



# Donocle Token

Global Donation Lottery

## White Paper

LAST UPDATE : 12/11/2018

[donocle.io](https://donocle.io) / [donocle.co](https://donocle.co) / [donocle.biz](https://donocle.biz)

Copyright © Donocle 2018 All rights reserved.



## CONTENTS

ABSTRACT-----	2
1. INTRODUCTION -----	3
2. DONOCLE LOTTERY SERVICE-----	4
3. DONOCLE LOTTERY GAME -----	7
4. DONOCLE LOTTERY MANAGEMENT-----	12
5. DONOCLE TOKEN -----	18
6. ROADMAP-----	21
7. CONTACT SUPPORT-----	22



---

## Abstract

---

DONOCLE is a global lottery (lotto) project using more than 50 types of coins and tokens as goods. Fairness is maximized by disclosing transparently the blockchain-based raffle method and prize money.

We have adopted an ODF(Open data flow) that allows users to monitor and verify the movement and flow of goods.

Lotteries have the characteristic of an investment asset where people invest a small amount of money to earn a much larger sum. But it also has the trait of a consumable goods that offer a form of entertainment, just as one would go watch a film at the cinema. Therefore, the anticipation that one might win the lottery is transformed into a vibrant energy in society, motivating people to have more spring in their steps and enjoy healthy entertainment.

According to the report by TechNavio on the international lottery market, the global market as of 2019 is anticipated to reach 376.87 billion US dollars (or 267.54 billion sterling pounds).

At present, the traditional lottery market is the mainstream but the market is increasingly growing in size, with the growth rate of 3.13% as of 2017 expected to reach approximately 20% as of year 2022.

Despite such a market outlook, there is still distrust and controversy over fair raffling. But blockchain offers an answer to this.

For example, the Isle of Man, which is a U.K. territory, has long been known as a hub for financial services. These days, e-games emerged as a key industry that accounts for more than 20% of the economy on the Isle of Man and have been using blockchain technology. Brian Donnegan, the head of e-business for the government of Isle of Man comments that blockchain will reduce the risk of fraud in electronic lotteries, adding, "the constancy and resistance to censorship that are provided by blockchain technology prevents crime and

protect consumers."

Using blockchain technology, it is also possible to design highly marketable businesses. DONOCLE is a lottery that uses blockchain technology and therefore, anyone with cryptocurrency can buy a lottery ticket. This allows the sale and purchase of DONOCLE regardless of your geographic location.

In addition, through a blockchain smart contract, the fairness of the online lottery system is guaranteed.

A portion of the profits from the lottery services will be used for airdrop and donations, with the details being disclosed transparently.

---

## 1. Introduction

---

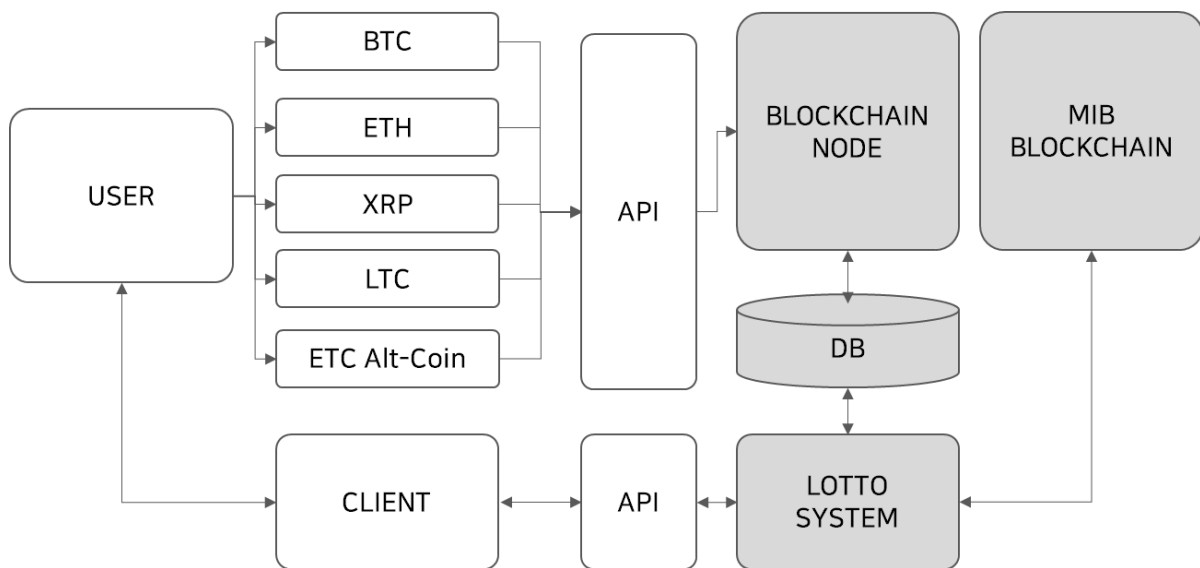
DONOCLE tokens have two basic traits.

