Crypto summer is finally here!

Q2 started with a bang. During the first week of April, Bitcoin price increased by nearly 25% or roughly $1,000 to $5,100. This upward momentum continued throughout the quarter. We saw another big spike in the run-up to Consensus NYC on 13-15 May, with Bitcoin peaking at around $8,000. There was a slight correction before the price started skyrocketing past the psychological $10,000 barrier, peaking at $13,893 before ending the quarter at $10,888.

This quarter alone saw Bitcoin rise by a meteoric 165%. We welcome this crypto summer after a long 18 months of market decline. The one major observation that we noticed in this bull run is that the price increase is driven mainly by Bitcoin.

Q2 has been a very busy quarter for us as we worked hard on improving data transparency. For several months, we have observed an increasing number of exchanges reporting fake trading volume to fabricate their size and liquidity. On 13 May 2019, we introduced Trust Score, a new ratings algorithm by which we analyzed exchanges’ order books and web traffic. Using both these metrics, we are able to better gauge exchanges’ real liquidity and sort exchanges by Trust Score. We expect Q3 to be another busy quarter as we look to further improve Trust Score with more metrics.

The crypto space was dealt a curveball in this quarter when Facebook announced its foray into the blockchain space with the launch of Libra. We are very bullish about a large tech company implementing blockchain technology and exposing it to billions of users worldwide. Our team sifted through the Libra whitepaper and have distilled its main information to get you up to speed on pages 22-26. Initial Exchange Offerings (IEO) remained popular with many projects using this method to fundraise. Pages 26-31 will look deeper into IEO along with some interesting stats.

The hype and FOMO are real! Strap on and enjoy this journey; let’s see how far we can fly on this rocket ship. We hope this report brings you value and helps you stay updated on the constantly changing cryptocurrency industry.

HODL ON!
Market Dynamics
Market Dynamics

Q2 2019 Market Overview

Market Cap & Trading Volume are both on an uptrend in Q2 2019.

Beating expectations, Q2 has seen us enter crypto summer with a ~$200B increase in overall market cap. Trading volume also steadily increased throughout the quarter, doubling at the end of the quarter.

+125.1%
Total Mkt Cap increase in Q2 2019
All top-5 coins registered positive gains in Q2 2019, with BTC leading the market by surging 165% from $4,103 to $10,888. ETH, LTC and BCH also registered over 100% returns. Among top-5 coins, XRP underperformed with only 28% gains.

+165%  
+107%  
+103%  
+137%  
+28%  

Avg. Top-5 coin returns in Q2 2019
Market Dynamics
Q2 2019 Market Overview - Dominance

Bitcoin's market dominance increased significantly in Q2 2019, from 54.6% to 65.0% (+10.4%).

XRP and EOS lost nearly half its market dominance. XRP decreased from 9.8% to 5.7% (-4.1%) while EOS decreased from 3.3% to 2.0% (-1.3%).

Almost all other coins lost market dominance in Q2. By end Q2 2019, the top-5 coins comprised approximately 86% of the overall market capitalization.

*Others (8 - 30) refers to top 8 - 30 coins by Market Capitalization on CoinGecko as of 1 July 2019
## Market Dynamics

### Top-30 Rankings

#### Q1 2019 vs Q4 2018

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BTC</td>
<td>$5.60</td>
<td></td>
<td>+68.7%</td>
<td>$539M</td>
</tr>
<tr>
<td>ETH</td>
<td>$4.05</td>
<td>$2.65</td>
<td>+57.2%</td>
<td>$1.03B*</td>
</tr>
<tr>
<td>XRP</td>
<td>$1.77</td>
<td>$0.97</td>
<td>+77%</td>
<td>$1.77B</td>
</tr>
<tr>
<td>LEO</td>
<td>$3.41</td>
<td>$2.15</td>
<td>+573%</td>
<td>$1.23B</td>
</tr>
</tbody>
</table>

#### Q2 2019 vs Q1 2019

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BTC</td>
<td>$6.00</td>
<td>+1</td>
<td>$659M</td>
</tr>
<tr>
<td>ETH</td>
<td>$5.00</td>
<td>+1</td>
<td>$1.08B</td>
</tr>
<tr>
<td>XRP</td>
<td>$2.00</td>
<td>-2</td>
<td>$1.00B</td>
</tr>
<tr>
<td>LEO</td>
<td>$4.00</td>
<td>+1</td>
<td>$2.00B</td>
</tr>
<tr>
<td>QTUM</td>
<td>$5.60</td>
<td>+68.7%</td>
<td>$539M</td>
</tr>
</tbody>
</table>

#### Q2 Top-30 New Entrants

- **HT**: 30 June 2019
  - Price: $4.05 (+57.2%)
  - Market cap: $1.03B*
  - *Note: Due to supply increase for HT*

- **LEO**: 30 June 2019
  - Price: $1.77 (+77%)
  - Market cap: $1.77B

- **QTUM**: 30 June 2019
  - Price: $5.60 (+68.7%)
  - Market cap: $539M

- **LINK**: 30 June 2019
  - Price: $3.41 (+573%)
  - Market cap: $1.23B

After closing its $1 billion private sale with investors, LEO token has seen positive returns despite controversies surrounding Bitfinex & Tether.

