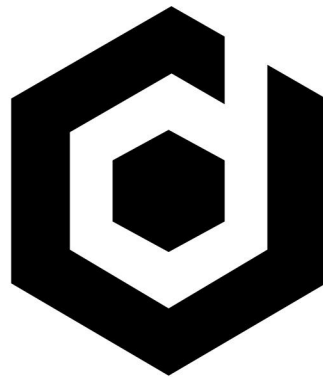


# **DRC** White paper

Version 3.0 (English)



**DRC PROJECT**

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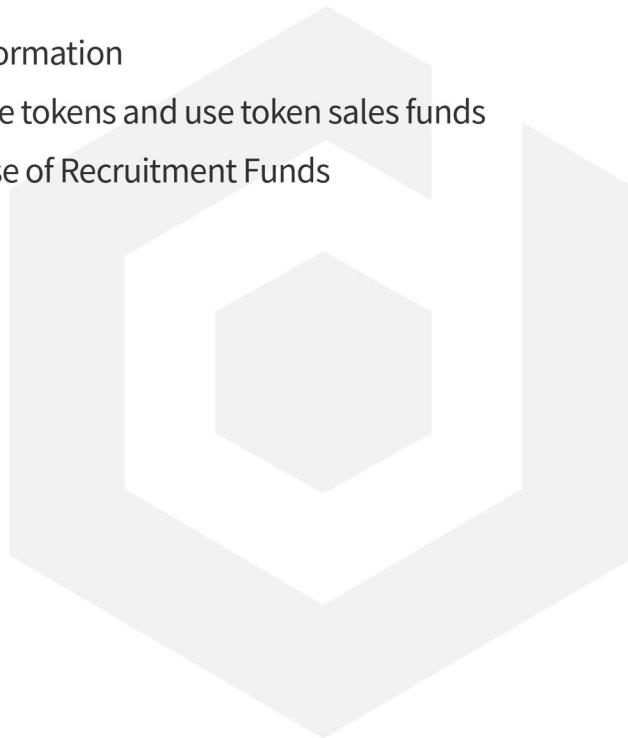
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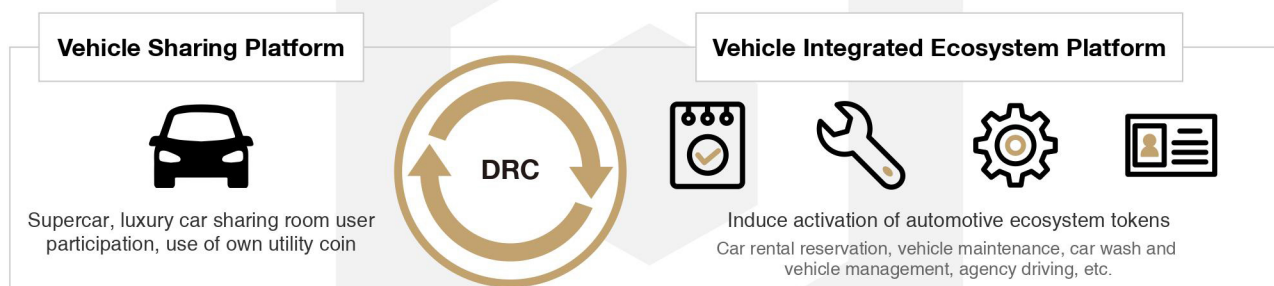


## 1. SUMMARY

# “ DRC ”

“Connect the world with Intelligent invention mobility Eco-System”

'DRC Mobility (DRC)' is a block chain system based on a car rental platform as well as a sale exhibition hall for super cars, luxury cars, and popular imported and domestic cars. We will create a smart mobility ecosystem that users who participated in the ecosystem can conveniently and transparently use in real life by integrating the service areas of the existing segregated and closed automobile market into one.

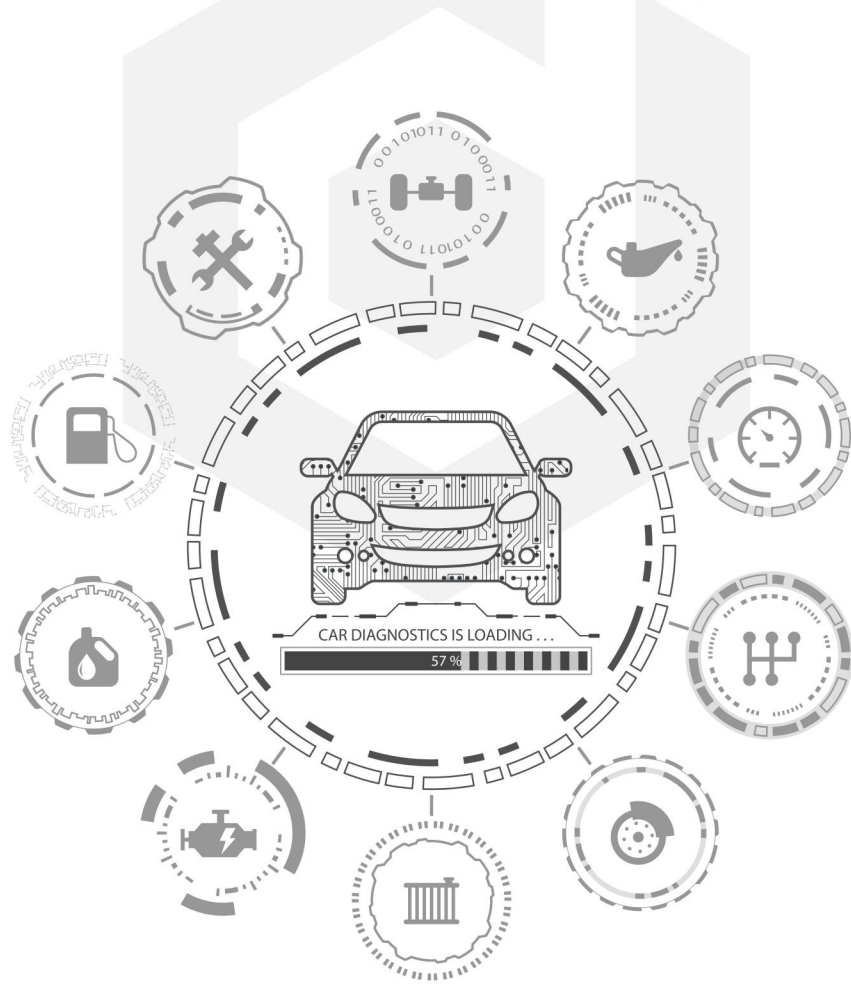


All users participating in the DRC ecosystem can enter DRC WORLD using tokens issued by DRC from trusted, carefully selected data producers, and car rental on the DRC WORLD integrated information system and DWIIS (DRC WORLD Integrated Information System) platform. You can purchase and receive high-quality data from the mobility ecosystem that covers all areas of the automobile market, such as car sharing, vehicle maintenance/repair, proxy driving, electric vehicle charging, and unmanned passenger transportation.

