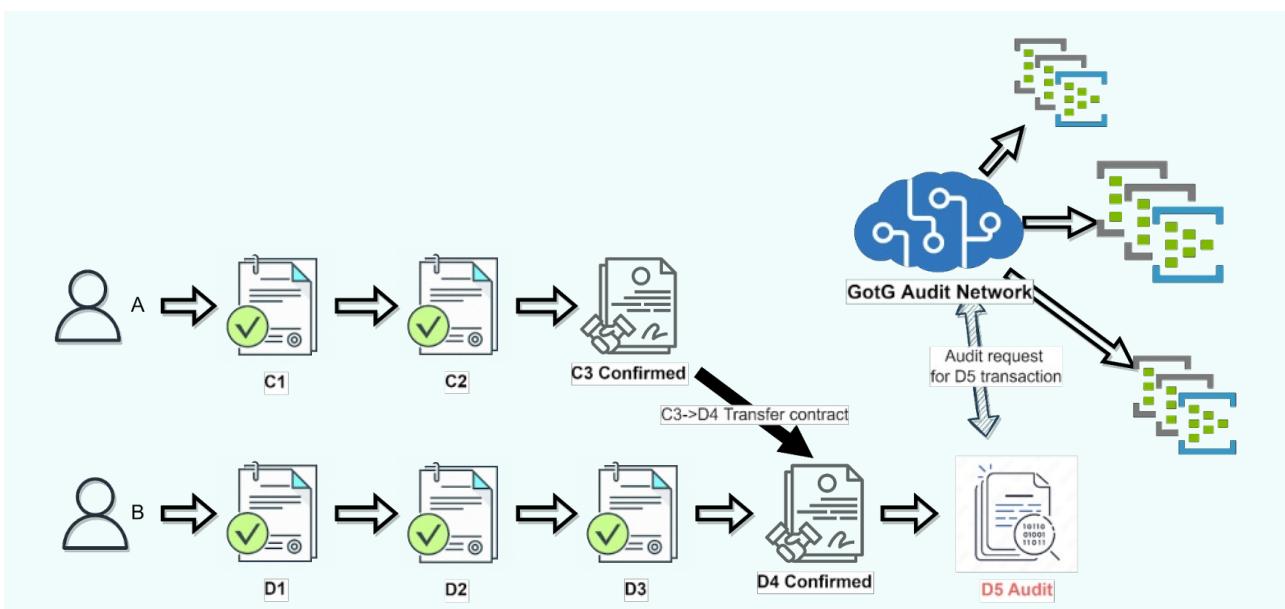
- In the conclusion, the verification is needed after pre-processing for the faster contract execution and it is completed through AaP (Approval after Processing) process.
- In the case of a wire transfer contract as an example, the flowchart is pictured as follows.

For example) While A and B are making each of the trades, Trade 3 of A and Trade 4 of B meet the mutual Trade (Example: B purchases A's assets). In this case, the process is as follows. For a faster trade, Trade 3 and Trade 4 are processed. Then, Trade 3 of A and Trade 4 of B are audited by the verification node pool. The trade chain of B will have Update Lock during the audit so that Trade 5 of B does not proceed unless the audit process is completed.

When a given percentage of the consensus is reached among Audit Nodes, the completion of the audit process is confirmed and Trade 5 can proceed. The whole process is as follows:

