



# CoinGecko Quarterly Report



for Q3 2019

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CoinGecko hosts Changelog

Analysts:



Bobby Ong



Sze Jin



Kristian Kho



Daryl Lau



Darren Lau

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# Founders' Notes

As Q3 came to a close, it seemed like the crypto industry was following our natural seasons. Crypto summer was here and we enjoyed the high price for Bitcoin. Now that summer is over, Bitcoin's price has dropped and we're in crypto autumn.

We started Q3 with Bitcoin priced moderately high at \$10,888. In the last week of September, Bitcoin's price tumbled 17.6% from \$10,041 to end the quarter at \$8,271. Bearish sentiments are now filling every crypto trader's head, and it seems as though it'll be some time before we head to the moon.

Q3 was very busy for CoinGecko. We made a major change to the way we rank crypto exchanges by introducing Trust Score 2.0. This was a much-needed improvement and we will continue working hard to increase transparency amongst exchanges and combat fake volume. We first introduced Trust Score in May 2019. Through it, we normalize exchanges' reported trading volume by web traffic and order book depth. With Trust Score 2.0, we take into account more metrics and bucket them into 5 major categories, namely, Liquidity, API Technical Coverage, Scale of Operations, Cryptocurrency Reserves, and Regulatory Compliance.

Q3 also saw us taking part in CoinDesk's Invest: Asia conference. Bobby delivered a keynote presentation on the State of Crypto Markets in Asia. During the conference, we hosted the Changelog stage, where 15 projects had a platform for sharing their updates. Despite the slow market, it's clear that many projects are working hard to improve themselves and are innovating in the industry.

We at CoinGecko have also noticed the strong growth in crypto derivative offerings by exchanges. Binance launched its Futures product and acquired JEX, a small derivative exchange, to improve its derivative offerings. In addition, we saw the launch of many new derivative exchanges and we're excited about the prospects of this segment. In this report, we share what we have learned in a Derivatives 101 section.

Q4 will be a bumpy quarter and we hope you will spend it learning more about the industry. As the saying by Debasish Mridha goes: "Knowledge is a wealth that cannot be stolen; it will grow when you try to give it away." We hope you will continue to learn and take every opportunity to explain cryptocurrencies to all your friends!



**Bobby Ong**  
Co-founder

**TM Lee**  
Co-founder 4

# Market Dynamics

## Q3 2019 Market Overview

**-29.1%**

Total Mkt Cap decrease in Q3 2019

Market Cap & Trading Volume are both on a downtrend in Q3 2019.

Nearly \$100B in market capitalization was lost in Q3 as the market struggled to gain ground against the raging bears.

Trading activity took a larger hit by falling even more sharply with a **reduction of 42%** in overall trading volume (USD).



## Q3 2019 Top 5 Coins Returns

**-39.2%**


Avg. Top-5 coin returns in Q3 2019

All top-5 coins registered losses in Q3.


LTC lost the most, shedding 54% of its value, going from \$123 to \$56.

The smallest loser was Bitcoin with a 24% price decrease in Q3.



 **-24%**

 **-39%**

 **-36%**

 **-43%**

 **-54%**

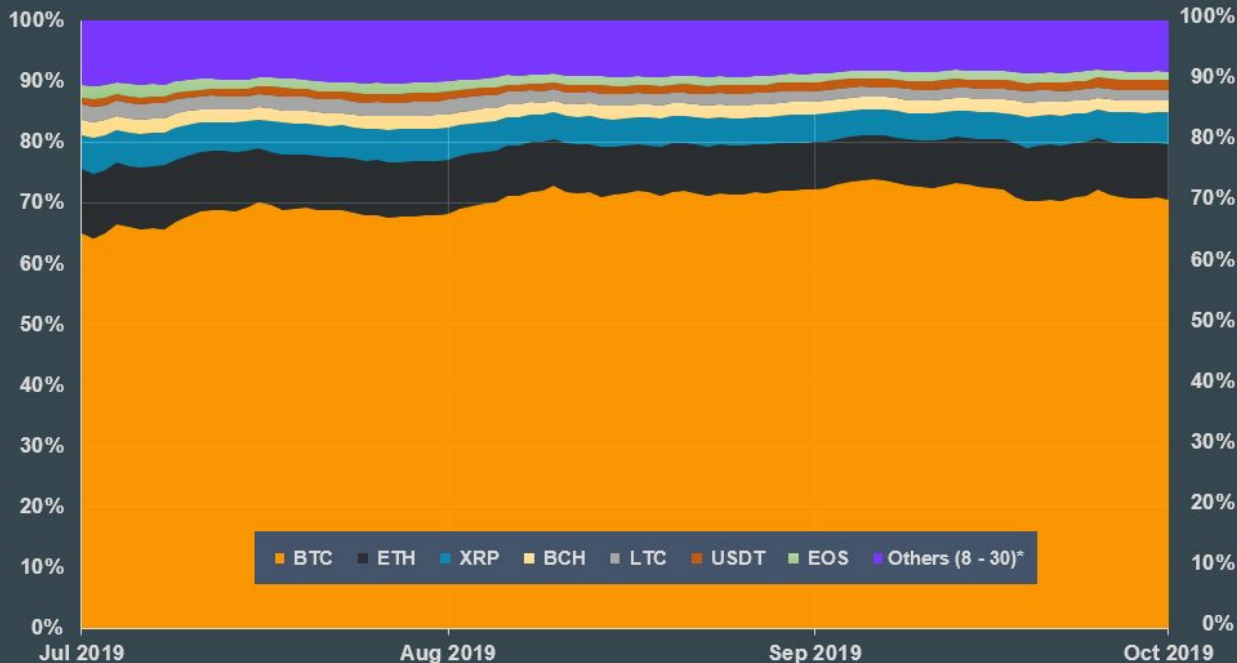
## Q3 2019 Market Overview - Dominance

Despite the bearish outlook of Q3 2019, Bitcoin's market dominance increased from 65.0% to 70.4% (+5.4%) amongst the top-30 cryptocurrencies.

Bitcoin price decreased significantly less relative to the other cryptocurrencies thereby gaining dominance in this bearish market.


ETH and Others (Top 8 - 30) lost the most dominance. ETH decreased from 10.5% to 9.18% (-1.3%) while Others (Top 8 - 30) decreased from 10.4% to 8.4% (-2.0%).

With a market cap of nearly \$3.6B, Tether (USDT) rose to #6 in ranking, closely behind LTC as Q3 closes.



Q3 2019 vs Q2 2019  **70.4%** (+5.4%)

 **9.18%** (-1.3%)

 **5.22%** (-0.4%)

 **1.94%** (-0.5%)

 **1.68%** (-0.7%)

 **1.68%** (+0.5%)

 **1.44%** (-0.6%)

 **8.42%\*** (-2.0%)

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



## Q3 2019 Bitcoin Overview

**-24%**

BTC price decrease in Q3 2019

BTC hovered above \$10,000 for most of Q3 until late September.

There was a sharp dip in Bitcoin's price on 24th Sept. In the last week of Sept, Bitcoin's price fell 17.6% from \$10,041 to end the quarter at \$8,271.

The cause for the dip remains unknown, although JP Morgan & Binance Research attributed it to the Bakkt launch that was considered a flop with only approx. \$6 million traded on its opening week.



# Market Dynamics

## Q3 Top-30 Rankings

Q2 2019  
vs Q1 2019

BTC	ETH	XRP	LTC	BCH	EOS	BNB	BSV	USDT	ADA	TRX	XLM	LEO	XMR	DASH	LINK	ATOM	NEO	MIOTA	HT	ONT	ETC	XEM	XTZ	ZEC	MKR	OKB	QTUM	BTG	VET
			+1	+1	-2	+1	+4	+1	-2		-3	NEW	-1	-1	NEW	-1	+1	-4	NEW	-4	-2	-1	-6	-1	-5	-4	NEW		-5

Q3 2019  
vs Q2 2019

BTC	ETH	XRP	BCH	LTC	USDT	EOS	BNB	BSV	ADA	XLM	LEO	XMR	TRX	HT	MIOTA	XTZ	OKB	LINK	DASH	ATOM	NEO	ETC	USDC	ONT	CRO	XEM	MKR	DOGE	ZEC
			+1	-1	+3	-1	-1	-1		+1	+1	+1	-3	+5	+3	+7	+9	-3	-5	-4	-4	-1	NEW	-4	NEW	-4	-2	NEW	-5

### Q3 Top-30 New Entrants



DOGE

30 Sept 2019

Price: \$0.0024 **(-25%)\***

Market cap: \$293M

Much wow, many rank,  
such top-30.  
We're not explaining this!