## 2. INTRODUCTION

"The intelligent platform for new invention mobility service"

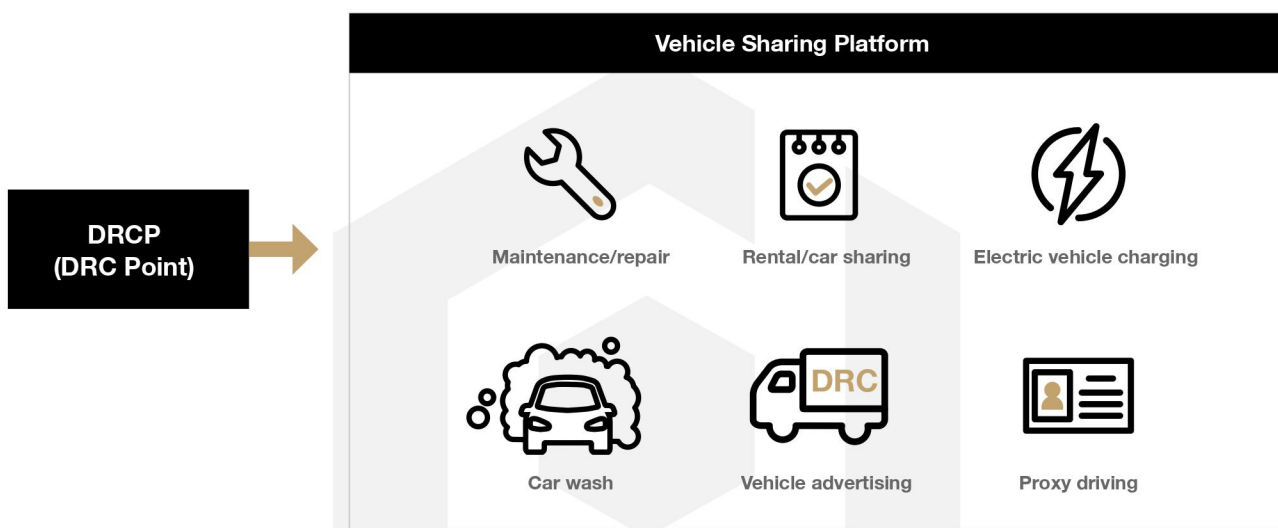
DRC is an integrated mobility platform combining blockchain based on a luxury rental car platform. Leading smart blockchain economy by integrating the existing mobility services into one. DRC is a blockchain based integrated mobility platform. It was built on luxury car rental platform. DRC will lead smart blockchain economy by integrating conventional mobility services.



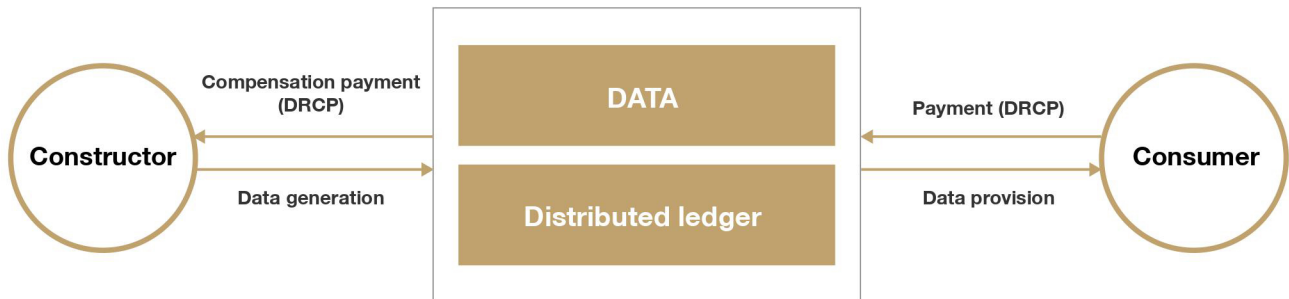
### 3. VISION AND GOAL

DRC creates an integrated mobility service ecosystem with its own platform or partner's platform to issue DRC Tokens based on blockchain and distribute them in the market.

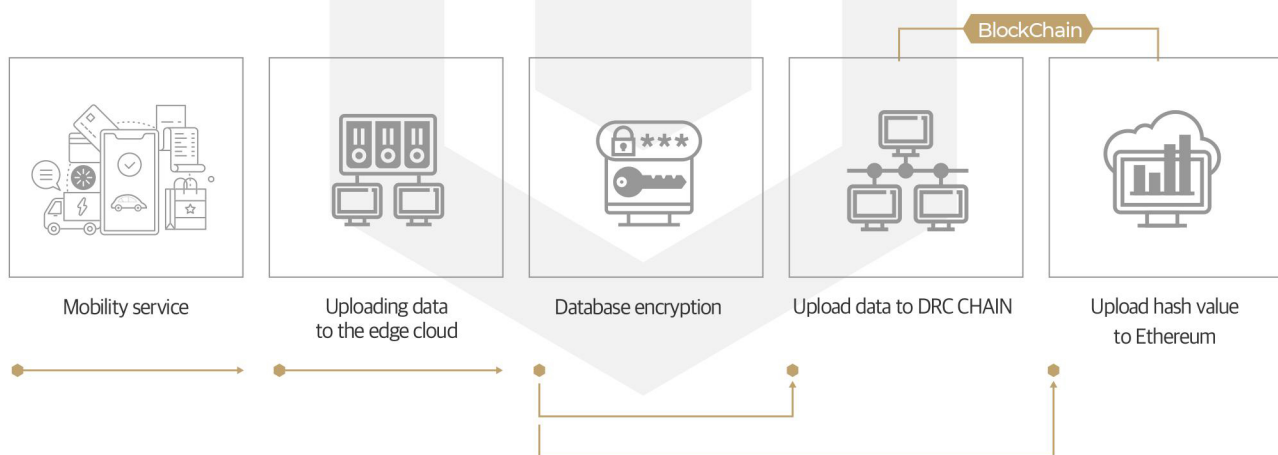
DRC's goal is to apply blockchain to existing services to solve problems that existed in current services and to build a platform ecosystem that can create new values.