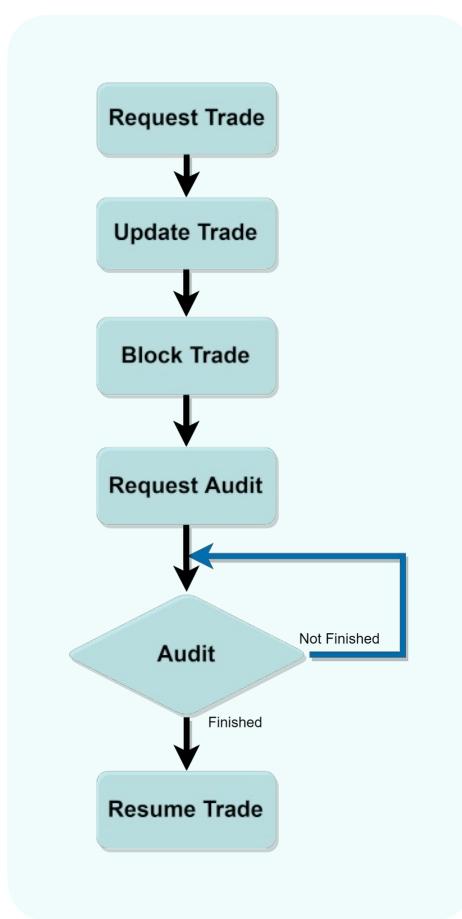


(Example 1) The figure above is the flowchart which shows the state right after Wire Transfer Smart Contract is executed from C3 to D4. When the Wire Transfer Smart Contract from C3 to D4 is executed, C3 for A chain and D4 for B chain are attached to the end of each chain, and the two resources are bound to the Lock mode. At the same time, the audit is requested to GotG Audit Network in order to check the integrity of both state changes, and D5 awaits approval before its execution because the audit is not completed.



(Example 2) The above figure is a workflow diagram showing the state right after the audit on C3->D4 has just completed. As the Lock mode is released on C3 and D4 resources, D5 is attached to the end of the B chain, and the audit on D5 is performed again.

To elaborate on the audit process in details, an independent environment for the audit process is distributed to each node, and the integrity of the contract is verified on each node. When this verification satisfies the minimum audit requirements, the audit is completed, and the Smart Contract is closed based on this. Then, the next trade can go through because the Lock mode applied to each trade during the audit is released.



The above figure is a generalized flowchart explaining the contents of Example 1 and Example 2. When a trade occurs, it uses the database to quickly complete the trade, then suspends subsequent trades for consistency of trades, and verifies the integrity of the entire trades by drawing the consensus through the audit. The next trade can be resumed only after this process is completed. GotG Audit Network is operated as the decentralized network, and the final audit is passed when the majority of Audit Nodes participating in the audit determine that there is no problem for contract execution.

## Account Lock for GotG Contract Audit

'Single point of failure' indicates that there is only one path for making the decision of the entire system, and the failure of the path stops the entire system.

### ❖ Single point of failure

GotG is clearly different from other blockchains. We record contracts that have not proceeded from the blockchain on the blockchain. GotG generates information outside the blockchain and brings them inside for faster contract execution. But, can the participants trust the information they receive? Of course, service providers who have built up good reputations for providing services for a long time may be relatively reliable. However, the audit process after pre-processing on this platform can control the information, so there is a risk of becoming a 'single point of failure'.

- After a trade is executed quickly in the GotG Platform, the speed and consistency of trades can be ensured by preventing the immediate execution of other contracts in the account until the audit result of the account is reviewed.
  - In other words, new contracts are prevented from being additionally executed by turning on the Lock mode on the GotG Account while auditing.
  - If the execution and audit are carried out at the same time, it will inevitably slow down. Fortunately, the two stages can be separated by the time difference method.
  - If the two stages are separated by time difference and wait until they are all processed without executing the contract related to the account, you will be able to catch both speed and stability.
- 
1. Separate the contract execution process by time difference rather than trying to process it all at once. The execution process and the audit are separated by time difference.
  2. For faster speed, after the Master Node executes the trade first, the result is compared with the data possessed by the Audit Node to check for its falsification.
  3. The trade is executed at central, and the result is verified by multiple Audit Nodes against their own account books and records.
  4. Restrict the contracts to occur only in the contract that has been audited.  
(The same principle applies as blocking a wire transfer for 30 minutes after depositing cash to prevent voice phishing in the financial sector)
  5. If you have a GotG Account related to the contract to proceed in the chain and the audit process is not completed, the contract related to the account is not executed and awaits. The contract is not executed until the audit process is completed.
- 
- To briefly explain the difference between the pBFT and GAaP methods, the contract execution phase is divided into execution and audit stages. It is just a matter of difference whether to apply the result after it is all processed or to execute first and apply the result and cancel the execution depending on the audit process.

