Huobi Research Weekly（Vol.52）

Authors

Yuming Hubery Yuan
Wenting Chi
Rui Wang

huobiresearch@huobi.com

Abstract

This week, the overall market capitalization for the top 100 cryptocurrencies increased, with 89 projects increased in value to varying degrees. According to coinmarketcap, as of March 10th, 2019, the total market cap of the top 100 cryptocurrencies was 129.40 billion U.S. dollars, increased by 3.86% from last week. 6 cryptocurrency projects entered the top 100 this week. As of March 10th, 2019, Bitcoin was traded at 3951.60 USD, 2.80% higher than its price last week. Ethereum was traded at 136.76 USD, 3.66% higher than its price last week.

The Hashrate of Bitcoin and Ethereum both decreased this week. The difficulty of mining Bitcoin and Ethereum both decreased this week. Network mining activity declined significantly. Average transaction fee of Bitcoin increased rapidly. ELF was the most active project on GitHub this week, remained at its highest level for three weeks. Bitcoin's Hashrate decreased by 3.89% and Ethereum's Hashrate decreased by 1.72%. The difficulty of mining Ethereum had a sharp drop of 29.74%. The ranking of Poolin in the Bitcoin mining pool market increasedto NO.3. The overall distribution of the Ethereum mining pools remained stable.

Average block size of Bitcoin and Ethereum decreased by 5.45% and 19.08% respectively this week; Average number of transactions per block of Bitcoin and Ethereum decreased by 13.16% and 18.82% respectively this week, with a larger decline. The 7-day average of unconfirmed transactions for Bitcoin was 5874, with sharp drop of 29.74%. The 5-day average of unconfirmed transactions for Ethereum was 18832. The average transaction fees on the Bitcoin network this week was $0.351, increased 51.95% from last week. The average transaction fees on the Ethereum network this week was $0.882, decreased 1.56% from last week.Total number of addresses on the Bitcoin and Ethereum network reached 34.07 million and 57.29 million, respectively.

ELF was the most active project on GitHub this week, with 285 commits submitted in the past week. In terms of community activity, Torn, Bitcoin and Ethereum are the most popular communities on Facebook. On Twitter, the most popular communities are Bitcoin, Ripple and Ethereum.

2 investment activities took place in the blockchain industry this week, with a total of $24 million in financing.

Table of Contents

1. Weekly Market Review

1.1 Market overview

This week, the overall market capitalization for the top 100 cryptocurrencies increased, with 89 projects increased in value to varying degrees. According to coinmarketcap, as of March 10th, 2019, the total market cap of the top 100 cryptocurrencies was 129.40 billion U.S. dollars, increased by 3.86% from last week, among which, R had the largest decreased of 19.28% in market cap, bringing its market cap ranking from No.64 to No.78, while ENJ had the largest increased of 141.38% in market cap, bringing its market cap ranking from No.67 to No.39. In addition, there were 6 projects that entered TOP100, namely, WAN(increased 45.88%, now No.85), KNC(increased 73.97%, now No.88), QBIT(increased 17.73%, now No.96), MXM(increased 67.25%, now No.97), BNT(increased 26.10%, now No.99), THR(increased 89.36%, now No.100). As of March 10th, 2019, Bitcoin was traded at 3951.60 USD, 2.80% higher than its price last week. Ethereum was traded at 136.76 USD, 3.66% higher than its price last week.

Table 1.1: Top Five Price Increases and Decreases

Symbol	Price decrease	Symbol	Price increase
R	-12.12%	ENJ	142.23%
ETN	-9.54%	AOA	106.18%
MAID	-7.54%	THR	89.21%
NPXS	-5.12%	KNC	76.74%
XVG	-4.75%	PAI	70.63%

Source: coinmarketcap

The overall 24h trading volume increased this week. Overall, the 24h trading volume increased by 34.31% compared with the same period of last week. In this week, 81 of the top 100 projects increased by more than 20% in 24h trading volume, led by THETA with a weekly increase of 1485.63%; there were 19 projects that saw over 20% decrease in their 24h trading volume, led by XVG, with a decreased of 88.33%.