Following partnerships with mainstream technology companies, most notably Google Cloud & Oracle, Chainlink’s token has risen steadily to become a top-30 project.
Q2 has been extremely exciting for Bitcoin.

Breaking all expectations, it has once again fuelled excitement with its meteoric rise from $4,103 to $10,888 in the span of 3 months (Q2).

The overall sentiment has also been positive with many bullish mentions of Bitcoin on social media.

+165% BTC price increase in Q2 2019

01 Apr 2019
Price: $4,103
Vol: $9.73 bil

30 Jun 2019
Price: $10,888 (+165.4%)
Vol: $34.92 bil (+259.0%)

18 Jun Facebook Libra Announced

10 Jun
Facebook Libra
Announced

Long Bitcoin,
Short the Bankers!

Pomp
@APompliano
- Jun 25
Bitcoin’s market cap just broke $200 billion

Pomp
@APompliano
- Jun 22
BITCOIN JUST BROKE $11,000

Pomp
@APompliano
- Jun 22
BITCOIN JUST BROKE $10,000

Pomp
@APompliano
- Jun 16
Bitcoin just broke $9,000
On Google Trends, the term “Bitcoin” has surpassed “Stocks” in terms of popularity in the Finance category with a relatively large margin for the first time in about 2 years.

The last time such a trend was observed was during Bitcoin’s run up to ~$20k, raising hopes for a resurgence of mainstream interest in Bitcoin.
Crypto Exchanges
Overview of Crypto Exchanges

### 347 Exchanges on CoinGecko by 30 June 2019

CoinGecko saw the number of new exchanges coming into the market skyrocketing from January 2018.

### 302 Exchanges integrated in last 18 months

From 2014 until 2017, CoinGecko tracked only 45 exchanges. We have integrated over 300 exchanges in the last 18 months.
Crypto Exchanges

Cryptocurrency Exchange Hacks & Closures

Exchange Hacks in H1 2019
Value: $83 million

- **May 2019**
  - $40M Hacked
  - #6 all time largest exchange hack
- **Jan 2019**
  - $16M Hacked
- **Mar 2019**
  - $13M Hacked
- **June 2019**
  - $4M Hacked
  - $10M Hacked

Total Recorded Exchange Hacks to Date: $1.35 billion

Exchange Closures in H1 2019

- **Mar 2019**
  - Coindelta
- **May 2019**
  - COINOMEX
  - KÖINEX
- **June 2019**
  - 3 India-based exchanges were forced to shutdown by Reserve Bank of India (RBI)

Exchange Liquidations

- **Jan 2019**
  - GATEHUB
- **Mar 2019**
  - bittrue

Exit Scams

- **April 2019**
  - Liqui
- **May 2019**
  - gatecoin
- **June 2019**
  - BITSANE
  - coinroom

Polish exchange

Dublin-based exchange
What happened?

**7070 BTC**
(valued at $40M)

stolen on 7th May 2019

2% of Binance’s BTC holdings

How did it happen?

Hackers gradually collected a large number of users’ API keys, 2FA codes, and potentially other info, using techniques including phishing, viruses and other attacks.

The hackers executed well-orchestrated actions across multiple accounts, and structured the transaction in ways that bypassed existing security checks.

How did Binance Deal with it?

1. Binance immediately suspended all deposits and withdrawals for one week.

2. CZ (Binance CEO) received support from various parties who were willing to donate to cover the losses, but he rejected them as funds lost will be covered using the Secure Asset Fund for Users (SAFU).

3. A solution to retrieve hacked funds through Bitcoin chain re-org was proposed but was rejected after considering the pros and cons.

   After speaking with various parties, including @JeremyRubin, @prestwich, @bcmakes, @hasufl, @JihanWu and others, we decided NOT to pursue the re-org approach. Considerations being:

   This raised questions within the community on the credibility of Bitcoin’s immutability if a few individuals have the ability to call for a re-org.

4. Finally, CZ held an AMA session to address questions of the public and also updates on future plans of Binance.
**Stats on Binance DEX (Q2 2019)**

- **Launch Month:** Apr 2019
- **Average 24h Trading Volume:** ~$5.2M
- **Number of Tokens:** 34
- **Number of Trading Pairs:** 47

**What is Binance DEX?**

Binance DEX is the decentralized exchange developed on top of the Binance Chain. The difference with Binance.com is that no one has custody of your funds on Binance DEX.

