# Web3.0 Biweekly

2 September 2022 | AMTD Research



## Bitcoin mining difficulty spikes to near 1-year high

- Bitcoin mining difficulty increased ~9.3% on the last day of August, the second highest level of increase recorded.
- The spike in difficulty, which updates and adjusts about every two weeks, could be attributable to a few factors:
  - Miners ramping up production ahead of cooler months ahead
  - Waning heatwaves globally leading to more miners coming back online
  - Newer and more efficient mining rigs hitting the market, like the Bitmain S19 XP
- Bitcoin network hash rate has also risen by 12% since the last update on August 18.
- The spike comes after a period of declining hash rate and mining difficulty amid rising energy costs and heatwaves globally, as well as declining bitcoin prices hampering mining profitability.





# Contents

Market Performance Prices, Valuation, and Exchange Flows **Sector Updates** Layer-1 Blockchains — GBTC discount hits all-time-lows, a high ETH derivatives volume but futures market is bearish Stablecoins — USDT will not blanket-ban sanctioned addresses, MakerDAO debates to free float DAI DeFi — TVL falls by over 8% as crypto prices reflect Fed's hawkish stance NFT & Metaverse — Azuki floor price boosted 30-40% after Adrian Cheng revealed as buyer of 101 Azukis Regulatory Updates — FBI warns on DeFi hacks, Singapore plans tougher crypto rules for retail investors **Notable Tweets** 

# Market Performance



# Summary

#### 1. Prices

- One-Year Price Recap
- Layer 1 Price Recap (18 August 31 August 2022)
  - SOL leads losses as all major L1 tokens retrace from earlier gains two weeks ago
  - AVAX dropped the most before regaining slightly amid a report on alleged unethical business practices by Ava Labs, which were later denied
  - All major tokens retrace, following global market after Powell's signal that more rate hikes are to come
- **Protocol Price Recap** (18 August 31 August 2022)
  - Most coins follow wider trend of trending downwards

#### 2. Valuation

Market Cap to Active Addresses – ETH's price rally driven more by multiple expansion than network usage

#### 3. Exchange Flows

- Bitcoin outflows pick up pace as exchange balances reach 4-year lows
- Ethereum net position change spikes as we enter the final weeks before the Merge

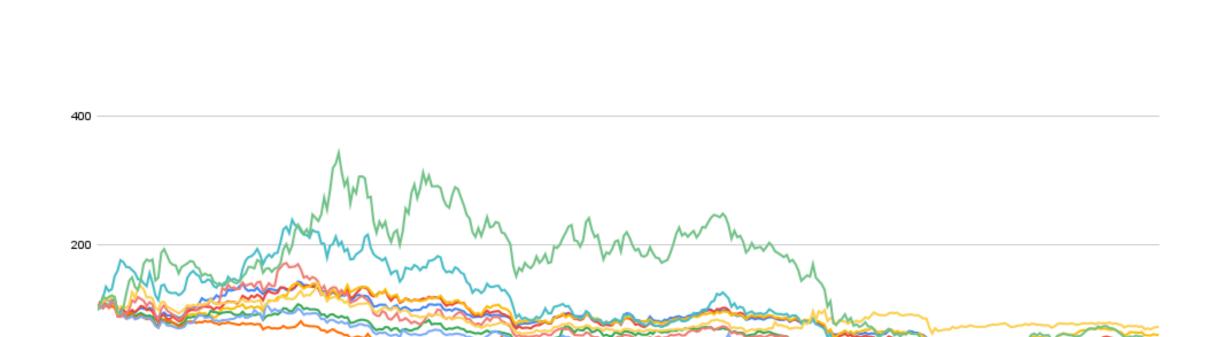


600

## One-Year Layer-1 Price Recap

#### Performance of Top-Ranking Crypto (One Year)

(31 August 2021 = 100)



3/1/2022

- ETH - BNB - XRP - ADA - SOL - DOGE - DOT - TRX - AVAX

4/1/2022

5/1/2022

6/1/2022

7/1/2022



10/1/2021

11/1/2021

9/1/2021

8/1/2022

12/1/2021

1/1/2022

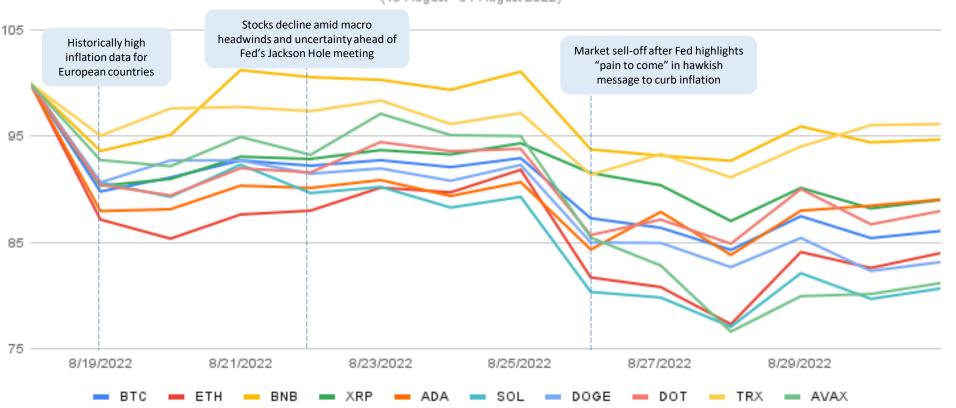
2/1/2022

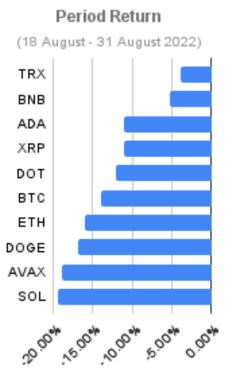
## Layer-1 Price Recap (18 August – 31 August 2022)

- SOL leads losses as all major L1 tokens retrace from earlier gains two weeks ago
- AVAX dropped the most before regaining slightly amid a report on alleged unethical business practices by Ava Labs, which were denied
- All major tokens retrace, following global market after Powell's signal that more rate hikes are to come

#### Performance of L1 Tokens (Two Weeks)

(18 August - 31 August 2022)





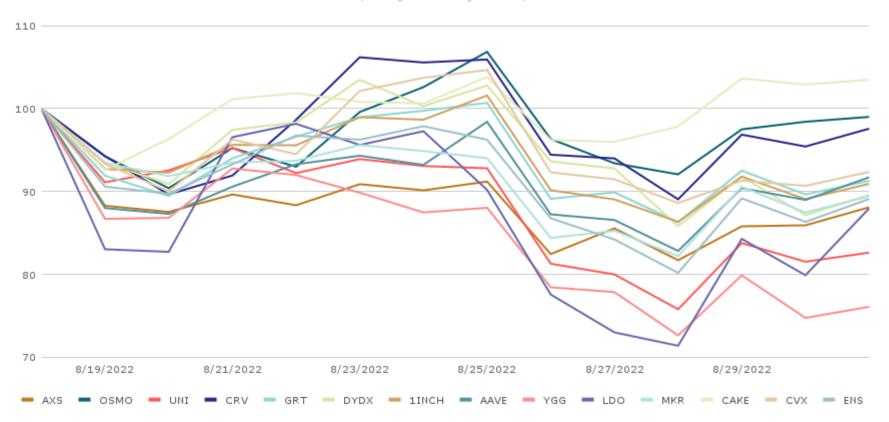


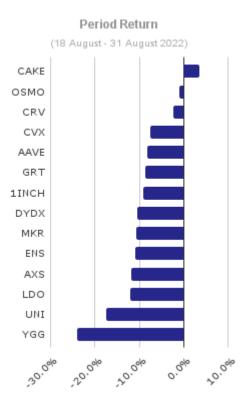
# Protocol Price Recap (18 August – 31 August 2022)

• Most coins follow wider trend of trending downwards

#### Performance of Protocol Coins (Two Weeks)

(18 August - 31 August 2022)







# Valuation – BTC and ETH Market Cap to Active Addresses





	ВТС	ETH
Valuation Multiple		
2017-2018 Run	2.2x	7.1x
2020-2022 Run	5.6x	13.4x
Network Usage		
2017-2018 Run	1.3x	7.0x
2020-2022 Run	1.5x	2.8x

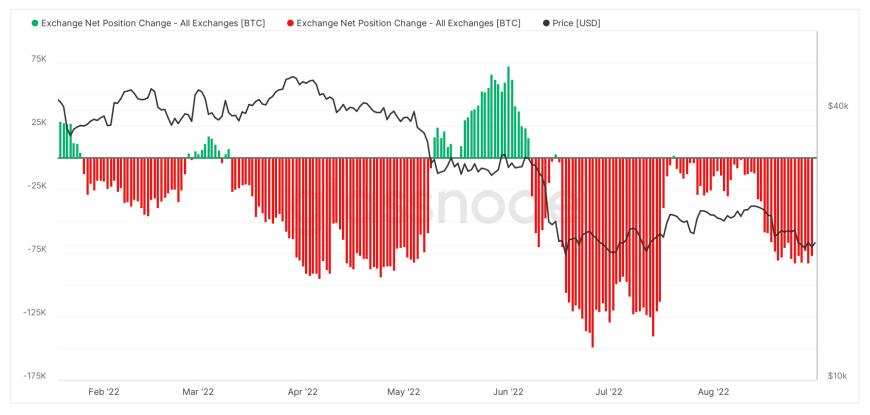
- Ethereum's price rally (30x+) in the 2020-2022 cycle was driven more by valuation multiple expansion (13x) than network activity increase (3x).
- The market cap to active address for ETH spiked as price speculators bet on the Merge event while active addresses continue to fall.