Figure 1.1: The Market cap and 24-hour Trading Volume for TOP100 cryptocurrencies
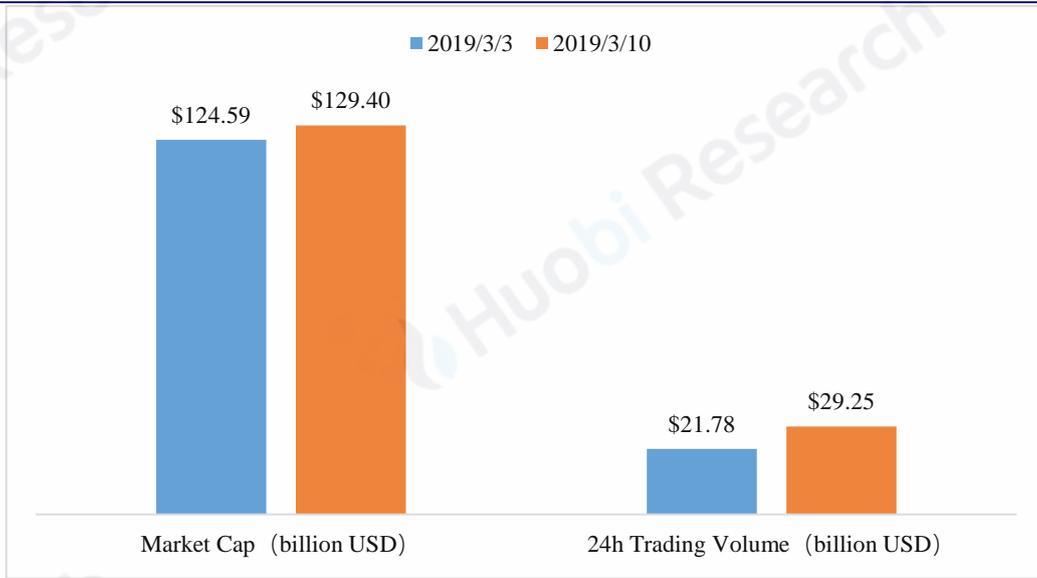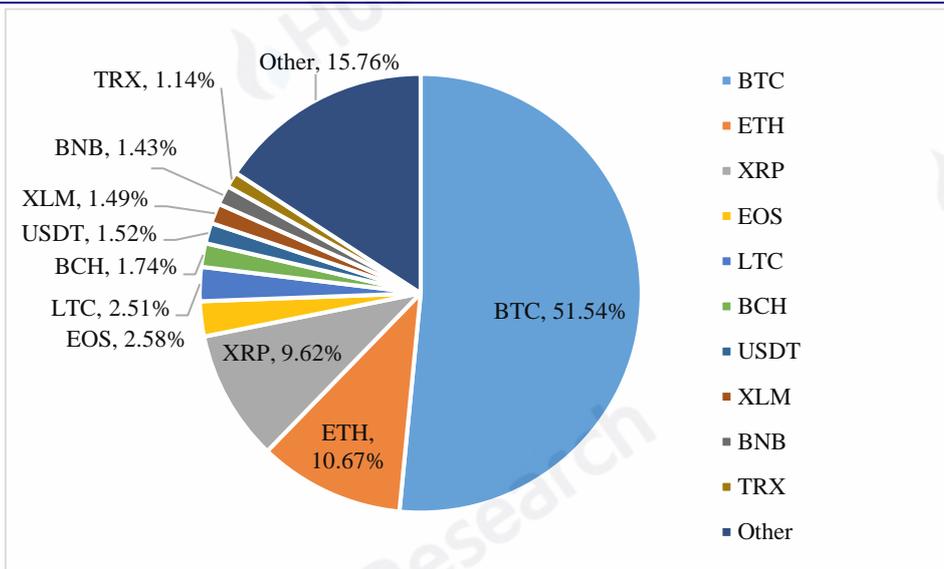

Source: coinmarketcap

**The top 10 cryptocurrencies' market share distribution remained stable.**
On March 10th, 2019, the overall market cap of the top 10 cryptocurrencies was 113.56 billion USD, up by 3.44% from last week, accounting for 84.24% of the total market capitalization of cryptocurrencies, slightly decreased from last week. BTC's dominance was 51.54%, down by 0.87% from last week.

Figure 1.2: TOP10 Cryptocurrencies' Market Share of Total Cryptocurrencies Market

Source: coinmarketcap

Figure 1.3: TOP10 Cryptocurrencies' Market Share of Total Cryptocurrencies Market Changes
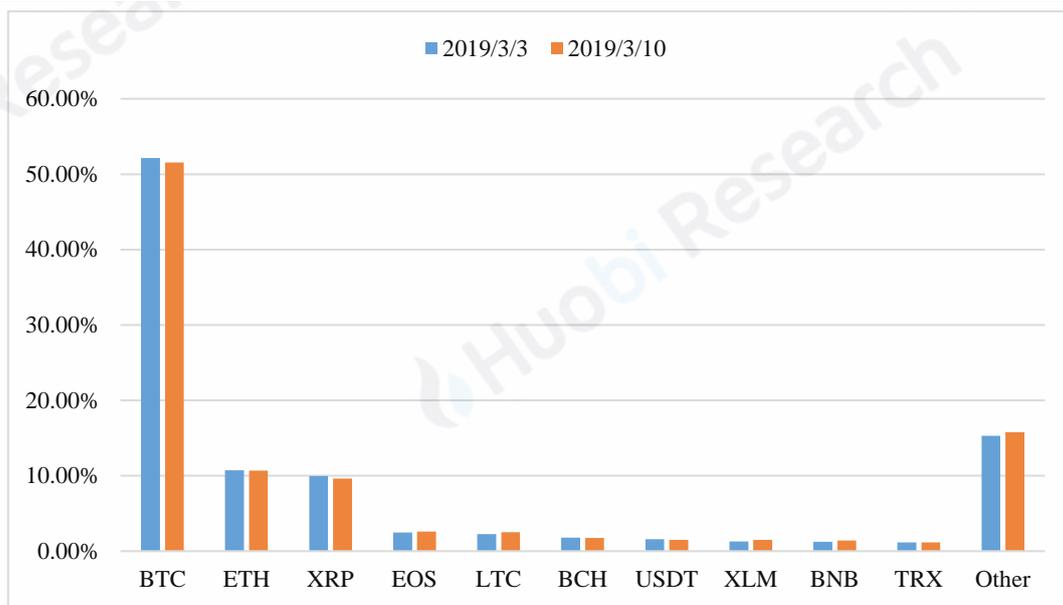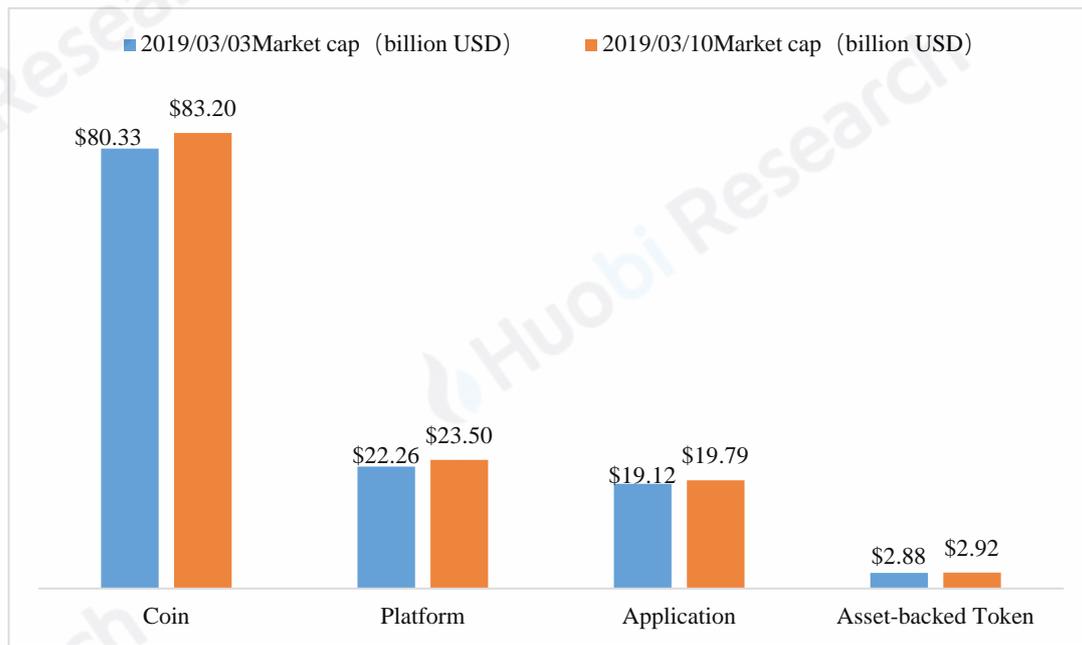