First, the lottery business that used to be conducted within a certain country or by a certain institution can now be opened up to the world to offer a global lottery ticket. Second, it features a decentralized management system where trust and transparency is gained through blockchain technology.

The entire process that involves DONOCLE tokens, from the purchase of the lottery tickets to the distribution of the prize money, are managed through a distributed consensus-based system called blockchain, within the platform called DGBLS™ (Donation Global Blockchain Lottery System).

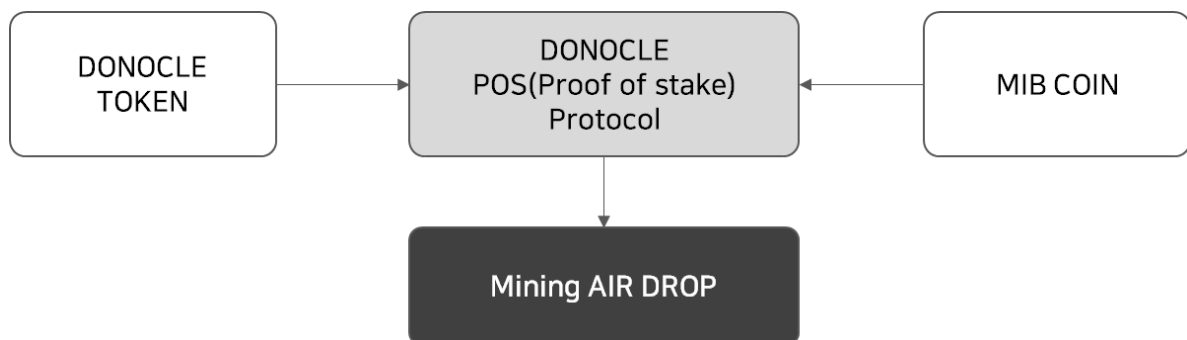
DONOCLE lottery tickets take advantage of the focus on the distribution and circulation of coins and thus have the purchase of lottery tickets be done using the top 50 types of coins and tokens in the market. Distribution is based on the total sum of purchase.

[Figure 1. System composition chart]



The 50 or so types of coins circulating in the market can be used for DONOCLE. During the process that these coins are converted into cash, there is no intervention whatsoever. Concerns by specific countries or specific cryptocurrency exchanges over disruption in the market for cryptocurrencies have been taken into account, so that the DONOCLE POS(Proof-of-stake) system has a feature where a portion of the profits is secured through a proof of stake protocol.

[Figure 2. Overview of DONOCLE's POS]



## 2. DONOCLE Lottery Service

### A. Raffling method for the lottery



- Lottery tickets are purchased using the 50 types of coins or tokens currently circulating in the market.
- The six digits from the BTC nonce is used as the raffle number.
- The total coins paid out for the purchase of lottery tickets are handed out based on the winning ratio.

The nonce value of BTC(Bitcoin) at the time of the raffle is used as the raffle number.

For the buyer of the raffle ticket, the sale number, quantity of coins used in the purchase and price are disclosed. Once a purchase occurs, the total list is immediately updated so that incorrect transactions can be monitored.

## B. Confirmation of the winning money for the lottery ticket

Lottery tickets can be purchased until 11:30, UTC. The winning money is then confirmed and the raffle starts according to the raffle method for the lottery ticket.

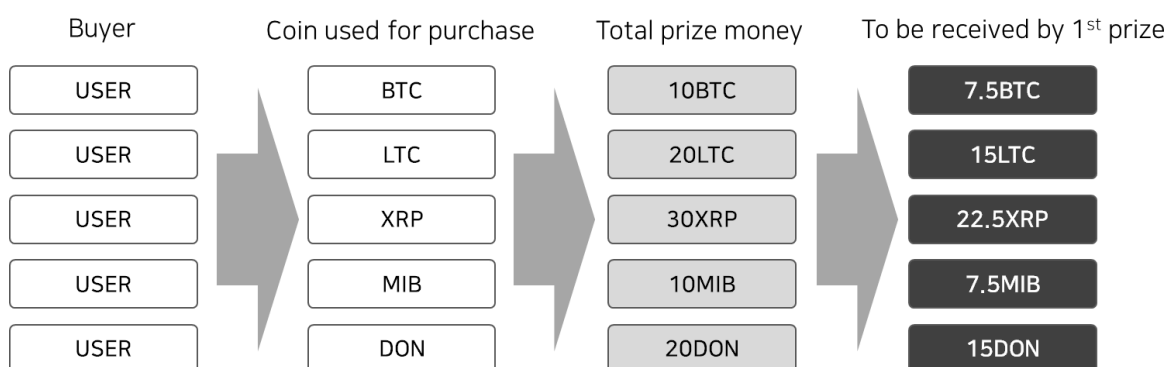
[Table 1. Example of the raffle method for the lottery ticket]

