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CrossAngle Pte. Ltd.

Disclosure Level **A**

Xangle disclosure level policy

A+ 57 or more

A 50 ~ 56

B 42 ~ 49

C 41 or less

(Out of total 63 questionnaires)

EN ▼

Due Diligence Report



Observer Foundation OÜ

Estonia

(Country or jurisdiction of incorporation)

14488264

(Entity Registration Number)

Estonia

(Address, including zip code, including area code, of principal executive offices)

TABLE OF CONTENTS

[I. Corporate Profile](#)

[II. Business Information](#)

[III. Financial Information](#)

[IV. Tokens](#)

[V. Compliance](#)

WHERE YOU CAN FIND MORE INFORMATION

Readers and others should note that the company announces material information to the public using the company website, press releases, public conference calls, and webcasts. They may also use the following social media channels as a means of disclosing information about the company, products, planned financial and other announcements and attendance at upcoming investor and industry conferences, and other matters.

Channels	Address
Company Website	https://obsr.org/
Main communication channel	kakaotalk
Twitter	https://twitter.com/observerfounda1
Company Blog	https://obsr.org/
Facebook	
Linkedin	
Github	https://github.com/obsrernet
Reddit	
Telegram	https://t.me/obsrofficial
WeChat	
KaKaoTalk	https://open.kakao.com/o/gPsdW8T
Custom Link	Medium - https://medium.com/obsr

The information posted through these social media channels may be deemed valid. Accordingly, the public should monitor these accounts and the blog, in addition to following company press releases, conference calls, and webcasts. This list may be updated from time to time and these channels may be updated without notice.

Company Representative (Report Data Submitter)

Name
CHO TAEIL

Position
CEO

Office Phone Number

Telegram ID

PART I. Corporate Profile

ITEM 1. Basic Corporate Profile

Official Company Name	Observer Foundation OÜ
Establishment Date	14 May 2018
Jurisdiction of Incorporation	Estonia
Principal Office Location	Estonia
Address of Official Company Registration	Narva mnt 5, Kesklinna linnaosa, Tallinn, Harju maakond, 10117, Estonia
Company Name for Website Display	OBSERVER
Description of Company	IT company that combines weather observation big data and block chain tech. Observer provides accurate weather information and weather data trading platform.
Company Website	https://obsr.org/
Whitepaper Link	https://obsr.org/doc/BN_KR.pdf ▶ Contribute to mankind by completing micro-scale weather observation and information network.
Mission and Vision	It collects big meteorological data by securing its own meteorological observation network capable of micro-scale observation beyond the blind spot of the existing regular observation network. By providing more detailed and accurate meteorological information to private companies and public institutions based on this, it aims to promote the development of various industries and further minimize the damage caused by natural disasters around the world.

ITEM 2. Team

2.1 Executives & Founders

The following sets forth certain information regarding the company's executive officers and founders, their details and positions as of 2020-03-13

CHO TAE IL

Position Title	CEO
Short Bio	-Worked at an Investment company -Founded IT Start-up company -Founded global start-up companies in Southeast Asia and China
Experience	
Education	
Company e-mail	
Social	

2.2 Engineering Team Leaders

The following sets forth certain information regarding the company's development and engineering leaders, their details and positions as of 2020-03-13

KIM SUNG CHUL

Position Title	DIRECTOR
Short Bio	Experts in information security, encryption algorithm planning and design, and security solution development (Full stack)

Experience
Education
Social

2.3 Advisory

The following sets forth certain information regarding the company's advisories, their details and positions as of 2020-03-13

No data available

2.4 Organization Structure

The following sets forth certain information regarding the structure of the company as of 2020-03-13

Name of Department/Group/Office/etc.	Number of Full-Time Staff	Number of Part-Time Staff	Head of Department (Maybe left blank)
No data available			
Total	0	0	

PART II. Business Information

ITEM 1. Industry Classification

	Not Applicable
Sector	Technology
Industry	Software and Services
Sub-industry	IT and Blockchain Services
Categories	

ITEM 2. Industry Description

2.1 Industry Overview

Meteorological industry

- Industry that manufactures or supplies weather related products
- Divided into weather forecast system and solution market and weather forecast service market
- largely includes weather disaster prevention and recovery industry, climate change monitoring and forecasting project, and weather impact assessment project.
- Meteorological information has a tendency to a public goods and technological advances have a great impact on the development of other industries.