Source： coinmarketcap

1.2 Segment Analysis

Among all cryptocurrency project segments, the total market cap of platform class project received the largest increase, and the average market cap of platform class project received the largest increase. As of March 10th, 2019, the total market cap of platform class projects reached 23.50 billion USD, increased by 5.54% compared to last week, which was the biggest increase. In addition, average market cap of platform projects was 0.87 billion USD, increased by 5.54% compared to last week, the biggest increase among all project categorie this week.

Figure 1.4: TOP100 Cryptocurrencies Market Segment Capitalization

Source: coinmarketcap

Figure 1.5: TOP100 Cryptocurrencies Segment Average Market Cap
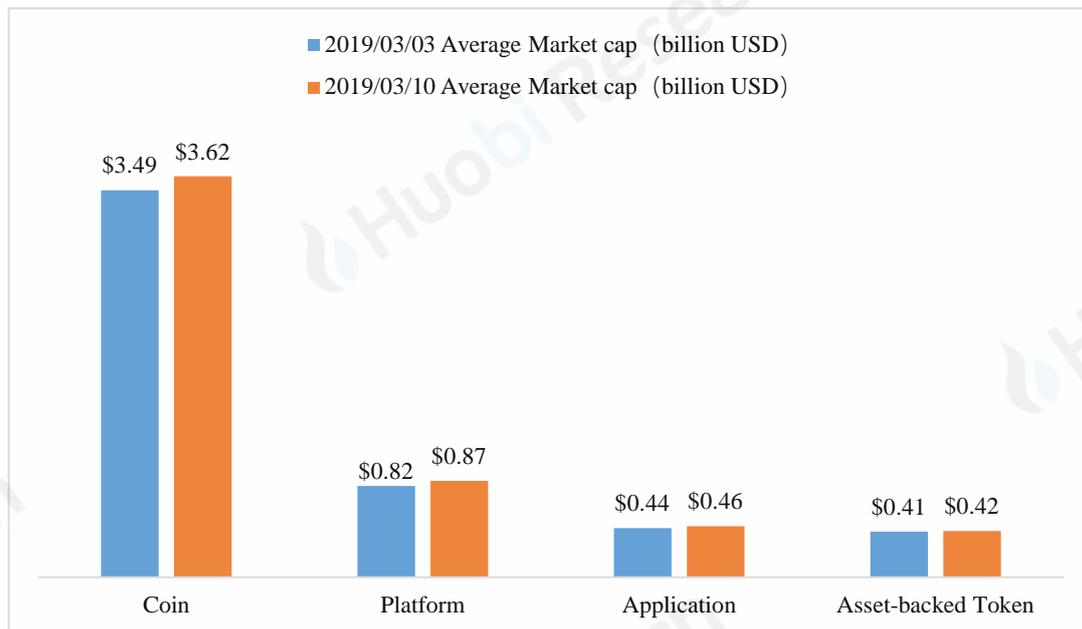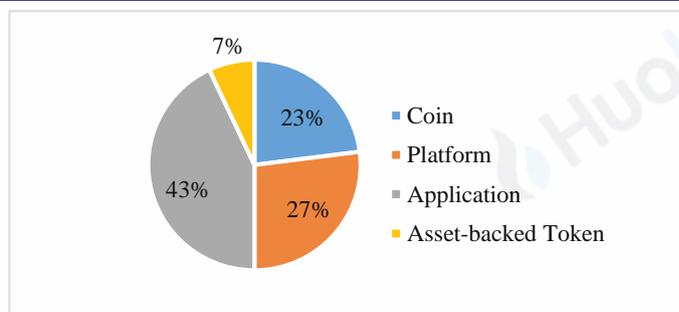

Source: coinmarketcap

The market segment distribution of the top 100 cryptocurrencies remained stable. As of March 10th, 2019, the proportion of the market segments has remained stable among the top 100 projects compared to last week. The largest overall market cap by segment was still coin projects,
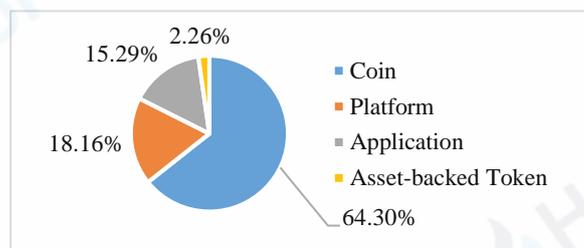
accounting for 64.30% of the total market cap of top 100 projects, slightly decreased from last week.