USDC

30 Sept 2019

Price: \$1.00 **(-%)\***

Market cap: \$427M

Circle's Stablecoin. Stablecoins have been steadily climbing the ranks as other cryptocurrencies lose value amidst the bearish market of Q3 2019.



CRO

30 Sept 2019

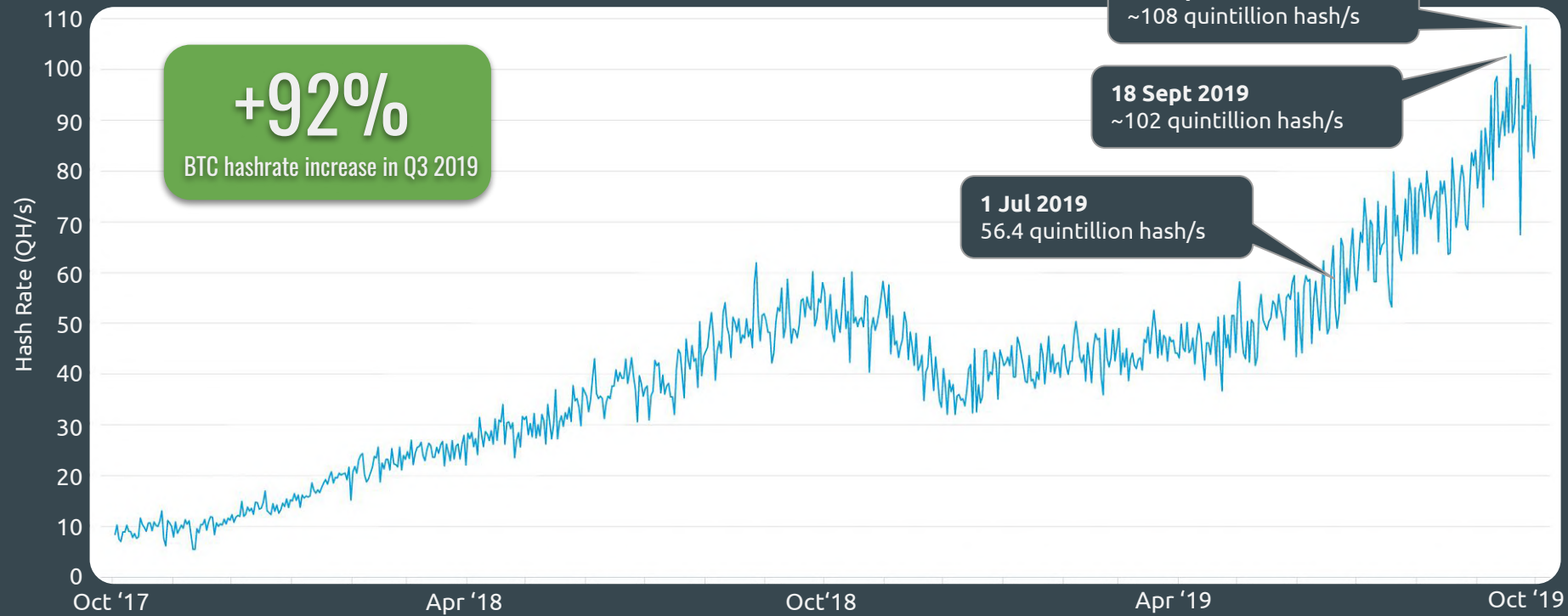
Price: \$0.035 **(-32%)\***

Market cap: \$375M

Significant value was lost in Q3 as well, but held up well relative to several other cryptocurrencies against the ploughing bears of the market.

\*DOGE and CRO moving up to top-30 despite price drop is likely a result of having a lesser drop in price relative to other cryptocurrencies.

# BTC Hashrate Hits ATH



## Bitcoin's hashrate hit an All Time High in Q3 2019

Despite the raging bears, Bitcoin miners have been hard at work hitting the 100 quintillion hash per second milestone (*that's 1 with 20 zeros!*)

## What's New @ CoinGecko

# Trust Score 2.0

## A Comprehensive Exchange Evaluation

### Trust Score 2.0 measures:

#### Liquidity



How likely cryptoassets can be traded at a price which reflects its intrinsic value.

#### Scale of Operations



Parameters that can be measured for an exchange, yet don't necessarily correlate directly with liquidity.

#### API Technical Coverage



Measures the completeness of an exchange's API.

Coming soon



#### Crypto Reserves

Estimates available reserves of major cryptocurrencies for an exchange.\*



#### Regulatory Compliance

Measures Risk Rating of exchanges from a compliance perspective.\*

## TLDR - Compared to Trust Score 1.0?

### Trust Score 1.0

**Trading pairs**

Focuses on **Liquidity of individual trading pairs** through trading volume and order book analysis.

**Outcome**

Updates tickers ranking on website.  
Top volume != Top ranking

#	Exchange	Pair	Price	24h Volume	Volume %
1	ZBG	ETH/USDT	\$170.61	\$356,897,248	5.32%
2	Dobitrade	ETH/USDT	\$170.82	\$274,911,950	4.10%
3	Dobitrade	ETH/BTC	\$170.53	\$219,482,987	3.27%
4	BW.com	ETH/USDT	\$170.63	\$206,843,503	3.09%



#	Exchange	Pair	Spread	+2% Depth	-2% Depth	24h Volume	Trust Score
1	Binance	ETH/USDT	0.03%	\$364,792	\$676,034	\$55,645,280	●
2	Binance	ETH/BTC	0.01%	\$338,202	\$419,684	\$26,084,653	●
3	Kraken	ETH/USD	0.04%	\$772,196	\$973,599	\$7,096,226	●
4	Coinbase Pro	ETH/USD	0.02%	\$436,924	\$274,098	\$13,053,027	●
5	Kraken	ETH/EUR	0.04%	\$836,050	\$876,858	\$4,902,391	●

### Trust Score 2.0

**Exchanges**

**Ranks exchanges by Trust Score** which is based on exchanges' Liquidity, Scale of Operations and API technical coverage.

**Outcome**

Exchange rank effectively decoupled from reported trading volume

**Bittrex Trust Score**

10

Liquidity: 5.0 | Scale: 3.0 | API Coverage: 2.0 | Regulatory Compliance: 10/10 | Estimated Reserves: 10/10

**Liquidity**

- Reported Trading Volume: 82,253.01
- Normalized Trading Volume: 82,253.01
- Reported-Normalized Volume Ratio: 1.0

**Scale**

- Average Bid-Ask Spread: 0.032%
- Trading Pair Total Trust Score: [Progress bar]

# Derivatives for Dummies

# Derivatives 101

# Derivatives - The New Wave in Crypto

## Derivative on CoinGecko

Q3 has seen the crypto derivative sector booming. Bitmex is the long standing champion of this space but will they finally be challenged by up-and-coming players?

### # of derivative exchanges tracked

1 Jul' 19 **6** → 1 Oct' 19 **17**  
3x

### Spot vs. Derivatives stats

#### Spot



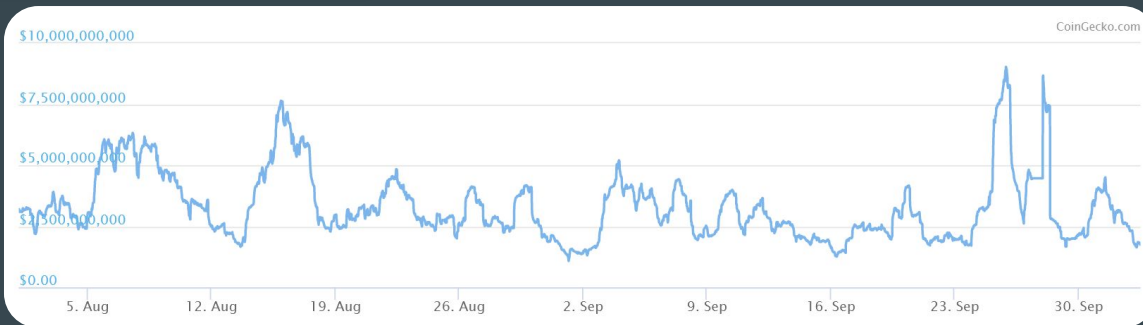
- \$55B 24h volume
- ~370 exchanges
- (~\$0.15B/exchg)

#### Derivatives



- \$7.5B 24h volume
- 17 exchanges
- (~\$0.44B/exchg)

## Q3 2019 Stats



Despite a bearish Q3, derivative exchanges such as Bitmex continued to have strong performance. Notable volume spikes were recorded during volatile price movement.