- > A variety of actors, including private operators, can use weather observation data produced / collected in the country
- > In order to produce weather forecast information, it is necessary to accompany advanced technologies such as weather observation, data assimilation, and numerical modeling.
- > affects a variety of industries such as renewable energy, aviation, shipping, agriculture, etc. and links economic value creation such as weather marketing

2.2 Recent Trends

(1) Increasing demand for meteorological information due to socio-economic damage caused by meteorological disasters

Around 606,000 people have died from meteorological disasters worldwide over the past two decades (1995-2015), resulting in an estimated \$ 250-300 billion annually. In order to reduce the human and material damages caused by meteorological disasters, the demand for meteorological information not only in the public sector but also in the industry is increasing.

(2) Technological advancement following the 4th Industrial Revolution is driving capacity building and market expansion

By minimizing the Internet of Things (IoT), artificial intelligence (AI), and big data technologies, we can create new business areas to support corporate management decision making.

- AccuWeather owns patent for user location based weather forecast service
- Scheider provides services to automatically control household energy consumption by applying weather information to home thermostats
- IBM acquires The Weather Company to deliver management information services that combine weather and cloud technology with weather

4th industrial technology is driving capacity building in weather observation and forecasting

- Observe areas that cannot be observed using LIDAR, drones, driverless cars, etc.
- Reduced high-performance computing costs make it easier to use numerical forecast models while providing more detailed local forecasts

2.3 Target Market Size

- The weather forecasting systems market
: estimated to be USD 2.3 billion in 2019 and is projected to reach USD 3.3 billion by 2025, at a CAGR of 5.7%
: US market - USD 0.7 billion

-. The Global Weather Forecasting Equipment Market
: valued at USD 3,908.15 Million in the year 2018.

-. The global weather forecasting services market
: valued at \$1,205 million in 2016, and is projected to reach at \$2,777 million by 2023, growing at a CAGR of 13.1%

2.4 Target Customers

Meteorological data participants, including meteorological participants, general businesses and governments, global organizations that require meteorological observations (such as governments in developing countries), individuals and institutional investors

2.5 Competitors

2.5.1 Existing Industry Competitors

The following sets forth certain information regarding the company's conventional competitors already established within the industry as of 2020-03-13:

The Weather Company

Description	A private meteorological observation and data analysis company, a startup and taken over by IBM worth approximately \$ 2 billion
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2.5.2 Token Project Competitors

The following sets forth certain information regarding the company's competitors that have implemented Token economics as of 2020-03-13:

No data available

ITEM 3. Project's Business Model

3.1 Business Description

3.1.1 Revenue Model

- Selling weather observation data
- Meteorological data processing and sales
- Weather data utilization service
- Weather forecasting and forecasting service
- Meteorological equipment sales

3.1.2 Platform or Application Overview

General platform description

No Input

Functions of the solution

- Collect various weather data in micro scale
- Token rewards for observers
- Check demand data of weather data users
- Weather data transaction

User pain points

3.1.3 Product/Service Line Description

· Mini Weather Station

A simple weather station that measures temperature, air pressure, humidity, and fine dust, precipitation (based on version 1). Observation data is transmitted to the observer platform for management and token compensation for observers. It is a channel for private participation in weather observation and a channel for entering the observer block chain business.

· Observer weather app

The barometric pressure sensor built into the latest smartphone and the Observer Observation App is used to collect barometric pressure information near the observer. It is used as a means to realize weather data crowd-sourcing by inducing more observer participation.

3.1.4 Competitive Advantage

1. Government Institution

- It is a mutually secure relationship with the government's regular observation network and is not in a competitive structure.
- Expected to be a major customer for observer's high quality weather data

2. Private weather company

- There is no leading company that has a direct / active observation business
- Global companies are also conducting business limited to specific regions (continents)
- Compact observation network can be installed based on cost competitiveness

3.1.5 Intellectual Property

1. Patent

Description	Business model patent, data QC related patent
Jurisdiction	
Patent Applicant	

3.2 Partnerships

▶ Korea Seven Co., Ltd.

