

April 18

2023



Digital Gold Institute: Vision

R&D center of excellence focused on teaching, training, consulting, and advising about scarcity in digital domain (bitcoin and crypto-assets) and the underlying blockchain technology

Bitcoin: Digital Gold



The most successful attempt at creating *scarcity* in the digital realm without a trusted third party. Bitcoin is the digital equivalent of gold, disruptive for our current digital civilization and the future of money and finance. More a cryptocommodity than a crypto-currency, Bitcoin aims to be world reserve asset.

Blo as

Blockchain: Hype or Reality?

Blockchain requires an intrinsic native digital asset to provide the economic incentives for the blockchain maintainers to be honest. Without the seigniorage revenues associated to its native asset, a blockchain system would need to select and appoint its maintainers, ultimately resorting to central governance.

Beyond Bitcoin: Timestamping



A timestamp demonstrates that a document existed in a specific status prior to a given point in time. Digital data can be securely timestamped though the attestation of its hash value in a blockchain transaction. What jewellery is for gold, timestamping could be for bitcoin: not essential but effective at leveraging its beauty.



Financial Services for Crypto

The most promising field, instead of technological applications of blockchain, is the development of financial services for crypto assets: those tools, practices, and facilities needed by institutional investors and high-networth individuals. Finance might not need blockchain, but the blockchain economy needs new financial services.

Digital Gold Institute: Activities

R&D center of excellence focused on teaching, training, consulting, and advising about scarcity in digital domain (bitcoin and crypto-assets) and the underlying blockchain technology

Consulting



Becoming one of our <u>partners</u> means empowering your business with a proper understanding of Bitcoin, crypto assets, and blockchain technology. It is a strategic choice that will allow you to leverage unique opportunities while avoiding the irrational hype that pollutes these topics.

Training



We offer training and education about Bitcoin, crypto assets, blockchain, distributed ledger, smart contracts, and cryptography: the program is based on the <u>Bitcoin and Blockchain</u> <u>Technology</u> course taught at Milano-Bicocca and other universities.

Research



Our research activity includes quarterly reports on the bitcoin and blockchain ecosystem and the thesis works of our students. Anyway, the bulk of the activity is happening at the Crypto Asset Lab (CAL), a joint research initiative with the University of Milano-Bicocca.

>>>

Development

We <u>write code</u> and love to get our hands dirty in programming and technology.

Check out our <u>OpenTimestamps calendar</u> free facility and <u>btclib</u>, an open-source Python library intended for teaching/learning/using bitcoin, its blockchain, and the associated elliptic curve cryptography.

Advisory and Training for Institutions, Consultancies, and Private Firms

Selected current and past collaborations

















Deloitte.















Agenda

- 1. Market
- 2. Ecosystem
- 3. Regulation
- 4. Technology
- **5.** The Institute





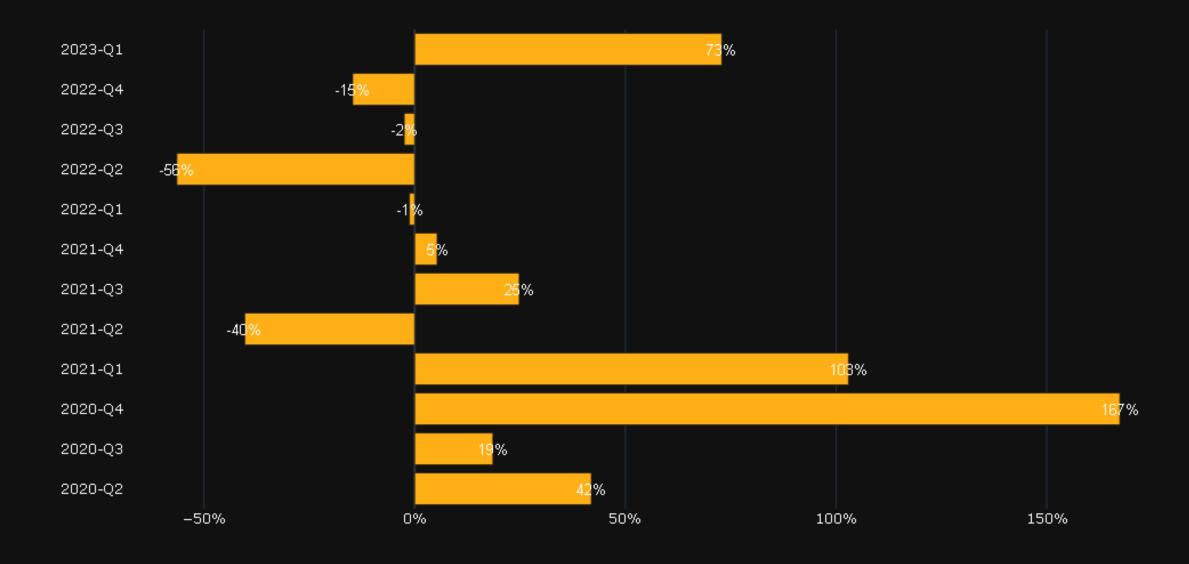
Bitcoin Performance 2023Q1 +73%



• After four negative quarters, Bitcoin records a positive quarter with a +73%.

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Bitcoin Quarterly Performances



Bitcoin Performance Last 12M -37%



• The rolling 12-month performance remains negative at -37%.

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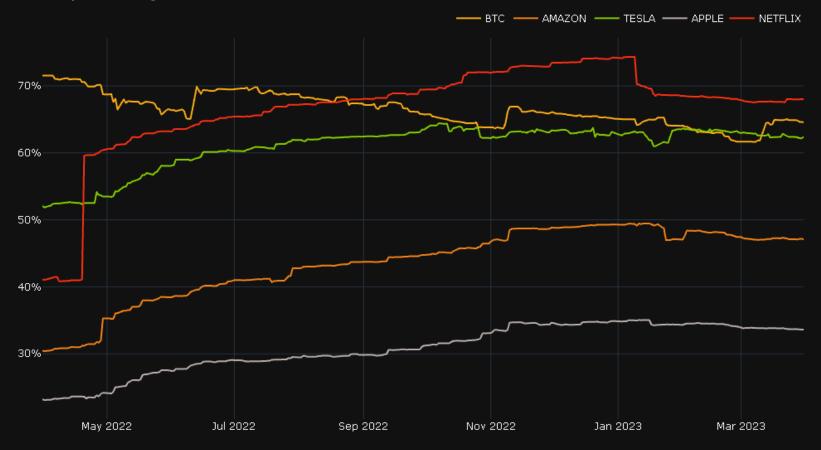
Bitcoin Yearly Performances



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Volatility of Best Performing Assets

252 Days Rolling Window



- The volatility of
 Bitcoin has decreased
 both in absolute
 terms and in relative
 terms compared to its
 peers the most
 performing
 investments of the
 last decade: Amazon,
 Tesla, and Netflix
- It can be noted that the absolute volatility of Bitcoin has decreased compared to the volatility of Netflix and has also been below the volatility of Tesla for a certain period of time.