Note: As of 31 Aug 2022

# Bitcoin – outflows increase as exchange balances continue to decline to 4yr+ lows



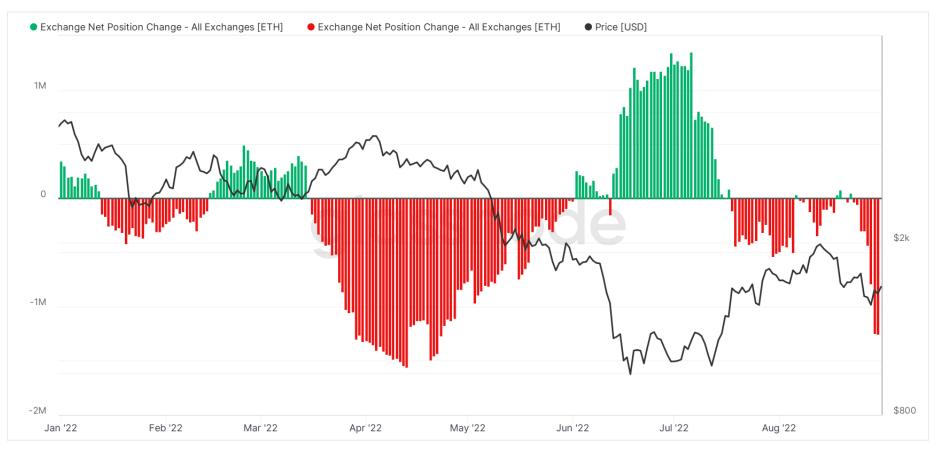


glassnode © 2022 Glassnode. All Rights Reserved.



# **Ethereum** – net position change spikes as we enter the final weeks before the Merge

Ethereum: Exchange Net Position Change [ETH] - All Exchanges



glassnode © 2022 Glassnode. All Rights Reserved.



# Layer-1 Blockchains

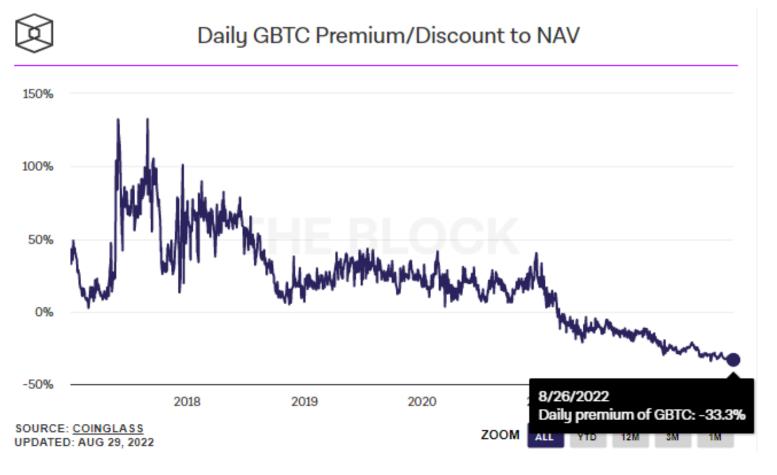


# Layer-1 Summary (18 August – 31 August 2022)

- Bitcoin (2W: -13.7%)/(YTD: -58.0%) GBTC discount to NAV continues to widen
- Ethereum (2W: -15.1%)/(YTD: -58.4%) 2. High volume in derivatives, but futures market seems bearish
- Avalanche (2W: -25.2%)/(YTD: -82.4%) 3. Videos exposing alleged unethical business practices with law firm
- **News and Headlines**

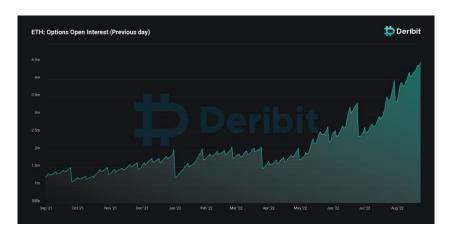


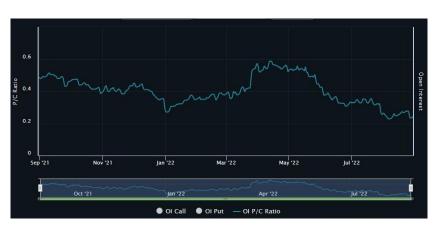
## **Bitcoin** – GBTC Discount to NAV Continues to Widen



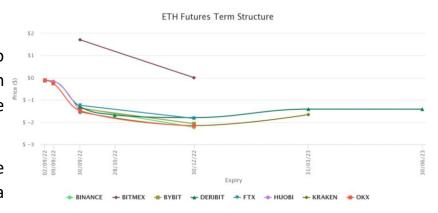
- GBTC's Discount to NAV continues to widen, reaching a near all-time low of 33.3%.
- The OTC-traded Bitcoin fund by Grayscale, has been trading at a discount since early 2021.
- The fund trades at a discount since it cannot be readily converted to actual BTC unlike an ETF, and it charges a 2% annual management fee.
- The discount has widened over time as the SEC denied Grayscale's bid to convert the trust to an ETF, which would have arbitraged-away the discount.
- While Grayscale sued SEC after the rejection, the ruling is not expected in the near-term, so the trust's aspirations to become an ETF remains murky.

# Ethereum – High volume in derivatives, but futures market seems bearish





- Ethereum options market continues to grow with open interest signaling high interest in the market ahead of the Merge.
- Market expectations are high for the Merge with put/call ratio, reaching a one-year low of 0.22 before climbing back up to ~0.25.
- Meanwhile, the futures market seems to be bearish as it is currently in backwardation, while the perps market is also having negative funding rate, implying bearish market sentiment.







# Avalanche – Videos exposing alleged unethical business practices with law firm

- An article from Crypto Leaks alleged that Ava Labs and crypto attorney Kyle Roche's law firm colluded unethically to gain a competitive advantage in the **crypto industry.** However, many have noted the article to be a "hit piece" or "conspiracy" due to the murky background of Crypto Leaks.
- The article included a series of secret recordings purportedly showing Kyle Roche of Roche Freedman LLP admitting to a secret partnership with Emin Gün Sirer and Kevin Seknigi, CEO and COO of Ava Labs respectively.
- The videos claimed that the two parties had a deal to provide legal services to Ava Labs in exchange for AVAX tokens (apparently 1% of supply) and Ava Labs equity and would frequently use litigation as a tool to hurt competitors, misdirect US regulators, and to use the litigation process (discovery) to obtain detailed information about the inner workings of competing companies.
- Gün Sirer and Kyle Roche both issued a statement denying any "secret pact" between the two and any unethical business dealings at Ava Labs. Roche suggested that statements from the secret video were recorded illegally and under the influence of alcohol and published without context.
- In the aftermath, the attorney withdrawn from several class action lawsuits against Binance, Tether, and other large crypto companies.



How could anyone believe something so ridiculous as the conspiracy theory nonsense on Cryptoleaks? We would never engage in the unlawful, unethical and just plain wrong behavior claimed in these self-serving videos and inflammatory article. Our tech & team speak for themselves.