Counterparty Website	http://www.7-eleven.co.kr/
Counterparty Description	Korea Seven was founded in May 1988. Korea Seven is a convenience store chain company affiliated to Lotte Group.
Applicable Dates	
Does this partnership has an expiration date?	No
Revenue Generation	Yes
Expected Revenue (USD)	N/A
Partnership Description	JOONGANGILBO
	https://news.joins.com/article/23658188
	MBC NEWS
	https://www.youtube.com/watch?v=kN1qHli_KB8
	YONHAP NEWS (from 1:25)
	https://news.naver.com/main/read.nhn?mode=LPOD&mid=tvh&oid=422&aid=0000405842
	JOIND
	https://joind.io/market/id/1175

DECENTER

<https://decenter.kr/NewsView/1VS3IU01K9>

BLOCK MEDIA

<https://www.blockmedia.co.kr/archives/121066>

Expected Benefits to Project Team

Expected Benefits to Counterparty

▶ **BLOCKWATER**

Counterparty Website

Counterparty Description

BlockWater Capital is a Korean crypto fund that invests in the blockchain and cryptocurrency sectors. Established in January 2018, it is a digital asset fund that invests in related businesses to make blockchain technology commercialized.

Applicable Dates

Does this partnership has an expiration date?

No

Revenue Generation

No

Expected Revenue (USD)

N/A

Partnership Description

Blockwater shall provide business consulting and its network of blockchain & non-blockchain companies to promote meaningful partnerships with the company

Expected Benefits to Project Team

Expected Benefits to Counterparty

▶ **Hwankyeongilbo Co.Ltd.**

Counterparty Website

<http://www.hkbs.co.kr/>

Counterparty Description

It is a newspaper issued in Korea. This is an environmental magazine, published in 2000, and published every two days by the Environmental Daily.

Applicable Dates

Does this partnership has an expiration date?

No

Revenue Generation

No

Expected Revenue (USD)

N/A

Partnership Description

MOU for commercialization of the joint marketing business and supply agreement for weather data content.
Hwankyeongilbo Co.Ltd plans to provide proper weather information services throughout the country through 40 branches

Expected Benefits to Project Team

Expected Benefits to Counterparty

▶ **4D solution Co. Ltd.**

Counterparty Website

<http://www.4dsolution.co.kr/>

Counterparty Description

4D Solution is a weather data company that provides customized weather information that users want from numerical forecast data based on know-how related to weather model using data production, processing, analysis, and display technology using weather model.

Applicable Dates

Does this partnership has an expiration date?

No

Revenue Generation

No

Expected Revenue (USD)

N/A

Partnership Description

Collaborate on weather data verification and data processing

Expected Benefits to Project Team
Expected Benefits to Counterparty

► **Korea Central Association of Fields Co-op**

Counterparty Website

Counterparty Description It is an organization of the largest farming subsidiary in Korea, which has been formally authorized by the Ministry of Agriculture and Forestry to pursue independent economic activities such as revitalizing joint agricultural management and cooperative projects of each of the fields.

Applicable Dates

Does this partnership has an expiration date? No

Revenue Generation No

Expected Revenue (USD) N/A

Partnership Description <http://www.farminsight.net/news/articleView.html?idxno=1807>

http://health.chosun.com/site/data/html_dir/2019/03/14/2019031402541.html

Expected Benefits to Project Team

Expected Benefits to Counterparty

► **Korea.com**

Counterparty Website <http://www.korea.com/>

Counterparty Description The service started in September 2000. Korea.com Communications, an operator, is doing internet business by taking advantage of the domain of 'Korea.com'.

Applicable Dates

Does this partnership has an expiration date? No

Revenue Generation No

Expected Revenue (USD) N/A

Partnership Description MOU for commercialization of the joint marketing business and supply agreement for weather data content.
Korea.com plans to provide weather information services to countries around the world through its 4 million members and portals

http://ccnews.lawissue.co.kr/view.php?ud=201810231549416420d7f4c63cc6_12

Expected Benefits to Project Team

Expected Benefits to Counterparty

3.3 Project Progress

History

Observer was founded in Estonia in 2018 as a meteorological company as Observer Foundation OÜ. It developed MWS, a small weather observation station, and has been using it for the project of installing Jeju weather meteorological network since February 2019 in cooperation with Jeju Island. Observer is currently working on a Seven Eleven nationwide meteorological observation network construction project and plans to release weather observation app and fine dust information app soon.