Figure 1.6: TOP100 Cryptocurrencies Segment Ratio

Figure 1.7: TOP100 Cryptocurrencies Segment Market Share

Source: coinmarketcap

Source: coinmarketcap

Note: According to the different attributes of cryptocurrencies, Huobi Academy of Blockchain Application will divide them into four categories: Coin, Application Class, Platform Class and Asset-backed Token.

Coin Project: Refers to a type of asset developed based on blockchain technology that does not correspond to a specific use scenario and whose main function is only the transaction target. Its asset value is mainly reflected by liquidity.

Platform Class Project: A type of asset that is associated with the development of the underlying technology of the blockchain and is supported by the right to use or participate in the platform.

Application Class Project: Refers to a type of asset that is associated with a specific application scenario and is supported by a certain right of use, participation, or dividend.

Asset-backed Project: Refers to a class of assets that is linked to actual assets such as gold and US dollars and supported by the value of physical assets.

2. Technical Statistics

2.1 Cryptocurrency Mining Statistics

Hashrate of Bitcoin and Ethereum both decreased this week. From March 4th, 2019- March 10th, 2019, the average bitcoin Hashrate for the entire network reached 42.52 EH/s, decreased by 3.89% from the previous week.

Average Hashrate for the entire Ethereum network was 149.36 TH/s this week, decreased 1.72% from last week.

Figure 2.1: Bitcoin Hashrate Changes
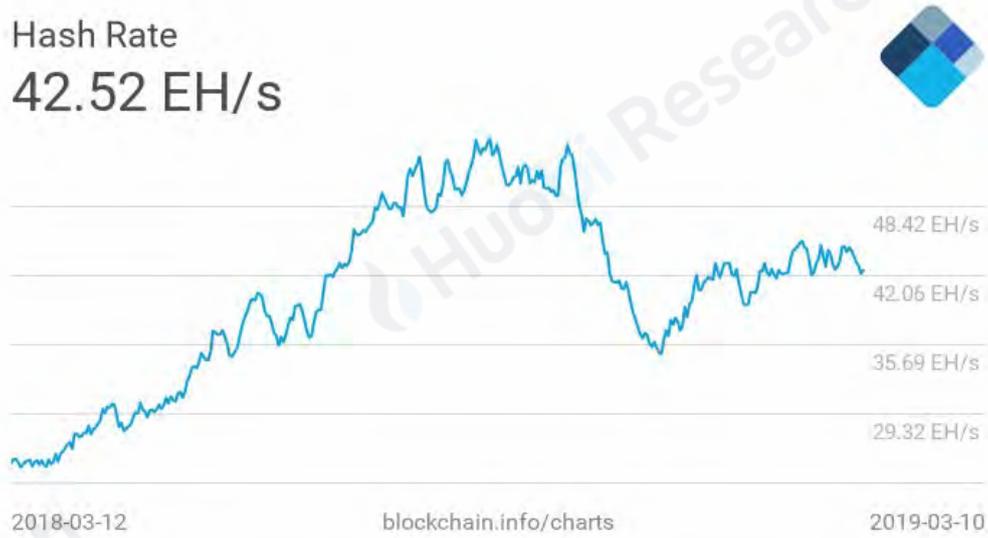
Source: blockchain.info

Figure 2.2: Ethereum Hashrate Changes

Source: etherchain

Huobi Research

This week, the difficulty of mining Bitcoin was the same as the previous week, and the difficulty of mining Ethereum decreased rapidly. As of March 10th, 2019, average diffic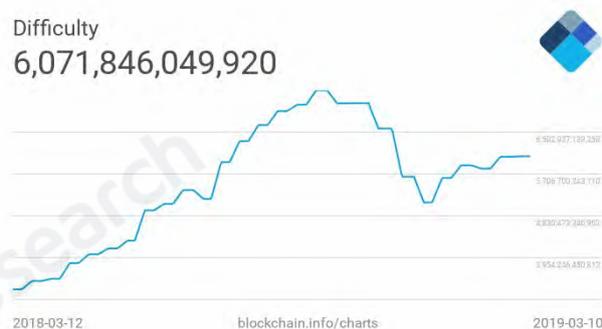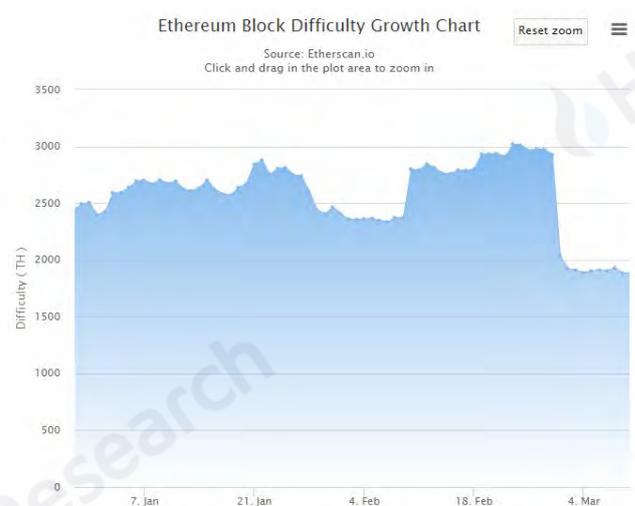ulty for mining Bitcoin this week was 6.072T, increased by 0.02% from that of previous week. The average difficulty of mining Ethereum this week was 1900TH, decreased by 24.93% from that of previous week.