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Asset Class 1Y Correlation Matrix

| втс | 100.00% | | | | | | | | | | | | | Corr = 100% | |
|-------------|---------|-----------|---------|-----------|---------|----------|---------|---------|---------|---------|---------|-----------------|---------|--------------|---------|
| GOLD | 25.54% | 100.00% | | | | | | | | | | | | Corr = -100% | |
| COPPER | 20.23% | 47.60% | 100.00% | | | | | | | | | | | | |
| CRUDE OIL | 15.86% | 21.58% | 46.66% | 100.00% | | | | | | | | | | | |
| CORN | 5.71% | 13.49% | 17.73% | 28.35% | 100.00% | | | | | | | | | | |
| EUR | 2.25% | 10.38% | 6.44% | -4.00% | 1.36% | 100.00% | | | | | | | | | |
| GBP | 0.08% | 11.22% | 8.49% | 1.99% | 4.12% | 78.68% | 100.00% | | | | | | | | |
| JPY | 2.67% | -0.97% | 8.08% | 6.58% | 3.32% | 46.06% | 50.61% | 100.00% | | | | | | | |
| CHF | 2.54% | 12.95% | 7.41% | -3.82% | 1.42% | 75.76% | 62.65% | 52.03% | 100.00% | | | | | | |
| NASDAQ | 55.03% | 18.26% | 19.39% | 15.00% | -5.10% | -4.01% | -1.76% | 2.46% | -5.35% | 100.00% | | | | | |
| S&P500 | 52.58% | 20.87% | 22.52% | 20.90% | -3.45% | -4.41% | -0.75% | 2.43% | -8.06% | 96.85% | 100.00% | | | | |
| EUROSTOXX50 | 27.69% | 23.71% | 40.59% | 25.56% | 1.59% | -0.28% | 6.97% | 4.90% | -6.32% | 56.35% | 60.05% | 100.00% | | | |
| VIX | -45.46% | -10.32% | -18.81% | -19.92% | -0.50% | 4.61% | 0.28% | -2.64% | 10.81% | -70.93% | -74.29% | -48.72% | 100.00% | | |
| US TREASURY | 15.77% | 39.01% | -1.37% | -16.34% | -7.55% | 7.45% | 5.20% | -6.99% | 12.38% | 16.45% | 14.09% | 5.13% | -8.84% | 100.00% | |
| PAN EUR | 14.99% | 32.37% | -3.37% | -17.50% | -5.50% | 12.17% | 6.77% | 1.87% | 9.19% | 24.94% | 24.28% | 20.26% | -12.13% | 67.90% | 100.00% |
| | втс | GOLD | COPPER | CRUDE OIL | CORN | EUR | GBP | JPY | CHF | NASDAQ | S&P500 | EUROSTOXX50 | VIX | US TREASURY | PAN EUR |
| | Crypto | Commodity | | | | Currency | | | Equity | | | Volatility Bond | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Asset | | Copper | Crude Oil | Corn | EUR | GBP | JPY | CHF | NASDAQ | S&P 500 | EURSTOXX | VIX | US Treasury | PAN EUR |
|----------------------------|--------|--------|--------------|-------|-------|-------|-------|-------|--------|---------|----------|---------|----------------|------------|
| Correlation at 31 Mar 2023 | 25.54% | 20.23% | 15.86% | 5.71% | 2.25% | 0.08% | 2.67% | 2.54% | 55.03% | 52.58% | 27.69% | -45.46% | 15.77% | 14.99% |

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Asset Class 1Y Correlation With Bitcoin



| Asset | Gold | Copper | Crude Oil | Corn | EUR | GBP | JPY | CHF | NASDAQ | S&P 500 | EURSTOXX | VIX | US Treasury | PAN EUR |
|---------------------------|--------|--------|--------------|-------|-------|-------|-------|-------|--------|---------|----------|---------|----------------|------------|
| Correlation at 31 Mar2023 | 25.54% | 20.23% | 15.86% | 5.71% | 2.25% | 0.08% | 2.67% | 2.54% | 55.03% | 52.58% | 27.69% | -45.46% | 15.77% | 14.99% |

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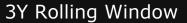
Asset Class 3Y Correlation Matrix

ВТС 100.00% Corr = 100%100.00% **GOLD** 11.72% Corr = -100%**COPPER** 18.18% 29,40% 100.00% CRUDE OIL 5.18% 3.35% 11.34% 100.00% CORN 6.56% 12.61% 16.04% 11.48% 100.00% **EUR** 3.03% 7.40% 6.77% -1.60% 0.68% 100.00% GBP -1.27%4.49% 0.72% 6.26% 0.24% 70.86% **JPY** -1.10% 2.48% 6.63% -1.03% 42.31% 41.88% -2.08% 100.00% CHF 11.40% 1.41% 6.24% -1.70% -1.23% 75,02% 55.33% 50.80% 100.00% **NASDAQ** 39.85% 12.14% 21.52% 8.57% -2.27% -0.33% -4.69% 100.00% -3.73% -1.52% S&P500 10.80% -0.35% -2.79% -2.23% 93.76% 100.00% 36,48% 25.86% 12.62% -3.43% -7.05% **EUROSTOXX50** 21.47% -0.72% 27.12% 6.05% -4.44% -2.66% 0.98% -5.31% -8.82% 46.74% 56.31% 100.00% VIX -32,70% -5.34% -24.93% -11.74% -0.56% 4.81% 5.06% 3.42% 8.95% -66.57% -70.73% -42.31% 100.00% **US TREASURY** 3.57% 28.25% -8.55% -7.23% 3.75% 3.77% -0.61% 7.20% 2.56% -5.46% -16.93% 8.64% 100.00% -6.23% **PAN EUR** 7.97% 22.50% -0.99% 17.54% 5.20% 100.00% 0.79% 9.18% 4.81% 4.95% 9.19% 15.21% -2.80% 61.52% -1.11% **CRUDE OIL** S&P500 **EUROSTOXX50** VIX JS TREASURY **PAN EUR** BTC **GOLD** COPPER CORN **EUR GBP JPY** CHF NASDAQ Commodity Equity Volatilit **Bond** Crypto Currency