The popular saying goes - Not your keys, not your funds.

**Binance DEX Technical Specs**

- Accepted token types: BEP-2
- Trading fees: 0.04% using BNB, 0.1% using non-BNB
- Order matching: discrete matching engine
- Order types: limit orders only
- Supported wallets: Trust Wallet, CoolWallet S, Ledger, Keystore File

**What is Binance Chain?**

Binance Chain is the blockchain built by Binance to trade blockchain assets focusing on performance, ease-of-use, and liquidity.

Issuing new tokens on Binance Chain does not mean automatic listing on Binance DEX. Tokens will still need to go through the Binance DEX listing process.
Crypto Exchanges

Countries Blocked by Binance DEX

Binance started blocking users from the **USA and 28 other countries** from accessing the Binance DEX web interface at [www.binance.org](http://www.binance.org) on 1 July 2019. Binance CEO Changpeng Zhao **tweeted** on June 2 explaining that only the website is blocking users and not the blockchain / decentralized exchange.

---

**rallyqt** @rallyqt · Jun 3, 2019
Replying to @cz_binance @Binance_DEX
So Binance DEX is blocking some users from using it, but if you use a @TrustWalletApp it'll work?

**CZ Binance** @cz_binance

The messages being passed is wrong. [binance.org](http://binance.org) (the website) blocks certain countries; DEX (the blockchain) does not, it can't.

And there are plenty of wallets support trading on DEX directly.

Website ≠ Blockchain. 😂😂😂

❤️ 468  2:35 PM - Jun 3, 2019
Crypto Exchanges

Binance DEX Early Adopters

- **StableUSD**: First USD stablecoin on Binance Chain developed by Stably
- **Tomochain**: Highly secure, low latency, and near-zero fee transactional system
- **Cryptocurrency lending platform**
- **FANTOM**: Directed Acyclic Graph based smart contract platform
- **Harmony**: High-throughput, low-latency, and low-fee consensus platform
- **Decentralized Social Media**
Trust Score Explained
The rolling out of Trust Score on CoinGecko has seen significant changes in the ranks of many exchanges tracked as trading volumes are normalized according to SimilarWeb traffic stats.

Sorted by top-5 exchanges, trading volume was reduced by 80%, going from $23.4 billion (reported) to $4.8 billion (normalized).

---

**What is Trust Score?**

**Trust Score** is CoinGecko's initiative to tackle questionable reported volumes from exchanges. [Full details here.](#)

In its current implementation, Trust Score comprises of two parts:

1. **Normalized Volume** - Exchange volumes are normalized according to their Web Traffic stats from SimilarWeb.
2. **Trading Tickers** - We take into account order book spread, depth and more to determine their liquidity.

**Why Trust Score?**

(a) Traditionally, exchanges are incentivized to manipulate reported trading volume to gain higher rankings/visibility.

(b) Traders do not know which exchange has the best liquidity

(c) Traders unknowingly trade on exchanges with poor actual liquidity, occasionally paying exorbitant fees to withdraw.

(d) We want to fight fake volume.

---

**Top-5 Exchanges by:**

- **Reported Trading Volumes**
- **Normalized Trading Volumes**

<table>
<thead>
<tr>
<th>Exchange</th>
<th>24h Volume -</th>
<th>Exchange</th>
<th>24h Volume (Normalized)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BitMax</td>
<td>$11,686,699,263</td>
<td>Binance</td>
<td>$2,654,040,256</td>
</tr>
<tr>
<td>Lbank</td>
<td>$3,256,501,208</td>
<td>Coinbase Pro</td>
<td>$759,146,531</td>
</tr>
<tr>
<td>Bibox</td>
<td>$3,042,450,609</td>
<td>Bitfinex</td>
<td>$590,643,811</td>
</tr>
<tr>
<td>OKEx</td>
<td>$2,735,477,744</td>
<td>Kraken</td>
<td>$432,303,232</td>
</tr>
<tr>
<td>Diginex</td>
<td>$2,688,737,322</td>
<td>Bitstamp</td>
<td>$323,697,740</td>
</tr>
</tbody>
</table>

The rolling out of Trust Score on CoinGecko has seen significant changes in the ranks of many exchanges tracked as trading volumes are normalized according to SimilarWeb traffic stats.
Trust Score Explained

(2) Trading Tickers Liquidity

Before sorting by Trust Score
Pairs with highest 24 Hour Volume are on top despite high spread and low depth.