5:46 AM · Aug 29, 2022 · Twitter Web App



Things that discredit CryptoLeaks:

- fanfiction-style dramatic writing, worse than tabloids
- clearly bad faith & biased reporting
- paying to promote their own tweets
- their previous defending ICP articles

Things that look bad for Ava Labs:

- the video lol

8:48 PM · Aug 29, 2022 · Twitter for iPhone



### News & Headlines

#### **Alameda Research Co-CEO Resigns**

Sam Trabucco, co-CEO of Alameda Research, announced on Twitter that he will be stepping down as co-CEO of Alameda Research for personal reasons and will continue on as an advisor as he has been gradually scaling down his role for the past few months. Caroline Ellison will continue as CEO. [The Block]

#### **Coinbase Launches Liquid Staking Ahead of Merge**

Coinbase announced the launch of its own liquid staking token, cbETH, ahead of Ethereum's Merge in September. The token can be used to stake ETH through Coinbase and as collateral in DeFi protocols. cbETH is similar in concept to stETH on Lido. [CoinDesk]

#### **Coinbase Launches Nano Ether Futures**

Coinbase launched its nano ETH futures on its derivatives platform, following its nano BTC futures launch in June. Each contract will represent 1/10 of an ETH, providing an accessible way for the retail trader. [The Block]

#### **CME Group Launches Euro-Denominated BTC & ETH Futures**

The world's largest financial derivatives exchange has launched its eurodenominated BTC and ETH futures contracts. The cash-settled contracts will be set at 5 BTC and 50 ETH each. [BeInCrypto]

#### **Tornado Cash Developer Arrest Draws Protest**

Over 50 people protested the arrest of blockchain developer Alexey Pertsey, who was suspected to be involved with the Tornado Cash protocol, in Amsterdam's Dam Square last week. The developer was arrested two days after the US Treasury Department sanctioned the crypto mixer. [CoinDesk]

#### **Traditional Brokerages in South Korea Plans Crypto Offerings**

According to local reports, seven traditional brokerages in South Korea have began planning the launch of their own crypto exchanges in 2023. The firms have already applied for preliminary approval and established standalone firms to run the exchanges. Samsung Securities and Mirae Asset Securities are among those cited. [CoinDesk]

#### **Crypto ATM Operator to go Public in SPAC Deal**

The world's largest operator of crypto ATMs, Bitcoin Depot, is planning to list on Nasdag through a SPAC merge at an estimated value of US\$885 million. The deal is expected to complete by Q1 of 2023. Bitcoin Depot has a network of over 7,000 locations across North America. [CoinDesk]

#### Binance to Help Busan to Develop Blockchain Industry

Binance has signed a memorandum of understanding (MoU) with Busan, South Korea, to help the city to develop its blockchain ecosystem and promote the Busan Digital Asset Exchange. Binance will provide technological and infrastructure expertise, and will establish a presence in Busan by the end of 2022, based on the MoU. [CoinDesk]



### News & Headlines

#### **Bitcoin Miner Argo Reduces Hash Rate Guidance by 42%**

Bitcoin miner Argo Blockchain is slowing its growth for the rest of the year by reducing its year-end hash rate guidance to 3.2 EH/s from 5.5 EH/s, a 42% reduction. The change reflects the company's expectations for the delivery and deployment of Intel's Blockscale ASIC chips, according to Argo's CEO. [The Block]

#### Celsius Says it has Enough Cash to Last Through the Year

During a bankruptcy call with creditors, bankrupt crypto platform Celsius Network's CFO testified that it now likely has enough money to fund its operations until the end of 2022. It had previously estimated that it would run out of cash by October. [CoinDesk]

#### **Australian Gas Chain OTR to Accept Crypto**

Australian gas station chain OTR announced that it would begin accepting crypto across its 175 gas and convenience store locations in a partnership with Crypto.com and DataMesh Group. OTR's parent company, Peregrine Corp, plans to roll out the service to 250 other retail stores as well. [OTR]

#### **Ethermine to Drop PoW Ethereum Post-Merge**

Ethermine, the largest Ethereum mining pool, will not support a PoW fork of Ethereum after the Merge. Since the Merge will making mining obsolete, Ethermine's mining pool will switch to withdrawal-only mode after the blockchain successfully switches to PoS. [The Defiant]

#### **Hodinaut Placed Under Interim Judicial Management**

Singapore-based crypto platform Hodinaut was placed under interim judicial management, a type of creditor protection, by a Singapore court. The judge appointed Ee Meng Yen Angela and Aaron Loh Cheng Lee, care of EY Corporate Advisors Pte. Ltd., as Hodlnaut's interim judicial managers. [CoinDesk]

#### **Indonesia Tech Giant GoTo Enters Crypto Market**

Indonesia's largest tech company, GoTo Gojek Tokopedia, is beginning its venture into cryptocurrency with the acquisition of local crypto exchange Kripto Maksima Koin. The company noted that it wanted to become a "diverse money management hub." [CoinDesk]

#### Temasek to Lead US\$100 million Funding Round for Animoca Brands

Singapore's state investor Temasek Holdings will be leading a US\$100 million funding round for Animoca Brands, a game publisher-turnedblockchain investor, becoming especially active in investing during the recent market downturn. Animoca Brands was valued at US\$6 billion when it raised US\$75 million earlier this summer. [Bloomberg]



# Stablecoins



# Stablecoins Summary (18 August – 31 August)

#### **Centralized Stablecoins**

USDT will not blanket-ban sanctioned addresses, will wait on specific requests from authorities instead

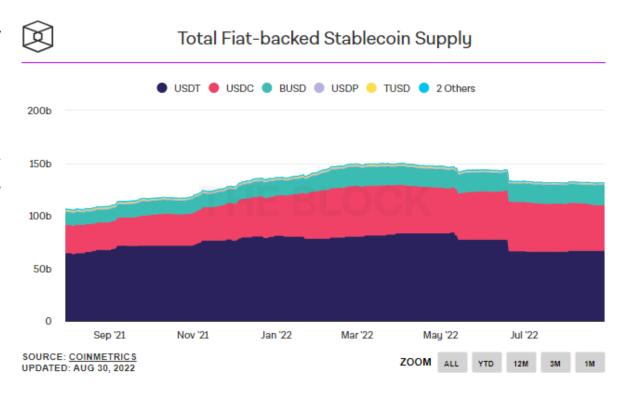
#### **Decentralized Stablecoins** 2.

MakerDAO debates to free float DAI, Curve stablecoin may launch in September



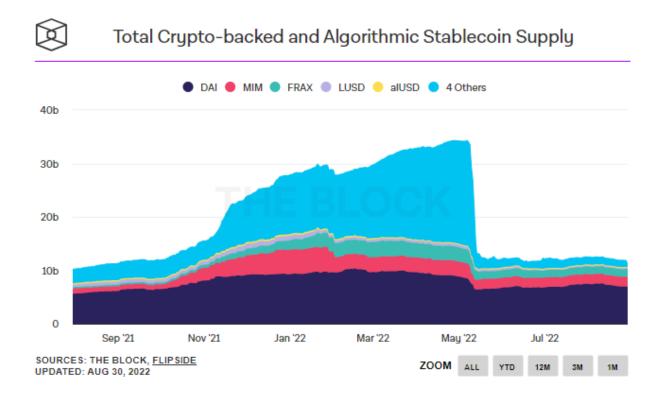
## Centralized Stablecoin Updates – USDT will not blanket-ban sanctioned addresses

- In the past two weeks:
  - Total stablecoin supply and centralized stablecoin supply was nearly unchanged at US\$142.2b (-0.0%) and US\$131.3b (-0.0%) respectively.
  - USDT supply was unchanged at US\$66.6b and UDSC supply dropped 1% to US\$45b, affected by its blacklisting of Tornado Cash-related addresses.
- After the issuer of USDC blacklisted Tornado Cash's wallet addresses, Tether said that it will not freeze any sanctioned addresses holding USDT unless specifically asked to by law enforcement.
  - The issuer of USDT has noted that it is in near-daily communications with law enforcement and has not been asked to freeze any assets.
  - The stark difference from USDC has garnered some cheers around the community, though Tether is more active in banning addresses.
  - Tether has banned 717 addresses, while only 82 USDC addresses have been banned.





Decentralized Stablecoin Updates – MakerDAO debates to free float DAI, Curve stablecoin launch imminent?



- Co-founder of MakerDAO Rune Christensen has posted on the MakerDAO forum to suggest that "Maker has no choice but to prepare to free float Dai."
- The post comes weeks after brief suggestions that DAI should depeg from USD after the Tornado Cash sanction debacle.
- Christensen suggests DAI has to "limit attack surface" (being compliant to crackdown) by reducing its exposure to real-world assets.
- The suggestion would likely cause DAI to free float away from USD at a stable and predictable rate.
- Meanwhile, Curve Finance founder suggested that Curve's native stablecoin crvUSD may launch in September.



# DeFi



# DeFi Summary (18 August – 31 August 2022)

#### 1. TVL by Chain

TVL falls by over 8% as crypto prices reflect Fed's hawkish stance

#### 2. TVL by Protocol

- Avalanche TVL dropped 14.8%, mostly from the last three days, likely affected by the negative press on Ava Labs
- Polygon TVL declined 15.5%, with TVL leader MM Finance facing a 33.6% TVL drop
- Cronos TVL fell nearly 16%, with leading protocols all facing double-digit %TVL declines, including MM Finance as well

#### 3. DeFi Revenue

- Protocol revenue have in general declined week over week, with a few outliers, in line with the broader market
- **4. DeFi Valuation** Uniswap and Curve relatively overvalued based on P/TVL and P/Revenue respectively

#### 5. Top DEX Pools

- Pool liquidities drop in general due to decline in token prices
- DAI-USDC pool (Uniswap) liquidity drops 58% amid regulatory risks on USDC and DAI uncertainty