| Asset | Gold | Copper | Crude Oil | Corn | EUR | GBP | JPY | CHF | NASDAQ | S&P 500 | EURSTOXX | VIX | US Treasury | PAN EUR |
|----------------------------|--------|--------|--------------|-------|-------|--------|--------|-------|--------|---------|----------|---------|----------------|------------|
| Correlation at 31 Mar 2023 | 11.72% | 18.18% | 5.18% | 6.56% | 3.03% | -1.27% | -1.10% | 1.41% | 39.85% | 36.48% | 21.47% | -32.70% | 3.57% | 7.97% |

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Asset Class 3Y Correlation With Bitcoin

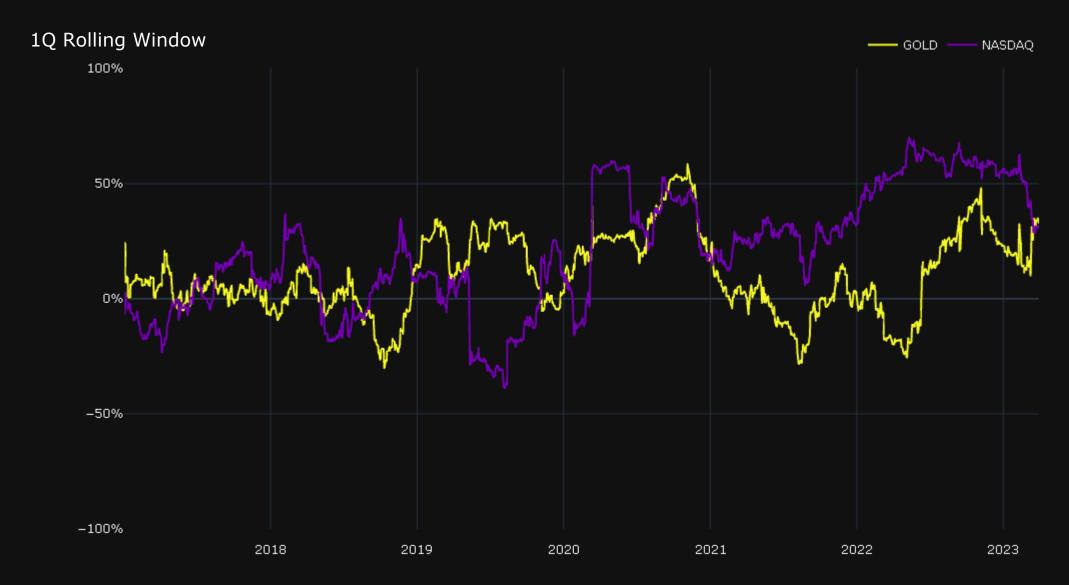




| Asset | Gold | Copper | Crude Oil | Corn | EUR | GBP | JPY | CHF | NASDAQ | S&P 500 | EURSTOXX | VIX | US Treasury | PAN EUR |
|----------------------------|--------|--------|--------------|-------|-------|--------|--------|-------|--------|---------|----------|---------|----------------|------------|
| Correlation at 31 Dec 2022 | 11.72% | 18.18% | 5.18% | 6.56% | 3.03% | -1.27% | -1.10% | 1.41% | 39.85% | 36.48% | 21.47% | -32.70% | 3.57% | 7.97% |

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Gold/Nasdaq 1Q Correlation With Bitcoin



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Gold/Nasdaq 1Y Correlation With Bitcoin



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Gold/Nasdaq 3Y Correlation With Bitcoin



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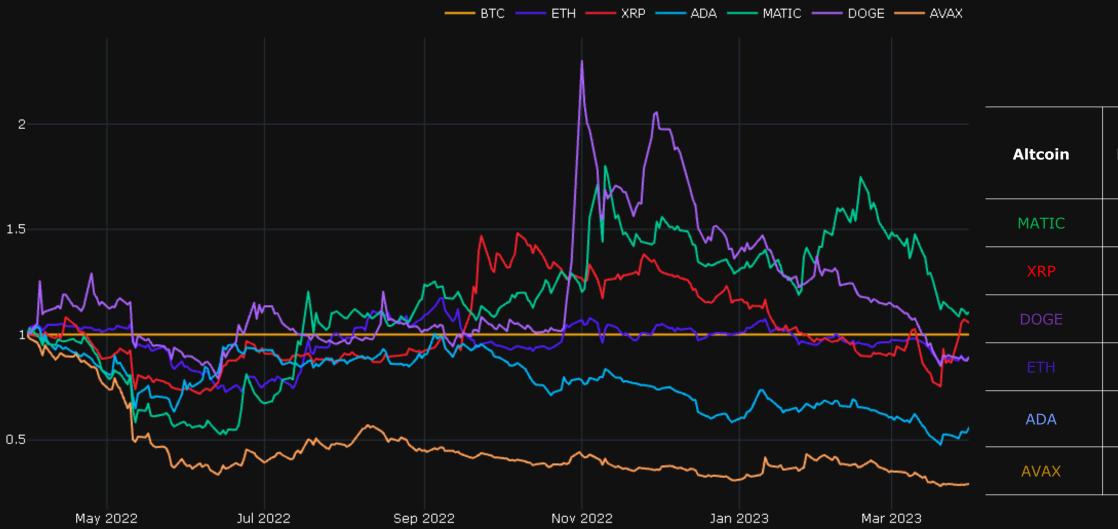
Performance Altcoins vs Bitcoin (2023 Q1)



| Altcoin | Performance |
|---------|-------------|
| AVAX | -6.92% |
| ADA | -7.90% |
| XRP | -9.47% |
| ETH | -12.10% |
| MATIC | -16.01% |
| DOGE | -36.82% |