Project Status

Operational

Development of the platform and business operations have been or will be funded through the following sources

Initial token sale(Public and Private)

Equity funding

Direct revenue from operating proprietary network or platform (subscription fees, usage fees, and transaction fees)

Other realized income from investing, managing digital/financial assets, and forking

Plan or Strategy to expand platform or token

- Securing credibility through the B2G Project (for example, Jeju Island) and expanding the observation network through the B2B Project (for example, seven eleven) business
- Expanding the collection of meteorological big data and improving the completion of data QC solution by linking B2C business
- Introducing a full-scale rewards token from the start of the B2C business and full-fledged platform business once verification of data processing is in progress
- Expansion of platform and establishment of virtuous cycle of tokens through full-scale sales to data consumers

3.4 Milestones

Title	Target Date	Status	Description
Completed Convenience Store Meteorological Observation Network (Phase 1)	2020-12-31		Beginning with the completion of the Seoul network, the expansion of the meteorological observation network construction project to Seven Eleven stores nationwide
Released Observer Observation App	2020-03-31		Observation weather and rewards App. launch
Development of Weather Station Ver.2	2020-03-31		Air temperature, Pressure, Humidity, Precipitation, Fine dust, Ultraviolet ray, Ozone observation
Launched Observer Fine Dust App	2020-03-31		Development and release of An App with fine dust status and alarm function through weather observation network built in convenience store
Data Voucher Support Project (K data)	2019-10-18	Completed	Completion of data voucher support project for weather data processing (K data)
Contract with Korea Seven for meteorological observation network	2019-09-23	Completed	Construction Micro-scale meteorological observation network by installing thousands of weather station at Seven Eleven store in Korea
Jeju Island Meteorological Observation Network Construction Project	2019-03-01		Project of construction of fine dust and meteorological observation network system in Jeju Island (Proceeding)
Development of Weather Station Ver.1	2019-01-07	Completed	Air temperature, Pressure, Humidity, Precipitation, Fine dust, observation
Weather Business Registration	2018-11-28	Completed	Meteorological equipment contractor (Meteorological Agency)

3.5 Key progress

(1) Fine dust and meteorological observation network construction project with Seven eleven (Convenience store chain)

Date 2019-12-01
Type Business: Adoption and commercialization
Name of main counter-party
Involved companies or organizations
Category
Main Participant
List of others involved
Description of blockchain application

(2) 오픈버 메인넷 코인에서 ERC토큰으로 전환

Date 2019-12-02
Type Other

Name of main counter-party
Involved companies or organizations
Category
Main Participant
List of others involved
Description of blockchain application

3.6 Legal Concerns

No data available

PART III. Financial Information

ITEM 1. Equity Shareholders

The following sets forth company cap table of equity shareholders of the organization with more than 5% stake as of 2020-03-13
Number of Shares Outstanding:

Shareholder Name	Title or Relations with Company	Percentage of Total Outstanding Shares	Number of Shares
No data available			

ITEM 2. Equity Funding History

2.1 Equity Funding Rounds

Transaction Name	Announced Date	Number of Investors	Money Raised (In USD)	Lead Investors
No data available				

2.2 Extraordinary Relations with Company

The following sets forth companies and organizations with extra-ordinary relations with company as of 2020-03-13

Company Name	Country of Incorporation	Start Date	End Date	Relationship Details
No data available				

ITEM 3. Financial Disclosures

The following are simplified and condensed financial statements submitted by the company for disclosure last updated on 2020-03-13:

3.1 Simplified Income Statement

Year Quarter

(USD)

Revenue

Cost of Goods Sold (COGS)

Gross Profit

Operating Expenses (SG&A)

Other Revenue & Expenses

Operating Income

3.2 Simplified Balance Sheet

Year Quarter

(USD)

Fiat

Cash & Equivalent

Total Fiat & Cash

Digital Asset

(USD)