## Some of the Players in this Space



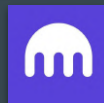
Binance Futures



Bitmex



OKEx Futures



Kraken Futures



Huobi DM



bitFlyer Lightning FX

Many more are entering this space - expect more competition & innovation!



## Derivatives in Crypto - An Overview

### What are Derivatives?

Derivatives are financial instruments whose value is **derived** from an underlying asset (e.g. Crude Oil, Gold, Bitcoin etc). Compared to *spot markets* where the underlying asset changes ownership, in derivatives markets, traders trade contracts rather than the actual assets.

### Options

An agreement between two counterparties that provides one with **a right but not an obligation** to transact in the future.

### Forwards / Futures

An agreement between two counterparties that **obligates** them to transact in the future based on the contract terms set.

### Swaps

An agreement between two counterparties where both agree to periodically exchange fixed and floating rates over a period of time.



### Confused?

We're here to help! We've put together some spooky analogies (in time for Halloween!) that'll make it easy for you to visualize how and when Derivatives are useful! Read on!



# Options - An analogy

## August - Costume @ \$100

There's a \$100 costume released in August and by Halloween it will either be the coolest or a dad's costume (*sorry dads*).

You can:

Hyped Costume  
\$100



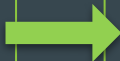
A Buy costume for \$100



B Wait till Halloween



C Buy option for \$5



## (October) Halloween - Costume is *cool*

Costume becomes coolest thing and price skyrockets to \$200.

You now:

Cool Costume  
\$200



A \*Celebrates\*



B \*Regrets\*



C Has the rights to buy costume @ \$100

OR

## (October) Halloween - Costume is *uncool*

Uncool costume now costs \$30.

You now:

Uncool Costume  
\$30



A \*Regrets\*



B \*Celebrates\*



C Paid \$5 earlier to avoid uncool costume



Both choices (a spot trader) exposed you to the risks of the market.



For a small premium, you (a trader) can hedge against unfavorable market conditions.



With Options, the buyer has the **right** to decide if he/she wants to buy regardless of price at the end.

## Futures - An analogy

### August - Pumpkin @ \$100

A pumpkin costs \$100 in August and you need another one by Halloween, where price typically fluctuates wildly.

You can:

Pumpkin

\$100

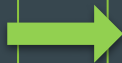


A

Enter a Futures contract with someone for \$100 pumpkin in October

B

Wait till October to buy



### (October) Halloween - Pumpkin @ \$200

Pumpkins are in demand and price skyrockets to \$200.

You now:

Pumpkin

\$200



A

Get a pumpkin @ \$100 because you have a Futures contract

B

Forced to buy @ \$200

OR

### (October) Halloween - Pumpkin @ \$30

Nobody wants pumpkins and price plummets to \$30.

You now:

Pumpkin

\$30



A

You are **obligated** to buy @ \$100

B

Buy @ \$30, and keep \$70.



**Futures, or not?**

A

Futures allows traders to bet on outcomes in the future (hence the name). It can be used to speculate or hedge against certain positions.



**Versus Options?**

In futures, you must (obligated) fulfill your contract to buy, while in options you pay a small amount (premium) upfront but will not be obligated to buy regardless.

# Serious Trader's Handbook - Terms Explained 1



## European Options

A type of an options contract that limits execution on its expiration date.



## American Options

A type of an options contract which can be exercised at any time up to and including the date of expiration.



## Options Valuation

Options are mostly valued using the Black-Scholes model. It is a pricing model which determines the fair price of an option based on variables such as volatility, type of option, underlying asset price, time to expiration, strike price, and risk-free rate.

## In The Money (ITM)

Refers to an option that has intrinsic value.

**ITM Call Option:** Current price of the underlying asset is higher than the call option strike price (*traders can buy below current market price*).

**ITM Put Option:** Current price of the underlying asset is lower than the put option strike price (*traders can sell above market price*).

## Out of The Money (OTM)

Refers to an option that is worthless if exercised today.

**OTM Call Option:** Current price of the underlying asset is less than the call option strike price.

**OTM Put Option:** Current price of the underlying asset is higher than the put option strike price.

# Serious Trader's Handbook - Terms Explained 2

*Consider a BTC / USD futures contract.  
Base currency: BTC and Quote currency: USD*

## Vanilla

In a vanilla contract, the margin and profit & loss are denominated in the quote currency. Thus, the margined and settlement is in USD.

## Inverse

In an inverse futures contract, the margin and profit & loss are denominated in the base currency. Thus, the margined and settlement is in BTC.

*Consider a ETH/USD futures contract.  
Base currency: ETH and Quote currency: USD*

## Quanto

In a quanto futures contract, the margin and profit & loss are denominated in a currency besides the base or quote currency. A quanto futures on ETH that is quoted in USD is margined and settled in BTC.



## Physical Settlement

Upon expiration, the seller of the financial instrument delivers the actual (physical) underlying asset.



## Cash Settlement

Upon expiration, the seller of the financial instrument does not deliver the actual (physical) underlying asset but instead transfers the associated cash position.


## Backwardation

A situation when the spot price of an underlying asset is higher than prices trading in the futures market.

## Contango

A situation when the futures price of an underlying asset is higher than prices trading in the spot market.

## Derivatives Market Coming Soon


CoinGecko

COINS
NEWS
EXCHANGES
BEAM
TRENDING
...

Coins: 5809 Exchanges: 388
Market Cap: \$211,611,612,214 -2.2%↓ 24h Vol: \$47,175,700,059
Dominance: BTC 66.5% ETH 8.72% XRP 5.35%

### Top Cryptocurrency Derivatives by Open Interest

**Bitcoin (Perpetual)** Total Open Interest: \$10,480,038,147  
Total 24h Trade Volume: \$40,991,492,492

Market	Symbol	Price	Index	Premium	Spread	Funding Rate	Open Interest	24h Volume	Expire In	Last Traded
Bitmex	XBTUSD	\$7,823.50	7826.80 USD	-0.020%	0.01%	0.01%	\$771,868,608	\$2,316,815,375.81	∞	Recently
Bybit	BTCUSD	\$7,820.50	7821.92 USD	0.020%	0.01%	0.01%	\$133,669,136	\$751,408,498.95	∞	Recently
OKEx (Futures)	BTC-USD-SWAP	\$7,826.00	7822.66 USD	0.25%	-	-0.002%	\$106,420,500	\$354,952,600.00	∞	Recently
Deribit	BTC-PERPETUAL	\$7,820.50	7826.99 USD	-0.10%	0.01%	-0.002%	\$89,216,431	\$192,266,360.05	∞	Recently
Kraken (Futures)	pi_xbtusd	\$7,822.00	7820.50 USD	0.16%	0.01%	0.0002%	\$21,337,991	\$45,288,534.00	∞	Recently
Gate.io (Futures)	BTC_USD	\$7,827.50	7821.93 USD	-0.020%	-	0.01%	\$19,361,168	\$83,907,377.00	∞	Recently
Bitforex Futures	swap-usd-btc	\$7,826.50	7822.91 USD	0.21%	0.01%	0.01%	\$11,813,509	\$65,789,642.00	∞	Recently
FTX	BTC-PERP	\$7,818.00	7827.41 USD	0.070%	0.02%	-0.0034%	\$10,761,340	\$148,779,906.03	∞	Recently
Binance Futures	BTCUSDT	\$7,827.09	7826.06 USDT	-0.10%	0.01%	-0.016%	N/A	\$353,160,033.13	∞	Recently

We are working hard behind the scenes to bring you a derivatives section.  
More data and stats will come your way soon to better help track the derivatives market.

# Q3 News Highlights

# News Highlights

## BitPoint Exchange Hack



On July 12, “an unauthorized outflow of virtual currency”, resulted in a loss of USD \$32million in cryptocurrency on Bitpoint, a Japanese exchange.

Bitpoint has pledged to refund all affected customers.

**Security Advice:** Never keep your funds in exchanges for long periods of time

## Total Crypto Stolen



1,225 BTC



5,108 LTC



28,106,323 XRP



11,169 ETH



1,985 BCH

Source

## China’s Bitcoin Ruling



China’s HangZhou Internet Court has legally ruled Bitcoin as “virtual property” and is subject to property rights.

For years, there is uncertainty within China on the legal status of Bitcoin. This ruling provides clarity as well as finally giving legal protection to the ownership of Bitcoin.

Source

## IRS Demands Tax on Crypto Trade



The IRS has sent letters to taxpayers who own cryptocurrency.

*“Taxpayers should take these letters very seriously by reviewing their tax filings and when appropriate, amend past returns and pay back taxes, interest and penalties,” IRS Commissioner Chuck Rettig*

Source



## “Shitcoin Index”



In a bold move, FTX launched SHIT-PERP, short for Shitcoin Index Perpetual Futures.

