

Blockchain Open-Source Developers Signal Strength of Web3 Community

August 2022

Executive Summary

The crypto contagion — fueled by the collapse of Terraform Lab's UST stablecoin, Celsius Network (CEL) pausing withdrawals and Three Arrows Capital defaulting on its loans — has been especially rough on digital currency holders and crypto startups looking for funding. Since January, a 60% loss in crypto market cap wiped \$1.3 trillion, and VC investments tumbled 25.6% to about \$9.3 billion, down from a record \$12.5 billion invested during last year's first half, according to *Crunchbase News*.

Unflustered by prices and investments declining across the board, ***Telstra Ventures conducted health checks on 3 top blockchain ecosystems -- Ethereum, Solana and Bitcoin – by applying data science tools and methodologies to open-source developer communities.*** Led by Donghai He, PhD, Telstra Ventures' data science team analyzed 1,000 active organizations contributing to more than 30,000 open source Web3 projects (*see last slide for full methodology*), reveal:

- ***Blockchain developers' participation in Web3 communities remains robust, as measured by compound annual growth rates in the number of unique active contributors per project and per ecosystem each month.***
- ***Venture and corporate investors are well aligned with 7 of the top 10 most active projects across key ecosystems.***
- ***Only 4 to 5 of the top 10 most active projects in each ecosystem are backed by venture and corporate investors, suggesting unfunded opportunities remain.***

According to General Partner Yash Patel, blockchain developers' commitment to Web3 ecosystems forms the basis for the sector's medium- and long-term viability, despite short-term price fluctuations. He contends developers' decisions about which protocols to use will be driven by use case and will point to the winning protocols.

The Web3 ecosystem continues to thrive

Ethereum remains the largest and strongest developer community

- Ethereum's contributor community has grown at a 24.9% compound annual growth rate over the past 4 years since January 1, 2018.
- Since Ethereum's peak of price in November 2021, the number of monthly active contributors has a drawdown of 9.0%.

Solana is growing rapidly and is on the heels of Ethereum

- Solana's contributors have grown at a 173.0% compound annual growth rate over the past 4 years since January 1, 2018.
- Since Solana's peak price of \$204.35 in November 2021, the number of active contributors has declined 21.0%.

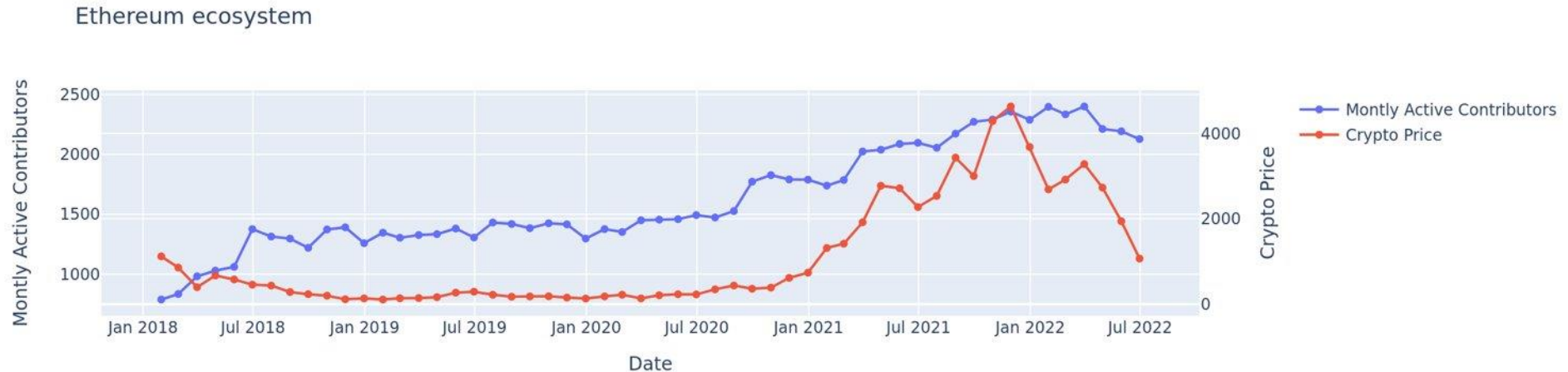
Bitcoin continues slow and steady growth through price volatility

- Bitcoin has seen a 17.1% compound annual growth rate in the number of contributors during the past 4 years since January 1, 2018.
- Since the peak of price of crypto Bitcoin in October 2021, the number of active contributors has grown 8.2%.