Book Value of All Assets

3.3 Key ratios

No data available

PART IV. Token Information

ITEM 1. Token Profile

Token Name	Observer
Symbol	OBSR
Token Economy	
Token Usage	Observer Token (OBSR) is a reward for weather observation participants and a means of sale for the purchase of data by weather data consumers. It is used for various means of trading such as purchase of weather observation equipment and weather forecast service.
Short Token Description	ERC20 based token for rewarding meteorological observations, trading big data
Token Contract Address	0x87def9265b40ba7f867f73d4af519cd9f074bed6
Base Platform	Ethereum
Mainnet Explorer Url	
Network	No Input
Project Type	Utility Token
Tokens were initially available and currently obtainable in the following method(s)	<ol style="list-style-type: none">1. Exchange offering2. Payouts to compensate employees, reward users, fund projects, and other direct use from reserve funds3. Mining4. Public offering5. Private offering
Additional Token issuance or minting conditions, including implemented natural inflation.	No additional token issue
Trading practices after the Token Sale by Company	<ol style="list-style-type: none">1. Company has not purchased or sold Tokens after the Token Sale
Method of allocating tokens during Token Sale	IEO

Token allocation percentage based on Total Supply immediately after Token Generation Event

Token Holder Rights

- a) Receive payments or other consideration under the following circumstances
When the weather observation data are transmitted through observer's participating channel such as weather station or observer App.
- b) Tokens give holders ownership or contractual interest or rights in the following circumstances
This will be announced in the future
- c) Token holders may vote on the following matters
At the stage of global expansion, we will give voting rights to holders for various management decisions.
- d) Other information that may be relevant to the Tokens or their sale
No Input

ITEM 2. Token Sales

2.1 Token Sales details

Initial Offering Status	No
Initial Offering Price (USD)	0.0043
Initial Offering Price (ETH)	

Initial Offering Price (BTC)

Funding achieved in relation to the target hard cap (%) 100

Percentage of individual investors at initial offering**Terms and conditions for top backers**

No Input

2.2 Initial Offering Rounds

No data available

*: Proposed calculation, but not necessarily mandatory, is based on USD equivalent of cryptocurrency received between the start and end date of the Token sale duration calculated by $((High+Low)/2)$ of market price

ITEM 3. Token Supply History

The following is a manual record Token supply history as of 2020-03-13. Corresponding transactions hashes have not been provided within this report.

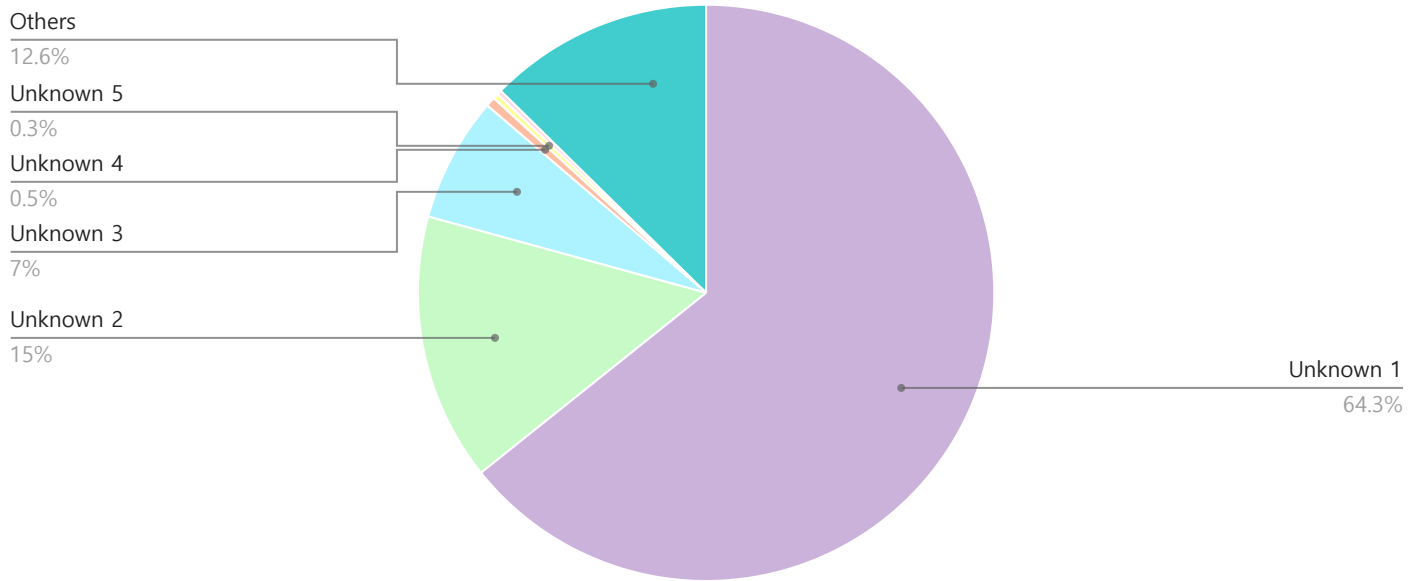
Purpose	Date	Amount	Value (USD)	Post Total Supply	Post Circulating Supply
No data available					