<table>
<thead>
<tr>
<th>#</th>
<th>Exchange</th>
<th>Pair</th>
<th>Price</th>
<th>Spread</th>
<th>+2% Depth</th>
<th>-2% Depth</th>
<th>24h Volume</th>
<th>Volume %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Binance</td>
<td>ETH/USDT</td>
<td>$170.82</td>
<td>0.23%</td>
<td>$109,314</td>
<td>$118,622</td>
<td>$356,897,248</td>
<td>6.32%</td>
</tr>
<tr>
<td>2</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.82</td>
<td>0.19%</td>
<td>$939</td>
<td>$7967</td>
<td>$274,911,550</td>
<td>4.10%</td>
</tr>
<tr>
<td>3</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.82</td>
<td>21.18%</td>
<td>$23,824</td>
<td>$1,020</td>
<td>$219,482,987</td>
<td>3.27%</td>
</tr>
<tr>
<td>4</td>
<td>Bybit</td>
<td>ETH/USDT</td>
<td>$170.63</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>$206,843,503</td>
<td>3.09%</td>
</tr>
<tr>
<td>5</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.50</td>
<td>0.02%</td>
<td>$543,706</td>
<td>$538,915</td>
<td>$194,561,655</td>
<td>2.09%</td>
</tr>
<tr>
<td>6</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.50</td>
<td>6.99%</td>
<td>$13</td>
<td>$274</td>
<td>$176,639,845</td>
<td>2.82%</td>
</tr>
<tr>
<td>7</td>
<td>Bybit</td>
<td>ETH/USDT</td>
<td>$170.78</td>
<td>0.39%</td>
<td>-</td>
<td>-</td>
<td>$170,781,051</td>
<td>2.56%</td>
</tr>
<tr>
<td>8</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.69</td>
<td>0.1%</td>
<td>$203,752</td>
<td>$166,232</td>
<td>$144,059,929</td>
<td>2.15%</td>
</tr>
<tr>
<td>9</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.58</td>
<td>0.0%</td>
<td>$1,206</td>
<td>$3,293</td>
<td>$142,642,197</td>
<td>2.07%</td>
</tr>
</tbody>
</table>

After sorting by Trust Score
Accounting for Spread & Depth as well, rather than just reported volume.

<table>
<thead>
<tr>
<th>#</th>
<th>Exchange</th>
<th>Pair</th>
<th>Price</th>
<th>Spread</th>
<th>+2% Depth</th>
<th>-2% Depth</th>
<th>24h Volume</th>
<th>Trust Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Huobi US (HBUS)</td>
<td>ETH/USDT</td>
<td>$170.85</td>
<td>0.01%</td>
<td>$1,227,244</td>
<td>$1,026,430</td>
<td>$86,004</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.85</td>
<td>0.01%</td>
<td>$863,052</td>
<td>$1,203,419</td>
<td>$2,863,071</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>Huobi</td>
<td>ETH/JPY</td>
<td>$176.27</td>
<td>0.01%</td>
<td>$1,018,112</td>
<td>$986,079</td>
<td>$134,446</td>
<td>Good</td>
</tr>
<tr>
<td>4</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.71</td>
<td>0.01%</td>
<td>$769,648</td>
<td>$1,190,746</td>
<td>$65,588,668</td>
<td>Good</td>
</tr>
<tr>
<td>5</td>
<td>Huobi</td>
<td>ETH/USDT</td>
<td>$170.94</td>
<td>0.04%</td>
<td>$660,396</td>
<td>$784,527</td>
<td>$2,644,451</td>
<td>Good</td>
</tr>
<tr>
<td>6</td>
<td>Huobi</td>
<td>ETH/BTC</td>
<td>$170.94</td>
<td>0.0%</td>
<td>$606,340</td>
<td>$799,364</td>
<td>$23,378,457</td>
<td>Good</td>
</tr>
<tr>
<td>7</td>
<td>Binance</td>
<td>ETH/USDT</td>
<td>$170.86</td>
<td>0.03%</td>
<td>$637,163</td>
<td>$707,767</td>
<td>$46,245,187</td>
<td>Good</td>
</tr>
<tr>
<td>8</td>
<td>Huobi</td>
<td>ETH/XBT</td>
<td>$170.58</td>
<td>0.14%</td>
<td>$6,340,899</td>
<td>$551,542</td>
<td>$1,644,519</td>
<td>Good</td>
</tr>
</tbody>
</table>

Trading Ticker Liquidity Visualized

Order book Depth & Spread
Good volume, spread & depth. Likely tradeable at listed price.

Normalized Volume
Fair volume, spread or depth. May be tradeable at listed price.

Trade Frequency
Questionable volume, spread or depth. Likely unable to trade at listed price. Proceed with caution.