Rank	Match	Odds	Prize Amount
1 <sup>st</sup> prize	All 6 numbers match	1/13,983,816	75% of the total winning money after excluding the amount for 4 <sup>th</sup> prize and 5 <sup>th</sup> prize
2 <sup>nd</sup> prize	5 numbers match + The remaining 1 number match with the bonus number	1/2,330,636	12.5% of the total winning money after excluding the amount for 4 <sup>th</sup> prize and 5 <sup>th</sup> prize
3 <sup>rd</sup> prize	5 numbers match	1/54,201	12.5% of the total winning money after excluding the amount for 4 <sup>th</sup> prize and 5 <sup>th</sup> prize
4 <sup>th</sup> prize	4 numbers match	1/1,032	Base price 0.005BTC(coin to be handed out is selected randomly)
5 <sup>th</sup> prize	3 numbers match	1/57	Base price 0.0005BTC(coin to be handed out is selected randomly)

Among the numbers from 0 to 9, six numbers need to be matched. You win the 2<sup>nd</sup> prize

if 5 numbers match and the bonus number matches with your 7<sup>th</sup> digit.

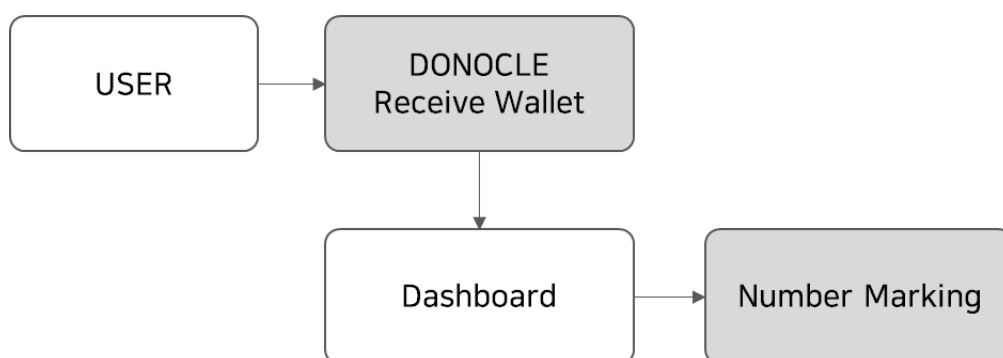
[Figure 3. Example of a handout of the prize money]



If it is assumed, as in the above case that the coins used by multiple users for the purchase of lottery tickets are summed up and there is only one single winner for 1<sup>st</sup> prize, the winner receives a total of 5 types of coins and 75% of the total coins. The session then ends.

### C. How to purchase lottery tickets

[Figure 4. How to verify the remittance of coins]



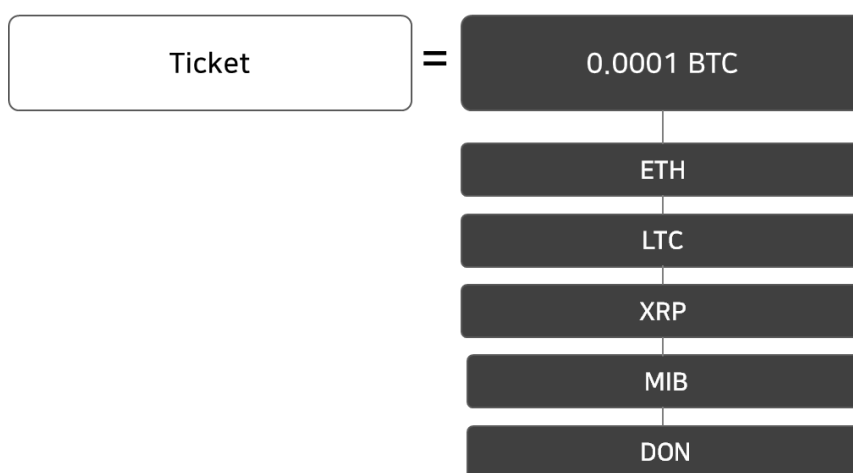
- Send coins compatible with Donocle
- Mark the numbers once the remitted coins appear on the Dashboard

### D. Price of lottery tickets

Price is determined through the same process as when the BTC market price is determined on a cryptocurrency exchange.