It is an perpetual swap index consisting of 58 low market cap coins.

Source

## Bitcoin.com and Blockchain.com Launches Exchange



Blockchain.com, a leading wallet company in London and Bitcoin.com, a company owned by Roger Ver with strong links to Bitcoin Cash have both launched their crypto-to-crypto exchanges.

Source Source

## China Central Bank Coin



China's Central Bank has been developing a “digital currency” payment system. Not much info is known, but the move signals shift of attitude towards cryptocurrencies.

Source

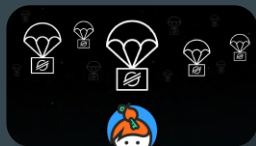
## Crypto-salary legal in NZ



New Zealand IRS has made it legal for salaries be paid in cryptocurrencies.

Source

## \$121 Million XLM Airdrop



Keybase users will get 100 million XLM each month over 20 months.

Each user is entitled to \$500 in XLM over the course of the airdrop.

Source

## Tether Chinese Yuan



Tether launched offshore CNY backed Tether token (CNHT). Offshore CNY can be traded globally as opposed to domestic CNY.

Source

## Hedera MainNet

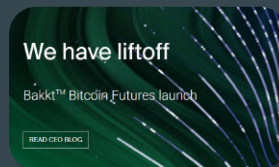


Hedera Hashgraph (HBAR) went live.

Since trading begun, **HBAR price has performed -88.4%**.

Source

## Bakkt Launch



Bakkt, the long awaited regulated Bitcoin futures exchange finally launched. However, trading volumes were disappointing.

**Day 1 Volume: 71 BTC**  
**Week 1 Volume : 623 BTC**

Source

# Binance Q3 Product Launches

## New Product Blitzkrieg

Binance has been extremely active in launching new products in Q3, especially in September 2019. In case you'd miss it, here are some of the products Binance launched in Q3:

11 Jul



Launched Binance 2.0, Margin Trading went live.

26 Aug



Launched Lending Platform with up to 15% APR.

3 Sep



Acquired JEX derivative platform. JEX token saw 4x increase in price.

5 Sep



Launched BUSD, Binance USD stablecoin.

12 Sep

**BINANCE** — FUTURES Launched Futures (Derivative Platform).

17 Sep



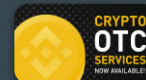
Made strategic investment in Mars Finance, a Chinese crypto publication.

18 Sep



Announced plan for Binance Venus, "a strong competitor to Libra".

19 Sep



CMO Yi He revealed plans to roll out OTC specifically for CNY.

Sep 23



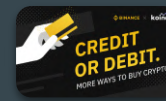
Launched Binance US, available to US citizens except in 13 states.

Sep 24



Attained ISO 27001 Accreditation, a global standard for Information Security Management.

Sep 25



Rolled out (another) fiat gateway with Koinal. Binance now has 4 fiat gateways.

# Decentralized Finance (DeFi)

## Stats & Project Showcases

# Decentralized Finance (DeFi)

## Why does it matter?

### Current financial system (*centralized*)



Nearly **1/4 of the world (1.7b\*)** remains **unbanked**, and have limited access to wealth management tools.



On average it takes 3 working days and **~6.8%\* fee** for a cross-border remittance.



Centralization risks where rogue actors can bring entire systems down - **2008 financial crisis & Venezuela hyperinflation.**



**Censorship/Discrimination** from banks freezing accounts, denying access to funds, bank runs.

### Decentralized Finance



Wider access to global financial services - **Anyone with mobile phones/internet** access can be part of it.



**Affordable & swift** cross-border payments - on average ETH takes less than \$0.018\* and 20 seconds, regardless of location.



Low barrier & friction for **exposure to different asset classes** for all users - better liquidity, options and positions.



Censorship resistance - Every entity is treated equally by the code **regardless of social standing, credit history or political beliefs.**



The **DeFi** movement is all about creating a money market that is more **efficient.**

\* <https://remittanceprices.worldbank.org/en>

\* <https://globalindex.worldbank.org/>

\* <https://ethgasstation.info/>

# Decentralized Finance (DeFi) Growth

Current popular DeFi use cases:

## Lending

Borrowing/Lending on a public blockchain with much less friction vs. traditional platforms.

## Derivatives/Assets

Synthetic assets which are derivatives of other assets allows exposure without having the actual asset.

## Decentralized Exchanges

Traders can trade on platforms that do not hold their funds custody

## Payment solutions

Traditionally centralized payment solutions can be decentralized to be as effective while staying censorship-free



## DeFi's Growth

Total Value Locked (ETH)

**2.9M**  
(**\$509.9M**)

Maker Dominance

**51.65%**

## Total Value Locked (ETH) in DeFi

TVL (USD) | [TVL \(ETH\)](#) | ETH | BTC | DAI All | [1 Year](#) | 90 Day | 30 Day | 7 Day



DEFI PULSE	Name	Chain	Category	Locked (ETH) ▼	1 Day %
🏆 1.	Maker	Ethereum	Lending	1.5M	-1.3%
🏆 2.	Compound	Ethereum	Lending	629.8K	12.5%
🏆 3.	Synthetix	Ethereum	Derivatives	277.8K	16.3%

Growth in DeFi sector can be measured by the amount of ETH locked into the ecosystem. The amount of ETH locked into the ecosystem has grown by over 3x from ~900k ETH to ~2.9m ETH (**>\$500M!**) in the span of one year. The dominant sector for DeFi apps are Lending and Derivatives.



## Did you know?

[Coinbase recently announced](#) a bootstrap fund of \$1m in USDC each for Lending platforms dydx & Compound.

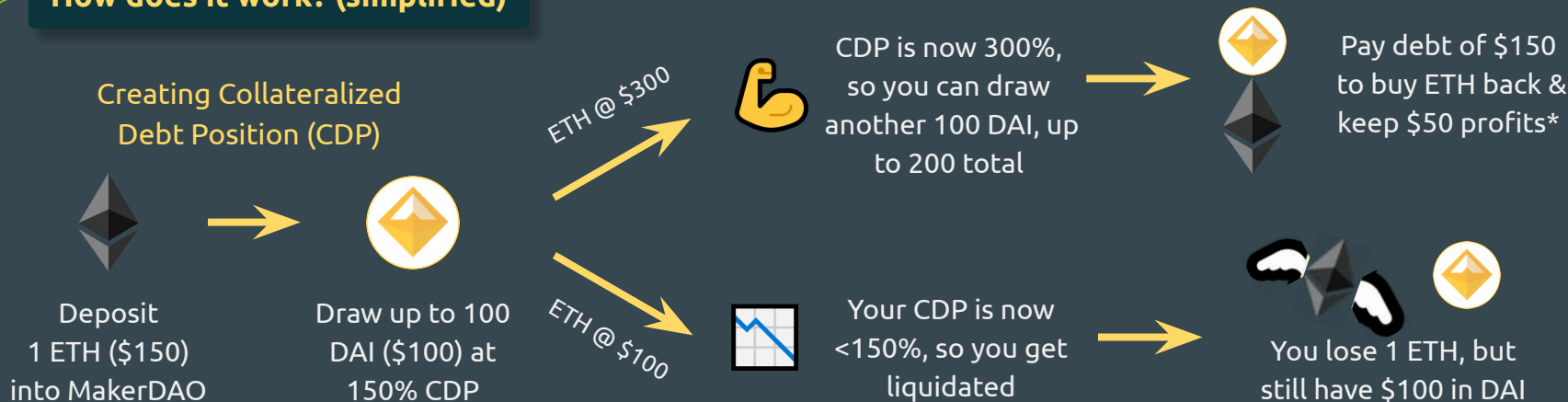
# DeFi: MakerDAO

## Crypto Lending



MakerDAO is a decentralized and permissionless lending platform that allows users to borrow its USD pegged stablecoin, called Dai, against their token assets (eg. Ethereum for Dai) at a minimum collateralized rate of 150%.