In addition, all users participating in the ecosystem can use DRC Tokens (Points) issued by DRC from trusted and carefully selected data producers, and use the platform for car rental, vehicle maintenance/repair, car wash and vehicle management, and agency driving. You can purchase and receive high-quality data in the mobility ecosystem that covers all areas. The conclusion from many years of experience is that if a number of companies and users are connected to a single car service form, a blockchain ecosystem, fundamental problems in the car market that have not been solved so far can be improved and solved. And it is our mission and future vision to connect numerous services to the DRC ecosystem through the convergence of blockchain technology and automobiles. In addition, we intend to give ownership to users who provided information generated through the analysis of big data collected through the ecosystem and provide new revenues to them. Technically, it is a blockchain service platform that records the generated data in an open structured distributed ledger using blockchain technology, provides an appropriate price to the consumers who need them, and returns some of the profits obtained to the data creator.



Through this, both DRC participants and users can develop along with the growth of the ecosystem, and we will contribute to the creation of a more transparent and convenient smart mobility ecosystem by integrating the service areas of the automobile market into one. As a result, both platform participants and users will bring an integrated blockchain and value circulation algorithm that can maximize each other's benefits.



Data processing and storage using the DRC network is performed quickly and safely with the above process. OBD2 and telematics information installed for each vehicle are primarily stored in the edge cloud storage. In the case of the cloud, it provides a distributed infrastructure through the Internet, but from the standpoint of service provision, you can see that it becomes centralized for all users who use the service. If it is centralized, the more users increase, the exponentially increase in computing cost to handle it, and the latency for service provision increases, which degrades the quality of service. In order to improve this centralization, the edge cloud is configured in the form of delegating a part of the role of the cloud to the device that first contacts the user and processing it. In the form of concentrating and analyzing all data and providing services, if necessary, The service quality can be improved by analyzing and providing some services in ES, balancing the load of the cloud and reducing the latency for service provision.

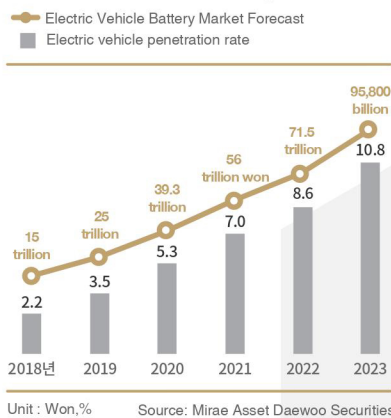
After the data stored in the Edge Cloud is double-encrypted, the data area will be uploaded to the privacy side chain, DRC CHAIN, and the token usage history and the hash value for data verification to Ethereum to build a decentralized platform.

## 4. Platform Services (Blockchain)

### 4.1 Current Mobility Market Status

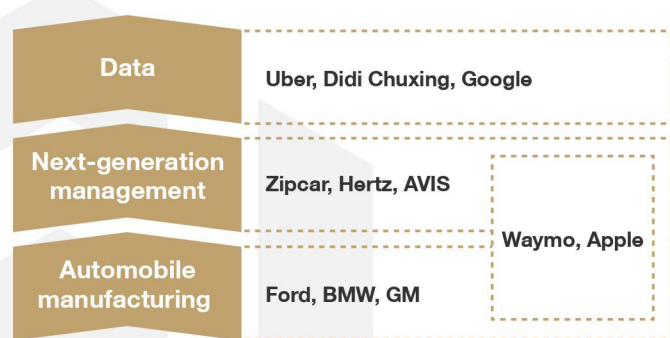
In recent years, a new service that combines the traditional automobile industry and IT technology has emerged, and it is moving toward a platform business model that combines a new sharing culture that borrows when needed rather than owning. Seems to grow even further.

**Electric vehicle penetration rate and electric vehicle battery market size**

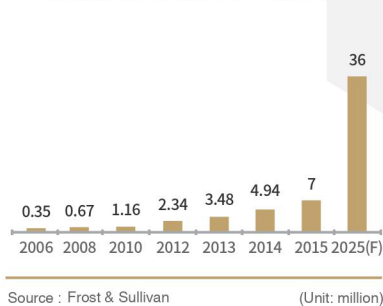


**Future automotive market structure predicted by Goldman Sachs**

Source = Goldman Sachs, kdb Industrial Technology Research Center



**Worldwide car sharing Number of users outlook**



**Domestic and foreign autonomous vehicle market forecasts (Unit: billion dollars, billion won)**

Division		2020	2025	2030	2035	CAGR(%)
World market	Limited autonomous driving (Lv3)	63.9	1,234.80	3,456	4,905	33.6
	Fully autonomous driving (Lv4)	6.6	314.1	3,109.20	6,299	84.2
	Sum	64.5	1,548.90	6,565.20	11,204	41
Domestic market	Limited autonomous driving (Lv3)	1,493	28,852	80,753	114,610	33.6
	Fully autonomous driving (Lv4)	15	7,341	72,651	147,183	84.2
	Sum	1,509	36,193	153,404	261,794	41

Source : Autonomous Vehicles, Navigant Research(2013)/ Strategic Analysis of the European and North American Market for Automated Driving, Frost&Sullivan(2014)/ Autonomous driving system, KISTI(2016)

As such, the automobile industry has created a wide range of related industries and jobs such as insurance, energy, transportation, logistics, maintenance, and used car trading. Despite this remarkable growth in the automotive industry, the automotive market still has many persistent problems that remain unsolved. The traditional automotive industry and newly emerged IT services are only responsible for specific service areas, and there is a limit in not being able to connect the entire automotive ecosystem into one. The necessity of comparing new car prices stained by excessive sales competition of automobile dealers, excessive rebates of lease/installation financial products and car insurance salespeople, irrationality of used car pricing due to distrust between buyers and sellers, and distrust of quality and price. Unbelievable maintenance companies, unreasonable car insurance premiums, unfriendly transportation services, traffic accidents caused by reckless driving, etc. cannot be solved with technology, and there is no thorough verification and compensation system, resulting in a vicious circle structure in the overall automobile service industry.



### 4.2 Suggest our solution

Numerous causes of problems, such as a regulatory-driven ecosystem in the automobile industry and an over-centralized and unconnected service cluster, result in 'decrease in trust' and 'disruption between services'. DRC's goal is to eliminate the role of intermediaries, such as unnecessary fees, arising from distrust of buyers and sellers, by connecting all industries that make up the automotive ecosystem as described above with blockchain technology. In other words, it is trying to find an answer by connecting numerous car services into one ecosystem. Consumers are anxious about whether the car they are buying is certain that they do not have a history of accidents, or whether they are actually trying to replace the parts with no problems. DRC has a mission and goal to solve these consumer worries with blockchain. The automotive industry is the best field to accumulate data by realizing transactions between parties without intermediaries, which is the biggest advantage of blockchain.