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Performance Altcoins vs Bitcoin (Last 12M)



| Altcoin | Performance |
|---------|-------------|
| MATIC | 10.65% |
| XRP | 5.71% |
| DOGE | -10.62% |
| ETH | -11.22% |
| ADA | -44.13% |
| AVAX | -70.77% |

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Performance Altcoins vs Bitcoin (Last 3Y)



| Altcoin | Performance |
|---------|-------------|
| MATIC | 2191.31% |
| DOGE | 861.72% |
| ETH | 208.35% |
| ADA | 195.20% |
| XRP | -30.26% |

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Altcoin 1Y Correlation With Bitcoin



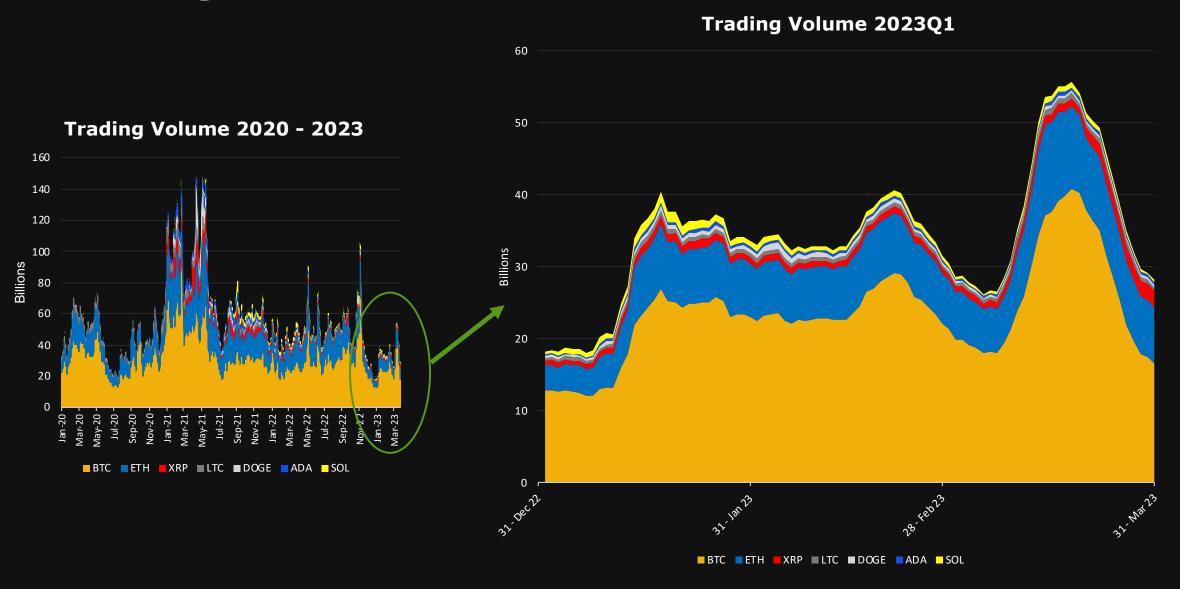
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Altcoin 3Y Correlation With Bitcoin



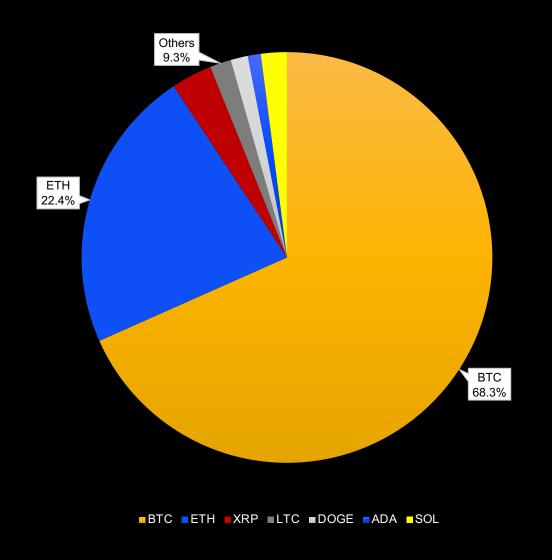
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Trading Volume



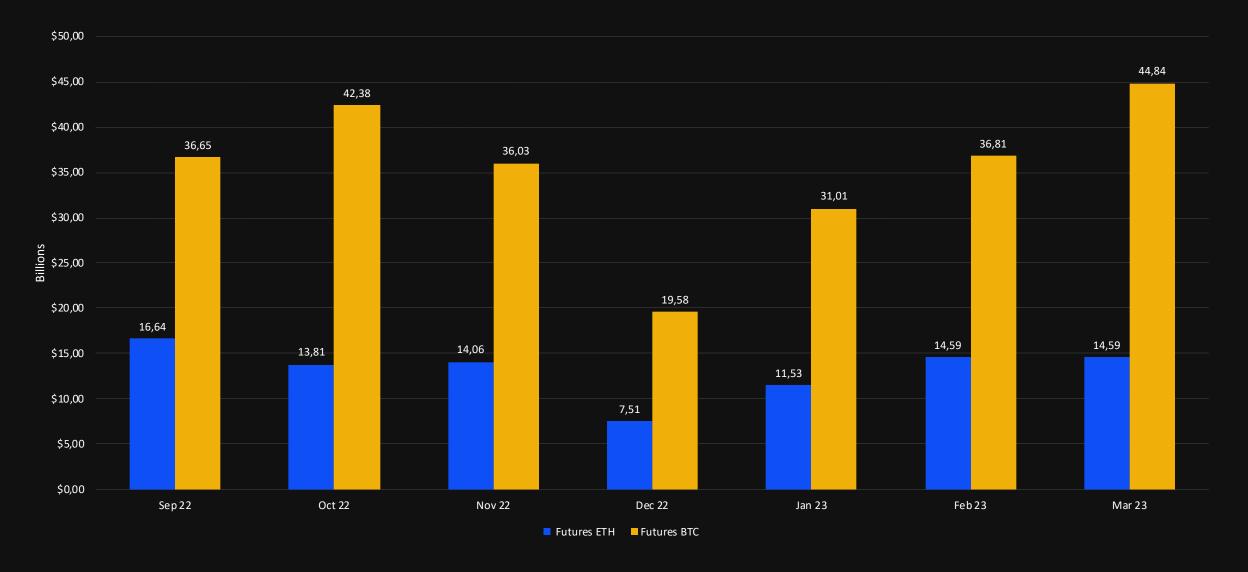
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Average Trading Volume 2023Q1