1 Ticket is pegged at 0.0001BTC and the corresponding alt coins have their price set by the reference price on highly reliable exchanges. In the case there is a price difference of 5% or more, the price from the exchange in question is excluded.

[Figure 5. Price of lottery tickets]



Based on the Satoshi of Bitcoin (0.00000001 BTC), one Donocle lottery ticket can be purchased for 10,000 Satoshi. (At the time the service is provided a real-time exchange rate table will be provided.)

### 3. DONOCLE Lottery Game

#### A. Raffle method for lottery tickets

##### (a) 496 game

Match six of the numbers from 1 to 49. The raffle takes place at 00:00 UTC of every Sunday. The block nonce value of BTC will be used as the raffle number.

In order to determine the 1<sup>st</sup> prize winner, blocks need to be generated in the blockchain of BTC for the 6 cancelled blocks. If there is no first prize winner, the prize money is deferred to the following raffle session until there is a winner.





[Table 2. Dividends of profits]

Category	Number	Total coins won in the raffle	Dividends
1 <sup>st</sup> prize	All 5 numbers match	70%	70% of the total coins won in the raffle
2 <sup>nd</sup> prize	All 4 numbers match	15%	15% of the total coins won in the raffle
3 <sup>rd</sup> prize	All 3 numbers match	15%	15% of the total coins won in the raffle

[Figure 6. Donocle Global Blockchain LOTTO Screenshot]

[Figure 7. Donocle Global Blockchain LOTTO Screen slips]

**DRAW DATE : 15-09-2018**

**1 3 26 21**

DAY HR MIN SEC

**PRIZE MONEY 548.45 BTC**

3,648,819 USD

Select 6 numbers

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49					

Auto Clear

Select 6 numbers

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49					

Auto Clear

+ Add Tickets

**Place a bet**

Filed-out tickets 2

Number of draws 1

Total **0.000080 BTC**

**BUY TICKET**

WINNER NUMBER

48 21 34 8 19 10

Pick these numbers

## (b) SUPERBALL

- Raffle : 00:00 UTC of every Sunday
- How to play : Select six numbers from 1 to 49, as well as a bonus number.
- Number raffle : The raffle is done using 7 consecutive blocks that are generated after 00:00. After excluding the first two digits of the nonce value, the 3<sup>rd</sup> and 4<sup>th</sup> numbers are used. Numbers from 1 to 49 are used. If there are overlapping numbers, the block in question is determined invalid.

If a number higher than 49 appears, the block in question is determined invalid.

- Exceptions

In the case that the information regarding the block cannot be verified due to an issue with the Bitcoin network, the prize money is deferred to the next asession after 24 hours has expired.

<The first block after 00:00 UTC >



BTC Block Number #540885  
Nonce 4067197507

BTC Block Number #540884  
Nonce 3939043310

BTC Block Number #540883  
Nonce 3415980431

Confirmed 2 digits

#### LATEST BLOCKS

Block height	Time passed	Transaction	Total amount remitted	Place to which it was relayed	Data amount(kB)	Data amount(kB)
542318	49 minutes	2954	16,999.31 BTC	ViaBTC	1,230.01	3,992.93
542317	1 hour 14 minutes	3004	12,805.56 BTC	BTC.TOP	1,213.95	3,992.81
542316	1 hour 29 minutes	1039	5,055.95 BTC	58COIN	408.11	1,306.4
542315	1 hour 45 minutes	2621	9,696.56 BTC	Unknown	1,243.92	3,992.66

(The 3<sup>rd</sup> and 4<sup>th</sup> numbers of the nonce value in the block that is first generated after 00:00 UTC, after excluding the first two digits, is used as a single number.)

In order for a winning number to appear in Super Ball, at least 6 blocks are needed. In the case of 2<sup>nd</sup> prize, 7 blocks need to be generated <Takes about 40 minutes.>

In the case there are overlapping numbers or numbers greater than 49, the number in question is skipped and the next block must be waited for.

The winning number can be viewed at Blockchaininfo.