## GVN - GotG Value Network

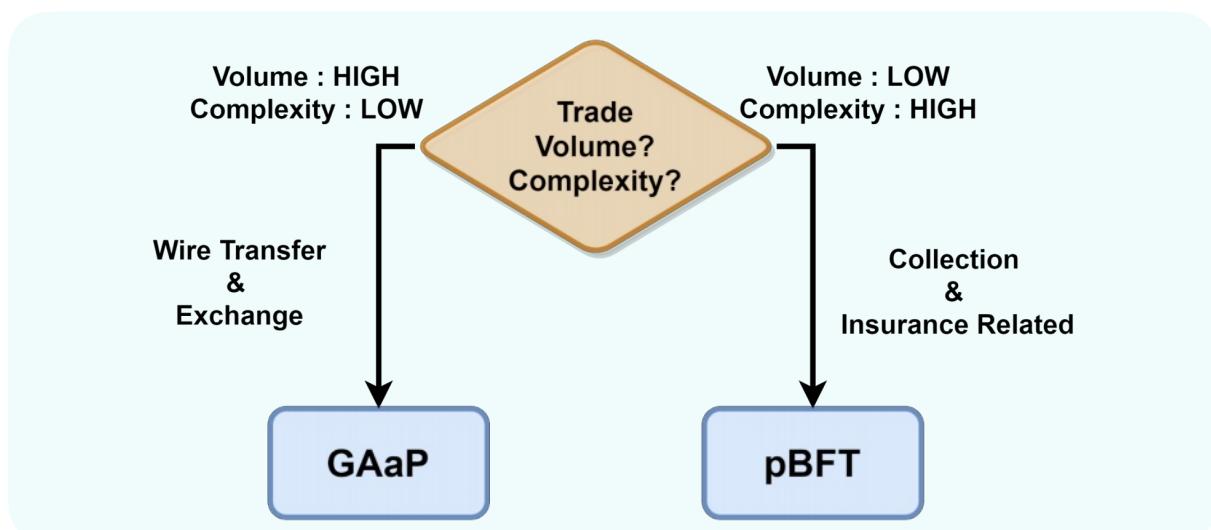
Audit Nodes are operated in the decentralized method.

- Other nodes are also needed to evaluate how much each node contributed to the GotG Platform.
- Previously, we suggested evaluating other nodes auditing the Audit Nodes with the Machine Learning model, and there will be the method of evaluating the value of the Audit Nodes with the Machine Learning model (for example, Regression) and other nodes will study the evaluation results to increase the evaluation level.
- Machine learning algorithms have continued to improve over the years, so there is no need to stick to a specific algorithm right now.
- We will adopt new algorithms that are suitable for timely circumstances, gradually increase the accuracy of the valuation, and apply it to the mainnet.

## Should all contracts be processed in a way of GAaP?

Not all contracts work in the same way, so it is not necessary to execute all contracts with GAaP.

- Apply GAaP when the trading volume is high but the trade computation is simple.
- Apply pBFT when the trading volume is low and the trade computation is complicated.
- There may be contracts that do not need to be audited after the contract execution.
- There may be cases in which the audit is performed after the contract execution, but only the minimum requirements are checked and there is no need to apply the Lock mode.
- You can specify in what method (or at what level) the contract will be executed when writing the GSCL. In the future, instead of giving only two options, we are working on a way that allows to set the level/degree/time of the audit.



# Cases for the application of Smart Contract

## Wire Transfer Smart Contract

In the case of a wire transfer, it is processed using the GAaP method because the computation is simple, but the trading volume is large. It is easy to recover in case the audit fails on the sending side. However, it is not easy to recover if the audit on the receiving side fails. So, the subsequent trade on the receiving side will be processed only after the audit is completed to ensure the integrity of the trade. Multilateral wire transfers should be carried out in the same way.

## Collection Smart Contract

The pBFT method is used for the slow trading process which is not a big deal.