#### 6. Top Pools in terms of TVL/APY - Yield Farming

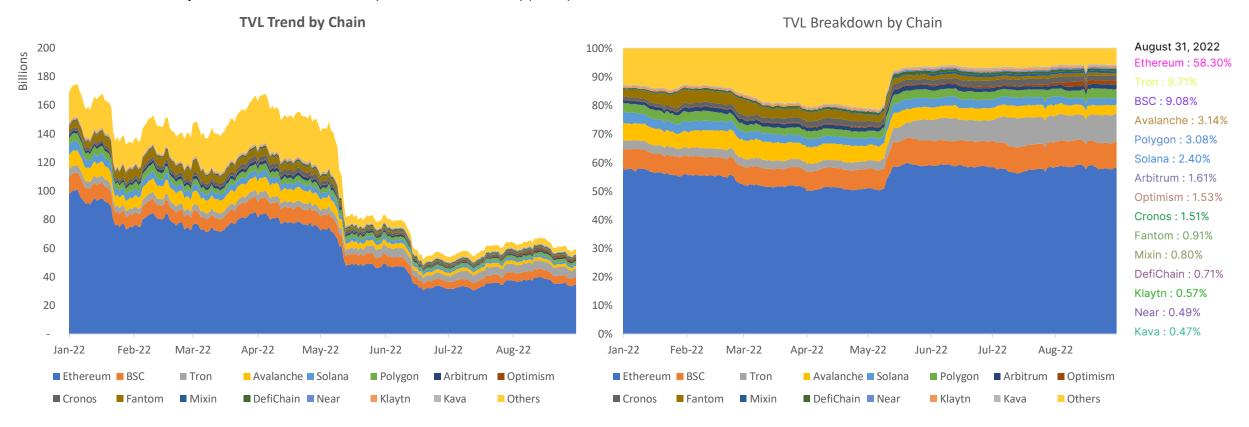
APYs increase as crypto prices decline

#### 7. Noteworthy DeFi Protocols

- **Synthetix** weighs ditching inflationary tokenomics
- **Compound** errornously freezes cETH market
- BendDAO's liquidity crisis
- **Arbitrum** Nitro upgrade complete



### TVL Overview by Chain – TVL falls by over 8% as crypto prices reflect Fed's hawkish stance



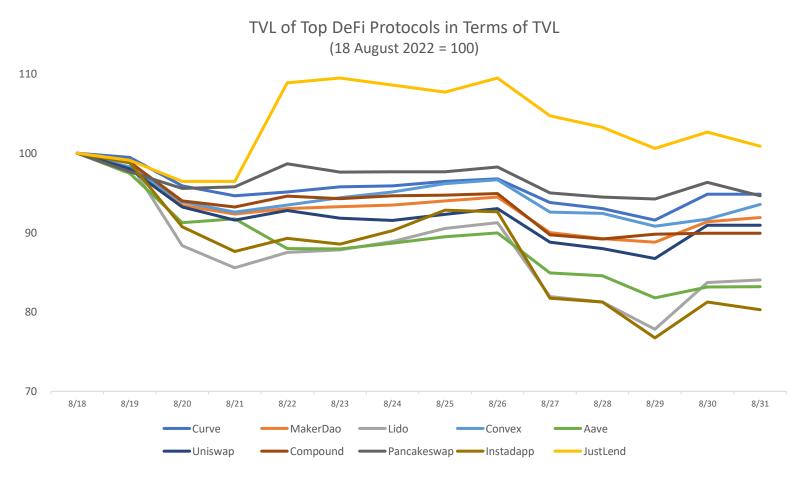
Total TVL dropped 8.1% to US\$59.2bn driven by a decline in crypto prices. During the period, notable winners/losers were:

- Avalanche TVL dropped 14.8%, mostly from the last three days, likely affected by the negative press on Ava Labs.
- Polygon TVL declined 15.5%, with TVL leader MM Finance facing a 33.6% TVL drop.
- Cronos TVL fell nearly 16%, with leading protocols all facing double-digit %TVL declines, including MM Finance as well.



## TVL Overview by Protocols

- Overall TVL declined with native token price depreciation, in-line with global market performance

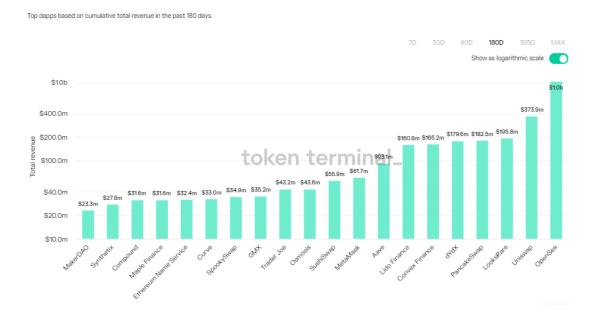


	18 Aug TVL	31 Aug TVL	Period
Procotol	(USD m)	(USD m)	Change
MakerDAO	8,696	7,991	-8.1%
Uniswap	6,161	5,602	-9.1%
Pancake	3,209	3,037	-5.4%
Compound	2,977	2,676	-10.1%
Instadapp	2,674	2,147	-19.7%
Lido	8,124	6,826	-16.0%
Uniswap	4,506	4,215	-6.5%
Curve	6,111	5 <i>,</i> 795	-5.2%
Convex	4,506	4,215	-6.5%
Aave	7,291	6,065	-16.8%
JustLend	3,380	3,410	0.9%



## DeFi Revenue - DeFi Protocols

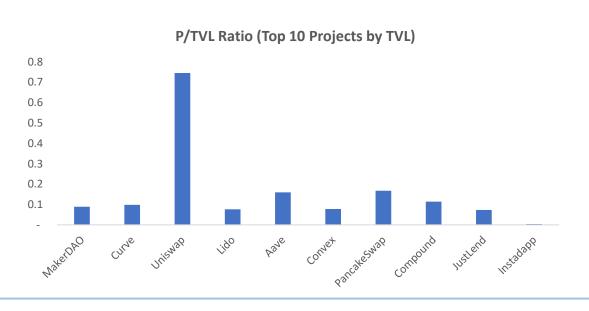
- Protocol revenue have in general declined week over week, with a few outliers, in line with the broader market where crypto prices retrace from earlier runs.
- Lyra, a decentralized exchange to trade crypto options, entered the top 20 list in revenue, likely boosted by high interest for Ethereum options ahead of the Merge.

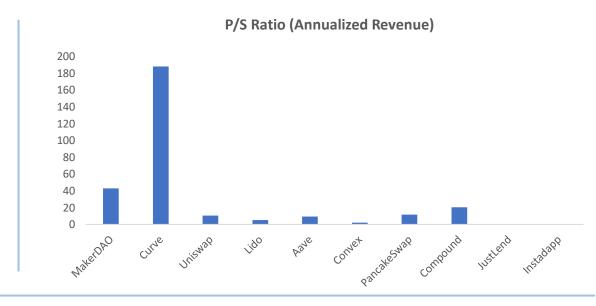


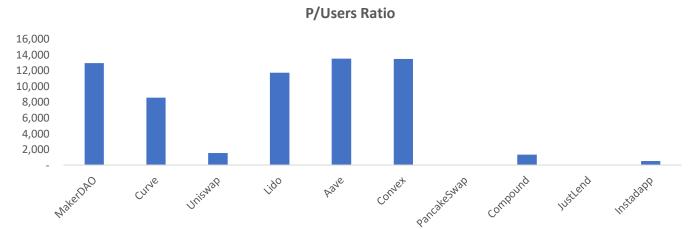
Project	venue (US\$)	evenue d (US\$)	18	Revenue Od (US\$)	7d Change	30d Change
OpenSea	\$ 10.8m	\$ 50.8m	\$	1,034.5m	-7.5%	-9.5%
Uniswap	\$ 10.7m	\$ 47.6m	\$	370.8m	-11.0%	-0.8%
Lido Finance	\$ 5.5m	\$ 25.5m	\$	160.0m	-8.4%	26.5%
dYdX	\$ 4.6m	\$ 23.9m	\$	178.5m	-15.4%	4.3%
Convex Finance	\$ 3.7m	\$ 20.7m	\$	163.7m	-13.5%	0.3%
PancakeSwap	\$ 4.0m	\$ 19.5m	\$	181.2m	-6.9%	39.9%
Aave	\$ 2.7m	\$ 11.8m	\$	92.5m	-4.5%	39.0%
GMX	\$ 2.4m	\$ 7.2m	\$	34.9m	18.6%	44.6%
Synthetix	\$ 1.7m	\$ 5.8m	\$	27.7m	20.9%	-39.6%
SushiSwap	\$ 1.0m	\$ 5.5m	\$	55.3m	-24.3%	14.7%
1inch	\$ 0.2m	\$ 5.2m	\$	22.7m	36.4%	344.1%
LooksRare	\$ 1.0m	\$ 4.9m	\$	193.8m	1.6%	-14.0%
Maple Finance	\$ 0.6m	\$ 3.9m	\$	31.4m	-48.3%	-2.0%
ENS	\$ 0.8m	\$ 3.7m	\$	32.2m	-26.2%	-37.2%
MetaMask	\$ 0.7m	\$ 3.4m	\$	48.8m	-28.2%	0.8%
X2Y2	\$ 0.6m	\$ 3.0m	\$	13.5m	-9.5%	-11.1%
Balancer	\$ 0.4m	\$ 2.1m	\$	21.4m	8.1%	-12.0%
Lyra	\$ 0.5m	\$ 2.0m	\$	10.2m	0.4%	105.5%
Compound	\$ 0.4m	\$ 1.8m	\$	31.3m	-16.5%	5.0%
Trader Joe	\$ 0.3m	\$ 1.8m	\$	42.6m	-17.0%	-22.9%