Figure 2.3: The Difficulty of Mining in Bitcoin	Figure 2.4: The Difficulty of Mining in Ethereum

Source: blockchain.info

Source: etherchain

The block ranking of Poolin in Bitcoin mining pools increased to NO.3. The overall distribution of the Ethereum mining pools remained stable, the number of blocks increased 22.50%. In the past week, Bitcoin mined 974 blocks, decreased 6.17% from the previous week. Among the top five pools were BTC.com, AntPool, Poolin, F2Pool and SlushPool, these 5 pools mined 170, 124, 111, 106 and 100 blocks respectively, accounting for 17.45%, 12.73%, 11.40%, 10.88% and 10.27% of all Bitcoins mined this week. The Hashrate was 7.38EH/s, 5.38EH/s, 4.82EH/s, 4.60EH/s and 4.34EH/s respectively.

In the past week, Ethereum's entire network mined 44915 blocks, increased 22.50% from the previous week. The top five pools were Ethermine, SparkPool, Nanopool, F2pool_2 and Miningpoolhub_1, each mined 12185, 9849, 5742, 5420 and 2639 blocks respectively, accounting for 27.13%, 21.93%, 12.78%, 12.07% and 5.88% of all Ethereum mined this week, respectively.

Figure 2.5: Distribution of Bitcoin Mine Pool
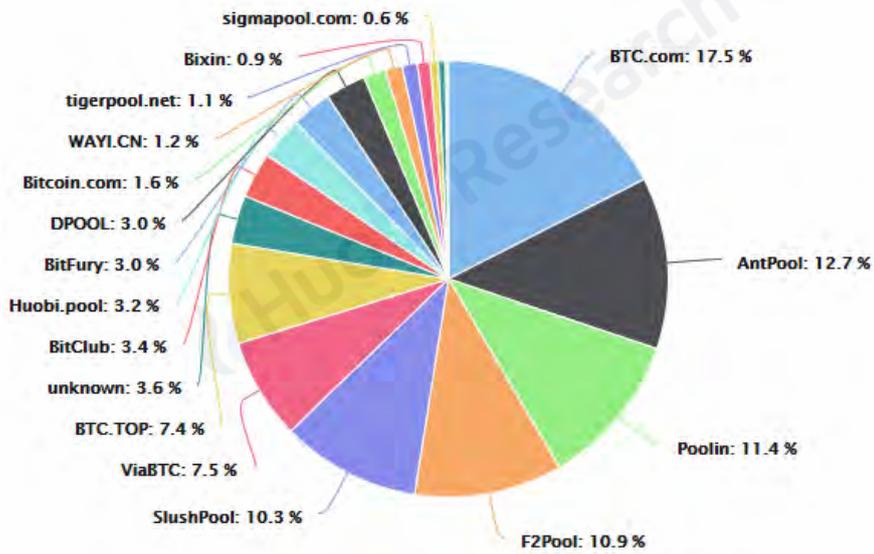
Source：BTC.com

Figure 2.6: Distribution of Ethereum Mine Pool
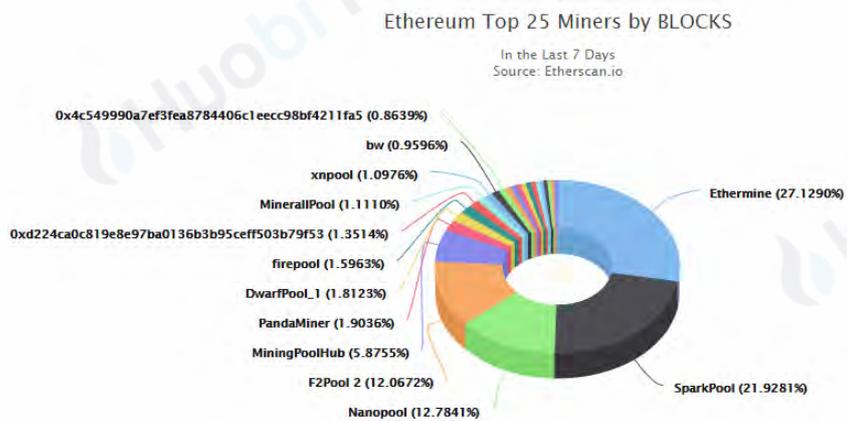
Source：etherscan.io

2.2 Activity Statistics

Bitcoin's block size and the average number of transactions per block both decreased rapidly. The average block size and average number of transactions per block of Ethereum also decreased sharply. According to blockchain.info, from March 4th, 2019-March 10th, 2019, the average size of

each block was 1.04 Mb, decreased by 5.45% from last week; there were on average 2059 transactions recorded in each block, decreased by 13.16% from the previous week.

Figure 2.7: Block Size of Bitcoin

Figure 2.8: The Average Transactions of Per Block in Bitcoin

Source：blockchain.info

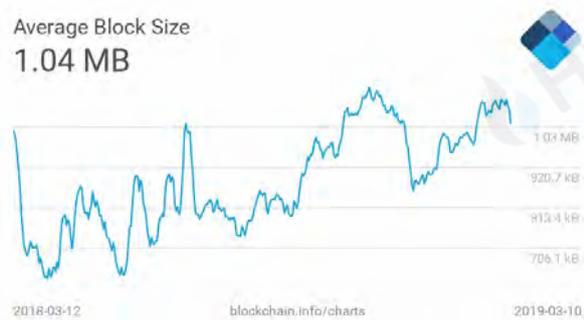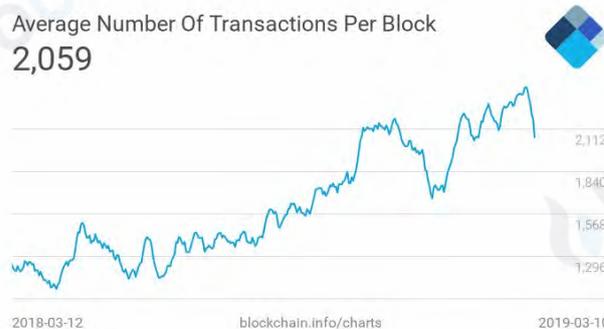

Source：blockchain.info

According to etherchain, the average number of transactions per block in Ethereum this week was 88.80, decreased by 18.82%. The average size of each block was 17825 bytes, decreased by 19.06% compared to last week.