How does this help?
More data = More transparency = Ability to make better informed decisions = Less likely to lose funds to questionable exchanges
Facebook Libra
On 18 June 2019, Facebook published the website & whitepaper for a new payment system called Libra. According to Facebook, Libra is:

“A simple global currency & financial infrastructure that empowers billions of people”

Facebook does not own 100% of Libra. Libra is a cryptocurrency on the Libra Blockchain, which is overseen by the Libra Association, a non-profit based in Switzerland.

The association members consists of corporates from various industries worldwide.

Who manages Libra?

Three notable groups are currently non-existent in the association members:
1) Other Big Tech Companies (Google, Amazon, Apple, Microsoft)
2) Banks and Financial Institutions
3) Government Bodies
The Libra Ecosystem

Major Takeaways from the Libra Whitepaper

**Why is it called Libra?**

“Libra” was inspired by the origins of money in ancient Rome, where it was used as a unit of weight for coin minting purposes.

Libra etymologically stems from the Ancient Latin word for "Scale" or "Balance".

**Libra Blockchain**

*Where the Libra token is on*

- Runs on Libra BFT Consensus Algorithm
- Initially permissioned, will transition to permissionless over time
- Built on custom Move programming language
- Operated by Validator Nodes, which is maintained by the Members of the Libra Association

**Libra Association**

*Those voting on Libra’s direction*

- Non-profit made up of Founding Members
- Participation costs $10M USD in assets, which is added to the Libra Reserve
- Every $10M USD investment = 1 vote, capped at 1% total voting power.
- Facebook will maintain key leadership role through 2019

**Libra Reserve**

*The assets backing Libra*

- Made up of low volatility assets
- Initial Funding from Founding Members
- Members will be incentivized via Libra Investment Tokens
- Future growth of Libra Reserve will also come from direct minting by authorized resellers
- Reserve is geographically distributed to a network of custodians

**Libra Currency**

*The token*

- Stablecoin backed by Libra Reserve
- Interface via wallets such as Facebook’s Calibra
- Transactions will be pseudo-anonymous, Facebook promises data will not be used without consent
- Account will not be tied to identity, though creation will still require photo identification
- Holding Libra does not bear interests

**Libra Investment Token**

*Interest-generating security token*

- Grants holders a right to interests accumulated in the Libra Reserve
- Only available to accredited investors and Libra Association members
- Dividends based on Libra Reserve interest earnings and Libra Association votes
- Ownership of Investment Token will also grant member with voting rights

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Regulatory Backlash

Mostly Negative Responses from Governments

“If [Libra] is widely used for payments, would it be able to have a large influence on monetary policy, financial stability and the international monetary system? “

Wang Xin, Director of the People’s Republic Bank of China

“It’s out of the question to allow them to develop in a regulatory void for their financial service activities, because it’s just too dangerous.”

Benoit Coeure, Executive Board of ECB

“Libra must not become a sovereign currency”

Bruno Le Maire, Minister of the Economy and Finance

“The ruble is our national currency and all operations should be conducted using it.”

Alexei Moiseyev, Deputy Finance Minister

“Facebook must not be allowed to operate in a regulatory nirvana when introducing virtual currencies.”

Markus Ferber, EU Delegate

“…[Libra] will have to be subject to the highest standards of regulation,”

Mark Carney, Governor to the Bank of England

“It would be a private cryptocurrency and that’s not something we have been comfortable with.”

Subhash Garg, Economic Affairs and Finance Secretary

“[Libra] would be piggybacking for free on a financial system that takes heavy costs [to meet compliance]”

Official of Bank Of Japan

Letter by the U.S House of Representative calling for a moratorium on the development of Libra.
Initial Exchange Offering (IEO)
Initial Exchange Offerings (IEO)

Market Overview (H1 2019)

- **First IEO in 2019**: Bittorrent on Binance Launchpad. Raised $7.2 million in 14 minutes.
- **Total IEOs in H1 2019**: 72 projects
- **Total Amount Raised**: $262 million
- **Average Amount Raised**: $3.7 million

Binance started the IEO frenzy with Bittorrent in Jan 2019. Shortly thereafter, many other exchanges began launching their own IEO platforms as well.
Initial Exchange Offerings (IEO)

Top IEO Projects by Amount Raised (H1 2019)

IEO projects seem to have a ceiling of $20 million in amount raised.