Note: As of 31 August 2022

## DeFi Valuation





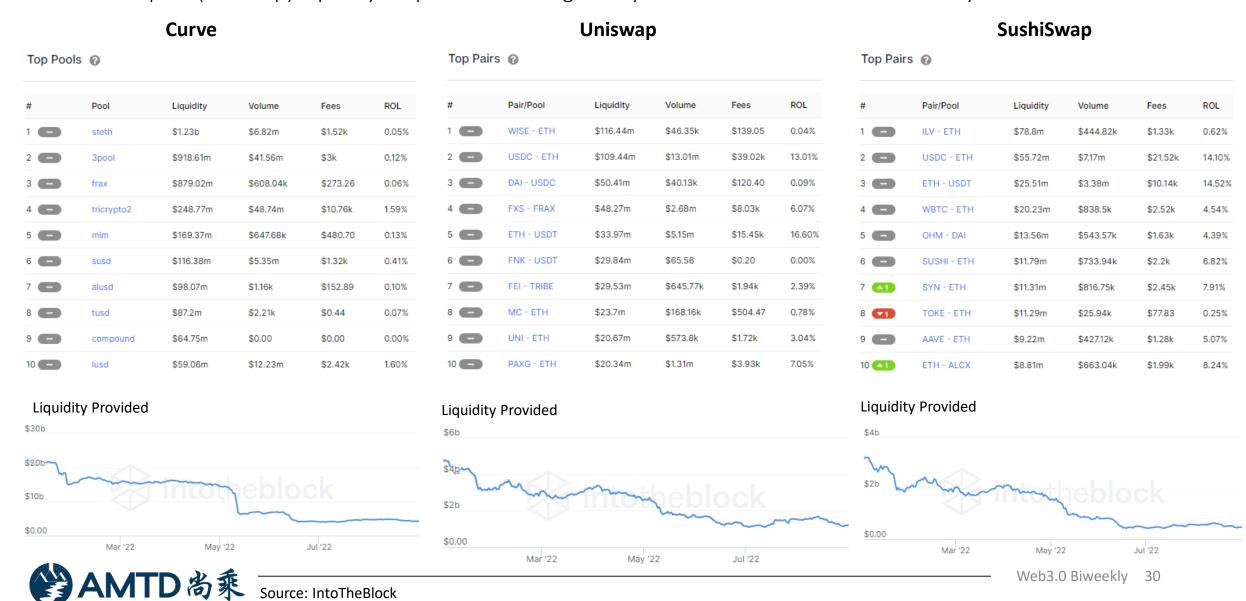




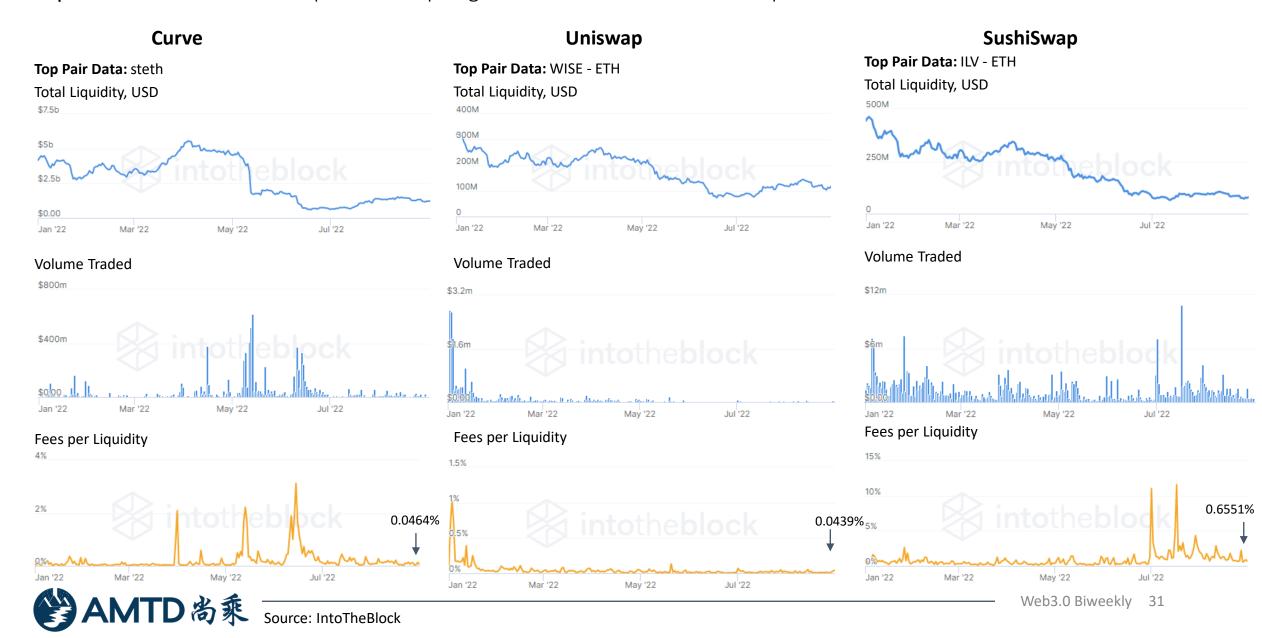
Note: As of 31 August 2022. Protocols with a ratio of 0 means insufficient data.

### Top DEX Pool Trends

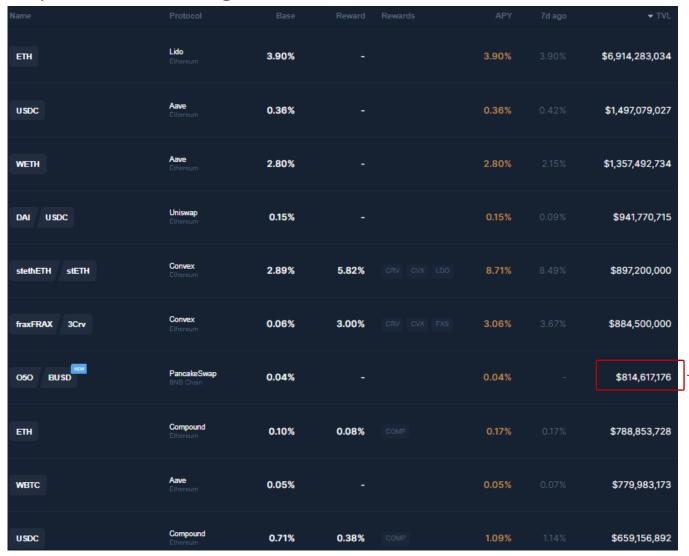
- DAI-USDC pool (Uniswap) liquidity drops 58% amid regulatory risks on USDC and DAI uncertainty



**Top DEX Pool Trends –** Pool liquidities drop in general due to decline in token prices



# Top Yield Farming Pools - TVL



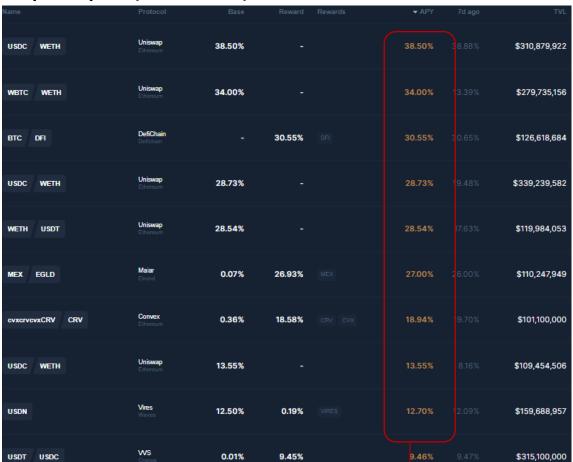
New pool on Pancakeswap - O5O, the "freshest brand" in web3



Note: As of 31August 2022

# Top Yield Farming Pools - APY

### Top APY pool (TVL > 100m)



Top APY pool (TVL > 10m)

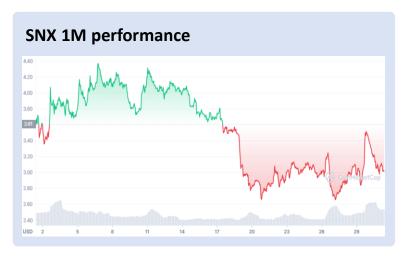
Name	Protocol	Base	Reward	Rewards	▼ APY	7d ago	TVL
ws wcro	WS Cronos	0.22%	119%		120%		\$98,770,000
LDO WETH	<b>Uniswap</b> Ethereum	99.77%			99.77%		\$10,669,717
WETH USDC	<b>Uniswap</b> Optimism	90.39%			90.39%		\$11,428,963
CRV (locker)	StakeDAO Ethereum		85.31%		85.31%		\$22,218,926
USDC WETH	<b>Uniswap</b> Polygon	75.27%			75.27%		\$12,832,210
USDC OSMO	<b>Osmosis</b> Osmosis	65.83%			65.83%		\$32,100,000
WBTC OSMO	<b>Osmosis</b> Osmosis	60.81%			60.81%		\$12,700,000
WETH OSMO	<b>Osmosis</b> Osmosis	50.57%			50.57%		\$15,300,000
BADGER WBTC	<b>Balancer</b> Ethereum	0.43%	49.49%		49.92%		\$16,440,792
CRV	StakeDAO Ethereum	45.52%			45.52%	54.62%	\$21,636,019