### How does it work? (simplified)

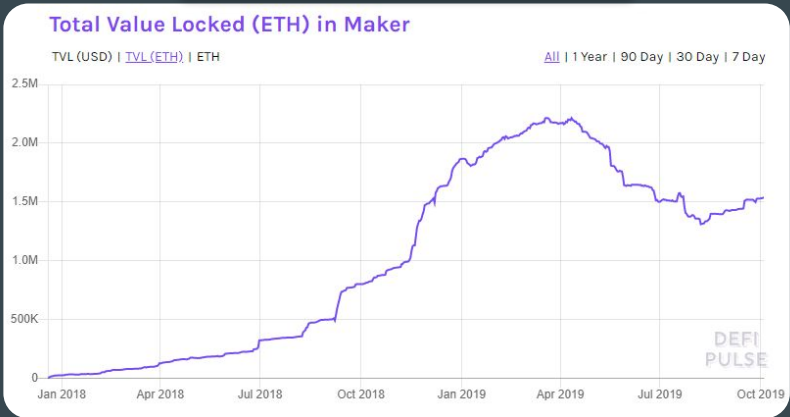


The lending platform is managed by a set of smart contracts instead of a bank, allowing for greatly reduced interest rates and better global liquidity.

\* Stability fee omitted for clarity

## Stats & Future Development Roadmap

### Maker's Stats



Maker is the #1 DeFi app (data by [DeFiPulse](#)) with over 1.5M ETH (~\$267M) locked in.

Arguably, Maker is the Bitcoin in DeFi market where Maker Dominance is measured (52.3% at time of writing).

### New Feature: Dai Savings Rate (DSR)



At launch, Multi-Collateral Dai will include a feature called the Dai Savings Rate (DSR) which allows Dai holders to receive savings.

### The Near Future 1: Multi-collateral Dai



To enable CDPs to be created from a diverse basket of collateral type and may include derivatives such as tokenized real assets (i.e. gold, bonds, real estate, company assets, invoices), or even other fiat-backed stablecoins.

### The Near Future 2: More Dai peggings!



Dai pegged to more local currencies, eg. Euro-Dai, Yen-Dai etc.



# Algorithmic Money Market on Ethereum

## What's Compound?

Compound is a platform that allows users to:

- (i) Earn compounding interest by supplying assets to Compound's Liquidity pool
- (ii) Borrow assets against collateral.

## Why use Compound?

**Don't lose out!** - Unlike banks, your interest will be compounded from the very next block since your deposit into Compound's Smart Contract.

**Cut out the middleman, earn more.** - Without middleman involved, the rates are higher than traditional finance rates - stablecoins like DAI have historically earned 5 - 20% APR for lenders.

## How does it work? (simplified)

Supply Assets to Compound



1 year later



Deposit  
150 Dai (\$150)  
into Compound

Receive 150  
cDAIs equivalent  
to \$150

Assuming a  
10% APR\*

150 cDAIs are now  
equivalent to 165  
DAI (\$165)

Exchange cDAIs  
for a profit of \$15  
(10% gains)

## Key Stats & Future Plans

### Compound's Stats



Closely behind Maker (#1) in the second spot would be **Compound** (#2) with over **600k ETH & 13k BTC** (valued at approximately **\$105M!**) locked in.

Lending is the most popular DeFi app with over 70% of the total value of the ecosystem locked into it.

### Multi-Asset Support

In addition to ETH and WBTC, Compound also supports DAI, REP, USDC, ZRX and BAT.

### Work in Progress

Community Votes for new Assets

All Compound protocol users will be eligible to participate in the community vote, weighted by usage of the protocol (measured by lifetime interest earned + interest paid).

This is an experimental "Sybil-resistant" voting mechanism, which is designed to allocate governance proportional to impact.

# DeFi: Set Protocol

## Simplifying Asset Management

### What's Set Protocol?

Set is a protocol that bundles crypto-assets into tokenized baskets that are programmed to automatically restructure based on any management or trading logic.

Set Protocol simplifies the asset management process by allowing users to simply **acquire a Set in order to gain exposure to a particular trading strategy.**

### Total Value Locked (USD) in Set Protocol

[TVL \(USD\)](#) | [TVL \(ETH\)](#) | [ETH](#) | [BTC](#) | [DAI](#)

[All](#) | [1 Year](#) | [90 Day](#) | [30 Day](#) | [7 Day](#)

















Set's growth measured in \$ USD locked in the protocol

### TokenSets by Set



TokenSets was built by Sets Protocol team to act as the main gateway for users to explore, buy & sell different types of Sets. There are three main types of sets:

Name	Price	Change (24HR)	Chart (24HR)
<b>1. Trend Trading Sets</b>			
 ETH 12 Day EMA Crossover	\$196.10	<span style="color: green;">↑ 1.08%</span>	
 ETH 20 Day Moving Average Crossover	\$245.07	<span style="color: red;">↓ -0.03%</span>	
<b>2. Buy and Hold Sets</b>			
 BTC ETH Equal Weight	\$252.23	<span style="color: green;">↑ 0.95%</span>	
 BTC ETH 75%/25% Weight	\$144.61	<span style="color: green;">↑ 0.88%</span>	
<b>3. Range Bound Sets</b>			
 ETH Range Bound Min Volatility	\$79.26	<span style="color: green;">↑ 0.66%</span>	
 BTC Range Bound Low Volatility	\$132.63	<span style="color: green;">↑ 0.52%</span>	
 ETH Range Bound High Volatility	\$110.01	<span style="color: green;">↑ 0.66%</span>	

# Short-Medium Term Roadmap

## Release more Sets for Traders

- Releasing many more Trend Trading Sets (RSI, BBands etc.)
- Releasing short and long Sets (short BTC, long ETH etc.)
- Releasing Sets that follow fundamental strategies

## Integration across Ecosystem

- Integrating Compounds cTokens (cDAI, cUSDC etc)
- Integration with as many crypto wallets as possible

## Educational Materials

- Creating educational content in the form of blog posts, videos and podcasts

## Customization

- Building a Set Creator so that anyone can create their own Set

## Account Features

- Integrating P&L metrics into TokenSets account pages

# Decentralized Synthetic Assets

## What's Synthetix?




Synthetix is a protocol for trading synthetic assets on Ethereum. The protocol enables a trading platform that allows anyone to access derivatives backed by cryptocurrency without a counterparty.

### What's the point in having synthetic assets?

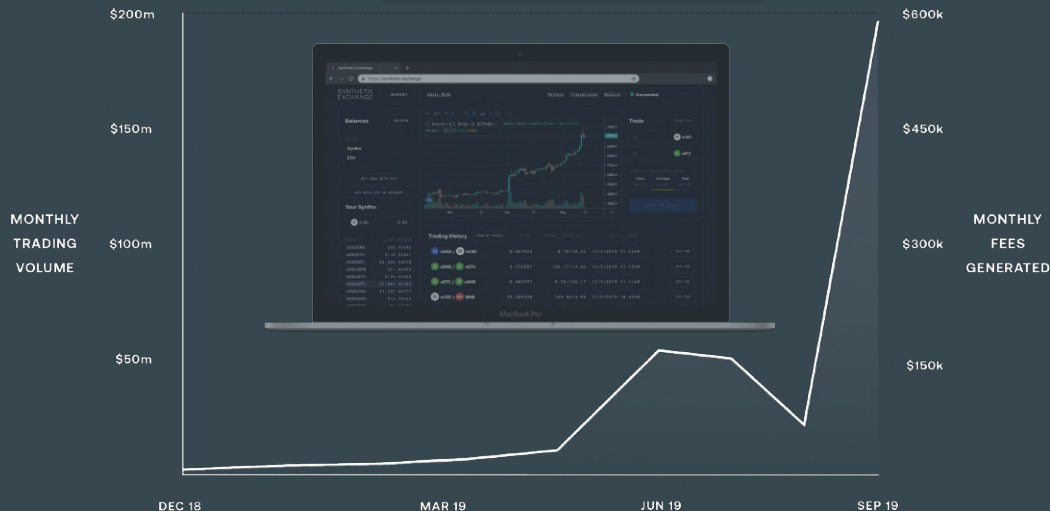
1. Exposure to price of asset without actual asset
2. No liquidity limitations
3. Lower entry barrier

## Synthetix's Growth

DEFI PULSE	Name	Chain	Category	Locked (USD) ▼	1 Day %
	3. Synthetix	Ethereum	Derivatives	\$55.4M	2.1%

Synthetix is currently the **3rd most valuable DeFi app** (data by [DeFi Pulse](#)) with over **\$55M** USD locked into it.