### 4.3 DRC's main target

DRC provides a multi-wallet-type D platform to all users participating in the ecosystem and participants in various mobility industries, and provides an instant payment system within the balance range. From rental car, car sharing, maintenance/repair, parking, surrogate driving, and leisure pickup service, it can be a data channel that can collect key information in the mobility field by identifying participants' consumption patterns and driving habits. We provide active and reasonable services to users. This life-friendly project linked to real life provides the fastest and easiest user experience to provide a quick and fast market entry environment for mobility operators and encourages participation in the ecosystem through various benefits and rewards.

### 4.4 DRC's data collection

All of DRC's partners' rental cars are equipped with telematics terminals based on OBD2. It processes and collects vehicle information through more advanced telematics (digital driving record) based on universal information that can be collected through On-Board Diagnostics (OBD), which allows you to view existing speed, driving status, and fault information. Based on this, information data such as vehicle purchase patterns, vehicle rentals, vehicle maintenance information, parts data, driving information, and used car history of DRC ecosystem participants are collected, and standards for protocol data are disclosed, and anyone can participate and contribute. Build your data so you can. All of this data is planned to be used in partnership with a car-based big data company. In addition, the collected data will be provided as a service to portal sites, commercial vehicle brands, and insurance companies.

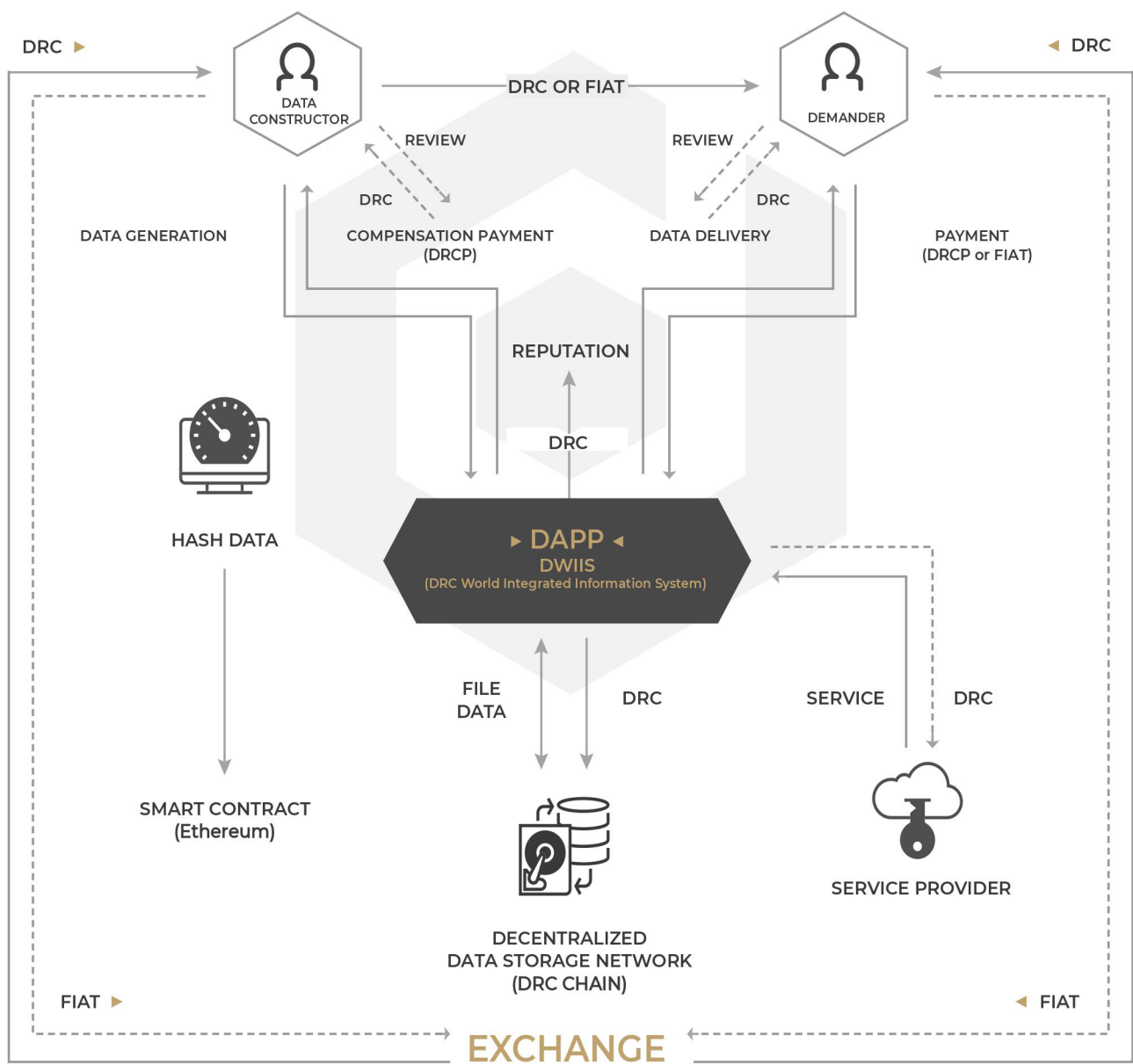
Division	Data to be collected
Communication integral/separate type Digital tachometer (H/W)	Speed, distance, RPM, brake signal, shock event, acceleration measurement, driving information (running time, stopping time, end time, driving distance by section, running speed, idle time), door opening and closing, whether or not to use direction indication, failure Diagnosis function and error code generation, control information (data information such as vehicle location)
DRC Wallet (Block Chain)	Vehicle reservation information, point/coin transaction information, customer activity information, etc.

## 5. DRC Eco-System

### 5.1 DRC Chain Token Economy

Users create a virtuous cycle of tokens through interaction within DRC chain ecosystem.

Under the DRC chain ecosystem, various users have interactions each other and from virtuous cycle for the token.



## 5.2 DRC Incentive Platform (RENTDREAM & E-LUXURYCAR)

On all platforms of the DRC ecosystem (DRC ECO), we plan to operate an incentive program to receive benefits after signing up by depositing rewards acquired from activities within the ecosystem and DRCs purchased from external exchanges. If more than a certain amount of DRC is deposited on each platform, it is classified according to the amount deposited and provides special services such as rental car reservations, rental car reservations, vehicle maintenance, car washing, and other events for VIPs to use the DRC ecosystem. Motivate and build a stable token economy. This Membership Service will be provided by all services to be included in the DRC ecosystem, and is first operated by the O2O car sharing service 'RENTDREAM', a core partner of DRC Mobility, and 'E-LUXURYCAR', a luxury car sharing service. It will be expanded to other services.