Only 5 projects raised more than $10 million via IEO. They represent 31% of amount raised in H1 2019.
Initial Exchange Offerings (IEO)

Exchange IEO Platforms Performance

Number of IEO Platforms
28 Exchange Launchpads

Launchpads with most IEOs
Gate.io and Bitforex each held 8 IEOs

Top IEO Platforms
Gate.io, Binance, OKEx, and Huobi raised over $20 million respectively

50% of the IEO funds flowed into the top 5 exchanges
### Initial Exchange Offering (IEO)

#### IEO Return on Investment (ROI) - by exchanges

<table>
<thead>
<tr>
<th>Exchanges</th>
<th>ROI (As of 30 June 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZBG</td>
<td>820.23%</td>
</tr>
<tr>
<td>ZB</td>
<td>553.15%</td>
</tr>
<tr>
<td>Binance</td>
<td>513.68%</td>
</tr>
<tr>
<td>Gate</td>
<td>505.35%</td>
</tr>
<tr>
<td>Hotbit</td>
<td>320.05%</td>
</tr>
<tr>
<td>Okex</td>
<td>99.78%</td>
</tr>
<tr>
<td>Ethfinex</td>
<td>91.84%</td>
</tr>
<tr>
<td>Huobi</td>
<td>91.10%</td>
</tr>
<tr>
<td>Bitmax</td>
<td>90.12%</td>
</tr>
<tr>
<td>Bittrex</td>
<td>87.21%</td>
</tr>
<tr>
<td>Probit</td>
<td>63.64%</td>
</tr>
<tr>
<td>Binance Dex</td>
<td>63.63%</td>
</tr>
<tr>
<td>Kucoin</td>
<td>63.36%</td>
</tr>
<tr>
<td>Bibox</td>
<td>42.54%</td>
</tr>
<tr>
<td>DigiFinex</td>
<td>21.10%</td>
</tr>
<tr>
<td>Bitdaq</td>
<td>9.82%</td>
</tr>
<tr>
<td>TRXMarket</td>
<td>-13.69%</td>
</tr>
<tr>
<td>BXMarket</td>
<td>-21.39%</td>
</tr>
<tr>
<td>BitMart</td>
<td>-31.55%</td>
</tr>
<tr>
<td>Lbank</td>
<td>-36.02%</td>
</tr>
<tr>
<td>Bitforex</td>
<td>-17.00%</td>
</tr>
<tr>
<td>CoinBene</td>
<td>-43.40%</td>
</tr>
<tr>
<td>Coindeal</td>
<td>-43.55%</td>
</tr>
<tr>
<td>Coinsuper</td>
<td>-44.65%</td>
</tr>
<tr>
<td>P2PB2B</td>
<td>-75.43%</td>
</tr>
<tr>
<td>Bgogo</td>
<td>-83.48%</td>
</tr>
<tr>
<td>ABCC</td>
<td>-97.33%</td>
</tr>
</tbody>
</table>

- **ZBG and ZB have very high ROI**, but both exchanges only have 1 actively traded IEO project.

- **Bitforex did 8 IEOs in H1 2019.** It is the highest among all exchanges. However, the average IEO returns are -37%.

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**Overall Top Exchanges for IEO**

- **Binance and Gate.io are the top exchanges for IEO with 5 and 8 IEOs respectively.**

- On average, both have about 500% IEO returns in H1 2019.
Initial Exchange Offerings (IEO)

IEO Return on Investment (ROI) - by Projects

Top 5 Price Gainers in Q2 2019
- Lambda: $0.19 (1,874%) vs. IEO price
- Lichang: $0.067 (1,249%) vs. IEO price
- BitTorrent: $0.012 (1,138%) vs. IEO price
- Global Trading System: $0.0014 (820%) vs. IEO price

Top 5 Price Losers in Q2 2019
- Facepower: $0.00009 (-92%) vs. IEO price
- Magnachain: $0.00008 (-89%) vs. IEO price

Out of 72 IEOs in H1
- Positive Returns: 36
- Negative Returns: 36

What if you bought all IEOs?
While only 50% of IEOs are profitable, you would still see a gain of 44% if you managed to buy all IEOs. (Turning $100 into $144)
Lightning Network
The amount of Bitcoin locked into the Lightning Network nearly doubled since 2019. It only decreased during Bitcoin's run up to $12k in June 2019, as users withdraw their Bitcoin to trade.

While the # of nodes has nearly doubled since the beginning of the 2019, Q2 has seen a slowdown in the rate at which nodes are increasing.
Lightning Loop allows users to keep their channels open indefinitely. They can now top up/remove funds from their channels WITHOUT reopening channels and bypass the dreaded 60-minute confirmation of Bitcoin on channel operations.

**Lightning Network 2019 Releases**

**March / June**
Lightning Loop

**April / June**
Lightning Loop

**July**
Lightning Network Daemon (v0.7)

**LND New Features:**
- **Watchtowers:** Punishes bad actors
- **Payment Tracking:** New set of RPCs for developers
- **CPFP:** Save on fees if you want to!
- **Routing:** Faster & more reliable payment routing on Lightning Network

**Lightning App** on your own PC AND phone, anyone?

Worried about storage? Don’t be! App runs on the Neutrino light client and only a small amount of block header data needs to be verified before you can get started.