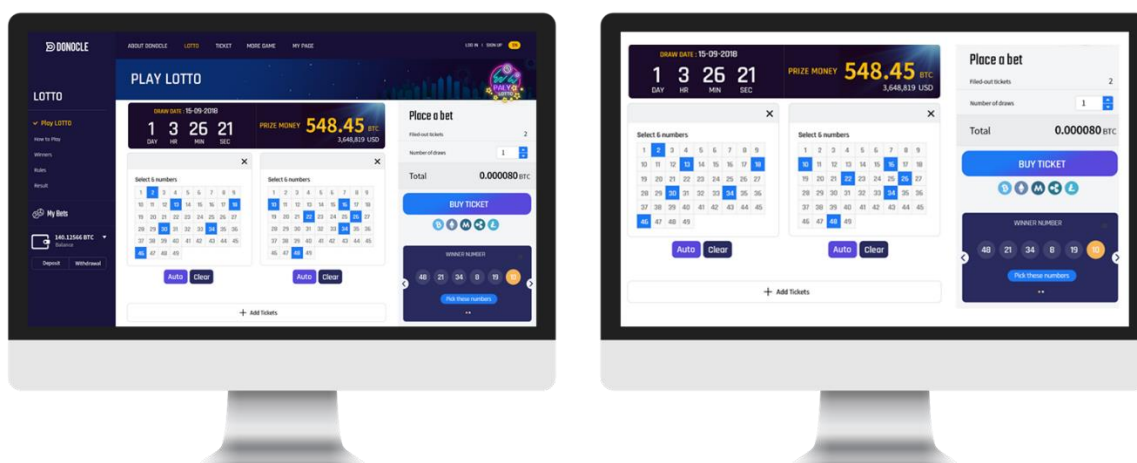
<https://www.blockchain.com/ko/btc/block/00000000000000000001cc82013dc37f599981d911775cef5d301418fce3c9e48>

[Table 3. Dividends of profits]

Rank	Match	Odds	Prize Amount
1 <sup>st</sup> prize	All 6 numbers match	1/13,983,816	75% of the total prize money excluding the prize money for the 4 <sup>th</sup> and 5 <sup>th</sup> prizes
2 <sup>nd</sup> prize	5 numbers match + remaining 1 numbers match with	1/2,330,636	12.5% of the total prize money excluding the prize money for the 4 <sup>th</sup> and 5 <sup>th</sup> prizes

	the bonus number		
3 <sup>rd</sup> prize	5 numbers match	1/54,201	12.5% of the total prize money excluding the prize money for the 4 <sup>th</sup> and 5 <sup>th</sup> prizes
4 <sup>th</sup> prize	4 numbers match	1/1,032	Base price 0.005BTC(coin to be handed out is selected randomly)
5 <sup>th</sup> prize	3 numbers match	1/57	Base price 0.005BTC(coin to be handed out is selected randomly)

[Figure 8. Donocle Global Blockchain LOTTO Screenshot]