**First**, it is a reward that is paid when you make a reservation for a rental car or participate in an event through the 'RENTDREAM' reward system for the membership level according to the service use. The selection criteria are selected as a method of paying points X 1% of the amount of payment when booking is completed, points paid when writing more than 30 characters when participating in the event, uploading 1 or more photos, and premium writing paid when writing more than 100 characters It's possible. The grade is given through the point index accumulated with the corresponding points, and an additional discount rate is applied according to the grade upon payment. (It is automatically updated through the DRC platform with the reservation on the 1st of each month, the accumulated reservation index for the last 3 months, and the accumulated reservation index and the accumulated reservation amount.)

Grading	Point index	Booking Amount (Cumulative Customer)	Benefits
Challenger	300,001 ~	Automatically granted to customers over KRW 30 million	1% additional discount upon payment (reservation)
Diamond	100,001 ~ 300,000	Automatically granted to customers over KRW 10 million	0.5% additional discount upon payment (reservation)
Platinum	30,001 ~ 100,000	Automatically granted to customers over KRW 3 million	0.3% additional discount upon payment (reservation)
Gold	10,001 ~ 30,000	Automatically granted to customers over KRW 1 million	Additional 0.1% discount upon payment (reservation)
Silver	3,001 ~ 10,000	Customers who book more than once or those who book more than 300,000 KRW	None

**Second**, 'E-LUXURycAR', a luxury car sharing service for only the top 1%, categorizes five member levels through DRC through customized PRIVATE service, and gives different levels of supercar, luxury car vehicle selection and operation, and proxy driving according to the grade. It's possible. In addition, there will be a separate event for VIP members and above.

		PLATINUM	VVIP	VIP	GOLD	SILVER
Subscription fee (Cash or points)		42,000,000	20,000,000	15,000,000	7,000,000	3,000,000
Use Count (yearly)	Vehicles A	20time	5time	X	X	X
	Vehicles B	20time	15time	10time	6time	2time
	Vehicles C	20time	10time	20time	6time	4time
Total count		60time	30time	30time	12time	6time
Other proxy operation (year)		00time	00time	00time	00time	00time

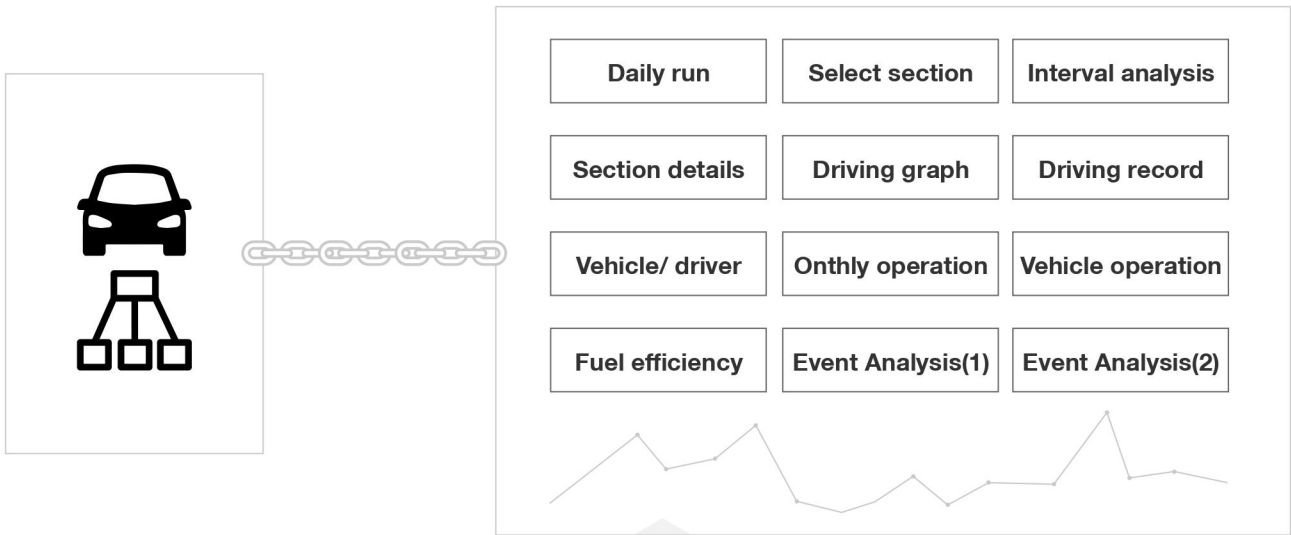
Number of subscriptions and availability by level

Rent-a-car vehicles operated by 'RENTDREAM' are based on more advanced telematics (digital driving records) based on universal information that can be collected through OBD (On-Board Diagnostics), which can view existing speed, driving status, and failure information. Process and collect vehicle information. First of all, customers who use rental cars are rewarded by agreeing to collect data related to their driving through telematics. In addition, the real-time vehicle information (idling, sudden acceleration, rapid deceleration, speeding, and stopping) installed in the rental car is converted to the fuel cost reduction index information.

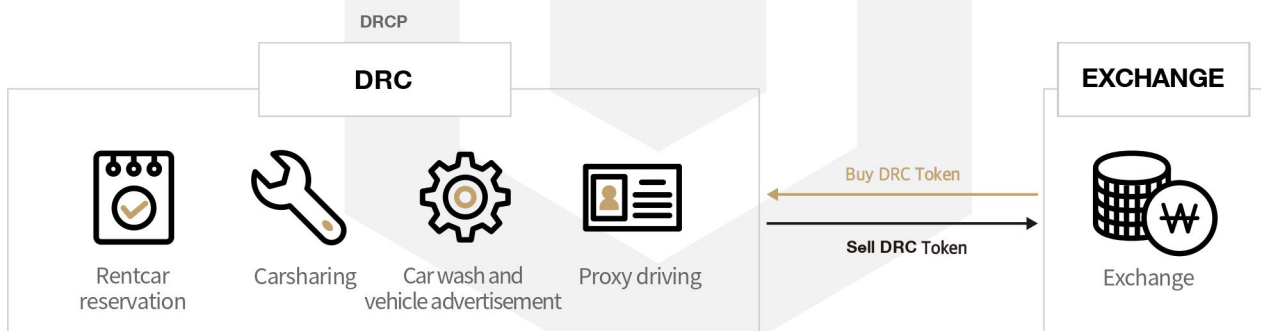
The amount of driving during the rental period is converted into points and the corresponding amount of DRC points (DRCP) is paid. In addition, the meeting of telematics and blockchain brings innovation in vehicle management and safe operation. Based on the information collected through telematics, information such as the maintenance cycle of the vehicle, the current status, and the replacement cycle of consumables is stored in the blockchain. In addition, by analyzing these data, it is possible to predict the most appropriate consumable replacement cycle and maintenance cycle, and manage the maintenance cycle according to vehicle type by data conversion. It can be of great help in vehicle control.