## Synthetix.Exchange



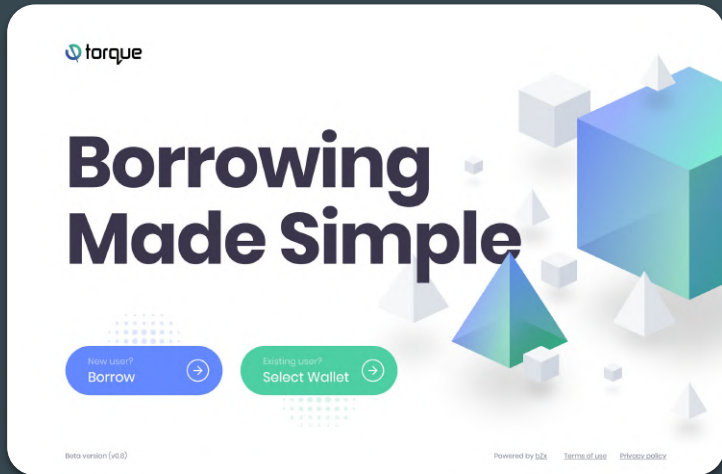
[Synthetix.Exchange](#) allows users to trade synthetic assets (Synths) peer-to-contract (P2C) without slippage or liquidity limitations. This is enabled by staked Synthetix Network Tokens (SNX), which Synths are minted against.

SNX holders are rewarded with exchange fees (0.3% per trade) generated.

# DeFi primitive for shorting, leverage, borrowing & lending



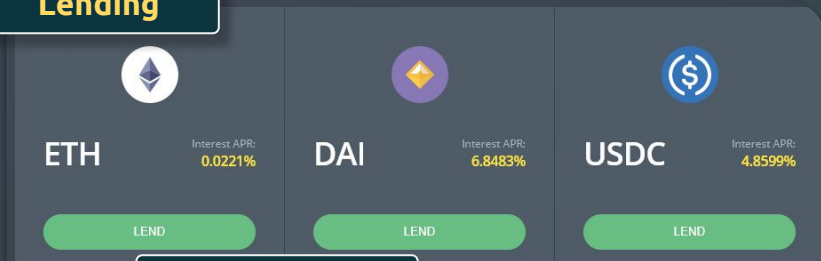
**Fulcrum**  
Margin trading and lending platform



**Torque**  
Borrow Against Your Assets

## DeFi margin trading and lending platform

### Lending

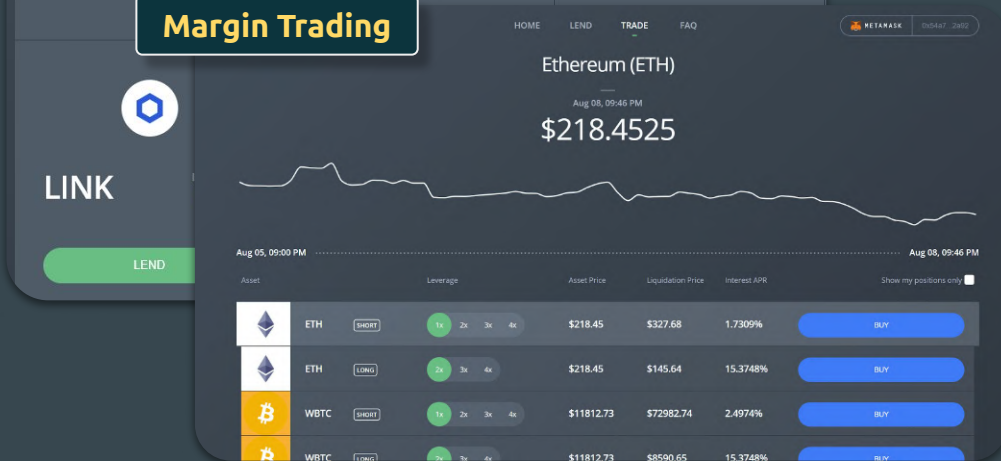


ETH Interest APR: 0.0221%

DAI Interest APR: 6.8483%

USDC Interest APR: 4.8599%

### Margin Trading



Ethereum (ETH) \$218.4525

Aug 08, 09:46 PM

Asset	Leverage	Asset Price	Liquidation Price	Interest APR	Action
ETH [SHORT]	1x 2x 3x 4x	\$218.45	\$327.68	1.7309%	BUY
ETH [LONG]	2x 3x 4x	\$218.45	\$145.64	15.3748%	BUY
WBTC [SHORT]	1x 2x 3x 4x	\$11812.73	\$72982.74	2.4974%	BUY
WBTC [LONG]	2x 3x 4x	\$11812.73	\$8590.65	15.3748%	BUY

### What's Fulcrum?

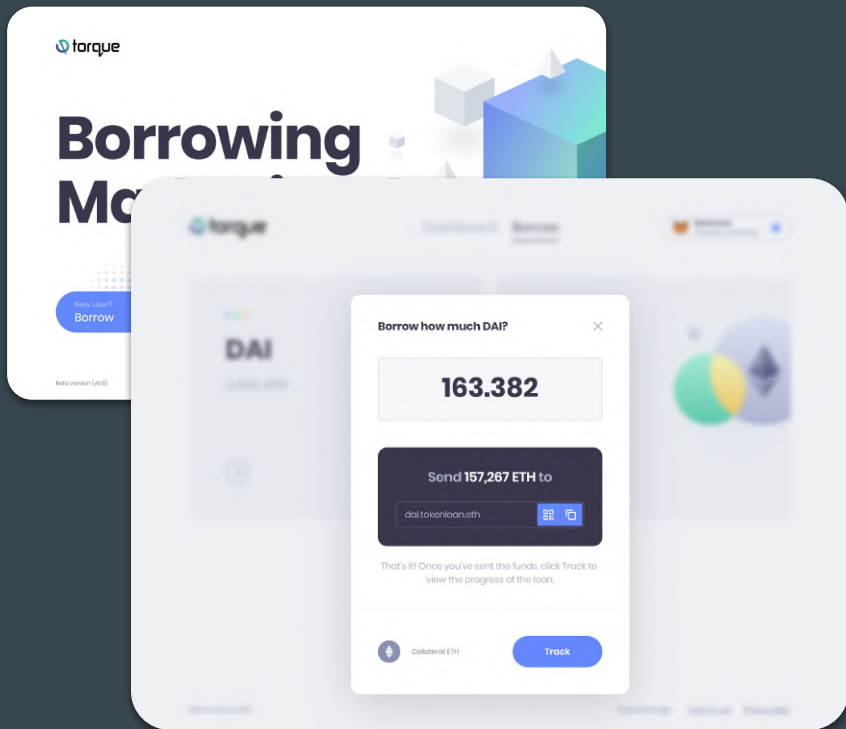
Developed by bZx, **Fulcrum** allows traders to trade their assets with leverage and also lend cryptoassets non-custodially.

### Coming up next:

- Collateral management
- Order histories
- Ratio longs and shorts
- Contract-fillable liquidity from aggregators.

Fulcrum is #1 dApp on Kyber by trading volume.

## Indefinite-terms loans & fixed interest rates



### What's Torque?

**Torque** facilitates the borrowing of DAI, USDC, and other ERC20s. It is the first-of-its-kind ENS loan system where users can interact with human readable addresses (eg. dai.tokenloan.eth).

### Benefits of Torque?

 <b>No Accounts</b>	 <b>No Penalties</b>	 <b>Universal Wallet Access</b>
 <b>Fixed Interest Rates</b>		 <b>Flexible Repayment</b>

### Coming up next

- Web3 interface: use ERC20s as collateral.
- Margin call liquidity sourced by 0x v3.0 conditional orders.

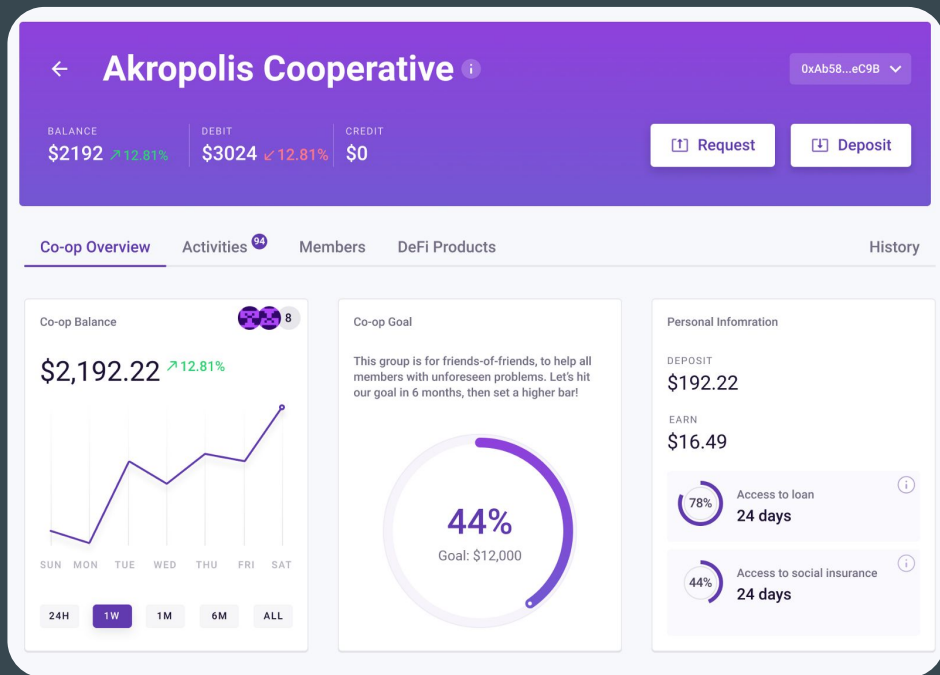
**Borrow With A Single Transaction From Any Wallet**



# DeFi: Akropolis Introduction



**Akropolis** is a financial protocol for the growing billion-dollar informal economy. Throughout the world, informal financial organizations are common, whether called ROSCAs, co-ops or Chamas. However, these organizations are oftentimes subject to fraud, fund mismanagement, and corruption.