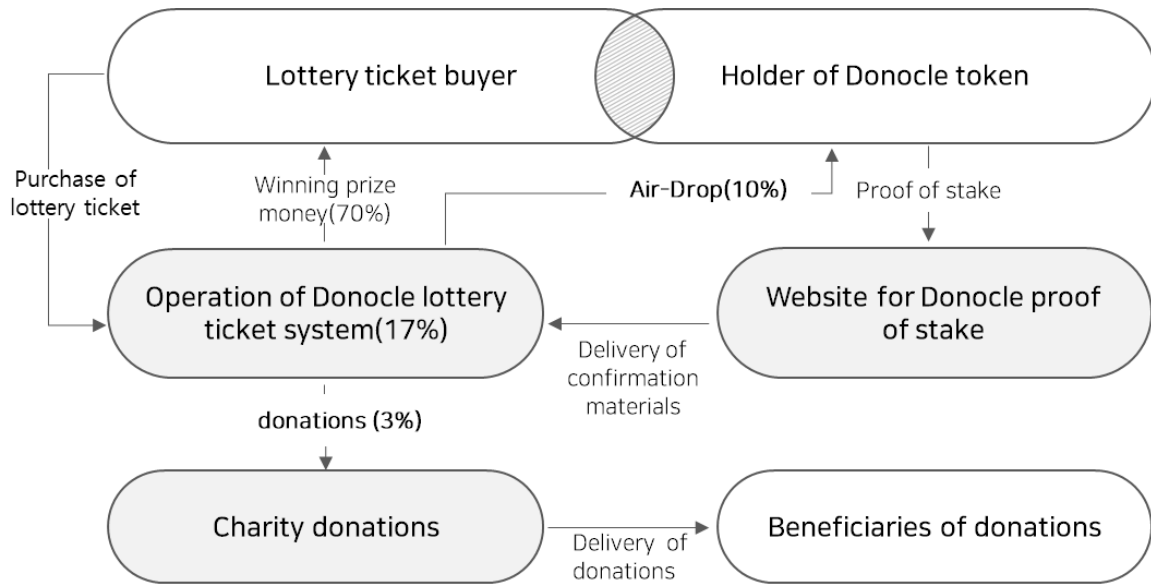


## 4. DONOCLE Lottery Management

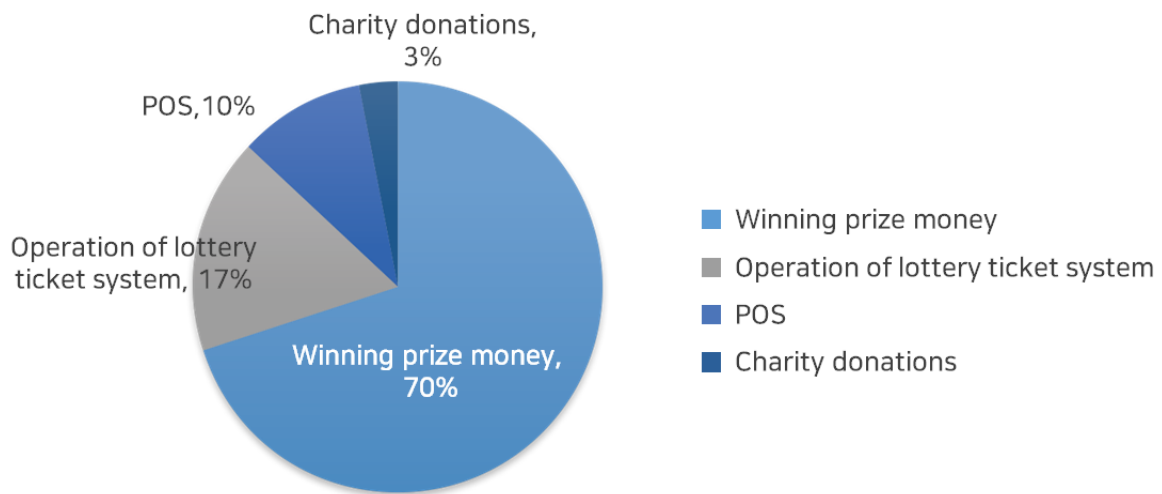
### A. Operation of Donocle

Buyers of Donocle can not only use Donocle tokens to purchase the lottery tickets, but also 50 types of other coins. Taking into the account the transaction volume and market capitalization, Donocle will select 50 types of coins that can be used for lottery ticket purchases, based on the trading volume and exchanges.

[Figure 9. Donocle Lottery Operation Overview]



[Figure 10. Donocle Lottery Pool Composition]



Once users purchase lottery tickets using 50 types of coins including Donocle, the lottery pool for Donocle lottery sees a collection of 50 different types of coins. Among them, 70% will be handed out to the winners based in proportion to the composition share. Winners can keep the cryptocurrency they receive as prize money, or can convert it into cash in the market according to their needs.

The rest of the pool is used for the operation of the Donocle lottery system and POS(Proof-of-stake). 3% of the total lottery ticket pool is used for charity donations. Fifty types of cryptocurrencies according to the composition ratio of the total lottery ticket pool

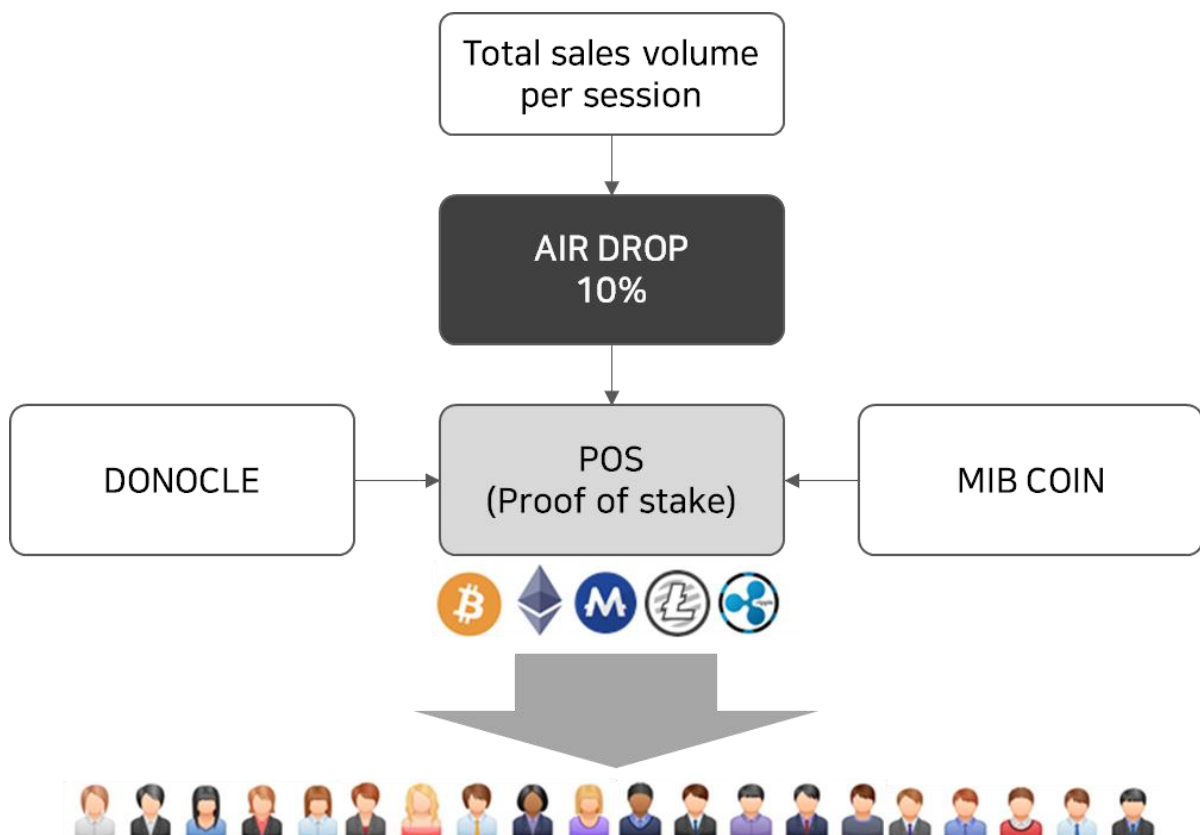
is handed over as donations. The foundations can convert them into cash in the market s necessary, or deliver them to the donation beneficiaries.