When the vehicle is sold in the future, accurate vehicle conditions can be checked. The most problematic thing in the used car sales market is to deceive the history of vehicles. Since maintenance, replacement of consumables, and accident details are all stored in the blockchain, it will be possible to check the exact history of vehicles and to be able to trade at an appropriate price.

On the other hand, it was difficult for insurance companies to set reasonable insurance premiums for expensive vehicles, as parts prices and repair costs were not clearly disclosed. However, on the DRC platform, repair details, prices, and consumable replacement cycles of expensive supercars and luxury cars are stored and verified as data that cannot be forged, so it is possible to provide reasonable and customized insurance products to individuals or companies. This reduction in premiums also saves money for the rental company, so it will help you focus on better service.



Participants in the DRC Point (DRCP) ecosystem can use it to use a rental car operated by DRC Point (DRCP) 'RENTDREAM', or use it as cash in service companies such as vehicle maintenance, car washing, and proxy driving, which are partners contracted with DRC. In addition, you can exchange DRC points (DRCP) into DRC coins and trade them on the exchanges where DRC coins are listed.



DRC points (DRCP) are awarded based on the total score through the fuel cost reduction index based on the driving time and driving distance below.

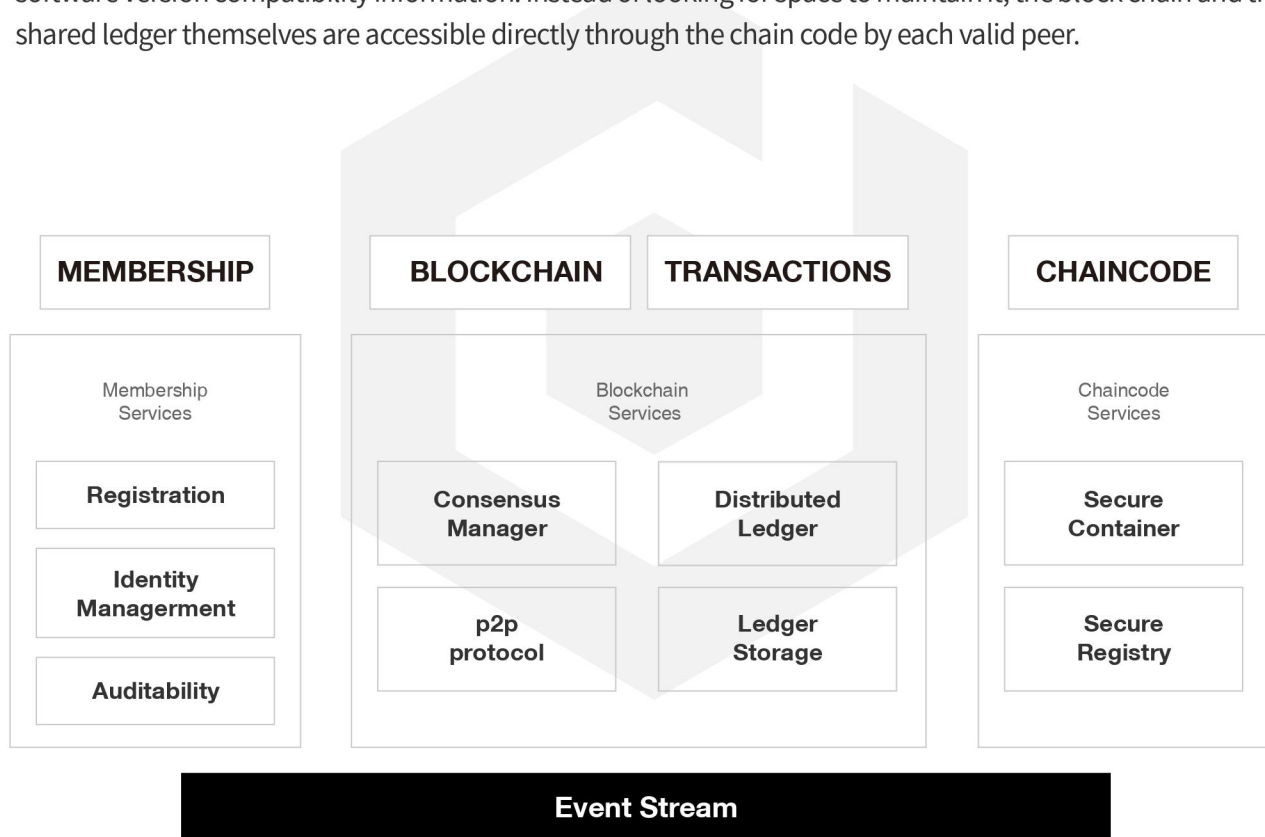
Operation time (minutes)	driving distance (Km)	overspeeding	long-term speeding	Number of long-term speeding	a sudden start	rapid acceleration	a rapid acceleration	a sudden stop	Idle	Total Score

Smart contracts, digital assets, storage systems, distributed consensus-based s, plug-in-based agreements(-Consensus) Based on concepts such as algorithms/models and cryptographic security, incentive-type block chain We make it easy to implement services.

DRC Service provides built-in capabilities such as

- **MemberShip Service:** Blockchain Membership Service
- **Blockchain Service:** Distributed ledger engine via HTTP/2 based P2P platform
- **Chain code service:** Code function to implement contracts added to the block chain

Because the "Chain code" in the "validating peers" of the block chain implements rules and conditions for approval of the contract, each peer needs a common access to validate the contract and access to replicated software version compatibility information. Instead of looking for space to maintain it, the block chain and the shared ledger themselves are accessible directly through the chain code by each valid peer.



DRC Service

## 6. DRC Block-Chain

DRC Platform manages the Cloud and information of Telematics using block chain technology. It also verifies and record the system and data through encoding algorithm.