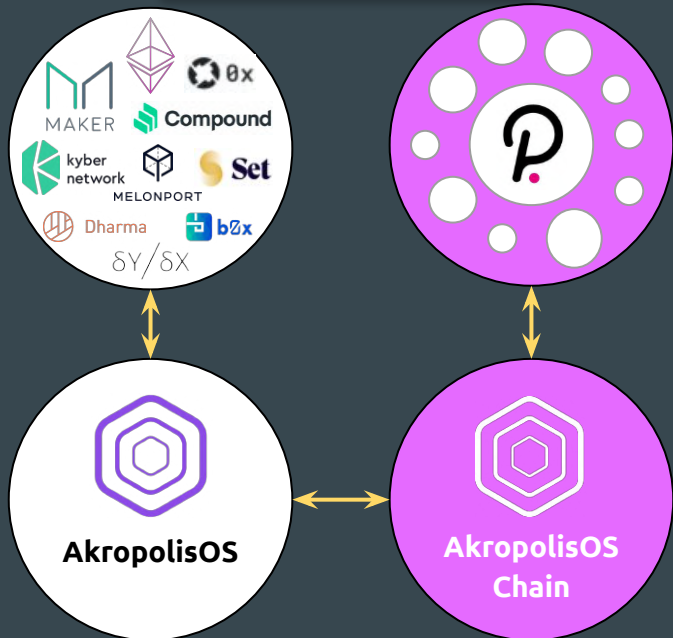


## Key Features

- Quickly set up, operate and grow scalable co-op everywhere & anywhere
- Create an interoperable network between co-ops and external third parties, whereby value can be exchanged freely in a fast, secure and transparent trust-minimised way, e.g. co-invest, loan/borrow, trade
- Cryptographically-proved classical decision making inside co-ops (one man - one vote)
- Possibility to create legal entities (via integration with OpenLaw)
- Access to a DeFi stack
- Non-custodial service, all funds are stored in a smart-contract

# Current Development & Plans

## Interoperable DeFi



1. Build your project
2. Use Akropolis to build & manage DAO
3. Interoperate with other chains

## Akropolis OS

Realizing that existing frameworks are complex and difficult to customize, AkropolisOS (by November 2019) was built to create an easy & simple framework for DAO management after the initial [testnet launch](#).

DeFi is commonly referred to as money legos, and AkropolisOS's modular framework with DeFi stack support will give developers their own DAO building legos.

## Interoperable DeFi

DeFi should be interoperable - AkropolisOS Chain [testnet](#) with DAO management and Staking functionalities was launched [ahead of the roadmap](#) on Substrate (Polkadot).

You may test it using a [simple UI interface](#) - and do check the [manual](#)!

## What's the timeline?

The aim is to launch on Ethereum mainnet by the end of 2019.

## And in the future?

The development of a bridge between Ethereum (ERC-20 tokens such as DAI) and Substrate-based chains of Polkadot and expanding the DeFi ecosystem beyond Ethereum.



# Decentralized Apps (dApps)

In collaboration with











2,791/1,350 (Total/Active) dApps by Q3 2019

1,350 Active dApps - 604 Ethereum, 346 EOS, 66 Steem, 299 TRON, 16 TOMOCHAIN, 19 IOST.

Category	⌘ All	⬡ ETH	⬠ EOS	⚡ STEEM	⚡ TRON	TomoChain	⬠ IOST
Total # of dApps	2791	1721	466	91	467	18	28
Active # of dApps	1,350	604	346	66	299	16	19
# of Active dApp Users	944k	392k	277k	43k	229k	38k	18.2k
# of Transactions	219.5M	6.04M	189.8M	17.5M	36.3M	989k	11.22M
Transaction Vol. (\$)	\$ 2.03B	\$804.3M	\$727.9M	\$1.8M	\$463k	\$21.8M	\$13.8M

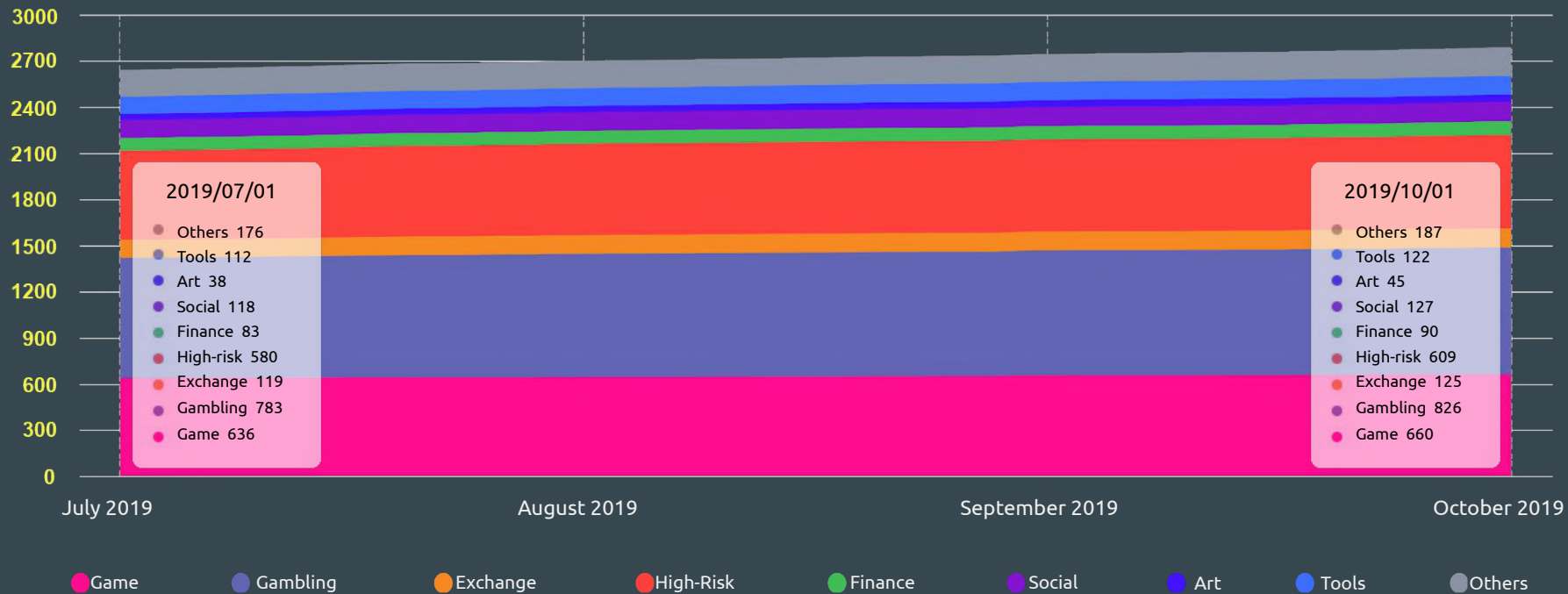
## Q3 dApp Activity Summary - by Category

**1,350** Active dApps - **604** Ethereum, **346** EOS, **66** Steem, **299** TRON, **16** TOMOCHAIN, **19** IOST.

	 Active dApps	 New dApps	 Transactions	 Volume (USD)	 Active Users	 New Users
Gambling	439	22	121,757,883	933,405,563.41	387,593	171,202
Game	282	24	37,094,655	5,954,966.16	120,330	66,244
High-risk	209	29	1,543,655	139,311,732.25	107,537	89,049
Others	99	12	3,059,652	3,387,113.27	50,082	15,745
Social	93	6	44,448,336	415,490,145.43	180,989	98,011
Exchange	83	9	7,122,815	124,062.88	69,695	31,371
Tools	62	10	947,304	1,134,807.49	27,632	19,189
Finance	57	7	2,226,086	533,503,175.26	153,776	138,195
Art	26	7	334,544	47,425.29	4,419	2,416
All	1,350	148	218,534,930	2,032,358,891.45	944,312	525,182