Full details here!
Decentralized Apps (dApps)

In collaboration with dapp.com
Decentralized Apps
Q2 Summary - Overall

2,606/1,460 (Total/Active) dApps by Q2 2019

1,460 Active dApps - 664 Ethereum, 354 EOS, 71 Steem, 338 TRON, 14 TOMOCHAIN, 19 IOST.

<table>
<thead>
<tr>
<th>Category</th>
<th>All</th>
<th>ETH</th>
<th>EOS</th>
<th>STEEM</th>
<th>TRON</th>
<th>TomoChain</th>
<th>IOST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total # of dApps</td>
<td>2,606</td>
<td>1,633</td>
<td>435</td>
<td>88</td>
<td>412</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Active # of dApps</td>
<td>1,460</td>
<td>664</td>
<td>354</td>
<td>71</td>
<td>338</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td># of Active dApp Users</td>
<td>1.16M</td>
<td>365k</td>
<td>277k</td>
<td>56k</td>
<td>445k</td>
<td>2.9k</td>
<td>14.3k</td>
</tr>
<tr>
<td># of Transactions</td>
<td>324.6M</td>
<td>6.04M</td>
<td>189.8M</td>
<td>17.5M</td>
<td>89.6M</td>
<td>1.12M</td>
<td>20.6M</td>
</tr>
<tr>
<td>Transaction Vol. ($)</td>
<td>$3.28B</td>
<td>$622M</td>
<td>$1.43B</td>
<td>$12.8M</td>
<td>$1.13B</td>
<td>$17.6M</td>
<td>$64.5M</td>
</tr>
</tbody>
</table>
Decentralized Apps
Q2 dApp Activity Summary - by Category

1,460 Active dApps - 664 Ethereum, 354 EOS, 71 Steem, 338 TRON, 14 TOMOCHAIN, 19 IOST.

<table>
<thead>
<tr>
<th>Category</th>
<th>Active dApps</th>
<th>New dApps</th>
<th>Transactions</th>
<th>Volume (USD)</th>
<th>Active Users</th>
<th>New Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gambling</td>
<td>478</td>
<td>172</td>
<td>233,331,350</td>
<td>2,319,610,910</td>
<td>537,795</td>
<td>325,306</td>
</tr>
<tr>
<td>Game</td>
<td>310</td>
<td>63</td>
<td>33,674,354</td>
<td>13,223,946</td>
<td>184,243</td>
<td>119,470</td>
</tr>
<tr>
<td>High-risk</td>
<td>258</td>
<td>171</td>
<td>5,426,130</td>
<td>1,390,71,821</td>
<td>150,191</td>
<td>127,821</td>
</tr>
<tr>
<td>Others</td>
<td>102</td>
<td>32</td>
<td>14,212,891</td>
<td>138,071,589</td>
<td>108,021</td>
<td>73,022</td>
</tr>
<tr>
<td>Social</td>
<td>89</td>
<td>8</td>
<td>8,652,013</td>
<td>436,866</td>
<td>170,062</td>
<td>121,074</td>
</tr>
<tr>
<td>Exchange</td>
<td>95</td>
<td>18</td>
<td>23,943,311</td>
<td>600,561,552</td>
<td>184,832</td>
<td>88,345</td>
</tr>
<tr>
<td>Tools</td>
<td>54</td>
<td>4</td>
<td>971,835</td>
<td>4,963,501</td>
<td>28,821</td>
<td>22,656</td>
</tr>
<tr>
<td>Finance</td>
<td>47</td>
<td>14</td>
<td>4,013,878</td>
<td>457,689,950</td>
<td>50,537</td>
<td>43,387</td>
</tr>
<tr>
<td>Art</td>
<td>27</td>
<td>2</td>
<td>400,462</td>
<td>44,713</td>
<td>4,724</td>
<td>3,550</td>
</tr>
<tr>
<td>All</td>
<td>1,460</td>
<td>484</td>
<td>324,626,224</td>
<td>3,276,128,945</td>
<td>1,159,482</td>
<td>708,401</td>
</tr>
</tbody>
</table>
Decentralized Apps

Q2 dApp Market Stats - by Month

1,460 Active dApps, 1.16M Active Users, 324.63M Transactions, $3.28B Volume.

April 2019
- Active dApps: 1,157
- Active Users: 652,802
- Transactions: 117,764,563
- Volume: $1,052,830,406

May 2019
- Active dApps: 1,151
- Active Users: 660,091
- Transactions: 113,117,612
- Volume: $1,213,545,908

June 2019
- Active dApps: 1,116
- Active Users: 541,009
- Transactions: 93,744,049
- Volume: $1,009,752,630
Decentralized Apps
Q2 dApp Market Overview - User Analysis

1.16M Active Users in Q2 - 365k Ethereum, 277k EOS, 55.6k Steem, 445k TRON, 2.86k Tomochain, 14.3k IOST.