17% of the total lottery ticket pool is used for the operation of the company and the lottery ticket system. The Donocle Company, too, is handed out 50 types of cryptocurrencies as per the composition ratio of the total pool, which is then used for general administrative expenses, marketing and system operation.

## B. POS system of Donocle

Donocle has a unique profit allocation system. This is the core of Donocle services and contributes to the beneficial function of the coins, which is their distribution and usage. It offers convenience to users and also an opportunity to create profit. Moving away from a profit structure based on transactions, users can generate a more stable profit.

[Figure 11. Donocle POS System]



For POS(Poof-of-stake), DONOCLE or MIB COIN can be used. Whichever coin you may use, the POS system works. The user only needs to commission Donocle or MIB coin to the DONOCLE POS Web site and wait for confirmation.

The POS system requires 15 days to pass before the air drop. If a coin is retrieved from the POS even for a brief second, the count towards the 15 days is reset.

Starting with the first session after the 15 has passed, 10% of the lottery ticket sales is received through the Proof of Stake method. Participants in POS are handed out various coins through the POS system.

### C. Composition and confirmation of services

- Current status of lottery ticket sales and confirmation of total prize money

When Donocle lottery tickets are purchased using Bitcoin or other alternative coins, the total purchase volume and the type of coin used for the purchase can be verified from Explorer.

[Figure 12. Example of current status of lottery ticket sales and confirmation of the total prize money]



Time	Category	Coin	Ticket	Ticket number
2018-09-12 05:59:28	BTC	0.1	10,000	13454534654
2018-09-12 05:32:33	LTC	15	32	48864686666
2018-09-12 05:26:02	MIB	30	915	89789354646
2018-09-12 05:24:51	DDL	25	852	46465464545
2018-09-12 05:17:44	XRP	120	120	48869849878
2018-09-12 05:11:31	LTC	2	40	84849849498
2018-09-12 04:57:00	BTC	1	10,000	65616461616





- Record of lottery wins

When the winning number is confirmed according to the raffle method, the winning number is automatically listed in order in the total sales records.

- Automatic marking

In the case of a need for bulk purchase of lottery tickets, random markings can be done. Several hundreds to several thousand tickets can be purchased by selecting automatic marking.

- Manual marking

The buyer can mark the numbers of their choice on individual tickets.

- Multi-coin wallet of Donocle

Coins or tokens used for purchases must be transferred to the Donocle wallet in advance to receive a complete confirmation from the network. The transfer must take place by taking into account the circumstances of each coin network.

- Confirmation of winners

The company may request a "KYC(Know Your Customer)" from the winner. This is a measure to legally guarantee the prize money and prevent fraud or irregularities.

- Deferral of the prize money

In the case there is no 1<sup>st</sup> prize winner, the prize money is deferred to the following session. There is no limit to the number of deferrals that can take place before a winner is identified.

- Payout of the prize money

The prize money can be paid out until three months following the win. The winner must provide a "KYC" to the company within the 3 months of winning. "KYC" can be omitted if it has already been carried out in advance.