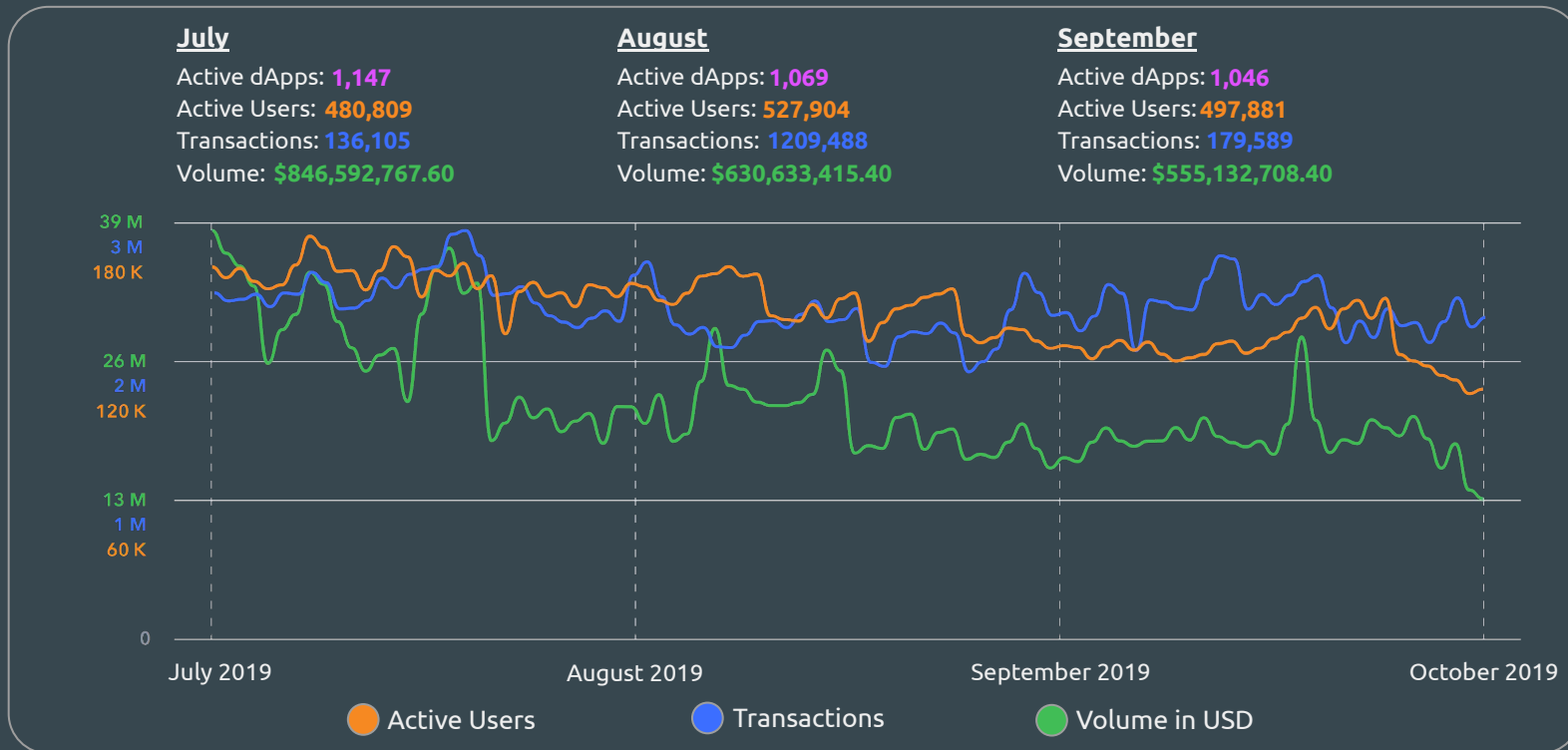
# Market Dominance by Dapp Category

2,791 Dapps by the end of Q3: 1,721 Ethereum, 466 EOS, 91 Steem, 467 TRON 18 TomoChain, 28 IOST.



## Q3 dApp Market Stats - by Month

**1,350** Active dApps, **944.31K** Active Users, **218.53M** Transactions, **\$2.03B** Volume.



## Q3 dApp Market Overview - User Analysis

**994k** Active Users in Q3 - **392k** Ethereum, **258k** EOS, **43k** Steem, **228k** TRON, **3.7k** Tomochain, **18.1k** IOST.

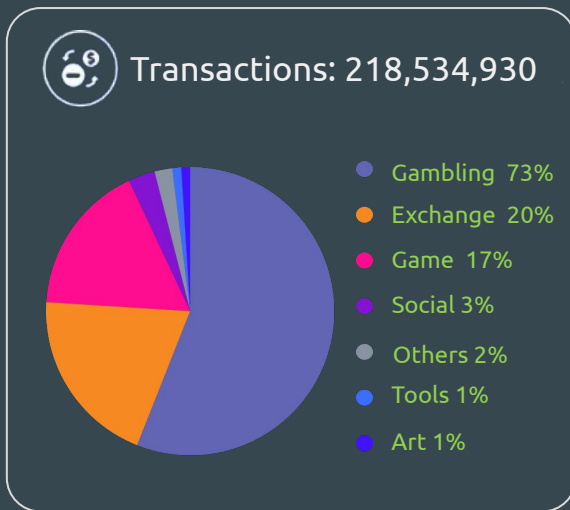
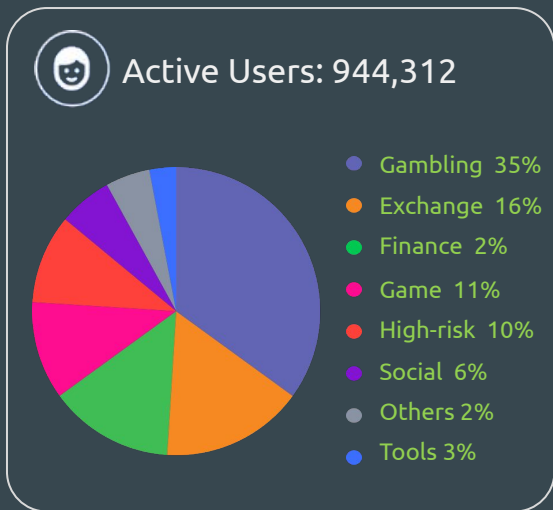
Category	⌘ All	⬡ ETH	⬠ EOS	⚡ STEEM	⚡ TRON	TomoChain	⚡ IOST
<b>Q3 Active Users</b>	994k	392k	258k	43,060	228k	3,759	18,189
<b>Total Users</b>	1.79M	1.76M	519k	570k	915k	5,798	23,042
<b>Q3 New</b>	+525k	+310k	+87k	+11k	+115k	+1,957	+8,490
<b>User Activeness</b>	24.88%	22.26%	49.77%	7.54%	24.98%	64.83%	78.94%
<b>Δ Q2 Data</b>	30.14%↓	11.93%↓	22.86↓	24.11↓	54.81↓	11.86↓	19.57↓
<b># Mainnet Address</b>	83.1M	76.1M	1.5M	1.32M	3.72M	120k	335k
<b>Q3 New</b>	+7.64M	+6.96M	+216k	+35k	+489k	+21k	+8.4k
<b>Dapp User %</b>	4.57%	2.31%	34.60%	43.08%	24.59%	4.79%	6.86%
<b>Δ Q2 Data</b>	5.73%↓	+10.77%	+3.72%	0.68%↓	1.21%↓	+23.08%	+6.86%





## Q3 dApp Market Summary - in Charts

1,350 Active dApps, 1.16M Active Users, 218.53M Transactions, \$2.03B Volume.



# CoinGecko @ Invest: Asia

# Invest: Asia 2019 by CoinDesk

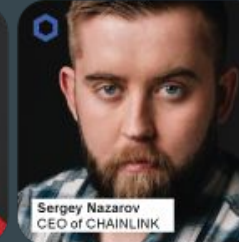
## CoinGecko Hosts Changelog

Changelog was a platform held during CoinDesk's Invest: Asia 2019 conference for industry-leading crypto projects to share their updates and developments.

In this year's Changelog stage, CoinGecko hosted and interviewed 15 different blockchain projects.

Some of these projects were featured in our Changelog Speaker Spotlight Series which introduced the speakers, their projects, and a quick overview of what they presented at Changelog.

Access the series here:  
<https://www.coin Gecko.com/buzz/changelog-2019>



## Follow Us



**THE END**