Figure 2.9: Evolution of the average size of an Ethereum block
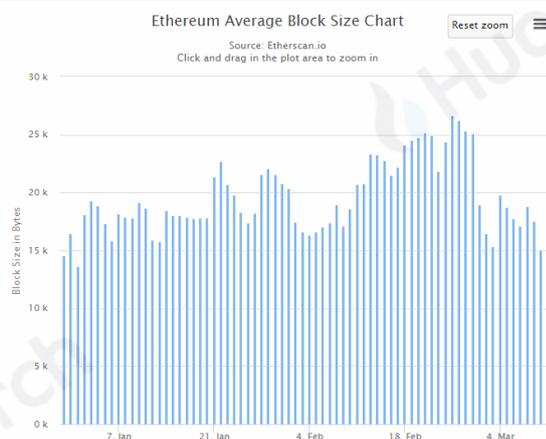
Figure 2.10: The number of transactions per day

Source: etherchain

Source: etherscan.io

Number of unconfirmed transactions in Bitcoin decreased by 29.40%, and that in Ethereum decreased from the previous week. As of March 10th, 2019, the number of 7-day average unconfirmed transactions in Bitcoin network was 5874, decreased by 29.40% from last week. There were 18832

unconfirmed transactions in the Ethereum network, with the lowest amount of unconfirmed transactions in the week being 8642 and the highest amount being 22711.

Figure 2.11: Unconfirmed Transaction in Bitcoin
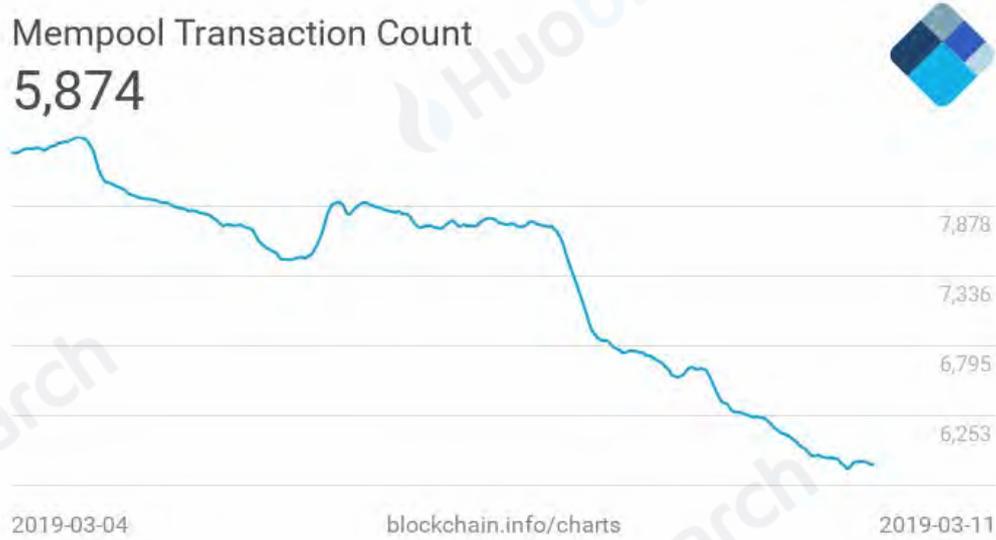
Source: blockchain.info

Figure 2.12: Unconfirmed Transaction in Ethereum

Source：etherscan.io

Total transaction fees of Bitcoin increased rapidly and that of Ethereum decreased this week. As of March 10th, 2019, average transaction fees of Bitcoin this week was $0.351, increased by 51.95% from last week. Average

transaction fees of Ethereum this week was $0.0882, decreased by 1.56%.

Figure 2.13: Bitcoin, Ethereum Average Transaction Fees

The average number of distinct miners per day in Ethereum increased this week. From March 4th, 2019-March 10th, 2019, the average number of distinct miners per day in Ethereum this week was 58, increased by 5.72% from last week's 56.86.

Figure 2.14: Number of Distinct Miners Per Day

Source：etherchain

The number of nodes of Bitcoin increased and that of Ethereum decreased this week. As of March 10th, 2019, there were 10657 Bitcoin nodes, increased by 0.63% compared to last week, of which 2648 nodes were in the U.S, 2034 nodes were in Germany, and 377 nodes were in China, each accounting for 24.8%, 19.1% and 3.5% of the total number of Bitcoin nodes, respectively.

As of March 10th, 2019, there were 8465 Ethereum nodes, decreased by 4.30% from the previous week. Specifically, there were 3468 nodes in the U.S, 1319 nodes in China, and 576 nodes in Canada, each accounting for 40.97%, 15.58%, 6.80% of total number of nodes, respectively.

Figure 2.15: Bitcoin nodes ranking

Mar 11, 00:00

United States	2648 (24.8%)
Germany	2034 (19.1%)
France	685 (6.4%)
Netherlands	532 (5.0%)
Canada	396 (3.7%)
China	377 (3.5%)
United Kingdom	369 (3.5%)
n/a	303 (2.8%)
Other	3330 (31.2%)

Source: bitnodes

Figure 2.16: Ethereum nodes ranking

Total	8465 (100%)
United States	3468 (40.97%)
China	1319 (15.58%)
Canada	576 (6.80%)
Germany	368 (4.35%)
United Kingdom	277 (3.27%)
Russian Federation	244 (2.88%)
Korea, Republic of	214 (2.53%)
Netherlands	189 (2.23%)
Ukraine	183 (2.16%)
France	140 (1.65%)

Source: Ethernodes

This week, the growth rate for new addresses of Bitcoin and Ethereum was same as the previous week. According to the data on blockchain.info, as of March 10th, 2019, the total number of Blockchain accounts reached 34070226, increased by 181195 this week.