APYs increase as crypto prices decline

Note: As of 31 August 2022

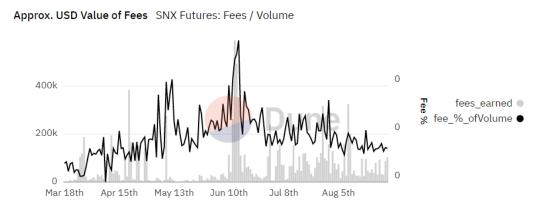


# Noteworthy DeFi Protocols – Synthetix weighs ditching inflationary tokenomics



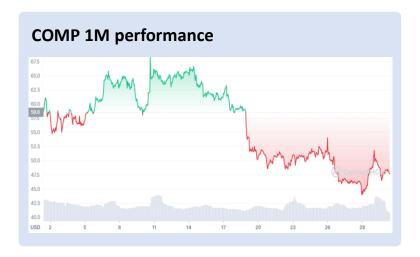


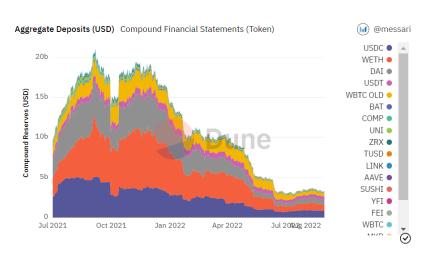
- Synthetix founder Kain Warwick submitted a proposal to "turn off the money printer,"
  meaning to put an end to the protocol's inflationary tokenomics by capping the SNX
  supply at 300 million tokens.
- Warwick noted that token inflation was intended to bootstrap the network, and it has done so "extremely effectively." This could be seen from Synthetix's skyrocketing volume in the past two months and emerging as the second largest protocol on Optimism.
- The fee yield from atomic swaps and perps is growing and have reached a scale that it is suitable to wind down the inflation, as well as a very "memeable 300 million mark," according to Warwick.
- The fixed supply would ensure that the sUSD fee yield per SNX will grow alongside protocol revenue, helping with SNX token valuation models as well.



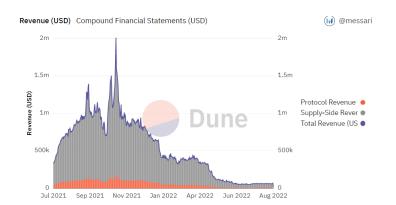


# Noteworthy DeFi Protocols – Compound erroneously freezes cETH market





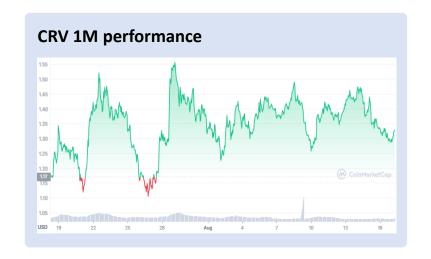
- Compound Finance recently executed a governance proposal which indirectly led to the freezing of its Compound ETH (cETH) market for a week, since the remedial proposal will take seven days to go into effect.
- The governance proposal updated the price feed that Compound uses, and while it was audited by three auditors, the price feed contained an error that caused people borrowing and lending cETH to have their transactions reverted.
- The error also caused Compound's front end to temporarily stop working.
- A new proposal has been created to the previous price feed and will take seven days to go into effect. While funds are not at risk, it would take seven days to unfreeze the cETH market.

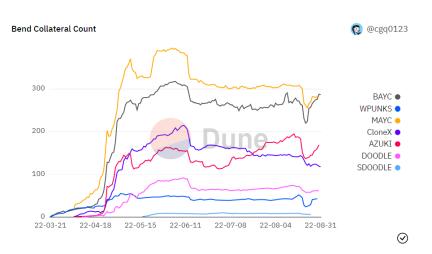






# Noteworthy DeFi Protocols – BendDAO's liquidity crisis





- BendDAO, an NFT lending platform, survived a disastrous liquidity crisis amid a sharp decline in blue-chip NFT collections, such as Bored Ape Yacht Club.
- The majority of loans taken on BAYC and MAYC were during its near-peak of 125+ and 30+ floor prices, meaning that the prolonged dip in NFT prices put such loans in liquidation risk.
- 2.8% of BAYC supply were in the BendDAO wallet, and over 45 BendDAO loans were at risk of being liquidated. ETH depositors worried about the potential crisis also withdrew their ETH, leading to a bank run of the platform's ETH wallet from 10K ETH to just 5 ETH.
- The crisis was partially abated as some depositors went back to the platform, and some borrowers repaid their loans.
- The failure in the system was partially due to the platform's parameters it had high minimum bod requirements and a 48-hour ETH lock-up period for bidding. It deterred buyers from participating in liquidation auctions, especially in a market downturn, where prices may decline further within the two days of lockup.
- In a proposal with emergency parameter changes, co-founder CodeInCoffee wrote "We are sorry that we underestimated how illiquid NFTs could be in a bear market when setting the initial parameters."

# Noteworthy DeFi Protocols – Arbitrum Nitro upgrade complete



Name	Send ETH	Swap tokens
<b>↓</b> Loopring	\$0.02	\$0.39 🗸
→ ZKSync	\$0.02	\$0.05 ~
Arbitrum One	\$0.03	\$0.09 ~
Optimism	\$0.06	\$0.09 ~
Boba Network	\$0.08	\$0.23 🗸
Aztec Network	\$0.24	- 🗸
Polygon Hermez	\$0.25	- 🗸
<b>♦</b> Ethereum	\$0.43	\$2.15 🗸

- Ethereum Layer 2 solution successfully upgraded the Abitrum One network to Arbitrum Nitro stack, which will help to increase throughput, lower fees, and better experience for developers.
- Specifically, the new improvements include:
  - Increased throughput 7-10x higher than before
  - Advanced calldata compression reduces amount of data posted to L1, which reduces transaction costs
  - Ethereum L1 gas compatibility align pricing and accounting for EVM with Ethereum
  - Additional L1 interoperability better synchronization with L1 Block numbers
- The upgrade benefits from the new prover, so the Arbitrum engine can be written and compiled using standard WebAssembly code instead of the previous custom-designed language, helping improve developer experience.



# NFT & Metaverse



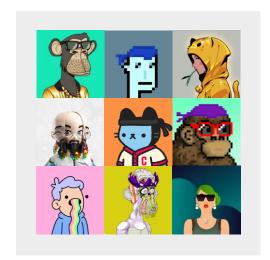
# NFT & Metaverse Summary

- 1. NFT Dashboard Azuki floor price boosted 30-40% after Adrian Cheng revealed as buyer of 101 Azukis
- 2. Not much action in the ETH NFT space, with volume carrying previous trend
- 3. OpenSea and Magic Eden daily users in a downtrend as Sudoswap takes a portion
- 4. Sudoswap NFT AMM gains popularity
- 5. GameFi & Play-to-Earn Limit Break Raises US\$200mn
- 6. News & Headlines



# NFT Dashboard

Project	Floor Price	14D	YTD
"Blue Chip" Projects			
Bored Ape Yacht Club	72.4Ξ	-5.8%	13.8%
CryptoPunks	67.5Ξ	-1.5%	4.4%
Tier-A Projects			
Azuki	8.0Ξ	17.4%	128.3%
Clone X	7.0Ξ	0.4%	75.2%
Cool Cats	2.4Ξ	1.6%	-82.3%
CyberKongz Genesis	15.0Ξ	-3.2%	-74.1%
Doodles	8.5Ξ	16.4%	28.4%
Mutant Ape Yacht Club	12.6Ξ	-3.3%	8.0%
Otherdeeds	1.8Ξ	2.4%	-74.0%
World of Women	2.8Ξ	6.2%	37.0%