ITEM 4. Listed Exchanges

Exchange	Pair	Price	Volume	Percentage
No data available				

ITEM 5. Token Ownership

The following is an automatic query result of wallet addresses based on balance holdings with meta data application as of 2020-03-13.



Rank	Address	Balance	Percentage
1	0x1B27c5f1D6fFB2aA0Fe209926464a8B40c99A1d3 (Unknown 1)	9,640,000,000	64.27%
2	0x6E500581561A6aEa6290010B165b2836b7739130 (Unknown 2)	2,250,000,000	15%
3	0xDD864000A5396Ddc729d67410644F7327c7F6936 (Unknown 3)	1,050,000,000	7.00%
4	0x862F88163cD0c29D5ff4FA8d52B0dc7FF06A97a1 (Unknown 4)	80,877,766	0.54%
5	0x6f63BaAD78E8FbBEC8052CA8622E0Af62Bd875f (Unknown 5)	45,818,052	0.31%
6	0xBcCeAa2277554610583E678637c9AB83d1574f3e (Unknown 6)	38,633,136	0.26%
7	0x262a12f81d4bE9c0F1B445838163CbF56FdA4CBB (Unknown 7)	34,584,660	0.23%
8	0xdfC7eEC28D17C05a16304CBfB241E3508657c2bE (Unknown 8)	28,936,906	0.19%
9	0x805cb33F29827d40AD57e3d8Cf80c229F00058F4 (Unknown 9)	24,568,752	0.16%
10	0x547D1D6e5FDAa110606715C657afef89830d3bEF (Unknown 10)	22,993,187	0.15%
11	0xb4955903A08B90F1901390cAB218c98793d65bAb (Unknown 11)	21,164,538	0.14%
12	0x4Ca502DEa9D4639C805965019C25091ba6e62d14 (Unknown 12)	19,856,325	0.13%
13	0xBF25376e3429466C02E777cC51F602d73c1f63D3 (Unknown 13)	19,452,632	0.13%
14	0x35aFd7DBAd34F3AE53218662bFDdeeb80D44f735 (Unknown 14)	18,756,390	0.13%
15	0x02E343c5a1E58E0f1555f8E01Ab921b800F59cd5 (Unknown 15)	18,756,256	0.13%
16	0x50Cc4B4aB71fF0Ae9Ce13C6D168f40003032cdc7 (Unknown 16)	18,662,560	0.12%
17	0xC6D6e294ACa41B08f7b647676E685C823ac7E83b (Unknown 17)	18,547,256	0.12%