Institutional investors are aligned with robust blockchain development in each of the 3 primary ecosystems, and investment opportunities remain

- 7 of the 10 fastest growing projects are backed by VCs or by corporations.
- 4 or more of the 10 fastest-growing repositories in each ecosystem are backed by VCs or corporate investors.

Ethereum is the Strongest & Largest Community

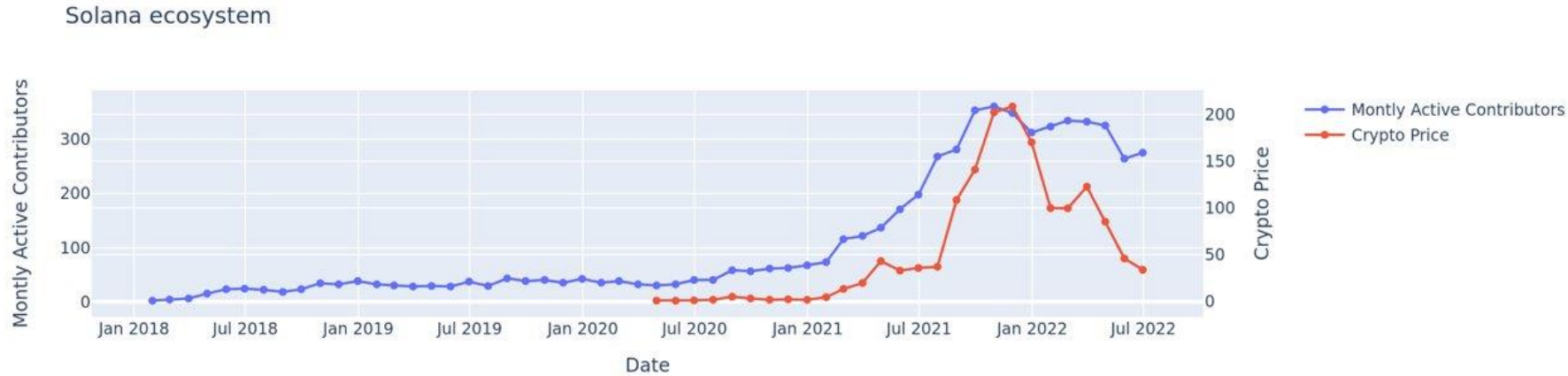


Ethereum's upcoming merge will transition from proof of work to proof of stake, which implies the network will be able to process over 100,000 transactions per second, which is much faster and more scalable than currently. Developers are quite excited about it (see the recent price rally) and we expect more innovations to come as different chains try to outdo each other.

Ethereum is growing 24.9% compound annual growth rate of contributors during the volatility of the past 4 years since January 1, 2018.

Since the peak of price of crypto Ethereum at November 2021, the contributors has a declined 9.0%.

Solana Developer Community is Growing Rapidly

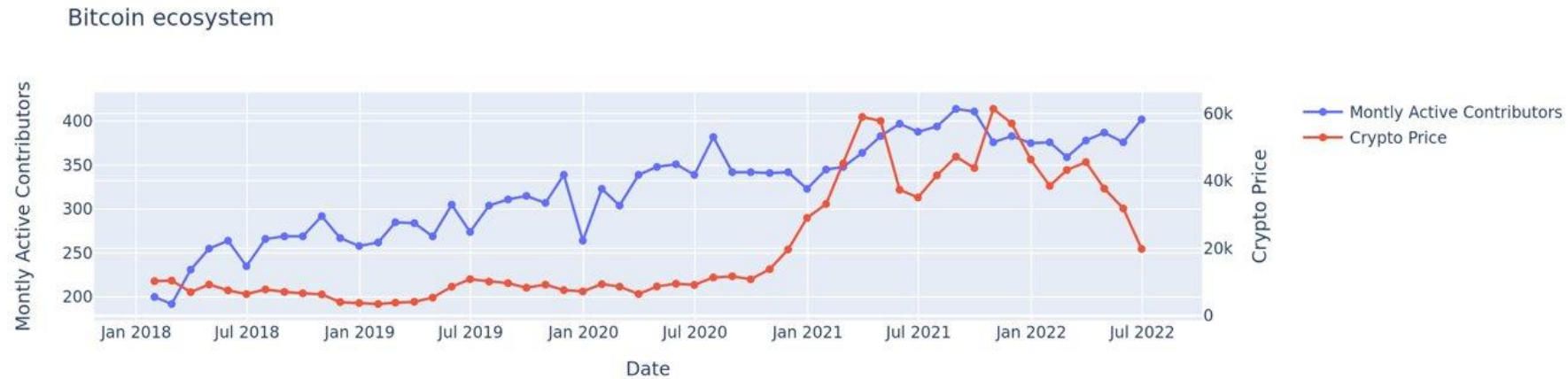


The Solana developer community began taking shape in late 2017, and the first block was created in 2020.