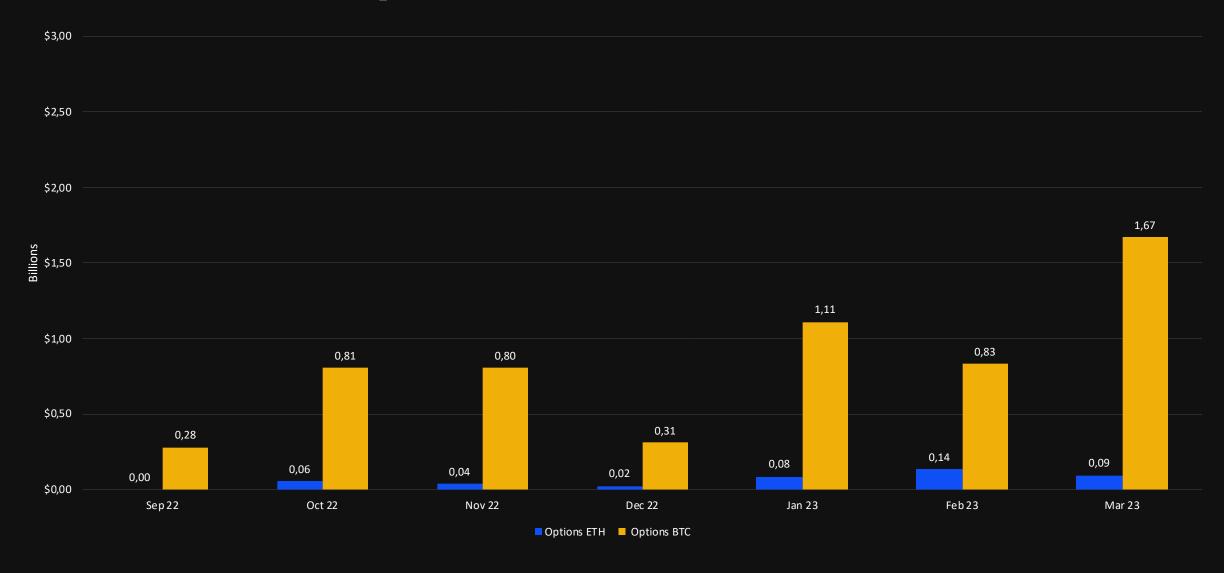
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CME Listed Futures



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CME Listed Options



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The Banking Crisis

- The recent banking crisis, which broke out on Friday March 10th, has involved the traditional finance world and marginally, some players in the crypto world.
- Circle, the issuer of the USDC stablecoin, is a highly reliable and transparent company that had \$3 billion deposited with Silicon Valley Bank. This caused the price of USDC/USD to reach 0.88 cents, but it regained its "peg" once the US government reassured that all deposits were covered.
- As a result, Tether has regained control of the market and we will see what happens in the coming months.

https://www.wsj.com/the-banking-crisis-atimeline-of-key-events

https://www.federalreserve.gov/pressreleases/monetary20230312

https://www.bloomberg.com/articles/banking-crisisstill-far-from-over

https://cointelegraph.com/news/usdcdepegged-but-it-s-not-going-to-default



Tether USDT / Circle USDC



Binance USD to True USD

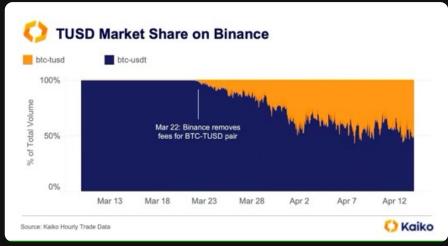
- Another player, Paxos, was ordered by the Security Exchange Commission to suspend the issuance of Binance USD. Despite its name, according to CZ, Binance CEO, it had nothing to do with the company.
- Meanwhile, Binance has switched from using Binance USD to True USD, as the SEC has sanctioned the former stablecoin.

https://www.coindesk.com/how-cftc-binance-lawsuit-could-impact-bitcoin-binances-busd-stablecoin-suffers-dollar500m-in-outflows/

https://www.coindesk.com/markets/2023/04/14/trueusds-bitcoin-trading-volume-nears-tethers-on-binance-but-traders-hesitate-to-use-the-token/

https://www.coindesk.com/business/paxos-to-stop-minting-stablecoin-busd-following-regulatory-action/





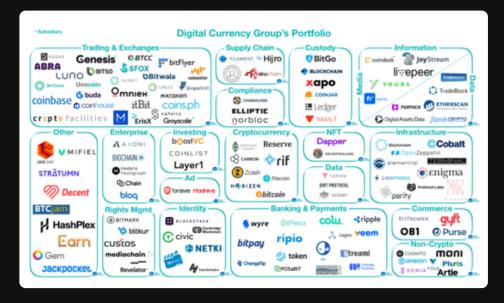
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DCG / GrayScale / Genesis / Gemini

Another major player under scrutiny is the conglomerate Digital Currency Group, with its subsidiaries Grayscale, the number one Bitcoin trust, and Genesis, a significant DeFi group. After a long dispute over Gemini's claim of \$700 million on Genesis, Gemini announced that it will contribute \$100 million to Genesis' recovery plan. Clearly, there is a perceived systemic risk.

https://www.coindesk.com/business/202https://www.cnbc.com/ 2023/02/06/gemini-to-contribute-100-million-to-genesisbankruptcy-recovery-plan.html3/02/07/dcg-is-selling-holdingsin-grayscale-financial-times/