According to the data on etherchain, as of March 10th, 2019, the total number of Ethereum addresses was 57288208 increased by 466036 this week.

Figure 2.17: Bitcoin Wallet Users	Figure 2.18: Total Address of Ethereum
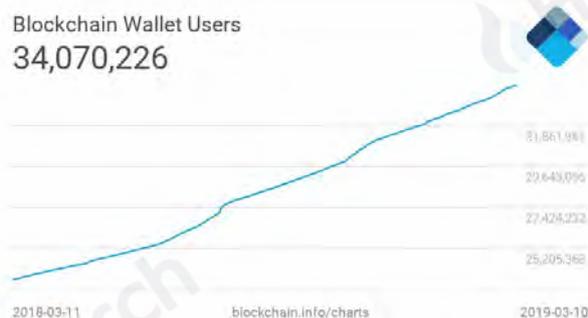
Source：Blockchain.info   Source：Etherscan

ELF was the most active project on GitHub this week, remained at its highest level for three weeks. From March 4th, 2019-March 10th, 2019, ELF was the active project repository on GitHub with a total of 285 commits.

Figure 2.19: GitHub Code Activity
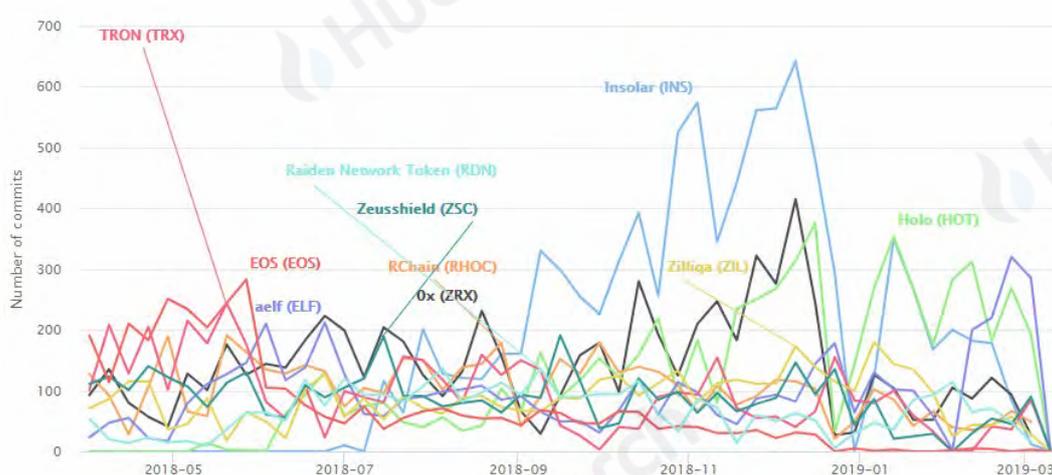
Source：cryptomiso

2.3 Community Activity Statistics

The top three most popular cryptocurrencies on Facebook were **Tron, Bitcoin**

and Ethereum in descending order, with 1000k, 436k and 153k fans respectively. The top three most popular cryptocurrencies on Twitter were **Bitcoin, Ripple and Ethereum**, with 928k, 913k, and 440k followers, respectively.

Table 2.1: Facebook Cryptocurrency Fans Ranking				**Table 2.2: Twitter Cryptocurrency Fans Ranking**		
RANK	Cryptocurrency	Fans(Ten thousands)		RANK	Cryptocurrency	Fans (Ten thousands)
1	TRON	100		1	Bitcoin	92.9
2	Bitcoin	43.6		2	Ripple	91.4
3	Ethereum	15.3		3	Ethereum	44.1
4	Ripple (XRP)	14.2		4	Litecoin	43.9
5	Litecoin	9.82		5	TRON	39.6
6	Cardano	2.5		6	Stellar	26.4
7	Stellar	2.28		7	EOS	19.3
8	BitcoinCash	2.15		8	Cardano	13.1
9	EOS	1.59		9	IOTA	11.7
10	USDT	0.02		10	USDT	3.11

Source：facebook   Source：twitter

3. Weekly Blockchain News Review

3.1 Industrial Application

1. US Seafood Giant Bumble Bee Foods to Use SAP Blockchain Tech in Supply Chain

North America's largest branded shelf-stable seafood firm Bumble Bee Foods has launched a blockchain platform for seafood traceability. The project was created in collaboration with German tech company SAP specializing in enterprise software, according to a press release on March 8. Based on SAP Cloud Platform Blockchain service, the new platform can purportedly monitor the supply chain of yellowfin tuna from Indonesia to end customers. Customers will purportedly be able to observe the entire supply chain, and access information on products' origins and shipping history by using a smart device to scan a QR code on the product package. The blockchain-stored data will include the size of the catch, the point of capture, as well as information about authenticity, freshness, safety, and trade fishing certification.

https://cointelegraph.com/news/north-american-seafood-firm-to-use-blockchain-tech-in-supply-chain

2. Singapore Launches Pilot of TradeTrust Blockchain Shipping Initiative

The Singapore government will press ahead with a pilot of its blockchain-based maritime trade platform TradeTrust through an official partnership, trade news outlet Asia Middle East Maritime Focus reported on March 7. TradeTrust, which aims to leverage blockchain to streamline complex manual processes involved in international shipping, will first focus on blockchain-powered electronic bills of lading (EB-Ls). The pilot follows a January Memorandum of Understanding signed by Singapore's Infocomm Media Development Authority (IMDA), Maritime Port Authority, Singapore Customs and the Singapore Shipping Association. As part of the TradeTrust pilot, the IMDA will also gather feedback on the initiative, as well as requesting industry advice on how to best implement it in future.

https://cointelegraph.com/news/singapore-launches-pilot-of-tradetrust-blockchain-shipping-initiative