## Exchange Smart Contract

The GAaP method is used due to the wire transfer transaction since wire transfer and collection must be mutually verified and wire transfer and collection trades must occur in chronological order.

## Insurance Execution Smart Contract

Insurance execution requirements may vary from NFT to NFT. That is why the GSCL exists to flexibly deal with these issues. For example, you could create an insurance that applies probabilistically. Each contract is applied with different execution methods, and the Audit Nodes measure the performance of the executed contract and vote whether to continue or stop the execution.

## Insurance Registration Smart Contract

The pBFT method is used since trades do not occur frequently.

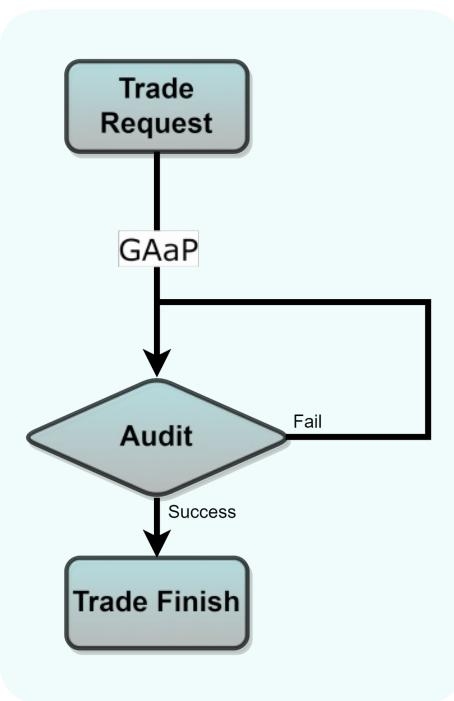
## Swap/Airdrop Smart Contract

In the case of airdrop, it is a method of distributing specific assets probabilistically, so the audit can be conducted in a simple method after the execution. In the case of swap, it is a method to use carefully, so the contract should be executed in the most conservative way (for example, pBFT).

## NFT-related Smart Contract

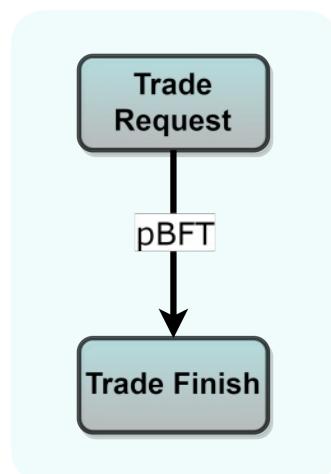
GotG basically supports internal functions for NFT registration in a Smart Contract. Not only the exclusive GotG NFT is registered through the Smart Contract, but it can also be used as one NFT on platforms that use other mainnets through the pairing structure with other mainnets such as Ethereum. A decentralized network to store NFT-related digital content only needs to store data and secure integrity through hash values, so storage/distribution will be available in the GAaP method.