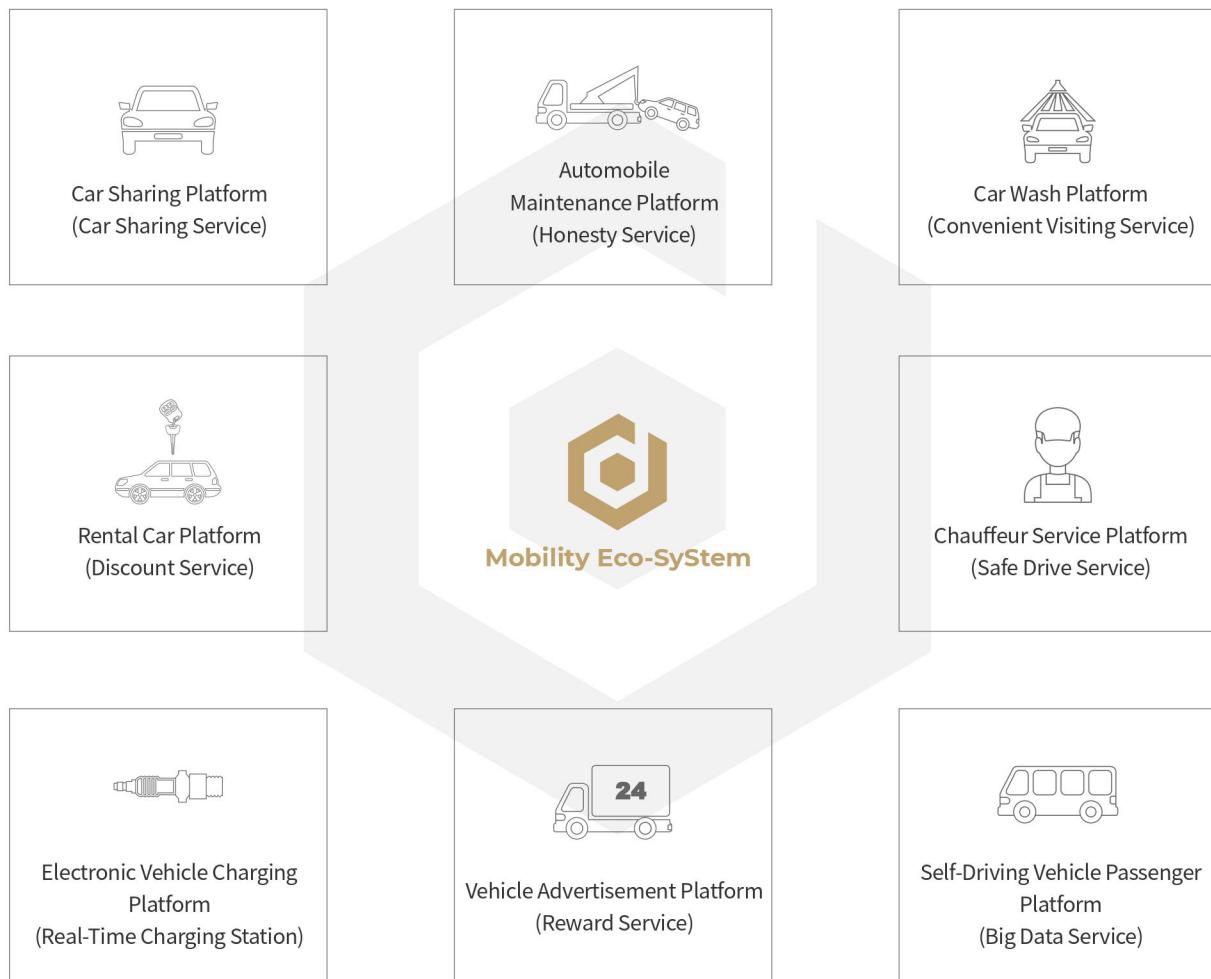
## 7. DRC Crypto Payment

Users with DRC Wallet Solution ID will establish the mobility linked payment system through DRC Payment System (D-PAY).



## 8. DRC Business Platform

DRC chain connects various mobility service fields into one ecosystem.





## 8. DRC Business Platform

### 8.2 NFT Marketplace & Fund Platform

DRC is based on real-life supercar, old car, and classic car market places, and online DreamCar NFT market is provided to users participating in the ecosystem.

DRC Marketplace enables users based on non-fungible Tokens (NFT) sparsity to enjoy collecting different types of mobility collections. DRC NFT is a digitalization of the ownership of mobility users in the DRC ecosystem, and marketplaces allow both issuance and transactions to form a market to be as transparent and fluid as possible. In addition, DRC NFT owners can benefit from a variety of physical interworking benefits, including purchase, maintenance, and rental, for physical vehicles on NFT cards from the DRC app and the RENTDREAM platform.

In addition, NFT distributed investment fund products using blockchain technology will be released, allowing distributed investments in mobility fields such as limited edition super cars, old cars, and classical cars such as artworks. If the value rises, users who invest in the DRC fund platform can receive rewards with DRC tokens transparently, and both purchase and payment of NFT marketplaces and fund platforms can be made with DRC tokens.

## 9. Growth Plan & Conclusion

### 9.1 Growth Plan

The DRC will continue to develop and evolve through alliances and links. We plan to provide incentives to customers who make reservations for rental cars and participate in events through the currently operating rental car platform 'RENTDREAM', and the incentives will be built to be used in the DRC ecosystem (DRC ECO) as DRCP (DRC Point). In addition, DRC wallet service is provided as an essential element for converting coins of other exchanges to DRCP and using them for rental car reservations. In order to provide in-service car wash and surrogate driving services, we plan to cooperate with relevant companies to achieve continuous expansion and development.


### 9.2 conclusion

DRC Ecosystem (DRC ECO) is not limited to other services focusing on the level of incentive accumulation and discounts through the creation of better value through automobile-related businesses and membership systems, and easy payment services through virtual assets. We plan to provide incentives in decentralized services through the service, and combine them with telematic technology and blockchain technology to allow the use and benefits of DRCP tokens to go out to a system where the use and benefits of the DRCP token are entirely determined by the users' consensus.

## 10. Token issue event

### 10.1 Token Issuance Information

Listing token issuance information sold through token sale is as follows.

Token name	<b>DRC</b>
Symbo	
Platform	<b>Ethereum</b>
Standard	<b>ERC-20</b>
Issuance	<b>1,000,000,000 DRC</b>

### 10.2 Token distribution and operation plan

Listening token distribution information by purpose is as follows. (However, some ratios can be changed later within the scope of the purpose required for the development of the project.)

Issuance
<b>1,000,000,000 DRC</b>

Token sale	F.D	Team	Advisor	Partner	Marketing	Reward	R&D	ECO System
10%	15%	5%	10%	10%	15%	10%	15%	10%

DRC Token will form the initial circulation by distributing 10% (excluding bonuses) to institutions and investors through Token Sale. (No lock-up period)

F.D : After 12 months of lock-up, lock-up is released by 15% for 36 months each month.