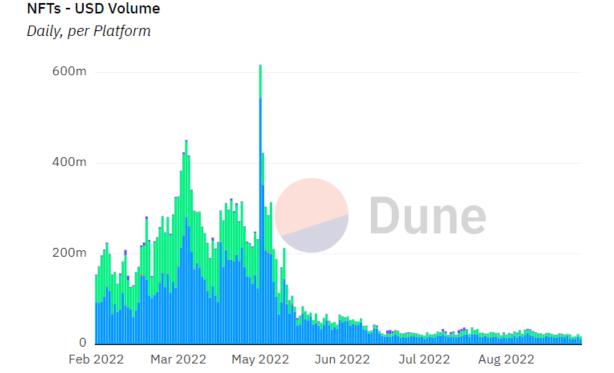


Top Sales of the Week*	Price
BAYC #2909	\$428.0k
BAYC #9315	\$298.3k
BAYC #8590	\$286.0k
Axie Land (-30, 14)	\$235.8k
BAYC #6160	\$203.0k
BAYC #8607	\$197.2k
Otherdeed #3095	\$195.9k
BAYC #2553	\$191.2k
BAYC #9932	\$184.0k
BAYC 3989	\$179.5k

Top Collections of the Week* (by volume)	Volume (USD)
Bored Ape Yacht Club	\$12.9m
ImmutaSwap.io	\$8.8m
DigiDaigaku	\$6.6m
Otherdeed	\$5.0m
Mutant Ape Yacht Club	\$4.7m
Moonbirds	\$4.6m
CloneX	\$3.9m
ENS	\$3.7m
Azuki	\$3.1m
Art Blocks	\$2.8m



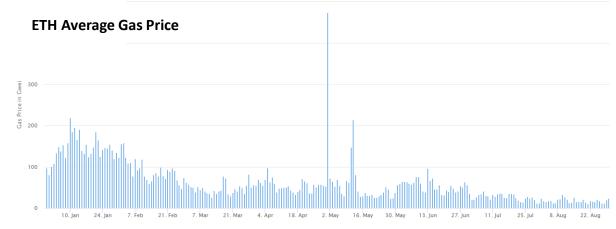
# Not much action in the ETH NFT space, with volume carrying previous trend







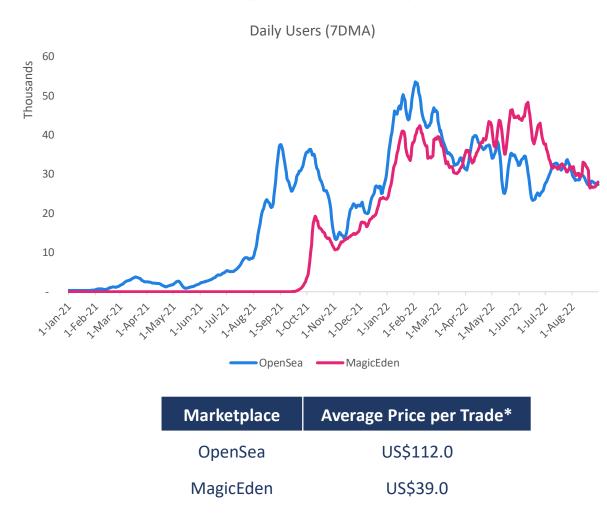
- Daily NFT volume in ETH continues the previous trend in prior periods. Monthly volume since June has been on a continuous downtrend.
- LooksRare continues to maintain ~30-60% of OpenSea's volume.
- Azuki floor price bounced ~30-40% after Adrian Cheng, or @LastKnightEth, prominent Hong Kong entrepreneur and CEO of New World Development, revealed he was behind the acquisition of 101 Azukis.



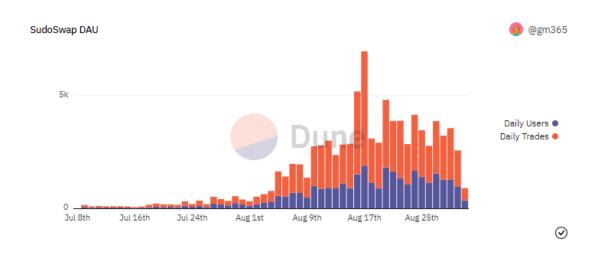


Web3.0 Biweekly 41

# OpenSea and Magic Eden daily users in a downtrend as Sudoswap takes a portion



- The number of daily active users on Magic Eden and OpenSea are similar at ~27K/day but seems to be on a downward trajectory in recent weeks.
- While this may be explained by lack of volume for NFTs as a whole, the emergence of Sudoswap AMM NFT marketplace might have played a small role.
- Sudoswap has recorded nearly 21,000 unique users and DAU ranges from 1,000-1,500 in the past two weeks.

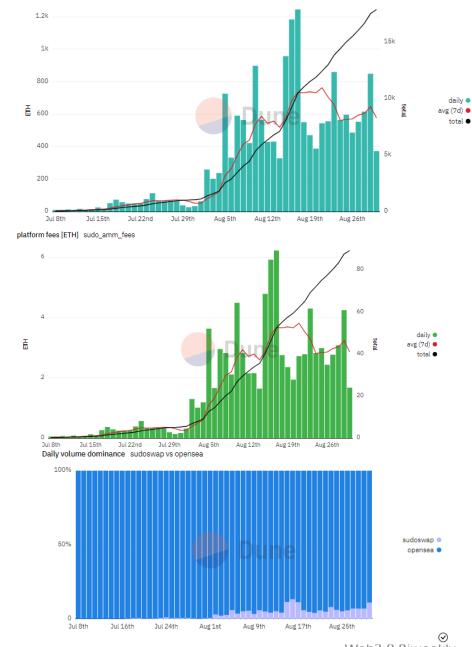




Note: \*7 days

## Sudoswap NFT AMM Gains Popularity

- Sudoswap is a decentralized NFT marketplace using an automated market maker model (AMM), aiming to be liquidity-efficient.
- The marketplace gained popularity with its low fees and royalty-free transfers, as well as the ability to earn trading fees.
- Users buy and sell NFTs through liquidity pools. This allows for NFT owners to sell NFTs instantaneously, improving capital efficiency and liquidity.
- Each pool is run by a sole liquidity provider (LP), and the LP is able to set a **bonding curve** that will adjust the selling price of an NFT after each sale. This will help to **adjust collection prices** if demand rises or falls.
- Meanwhile, LPs are able to earn fees whenever other users buy/sell NFTs, which opens up a new revenue stream for users.
- However, its royalty-free nature has earned some debate in the community as project creators are unable to enforce a creator fee on the decentralized platform.
- Sudoswap's popularity will only continue to grow, with market aggregator Gem.xyz integrating the exchange recently. In a comparison with OpenSea, Sudoswap has reached >10% daily volume dominance in August.



volume [ETH] sudo\_amm\_volume



# GameFi & Play-to-Earn

### **Limit Break Raises US\$200mn**

- Limit Break, a web3 startup building massively multiplayer online (MMO) games, announced that it raised US\$200mn over two rounds of funding.
- Paradigm, Standard Crypto, and Mino Games chair Josh Buckley led the round, with additional backers such as FTX, Coinbase, and Positive Sum.
- The startup was founded by former CEO and CTO of mobile gaming firm Machine Zone, known for games such as Game of War and Mobile Strike.
- Limit Break intends to incorporate web3 elements into the freeto-play model (or free-to-own) where genesis NFTs can be minted for free.

### **Dapp 90D Protocol Revenue**





## News & Headlines

### Animoca Brands Japan Raises US\$45 million

Animoca Brands Japan has raised US\$45 million split by its parent company Animoca Brands and Japanese bank MUFG Bank. The raise will help to secure local NFT and metaverse licenses and investments. [CoinDesk]

### Adrian Cheng Reveals He is @LastKnightEth

On August 25, Adrian Cheng, entrepreneur and CEO of New World Development in Hong Kong, revealed himself as @LastKinghtEth on Twitter, which acquired 101 Azukis earlier in the year. It has made prior investments in RTFKT and Animoca Brands and noted that the investment in 101 Azukis was only the beginning. [@LastKnightEth]

### **Meta Expands NFT Integration to Facebook**

Meta announced that it would expand its NFT integration functions to Facebook, following earlier integrations with Instagram. The company had earlier announced a global expansion of its Instagram NFT integration pilot to 100 countries worldwide. [CryptoBriefing]



PROOF, the NFT collective founded by venture capitalist Kevin Rose, featuring hit projects like PROOF Collective and Moonbirds, announced that it raised US\$50 million in a Series A funding round led by a16z and joined by Seven Seven Six, True Ventures, Collab+Currency, Flamingo DAO, SV Angel, and VaynerFund. [Proof]

Hermes plans metaverse fashion shows, crypto, and NFTs Luxury brand Hermes is revealed to be preparing to enter web3 after filing a trademark application for NFTs, cryptocurrencies, virtual goods marketplace, and virtual fashion & fashion shows. [CoinTelegraph]

Eminem & Snoop Dogg's MTV VMA Performance in Otherside Eminem and Snoop Dogg performed inside the Otherside during the MTV VMA ceremony, resembling a music video with Bored Ape avatars rapping on a floating stage in the metaverse. The duo's performance were in stark contrast with other performers during the event, which were in person. [@vmas]

### **Sotheby's Hires NFT Specialist**

Art auction house Sotheby's has hired an NFT specialist to join its digital art team. Brian Beccafico, or @Arthemort, is the newest addition to Sotheby's growing involvement in NFTs. [The Block]