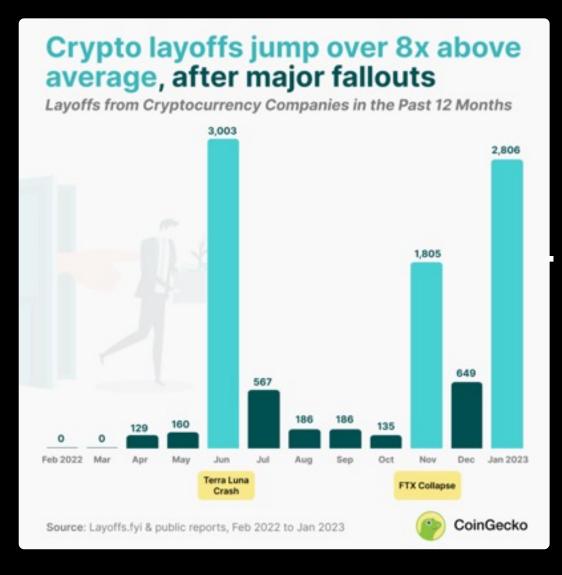
https://www.sec.gov/news/press-release/2023-7





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Crypto Layoffs



 Significant reduction of workforce in several platforms such as Coinbase (36%), Gemini (36%) and Crypto.com (50%).

https://milkroad.com/jobs/layoffs

https://www.coindesk.com/business/2023/01/05/crypto-layoffs-heres-the-grim-count-since-april/





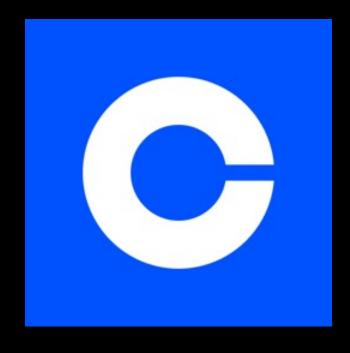
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Coinbase

- Shares of Coinbase dropped nearly 13% to \$67.33 in extended trading after the company said on Wednesday that the regulator had issued it a Wells notice - a formal declaration that SEC staff intend to recommend an enforcement action.
- Coinbase has several issues related to the lawsuit with the SEC, which argues that crypto assets are securities, making Coinbase noncompliant with regulations.

https://www.theverge.com/2023/1/4/23538731/coinbase-fine-crypto-money-laundering-laws-new-york

https://www.reuters.com/legal/coinbase-issued-wells-notice-by-sec-2023-03-22/



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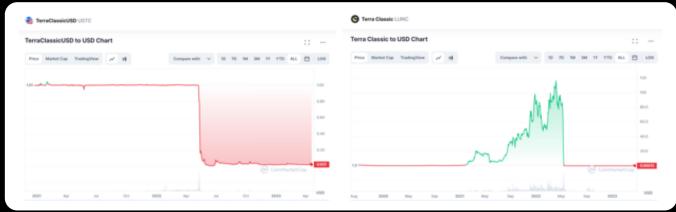
Do Kwon Arrested



https://www.reuters.com/world/europe/montenegro-police-arrest-suspected-former-ceo-terraform-labs-interior-minister-2023-03-23

https://www.coindesk.com/learn/the-fallof-terra-a-timeline-of-the-meteoric-riseand-crash-of-ust-and-luna/

- TerraLuna Ecosystem collapsed on May 12th, 2022.
 - 40 billion dollars were lost.
- On March 23rd:
 - Do Kwon was arrested in Montenegro.



The Rock Trading

The Rock Trading crack - which has left the Italian scene quite shocked, according to initial estimates, would have resulted in a shortfall of 15-20 million.

https://www.coindesk.com/consensusmagazine/2023/02/24/italian-ftx-leaves-users-in-limbo-citingdifficulties-in-liquidity-management/

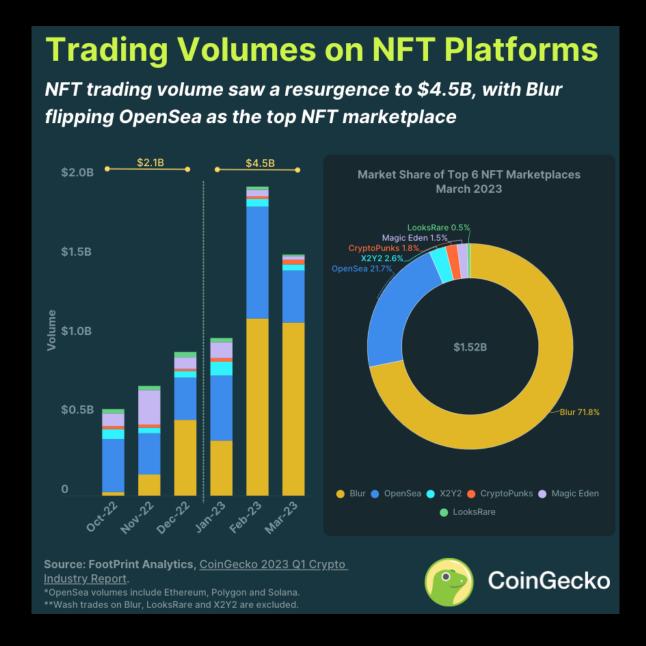
https://www.wired.it/article/the-rock-trading-fallimento-15-milioni/





NFT and Web3

- Web 3 is in steep decline because now the new trend is that of artificial intelligence.
- As a result, on Web 3, Meta, Microsoft, and Disney have retreated.
- Blur was a shocking surprise because this unknown platform until a few months ago recorded significantly higher volumes than OpenSea.



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TradFi

 Global players such as Fidelity have officially enabled their clients to invest in Bitcoin and Ethereum. The same applies to Swiss post, which recently made it possible for anyone to purchase Bitcoin and Ethereum.





Azimut invests in Alps Blockchain



https://www.forbes.com/sites/digital-assets/2023/03/16/amid-crypto-bank-crisis-fidelity-opens-bitcoin-ether-trading-for-retail--accounts/?sh=1be6e1aa1670

https://cryptonomist.ch/2023/03/28/azimut-investe-alps-blockchain/

https://www.coindesk.com/business/2023/04/05/swiss-government-owne



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Ether: Commodity or Security?

- Gary Gesler has stated that everything except Bitcoin is a security. He has been saying this for a long time now and has also stated that Bitcoin could be considered digital gold, which is definitely a commodity. According to him, almost everything else is certainly a security.
- Recently, he has also clarified the SEC's position on Ether: since staking is now possible, it is considered a security as it offers a return.
- Therefore, a dispute has arisen as the CEO of the CFTC believes that Ethereum is, in fact, a commodity.