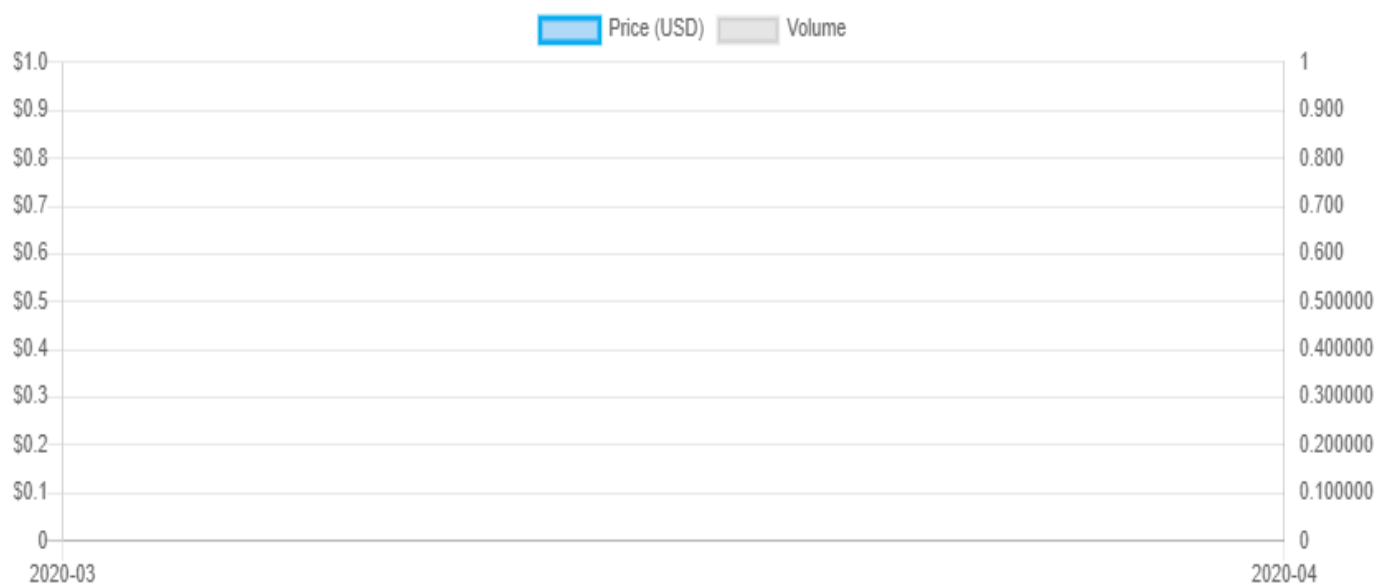
Rank	Address	Balance	Percentage
18	0x7976E80cBc27426C78331F474bFc13A4C3951e78 (Unknown 18)	18,479,230	0.12%
19	0x4B4812595DDEfC0c0cdb9796b99C3672eaCE4E0 (Unknown 19)	18,476,352	0.12%
20	0xFe33519ac8fA268b0Db17D88ad82bc267E5471B0 (Unknown 20)	17,856,380	0.12%

ITEM 6. Token Price and Market Cap

The following are market data present as of 2020-03-13.

Market Cap Rank

Price Performance



▸ USD

Current Price :

Change (7d/24h/1h) : % | % | %

Market Cap : -

Initial Offering Price : \$-

Return since Initial Offering :

▸ ETH

Current Price :

Change (7d/24h/1h) : % | % | %

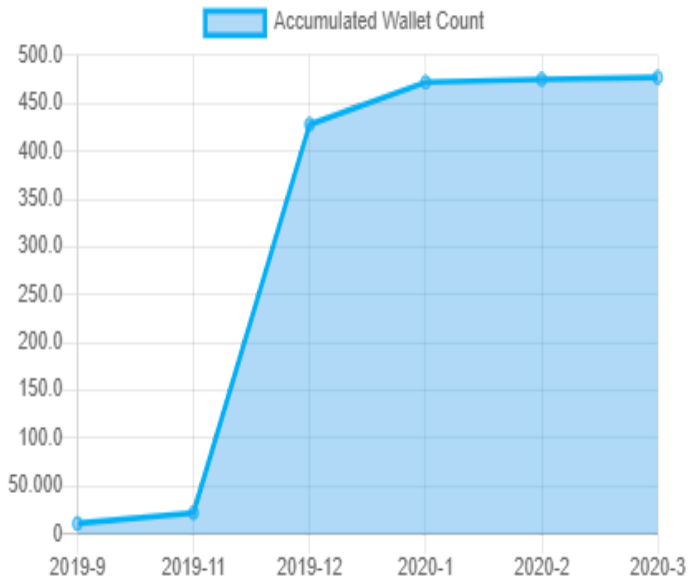
Market Cap : -

Initial Offering Price : - ETH

Return since Initial Offering :