3.2 International Policies

1. Brazilian Court Rules Santander to Return $350,000 to Crypto Exchange Mercado Bitcoin

The Court of Justice in the Brazilian state of São Paulo has dismissed the appeal made by Banco Santander against cryptocurrency exchange Mercado Bitcoin, and ruled that the bank should return funds to the company, local crypto media CriptomoedasFacil reports on March 8. Previously, the bank reportedly closed the exchange's account, claiming that its activity was incompatible with its policy and froze the funds. According to the article, the Brazilian exchange took action through the courts against the closing of its account, claiming that the freeze of its funds was unjustified.

https://cointelegraph.com/news/brazilian-court-rules-santander-to-return-350-000-to-crypto-exchange-mercado-bitcoin

2. Colorado's Digital Token Act Clarifies which Tokens are Securities, Effective August 2, 2019

The recently passed Colorado Digital Token Act is currently waiting for the governor's signature to be effective. If the governor signs the Act as soon as March 8, it will be effective on August 2, 2019. This would allow businesses to transfer digital tokens using blockchain technology. This Act focuses on different aspects related to the use of digital currencies. The distribution, consumption and production of goods will be exempt from the Colorado Securities Act (CSA). That means that individuals dealing with virtual currencies will not have to be licensed as a broker-dealer and salesperson.

https://bitcoinexchangeguide.com/colorados-digital-token-act-clarifies-which-tokens-are-securities-effective-august-2-2019/

3.US State of Connecticut Introduces Bill to Authorize Smart Contract Use in Commerce

A committee of the Connecticut state legislature has proposed to authorize the use of smart contracts in commerce in the state, according to official documentation introduced on March 7. The Commerce Committee of the Connecticut General Assembly (CGA) has introduced House Bill 7310, suggesting that blockchain-powered smart contracts may be used in commerce conducted or initiated in the United States state of Connecticut. The committee elaborated that any cryptographic signature or a record secured through distributed ledger technology (DLT) should be considered to be in an electronic form and an electronic record.

https://cointelegraph.com/news/us-state-of-connecticut-introduces-bill-to-authorize-smart-contract-use-in-commerce

4. German Financial Regulator Issues Paper on Blockchain Securities Regulation

The German Federal Ministry of Finance has published a key issues paper on the treatment and regulation of blockchain-based securities, according to a ministry announcement on March 8. In the paper initially released on March 7, the regulator discusses the introduction of regulations for electronic securities and the issuance of crypto tokens. The announcements reads that,

before proposing a draft bill on the subject, the Federal Ministry of Justice and Consumer Protection and the Federal Ministry of Finance should come up with a comprehensive picture of the measures outlined in the key issues paper. The measures purportedly aim to strengthen the role of Germany as one of the leading fintech countries..

https://cointelegraph.com/news/german-financial-regulator-issues-paper-on-blockchain-securities-regulation

3.3 Technological Breakthrough

1. New Crypto Hardware Wallet Fits Your Phone's SIM Card Slot

U.S.-based startup VaultTel has launched a tiny cryptocurrency hardware wallet that sits in the SIM tray on mobile phones. The firm announced Tuesday that the wallet solution combines an app and the VaultTel Intellichip card to store cryptocurrency private keys on mobile devices, using biometric authentication and "military grade" encryption to keep the funds safe. The biometric authentication feature ensures that only the phone's owner can transfer funds from the wallet, VaultTel explains on its website. "More than that, no spy screen recorder or Trojan can record what is happening on your hardware wallet, as it's a not using your laptop or system resources," the firm adds.

https://www.coindesk.com/new-crypto-hardware-wallet-fits-your-phones-sim-card-slot

4. Weekly Investment Activities

2 investment activities took place in the blockchain industry this week, with a total of $24 million in financing.

Table 4.1 Investment and Financing Projects for the Week

Name	Round	Amount	Investors	Category
Tagomi Holdings	VC Round	$12 million	Paradigm Fund	Cryptocurrency Brokers and Trading Platforms
LedgerPrime	VC Round	$12 million	ND	Digital Asset Investment Company

Data Source: IT Juzi

Huobi Research

About Us：

Huobi Research was founded in April 2016 and started research and explorations in various aspects in Blockchain area since March 2018. We cover various fields such as Blockchain technology research, industry analysis, application innovation and economic model explorations. We aim to establish a research platform and to offer theoretical foundations as well as judgements of trends in Blockchain to the public, ultimately promoting the development of the Blockchain industry.

Huobi Research Weekly aims to provide participators of the cryptocurrency market with the most up-to-date and comprehensive database to help them facilitate decision-making process.

Contact Us：

E-mail：	huobiresearch@huobi.com
Jianshu：	火币区块链
Twitter:	Huobi_Research
	https://twitter.com/Huobi_Research
Medium:	Huobi Research
	https://medium.com/@huobiresearch
Facebook:	Huobi Research
	https://www.facebook.com/Huobi-Research-655657764773922
Website:	http://research.huobi.com/

Disclaimer：

1. Huobi Research does not have any form of association with Blockchain projects or other third-parties mentioned in this report that could jeopardize the objectivity, independence and fairness of this report.

2. All outside information, data referenced in this report is from compliant and legitimate sources that we deem as reliable, and Huobi Research have conducted the due diligence concerning its authenticity, accuracy and completeness, but such due diligence does not provide any guarantee.

3. This report is only for reference purposes. Conclusions and viewpoints in the report do not constitute any form of investment advice on crypto assets. Huobi Research is not responsible for any losses resulting from the use of this report, unless stipulated by law. Under no circumstances should the readers give up their own investment analysis and judgements.

4. This report only reflects the opinions from Huobi Research on the day it was finalized. Future market condition changes may lead to updates of such judgements.

5. The report is copyrighted by Huobi Research, please cite the source when quote, and get approval from us when large amount of contents is referenced. Under no circumstances is reference, abridgment and modification contrary to original intention permitted.