Solana is growing 173.0% compound annual growth rate of contributors during the volatility of the past 4 years since January 1, 2018.

Since Solana's peak price of over \$200 in November 2021 prices have dropped 75% during the same timeframe, the number of active contributors has seen a small dip and declined of 21.0%.

Steady Growth for Bitcoin's Developer Community



Bitcoin has seen a steady growth in the number of active developers over the past 8 years.

Bitcoin's contributor community has seen a 17.1% compound annual growth rate during the past 4 years since January 1, 2018.

Since the peak of price of crypto Bitcoin in October 2021, the number of active contributors has grown 8.2%.

Top 10 Growth Repos Overall

7 of the 10 fastest growing projects are backed by VCs or by corporations.

Origin	Repo	Domain	Location	Funding Round
solana-labs	wallet-adapter	solana.com	USA	Corporate Round
ethereum	execution-apis	ethereum.org	CHE	Funding Round
dfinity	ic	dfinity.org	CHE	Funding Round
solana-labs	token-list	solana.com	USA	Corporate Round
olympusdao	olympus-contracts	olympusdao.finance		
chainsafe	dappeteer	chainsafe.io	CAN	Seed Round
metaplex-foundation	metaplex	metaplex.com		Series A
flashbots	mev-job-board	flashbots.net		
moralisweb3	youtube-tutorials	moralis.io	SWE	Series A
apeworx	ape	apeworx.io		

Ethereum Top 10 Growth Repos

Origin	Repo	Domain	Location	Funding Round
ethereum	execution-apis	ethereum.org	CHE	Funding Round
ourzora	nft-hooks	zora.co	USA	Seed Round
olympusdao	olympus-contracts	olympusdao.finance		
chainsafe	dappeteer	chainsafe.io	CAN	Seed Round
flashbots	mev-job-board	flashbots.net		
moralisweb3	youtube-tutorials	moralis.io	SWE	Series A
moralisweb3	react-moralis	moralis.io	SWE	Series A
ensdomains	ens-contracts	ens.domains		
smartcontractkit	hardhat-starter-kit			
smartcontractkit	documentation			

Solana Top 10 Growth Repos

Origin	Repo	Domain	Location	Funding Round
solana-labs	wallet-adapter	solana.com	USA	Corporate Round
solana-labs	token-list	solana.com	USA	Corporate Round
metaplex-foundation	metaplex	metaplex.com		Series A
solana-labs	ecosystem	solana.com	USA	Corporate Round
cryptoplease	cryptoplease-dart	cryptoplease.com		
bmresearch	solnet	blockmountain.io		
certusone	wormhole	jumppcrypto.com	USA	
project-serum	anchor			
project-serum	multisig			
solana-labs	dapp-scaffold	solana.com	USA	Corporate Round

Bitcoin Top 10 Growth Repos

Origin	Repo	Domain	Location	Funding Round
runonflux	flux	home.runonflux.io		
tatumio	tatum-js	tatum.io	GBR	Seed Round
bitcoin-teleport	teleport-transactions			
galoymoney	galoy	galoy.io	USA	Seed Round
hirosystems	clarinet	hiro.so	USA	Pre Seed Round
zeusln	zeus	zeusln.app		
mempool	mempool	mempool.space		
bitcoindvkit	bdk	bitcoindvkit.org		
tatumio	tatum-kms	tatum.io	GBR	Seed Round
sparrowwallet	sparrow			

Methodology

Telstra Ventures' data science team analyzed 1,000 active organizations contributing to more than 30,000 open source Bitcoin, Ethereum and Solana projects in the Web3 ecosystem, as defined by Electrical Capital in their 2021 report.

To be considered in the study, projects have a minimum 100 stars in related GitHub repositories and had active contributions between January and April 2022.

Monthly active contributors were tabulated at the repo level based on the number of unique contributors to that repo in a month. At the organization level, total unique contributors were tabulated based on the total unique contributors who committed to any organic repos (not forked from other repos) within that organization in a month. For a Web3 ecosystem, the total unique contributors who contributed to any organic repos (not forked from other repos) were tabulated within that ecosystem in a month.

GitHub activity growth rate is defined as the aggregated 1-month and 12-month percentage change in the total number of stars, forks, commits and unique contributors for each repo.

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Thank you