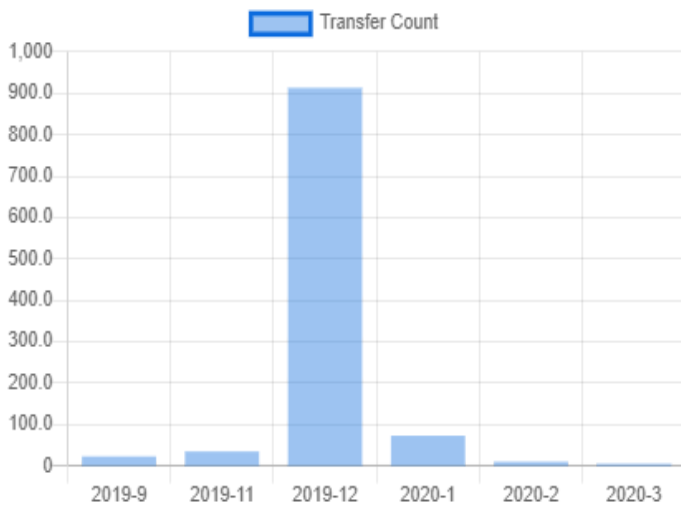
ITEM 7. On-chain Performance

Accumulated Wallet Count



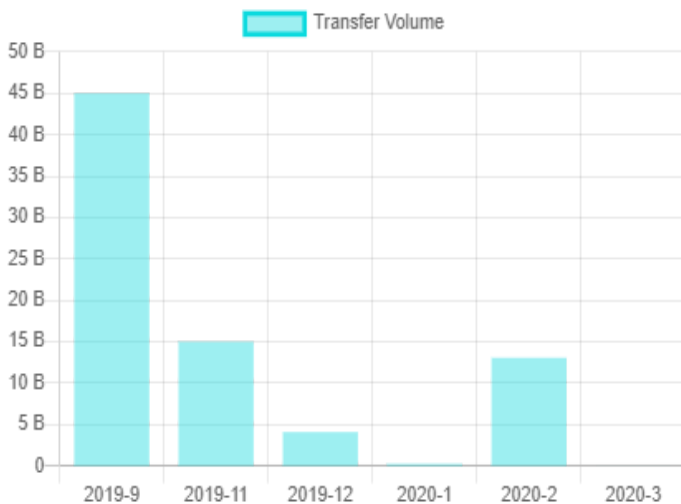
Date	Accumulated Wallet Count	New Wallet Count
2020-3	477	2
2020-2	475	3
2020-1	472	44
2019-12	428	406
2019-11	22	11
2019-9	11	11

Transfer Count



Date	Token Transfer Count
2020-3	5
2020-2	10
2020-1	73
2019-12	913
2019-11	35
2019-9	23

Transfer Volume



Date	Token Transfer Volume
2020-3	15,168,704.19
2020-2	13,061,432,278
2020-1	244,290,095.95
2019-12	4,087,583,049.603
2019-11	15,000,000,143
2019-9	45,000,000,177

PART V. Compliance

ITEM 1. Legal

Legal Memorandums and Opinions

Date	Target Jurisdiction	Sender / Written by	File
No data available			

Legal Compliance

Q: Can you ensure that your project is in compliance with all laws in the countries that you conduct business and the jurisdiction of where your company is incorporated? Please use the input field to describe your circumstances in case you cannot ensure compliance.

A: No

Q: Can you ensure that there are no elements or features that potentially involve damaging public interests in certain countries due to the activities promoted by the project? (Gambling/drugs, etc.) Please use the input field to describe your circumstances in case you cannot ensure compliance.

A: No

Q: Can you ensure that your token/coin project is not categorized as a security under any existing global capital market regulations? Please use the input field to describe your circumstances in case you cannot ensure compliance.

A: No

ITEM 2. Technical

Technical audit results and other equivalents

File	Date	Document Title	Audited by / Reported by
No data available			

Technical Compliance

Q: Can you ensure that your company has the technical capability to cooperate with exchanges? (Daemon/Wallet/Mainnet support/etc.) If your answer is yes, please use the input field to describe what necessary steps are required for the exchanges to engage in listing your project.

A: No