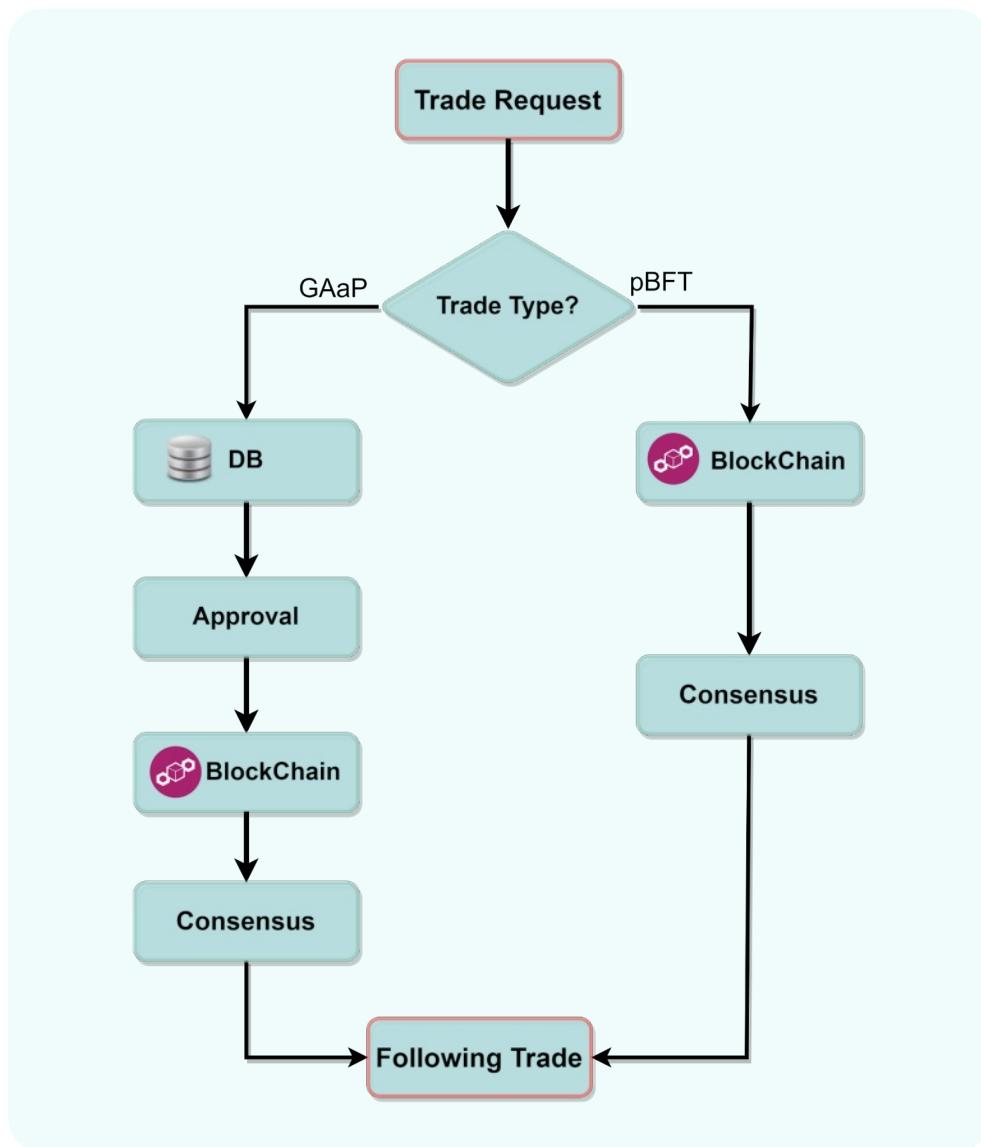
The GAaP method is used because the fast speed is important for Wire Transfer, Exchange, Airdrop, and NFT-related Smart Contracts.



It is desirable to use the pBFT method in the case of Collection and Insurance Registration Smart Contracts that the integrity of the trades is important although the trades occur less.

In the case of Insurance Execution Smart Contract, if it is difficult to choose the priority over the trading volume and the integrity, the more appropriate method can be designated according to each request.





## Conclusion

Blockchain is one of the implementation methods in the digital environment to realize the ideal of DAO (Decentralized Autonomous Organization). We will utilize the most of the advantages from the centralized Oracle method and the decentralized mechanism to implement an effective DAO.

In the case of Smart Contracts using existing blockchains, there was a limitation of being trapped within the big premise of decentralization. However, if we change our perspectives to see decentralization as a means rather than the main purpose, we can have more diverse approaches. We aim to build a true DAO ecosystem by identifying the nature of conflicting interests from differentiated approaches to the problem and merging the strengths of the blockchain and the traditional database.

## GotG Brand Story



### The Story of Our Symbol

It is the Jade Dragon(옥룡), not the Comma Shaped Jade(곡옥).

The Jade Dragon is a symbol of Northeast Asian celestial culture and is the original culture of mankind. It is also a unique symbol excavated from the realms of Gojoseon, Goguryeo, Baekje, and Silla, the former country names of Korea. We chose the Jade Dragon known as the symbol of Korean culture to represent us. The symbol of GotG is the Jade Dragon.