Team: After 12 months of lock-up, lock-up is released by 5% every 1 month for 36 months

Advisor: After 12 months of lock-up, lock-up is released by 10% for 36 months in increments of 1 month

Partner: After 12 months lock-up, lock-up is canceled by 10% for 36 months by 1 month increments

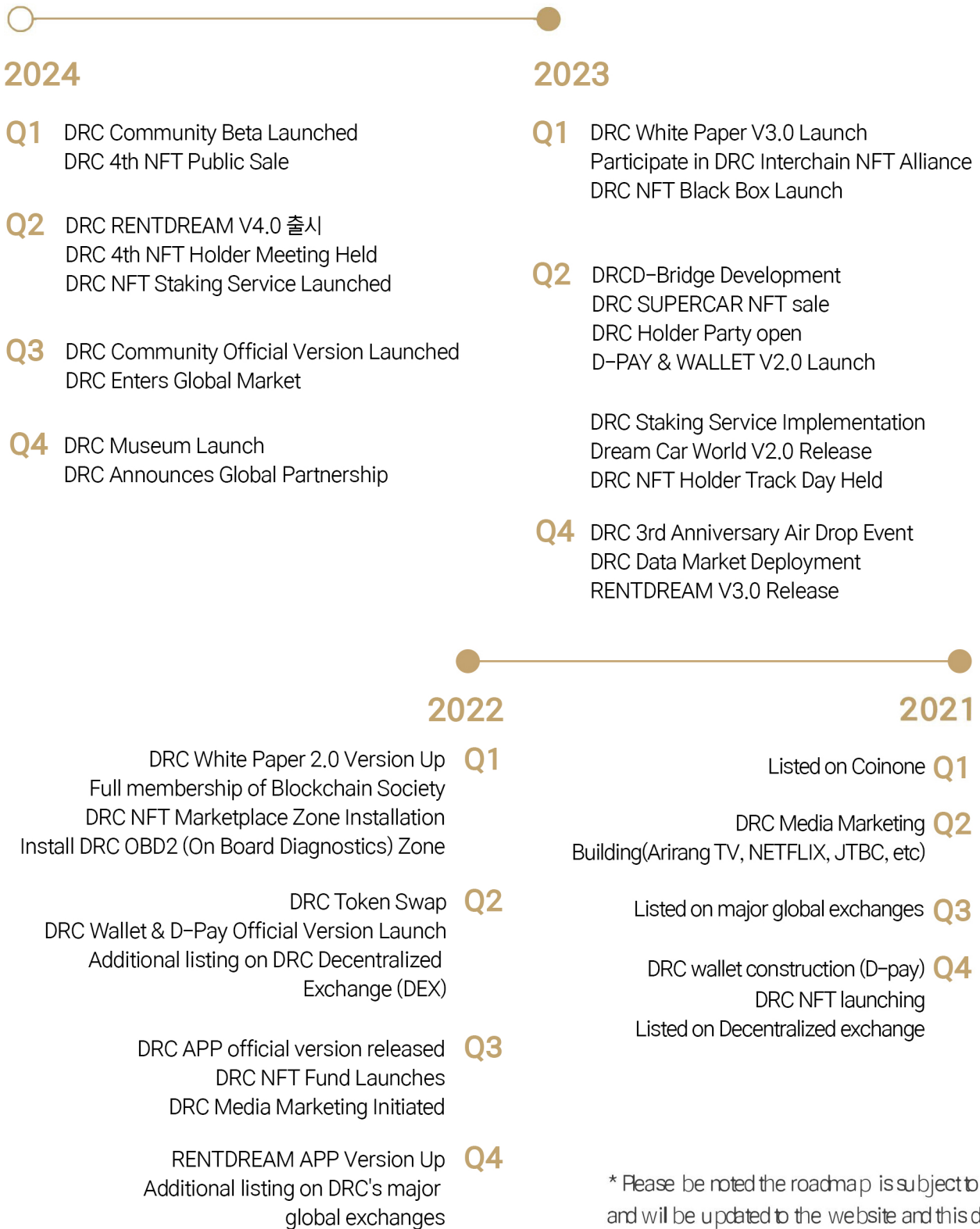
Maketing: 15% per month for 60 months

Reward: 10% every 1 month for 48 months

R&D: Allocate 15% per month for 48 months

ECO System: After 24 months lock-up, 10% will be allocated per month for 36 months

# 11. Road map



\* Please be noted the roadmap is subject to change, and will be updated to the website and this document.

## 12. Leaders



Myungbo Kim

**President**

M.C Law Firm, Partner Attorney  
SKKU Criminal Law Ph.D  
CAU Department of Law



Bentley Han

**CEO**

CEO at H Rent a Car  
Hanyang University BA



David Sung

**Co-Founder**

Vice President of W&P  
Director of Winners Rent a Car



Alex Cho

**COO**

CEO of Rent Dream  
Team leader of Bemycar



Jason Kim

**CTO**

White hacker  
University of Illinois BA



Hokyung Yang

**CFO**

Peking University MBA  
Pepperdine University BA



## 13. Team



James Lee

Strategic planner

Seoul National University BA



Chloe Lee

Marketing planner

Yonsei University MBA



Oliver Jeong

Software engineer

Michigan State University BA



Mark Cha

Blockchain engineer

Daegu University BA



Jesus Lim

Platform developer

Ajou Automobile University BA



Taewan Kim

Communication/PR

University of Sydney



Jinho Lee

Disclosure/IR

Michigan State University BA Yonsei university law school



Noah Shin

Legal Review



Pablo Kim

Designer

Hongik University BA



Taehoon Kim

SNS planner

Influencer marketer



Jerry Kang

Community CS

Hanyang University MS

## 12. Partners

## 13. Legal Issues

This white paper was written for the purpose of providing information on business models, technologies, and teams to those interested in the DRC. This whitepaper has nothing to do with it unless it is intended to recommend investments in the DRC. In connection with this white paper, Nothing is expressed or guaranteed to be accurate, and we are not responsible for it. This white paper notifies and explains the risks as follows.

- 1) Whether the white paper is written based on legitimate rights and does not infringe on the rights of third parties
- 2) Whether the white paper is commercially valuable or useful
- 3) Whether the white paper is suitable for the achievement of your specific purpose
- 4) We do not guarantee that there are no errors in the content of the white paper.
- 5) The information contained in the white paper may be translated or updated in other languages.
- 6) Project results and performance may differ from future plans.

The DRC platform is based on whether the information is regulated in the blockchain industry and its strength, The business will be affected directly or indirectly. Therefore, the DRC Team We comply with relevant laws and regulations for sound development. If you use this white paper in your own decision-making and other actions, the consequences are entirely based on multiple judgments, regardless of profit or loss. In other words, please note that even if damages, losses, debts or other damages occur to you by using this white paper, the project team will not be liable for compensation, compensation or other liability for them.

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## 14. Contact

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instagram : <https://www.instagram.com/drcasia/>

medium : <https://medium.com/@drcblockchain>