SEC Chairman Gary Gensler

https://www.coindesk.com/layer2/2022/06/ 28/secs-gensler-reiterates-bitcoin-alone-isa-commodity-is-he-right/

https://cryptoslate.com/sec-chair-genslerconfirms-everything-other-than-bitcoin-isa-security-implications-and-analysis/

https://www.coindesk.com/policy/2023/03/ 28/us-cftc-chief-behnam-reinforces-viewof-ether-as-commodity



CFTC Chairman Rostin Behnam

EU: MiCAr and DORA

With a one-year delay from the vote, this regulation will become operational if approved in April, 18 months later, thus towards the end of 2024.

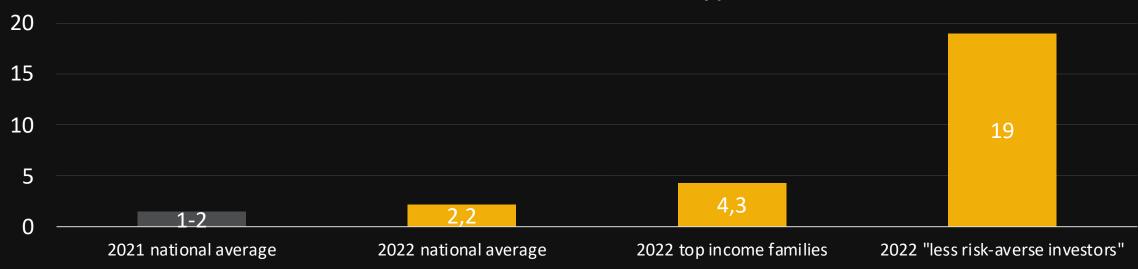


<u>Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Markets in Crypto-assets</u>

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Italian Crypto Wealth



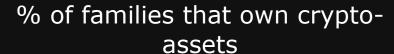


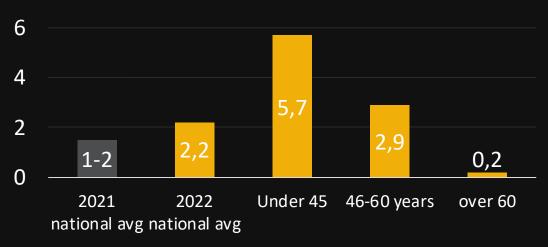
The January economic bulletin by the Bank of Italy shows that if in 2021 only roughly 1/2% of Italian households had an investment in crypto assets, in 2022 this threshold has doubled to 2.2%. Furthermore, drilling down, if we look at top-income households, i.e., those with the highest incomes, the percentage of households that have invested in crypto grows to 4.3%. And even if we focus on investors less averse to risk, therefore more inclined to take financial risks, the percentage rises to 19%.

Source: Bollettino Economico Banca d'Italia January 2023, based on June 2022 survey

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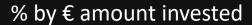
Italian Crypto Investors: a Profile

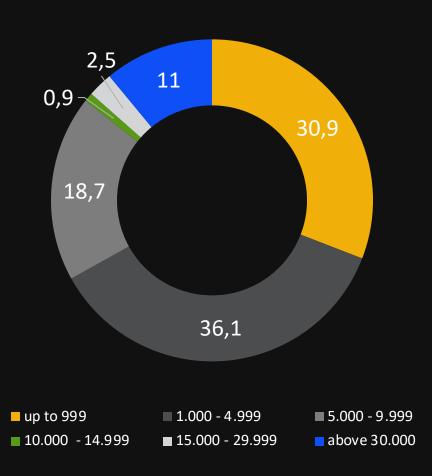




From a demographic perspective, it is noticeable that the highest numbers are recorded among very young people: 5.7% of those under 45 have invested in cryptocurrency, while 3% of those between 45 and 60 have invested in cryptocurrency. Even those over 60 have a component in cryptocurrency. Furthermore, the amounts invested, accounting for approximately 13-14-15% of the market, exceed 15,000 euros, so they are not exactly negligible.

Source: Bollettino Economico Banca d'Italia January 2023, based on June 2022 survey





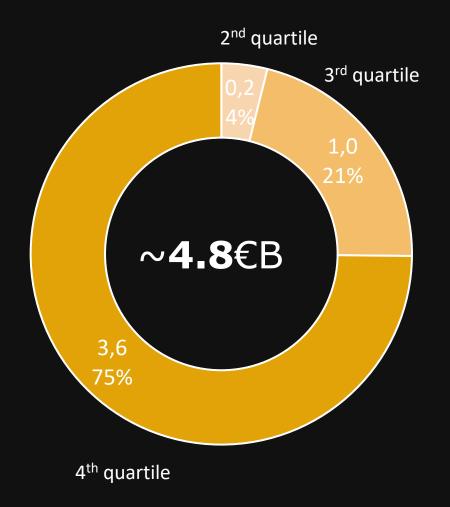
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A Market Worth About €4.8B

A market size estimate

| Income Quartile | N. families | % owners | Avg assets est. € |
|--|-------------|----------|-------------------|
| 1 st quartile (low income) | 6.4M | 0% | 0 |
| 2 nd quartile | 6.4M | 0.83% | ~3,500 |
| 3 rd quartile | 6.4M | 2.65% | ~6,000 |
| 4 th quartile (high income) | 6.4M | 4.30% | ~13,000 |
| Total | 25.7M | 2.20% | ~8,500 |

These are not Bank of Italy numbers, but it can be inferred from the Bank of Italy numbers that the crypto assets of Italians are already almost 5 billion euros today. A significant share that would like to be served properly: for example, the private banking in Italy currently holds 1,000 billion euros in assets. Imagining that not even 1% of it enters crypto becomes really implausible.