<table>
<thead>
<tr>
<th>Category</th>
<th>All</th>
<th>ETH</th>
<th>EOS</th>
<th>STEEM</th>
<th>TRON</th>
<th>TomoChain</th>
<th>IOST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q2 Active Users</td>
<td>1.16M</td>
<td>365k</td>
<td>277k</td>
<td>55.6k</td>
<td>445k</td>
<td>2.86k</td>
<td>14.3k</td>
</tr>
<tr>
<td>Total Users Q2 New</td>
<td>3.26M</td>
<td>1.44M</td>
<td>429k</td>
<td>559k</td>
<td>805k</td>
<td>3.89k</td>
<td>14.5k</td>
</tr>
<tr>
<td>User Activeness</td>
<td>35.61%</td>
<td>25.28%</td>
<td>64.52%</td>
<td>9.94%</td>
<td>55.27%</td>
<td>73.41%</td>
<td>98.15%</td>
</tr>
<tr>
<td># Mainnet Address Q2 New</td>
<td>75.4M</td>
<td>69.1M</td>
<td>1.28M</td>
<td>1.29M</td>
<td>3.23M</td>
<td>100k</td>
<td>328k</td>
</tr>
<tr>
<td>Dapp User %</td>
<td>4.32%</td>
<td>2.09%</td>
<td>33.36%</td>
<td>43.37%</td>
<td>24.89%</td>
<td>3.89%</td>
<td>4.44%</td>
</tr>
</tbody>
</table>
Decentralized Apps

Q2 dApp Market Summary - in Charts

1,460 Active dApps, 1.16M Active Users, 324.63M Transactions, $3.28B Volume.
Root Infrastructure Framework (RIF) on RSK

in collaboration with

 rif
RSK & RIF - Introduction

What is RSK?
RSK is a Smart Contract Platform secured by the Bitcoin Network. By adding value and expanding functionality, RSK aims to create a smarter Bitcoin.

What is RIF OS?
Root Infrastructure Framework Open Standard (RIF OS) is an all-in-one blockchain infrastructure service framework.

RIF OS Protocols enable broad interoperability and faster time-to-deployment, and aim to bridge the gap between blockchain technologies and their mass-market adoption.

RIF OS Protocols complete the RSK Smart Contract Network vision of bringing the Internet of Value to life.

The RIF OS is built on top of RSK, which is built on top of Bitcoin’s secure network. Both RSK and RIF OS are able to leverage on the security level of Bitcoin while furthering its use cases by building on top of it.
RIF’s Solution to Scalability

On its own, Bitcoin’s blockchain can support 100k active users. With RSK’s solutions, the number goes up to 1M, but that is still insufficient to cater for the growing # of users and demand. For that, RIF Labs built the RIF OS Protocols on top of RSK’s Bitcoin secured Smart Contract Network, capable of supporting up to 60M active users.

Decentralized Blockchains # Max Active Users (MAU)

<table>
<thead>
<tr>
<th># MAU</th>
<th>Method</th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>60M</td>
<td>Bandwidth for tip-sync nodes</td>
<td>+</td>
</tr>
<tr>
<td>7.5M</td>
<td>State/CPU/gas/bandwidth</td>
<td>+</td>
</tr>
<tr>
<td>3M</td>
<td>Block size</td>
<td>+</td>
</tr>
<tr>
<td>1M</td>
<td>CPU Time</td>
<td></td>
</tr>
<tr>
<td>300k</td>
<td>CPU Time</td>
<td></td>
</tr>
<tr>
<td>100k</td>
<td>Clock size (BTC) &amp; CPU time (zCash)</td>
<td></td>
</tr>
</tbody>
</table>

How? Through A Scalable Architecture for Payments

Offchain
- RIF Payments
  - Lumino (PCN) node
  - NOCUST node
  - RSK Full node
  - Light-weight RSK node

RSK On-chain
- Fast VM w/parallel execution
- Compact block propagation
- LTCP compression
- Storage Rent & Hibernation
- FlyClient
- Event linking
RIF Lumino Network

Enabling Off-chain Payment Capabilities

FEATURES

• Payment channels available for EVERY token on RSK
• Thousands of tps at extremely low cost
• Almost instant confirmations
• On-chain settlement
• Complementary to the Lightning Network
• Fostering blockchain mass adoption

RIF PAYMENT on RIF LUMINO Network

• Lightning Network integration
• Cross-token transactions
• Cross-blockchain transactions
• Unified Libraries & UI
THE END