# RoadMap

2019.04	Launched GotG Project
2020.01	Started DAG Solution Beta Testing
2021.01	Completed DAG Solution Development
2021.05	Launched GotG Multi Wallet
2021.11	Listed on the BW Exchange

**From GotG**



## Sophistication

**Now NFT**

### 2022 1Q

To sophisticate the DAG solution

**Future Metaverse**

At the end of January, GotG HyperNEX Testnet will be launched.  
BEOM Network will be established.

### 2022 3Q

Fair asset distribution system will be developed according to certification on the Korean content and profits

AI-based DAO pro system will be developed

- Participation/contribution evaluation by project characteristics
- NFT level and organization combination matching system by fields (technology, planning, marketing, finance, public relations)



## Metaverse

**MetaHanryu  
HanryuVerse**

### 2022 4Q

Metaverse mutual compatibility settlement system will be developed

### 2023 1Q

Metaverse token economy mutual convergence system  
MetaHanryu · Hanryuverse will be launched



# Our People

## - Platform HQ Members



### Founder **Eom Meen**

2021 Won the Minister's Award by the Ministry of Science and ICT of Social Contribution Grand Prize

2021 Received the Certification of Recognition by The National Assembly of Industrial Development Grand Prize

GotG Platform Founder



### Co-Founder **Dongun Lee**

Executive Director managing Korea at zb.com as Global Partner\_Participated as a partner at Blockchain Economic Forum Davos Strategic Planning Director at Itemmania, Executive Director at Bizbuck Korea

GotG Platform Co-Founder



# Our People

- TechTeam HQ Members



## CTO **David Han Lee**

GotG Platform CTO



## **Jongmin Yoon**

Former Principal Research Engineer at Wind River (Android platform development)

Former Research Engineer at KAIST Graduate School of Information Security (SKT, IoT Security Protocol development)

Former Principal Research Engineer at Insignary Inc.  
(Clarity Engine Development, DB Maintenance)

Team leader at Megazone(Google Cloud Team /DevOps)

Adjunct Professor of Department of Computer Science, Hanyang University  
(Teaching subject, Open-source software)



## **Jaeyeon Park**

Boston University School of Law

The mediation Group Boston, MA

: Negligence mediation case memoranda and reviewed legal briefs October,202)

Seoul in Law Seoul, Korea

Paralegal, May 2016 ~ 2021 (on leave from study)

Conducted legal research and proofread legal documents, wrote  
memoranda, and reviewed legal briefs

: Bitcoin Fraud APIS, V coin Fraud and Insurance, Voice scam Fraud

- Special Tech Advisor



## **D.S. Kim**

The Finals of the 6th DEFCON CTF

2014 World Ranking No.5 (CTF Time)

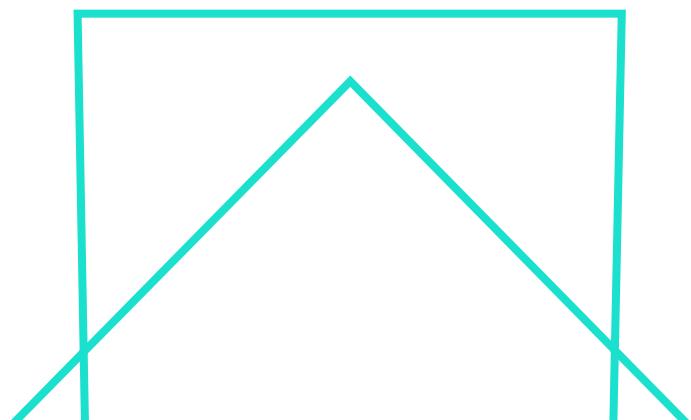
2015 World Ranking No.6 (CTF Time)

2016 World Ranking No.1 (CTF Time)

2017 The winner of ASIS CTF

Senior Research Engineer at Binance (Global and IT)

# POWERED BY GOTG PLATFORM



White paper ver 2.6

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