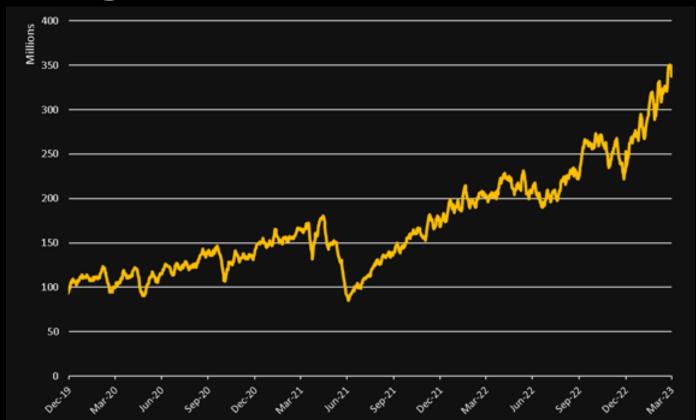


Source: DGI estimate on Bollettino Economico Banca d'Italia January 2023

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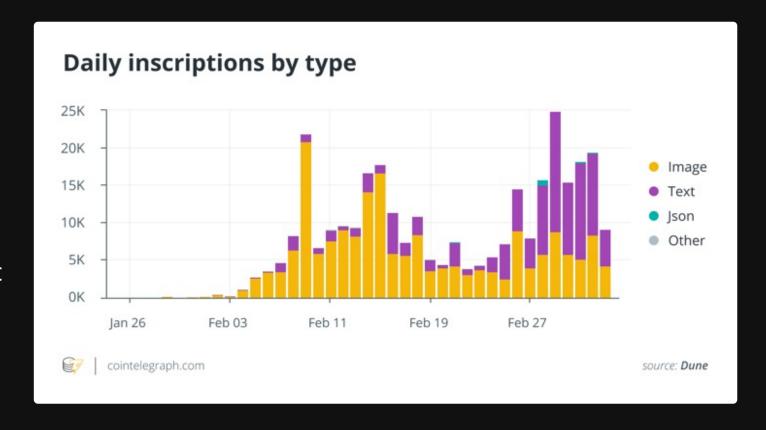
Mining: New Hash Rate All-Time High



There is a new hashrate on the Bitcoin network. So, whether the market rises or falls, the computational power that secures the Bitcoin network continues to grow. The only time a significant decrease was observed was when mining was prohibited in China. Another event, another apocalyptic event from which the end of the crypto world was expected. In reality, nothing happened. Miners moved abroad, and everything continues as before.

Ordinals: NFTs on Bitcoin?

A way has been found to associate images, videos, and text by inserting a photo, a JPEG, or a music track directly into the blockchain. The problem is that in this case the data is truly stored on-chain on the Bitcoin blockchain, while Ethereum's NFTs typically point to digital artifacts that exist elsewhere.

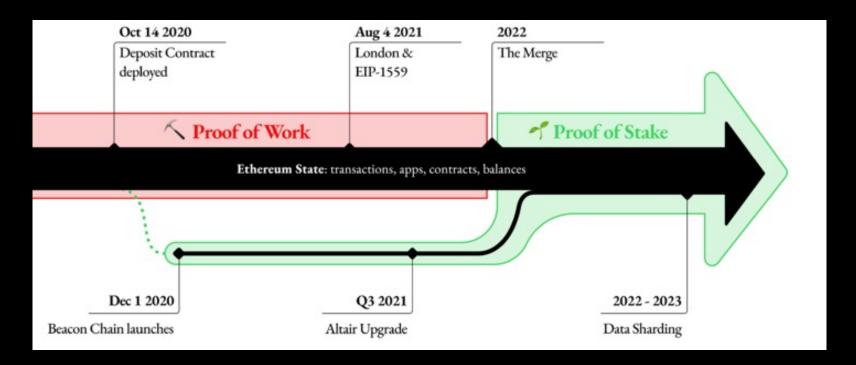


https://cointelegraph.com/explained/what-are-bitcoin-ordinals

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Shangai: ETH Staking Withdrawals (1/2)

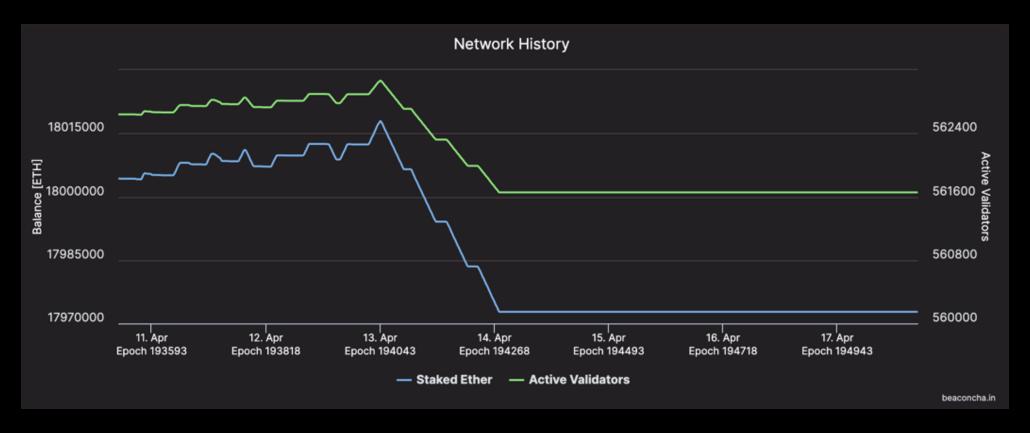
- On April 13th, the completion of the Ethereum network's transition to Proof of Stake was achieved with the upgrade called Shangai
- It enables withdrawals for users who have "staked" their ETH to secure and validate transactions on the Beacon Blockchain



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Shangai: ETH Staking Withdrawals (2/2)

 It was thought that there would be an avalanche of sales, but it didn't happen at all. There were certainly significant withdrawals, but essentially negligible in terms of the daily volumes



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- LinkedIn
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Cos'è successo nel mondo crypto questa settimana?

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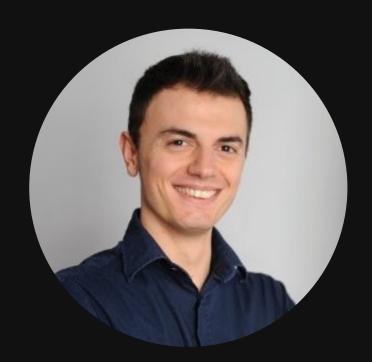
Con Ferdinando M. Ametrano Amministratore delegato CheckSig Direttore scientifico DGI

www.checksig.com/it/cryptoweek

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Guest Speaker



Alberto Grisoni

Direttore di AziendaBanca

"Tifosi e cronisti: il mondo cripto sui media"

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