- Legal guarantee and confirmation

Donocle is joined by numerous experts that are influential in their respective fields and that handle cryptocurrency, from the project planning stage. It is a project started by bringing together cryptocurrency exchanges, legal advisors, accounting advisors, government sports lottery authorities, lotto teams, a specialist team for the development of online games, an expert team of testers to verify the quality of products and developers of blockchain. Drawing on the expertise of the participants, we will promptly address any legal challenges we may face.

Projects such as those involving lottery tickets require a firm basis on the law and require strict regulations. As such, the proper process and rationale are essential.

As such, Donocle plans to secure licenses from at least two regions.



## 5. DONOCLE TOKEN

### A. Basic Information

Name	DONOCLE
Coin Ticker	DDL
Official Website	<a href="https://www.donocle.io">https://www.donocle.io</a>
Platform	ERC-20 or MIB ERC-20
Total supply	600,000,000

### B. Sale Information

[Table 4. Funding Structure]

Classification	Quantity	Percent	Vesting
Pre-Sale	300,000,000	50%	12(Month)
ICO	100,000,000	16.6%	6(Month)
Investors	100,000,000	16.6%	24(Month)
Advisors	20,000,000	3.3%	24(Month)
Team	10,000,000	1.6%	24(Month)
Marketing	10,000,000	1.6%	-
Bounty	10,000,000	1.6%	-
Reserve	50,000,000	8.3%	48(Month)
Total	600,000,000	99.6%	

- Marketing- The quantity listed on the exchange or provided to external marketing



corporations

- Bounty- The quantity set for individual global marketing where individuals who voluntarily take part in promotions will be handed out anything between 10DDL and 3,000DDL
- Reserve- The quantity used for working capital by the company, specifically to expand or develop the system, or develop additional businesses.

[Table 5. Token Allocation]

Classification	Percent
Marketing	30%
Business Development	10%
Operation	6.66%
Capital Reserves	33.34%
Global Network Development	10%
System Development	10%
Total	100%

### C. Vesting Table

- 1Year

	1M	2 M	3 M	4 M	5 M	6 M	7 M	8 M	9 M	10 M	11 M	12 M	Total
ICO	10%	15%	20%	25%	30%	-	-	-	-	-	-	-	100%
Pre-Sale	3%	5%	7%	8%	8%	8%	8%	10%	10%	10%	11%	12%	100%
Investors	1%	2%	3%	4%	4%	4%	4%	4%	4%	4%	4%	4%	42%
Advisors	-	-	-	-	-	-	2%	3%	3%	3%	3%	3%	17%
Team	-	-	-	-	-	-	2%	3%	3%	3%	3%	3%	17%

Reserve	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	24%
---------	----	----	----	----	----	----	----	----	----	----	----	----	-----

• 2Year

	1M	2 M	3 M	4 M	5 M	6 M	7 M	8 M	9 M	10 M	11 M	12 M	Total
ICO	-	-	-	-	-	-	-	-	-	-	-	-	-
Pre-Sale	-	-	-	-	-	-	-	-	-	-	-	-	-
Investors	4%	4%	4%	4%	4%	4%	4%	4%	4%	6%	8%	8%	100%
Advisors	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	8%	45%	100%
Team	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	8%	45%	100%
Reserve	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	48%

- Vesting options are based on division/ ration payout and were designed by taking into account the profit to risk ratio.
- In particular, given the trading pattern in the current coin market and the characteristics of the Donocle system, they have been designed for a safe recoupment of investment funds and a promotion of common good, while ensuring that the value of Donocle is maintained in the market.

---

## 6. ROADMAP

---

- **2018 Q1**

Donocle whitepaper was developed.

Donocle project was conceived and its technical aspects were reviewed.

Research on the synchronization of the MIB blockchain platform (SBP : SmartX Blockchain Platform)

- **2018 Q2**

Donocle PTE.LTD Singapore was established.

DGBLS™ (Donocle Global Blockchain Lottery System)

Official website of Donocle

DGBLS™ was designed.

- **2018 Q3**

Donocle project is brought to a greater degree of sophistication

IDCM Listing agreement

- **2018 Q4**

Hong Kong affiliate was established (Donocle International)

Global marketing

Pre-sales

- **2019 Q1**

Opened trading on the exchange (Hong Kong, Korea)

Demonstration of the Donocle project

Secured licenses for the lottery business (in 2 regions outside of Korea)

- **2019 Q2**

Expansion of the Donocle business

Establishment of the Donocle Donation Foundation in the works

Pilot services launched for global users



POS system tested

Launched official services

---

## 7. Contact Support

---

- Official website : [donocle.io](https://donocle.io)
- e-mail : [support@donocle.io](mailto:support@donocle.io)