# Regulatory Updates



## Regulatory Updates

- The US Federal Deposit Insurance Corporation sent cease-and-desist letters to five crypto companies, including FTX US, over alleged misrepresentations of users' deposit insurances. The companies apparently made false representations stating or suggesting that certain crypto-related products are FDIC-insured or that stocks held in brokerage accounts are FDIC-insured, when it is not the case.
- The Monetary Authority of Singapore is planning to introduce new regulations to make it more difficult for retail investors to trade cryptocurrencies, as it seems like they are "irrationally oblivious" about the risks.
- The FBI issued a warning issued a warning on attacks against DeFi platforms, saying that hackers are increasingly exploiting smart contract vulnerabilities to steal cryptocurrency, and suggests victims to contact a local FBI field office.
- The US has extradited Denis Mihagloviv Dubnikov, an alleged cryptocurrency money launderer from the Netherlands. Dubnikov will face a fiveday jury trial in October and if convicted, faces a maximum sentence of 20 years in prison. The Department of Justice cited that Dubnikov laundered ransom payments extracted from victims of Ryuk ransomware attacks.
- South Korean regulators are holding talks with authorities worldwide on various cryptoassets issues, including the regulation of stablecoins where there was now a consensus among regulators that it needed to be strengthened.
- The Japanese Financial Services Agency is considering making improvements on its virtual currency taxation system ahead of the country's 2023 tax reform in order to prevent the overseas outflow of crypto startups.
- The Korea Financial Intelligence Unit, South Korea's anti-money laundering authority, flagged 16 foreign crypto firms that have been operating in the country without proper regulatory approval. The exchanges include KuCoin and Poloniex, among others.
- The Monetary Authority of Singapore has asked some digital asset firms to submit data about their business activity ahead of expected changes to its crypto regulation policies following the collapse of Three Arrows Capital, which was based in Singapore, as well as Singaporeregistered Terraform Labs, Vauld, and Hodlnaut.



# Regulatory Updates

- Recipient of crypto airdrops in South Korea could potentially be taxed at up to 50%, according to a government official, based on local inheritance tax laws.
- The Australian government will begin its reform agenda for cryptocurrency assets, noting that Australians are experiencing a digital revolution across all sectors while regulation is struggling to keep pace. Australia will be the first to undergo token mapping as part of this reform.
- Tether issued a statement to not freeze Tornado Cash addresses en masse but will wait for law enforcement instructions as its usual policy.
- The US District of Columbia's attorney general announced a tax fraud lawsuit against MicroStrategy and its former CEO Michael Saylor. Saylor, a noted bitcoin bull, allegedly evaded over US\$25 million in D.C. taxes by misrepresenting his residence as either Florida or Virginia instead of D.C.



# Regulatory Updates – Regulatory Tracker

#### **G20+ Crypto Regulatory Tracker** August 2022 **Crypto Framework** Stablecoin Reg Country Tax AML/CFT **Travel Rule CBDCs** ablaArgentina Australia $\overline{\mathbf{v}}$ $\overline{\mathbf{V}}$ $\overline{\mathbf{V}}$ Brazil $\checkmark$ Canada $\overline{\mathbf{v}}$ V China 0 0 0 0 0 European Union Hong Kong $\checkmark$ Regulatory process not initiated India Regulation underway Indonesia $\overline{\mathbf{V}}$ $\checkmark$ $\checkmark$ Japan Regulation in place V Mexico V $\overline{\mathbf{V}}$ Prohibition Russia Saudi Arabia Singapore $\sqrt{}$ $\overline{\mathbf{V}}$ South Africa South Korea Switzerland Turkey United Kingdom United States abla $\checkmark$



# Notable Tweets



## If crypto should be treated the same...



Gary Gensler • Aug 23

There's no reason to treat the crypto market differently from the rest of the capital markets just because it uses a different technology...

Read my recent Op-Ed:



wsj.com

The SEC Treats Crypto Like the Rest of the Capital Markets



17 971

C 2,549

₾

Cobie 🕗 @cobie

Replying to @GaryGensler

sounds good, spot etf then?

4:14 AM · Aug 23, 2022 · Twitter Web App

348 Retweets 23 Quote Tweets 7,674 Likes

Mark Cuban on Gensler's Op-Ed



Come in and talk to who? Set up an appointment how ? You using Calendly these days? Since you understand crypto lending/finances, why don't you just publish bright line guidelines you would like to see and open it up for comments?



On Tether's decision on bans



@bantg

remember those who fight the toughest battles for you. infinite respect to tether for taking a stance.

Tether @ @Tether\_to · Aug 24

Tether Holds Firm on Decision Not To Freeze Tornado Cash Addresses, Awaits Law Enforcement Instruction

tether.to/en/tether-hold...

12:07 AM · Aug 25, 2022 · Twitter Web App

## How credible is CryptoLeaks?



Things that discredit CryptoLeaks:

- fanfiction-style dramatic writing, worse than tabloids
- clearly bad faith & biased reporting
- paying to promote their own tweets
- their previous defending ICP articles

Things that look bad for Ava Labs:

- the video lol

8:48 PM · Aug 29, 2022 · Twitter for iPhone

189 Retweets 17 Ouote Tweets 2.616 Likes

## Overwhelming support for atzoy's lawsuit



#### AYOOO YOU ACTUALLY SENT \$100k!!!!!????



Replying to @koreanjewcrypto and @atozy ill send 100k or somethin later when at pc

7:36 PM · Aug 24, 2022 · Twitter for iPhone

262 Retweets 57 Quote Tweets 6,597 Likes



#### IMPORTANT DISCLOSURES

#### **Analyst Certification**

We, Brian Li and Eugene Chin, hereby certify that (i) all of the views expressed in this research report reflect accurately our personal views about the subject company or companies and its or their securities; and (ii) no part of my compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed by us in this research report, nor is it tied to any specific investment banking transactions performed by AMTD Global Markets Limited.

#### **AMTD Global Markets Limited**

Address: 23/F - 25/F, Nexxus Building, 41 Connaught Road Central, Hong Kong

Tel: (852) 3163-3288 Fax: (852) 3163-3289

#### **GENERAL DISCLOSURES**

The research report is prepared by AMTD Global Markets Limited ("AMTD") and is distributed to its selected clients.

This research report provides general information only and is not to be construed as an offer to sell or a solicitation of an offer to buy any security in any jurisdiction where such offer or solicitation would be illegal. It does not (i) constitute a personal advice or recommendation, including but not limited to accounting, legal or tax advice, or investment recommendations; or (ii) take into account any specific clients' particular needs, investment objectives and financial situation. AMTD does not act as an adviser and it accepts no fiduciary responsibility or liability for any financial or other consequences. This research report should not be taken in substitution for judgment to be exercised by clients. Clients should consider if any information, advice or recommendation in this research report is suitable for their particular circumstances and seek legal or professional advice, if appropriate.

This research report is based on information from sources that we considered reliable. We do not warrant its completeness or accuracy except with respect to any disclosures relative to AMTD and/or its affiliates. The value or price of investments referred to in this research report and the return from them may fluctuate. Past performance is not reliable indicator to future performance. Future returns are not guaranteed and a loss of original capital may occur.

The facts, estimates, opinions, forecasts and any other information contained in the research report are as of the date hereof and are subject to change without prior notification. AMTD, its group companies, or any of its or their directors or employees ("AMTD Group") do not represent or warrant, expressly or impliedly, that the information contained in the research report is correct, accurate or complete and it should not be relied upon. AMTD Group will accept no responsibilities or liabilities whatsoever for any use of or reliance upon the research report and its contents.

This research report may contain information from third parties, such as credit ratings from credit ratings agencies. The reproduction and redistribution of the third party content in any form by any means is forbidden except with prior written consent from the relevant third party. Third party content providers do not guarantee the timeliness, completeness, accuracy or availability of any information. They are not responsible for any errors or omissions, regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability of fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content. Credit ratings are statements of opinions and are not statements of fact or recommendations to purchase, hold or sell securities. They do not address the suitability of securities for investment purposes, and should not be relied on as investment advice.

To the extent allowed by relevant and applicable law and/or regulation: (i) AMTD, and/or its directors and employees may deal as principal or agent, or buy or sell, or have long or short positions in, the securities or other instruments based thereon, of issuers or securities mentioned herein; (ii) AMTD may take part or make investment in financing transactions with, or provide other services to or solicit business from issuer(s) of the securities mentioned in the research report; (iii) AMTD may make a market in the securities in respect of the issuer mentioned in the research report; (iv) AMTD may have served as manager or comanager of a public offering of securities for, or currently may make a primary market in issues of, any or all of the entities mentioned in this research report or may be providing, or have provided within the previous 12 months, other investment banking services, or investment services in relation to the investment concerned or a related investment.

AMTD controls information flow and manages conflicts of interest through its compliance policies and procedures (such as, Chinese Wall maintenance and staff dealing monitoring).

The research report is strictly confidential to the recipient. No part of this research report may be reproduced or redistributed in any form by any means to any other person without the prior written consent of AMTD Global Markets Limited.

