



Scarcity in the Digital Realm

July 14

2021



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 crypto-commodity than a crypto-currency, Bitcoin aims to be world reserve asset.



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 through 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-net-worth 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 [partners](#) 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 [Bitcoin and Blockchain Technology](#) 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 [write code](#) and love to get our hands dirty in programming and technology. Check out our [OpenTimestamps calendar](#) free facility and [btclib](#), 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



Agenda

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





MARKET





Bitcoin Performance (2021 Q2)





Bitcoin Performance

Price dynamic is the discovery process of value: volatility is physiologic when it comes to assess the fair value of something so controversial as the digital equivalent of gold



Date	Price	Yearly Performance
31-Dec-2011	5.00 \$	1,566.67 %
31-Dec-2012	13.59 \$	171.80 %
31-Dec-2013	754.01 \$	5,448.27 %
31-Dec-2014	320.19 \$	-58.49 %
31-Dec-2015	430.57 \$	37.02 %
31-Dec-2016	963.74 \$	121.89 %
31-Dec-2017	14,156.40 \$	1,318.01 %
31-Dec-2018	3,742.70 \$	-72.60 %
31-Dec-2019	7,193.60 \$	87.16 %
31-Dec-2020	28,968.31 \$	302.33 %
30-Jun-2021	35,086.59 \$	19.40 %



Worst Bitcoin Drawdowns

All Time High Date	All Time High Value	Drawdown Date	Drawdown Value	Drawdown Percentage
10-Jun-2011	\$35.00	21-Nov-2011	\$2.29	-93%
04-Dec-2013	\$1,151.00	14-Jan-2015	\$178.10	-85%
16-Dec-2017	\$19,497.40	15-Dec-2018	\$3,236.76	-83%
13-Apr-2021	\$63,445.64	25-Jun-2021	\$31,604.13	-50%

Worst Daily Bitcoin Loss

Date	Return
12-Apr-2013	-61.37%
12-Mar-2020	-37.17%
12-Jun-2011	-28.60%
18-Oct-2011	-25.66%
02-May-2013	-24.52%

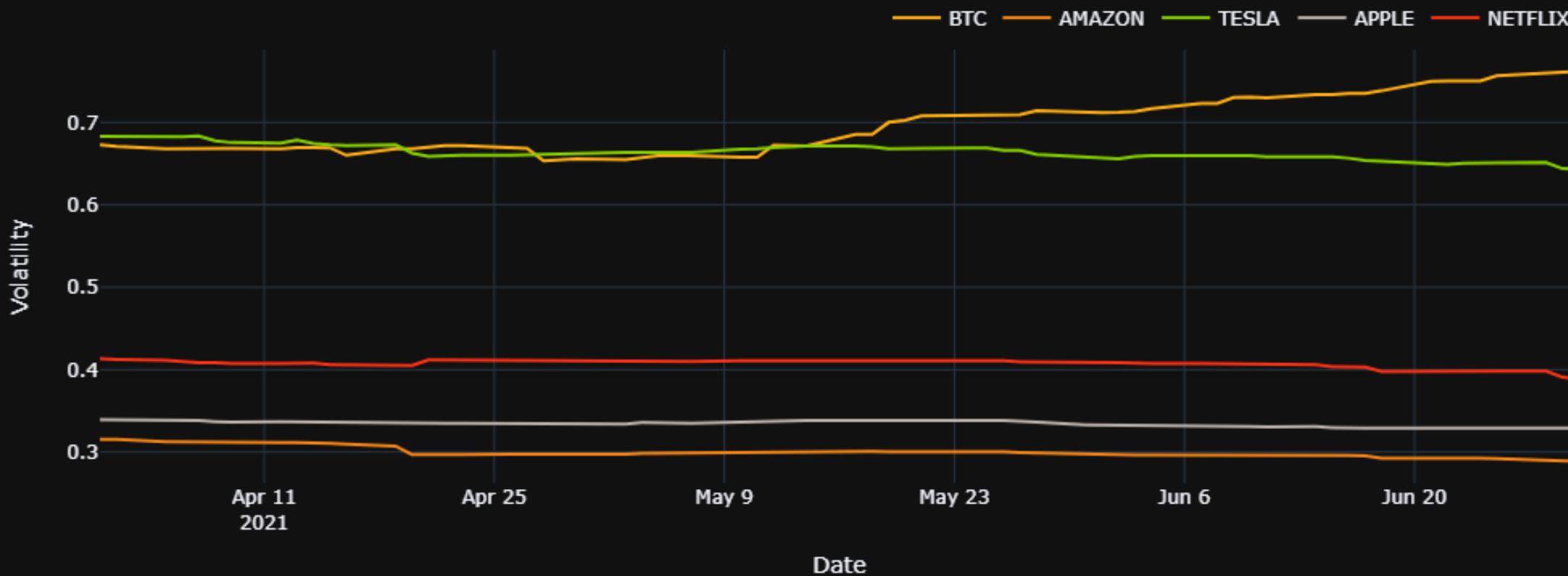
2021 Worst Daily Bitcoin Loss

Date	Return
19-May-2021	-14.18%
21-Jan-2021	-13.13%
12-May-2021	-12.78%
21-Jun-2021	-11.21%
23-Feb-2021	-9.60%



Volatility of (Last Decade) Best Performing Assets

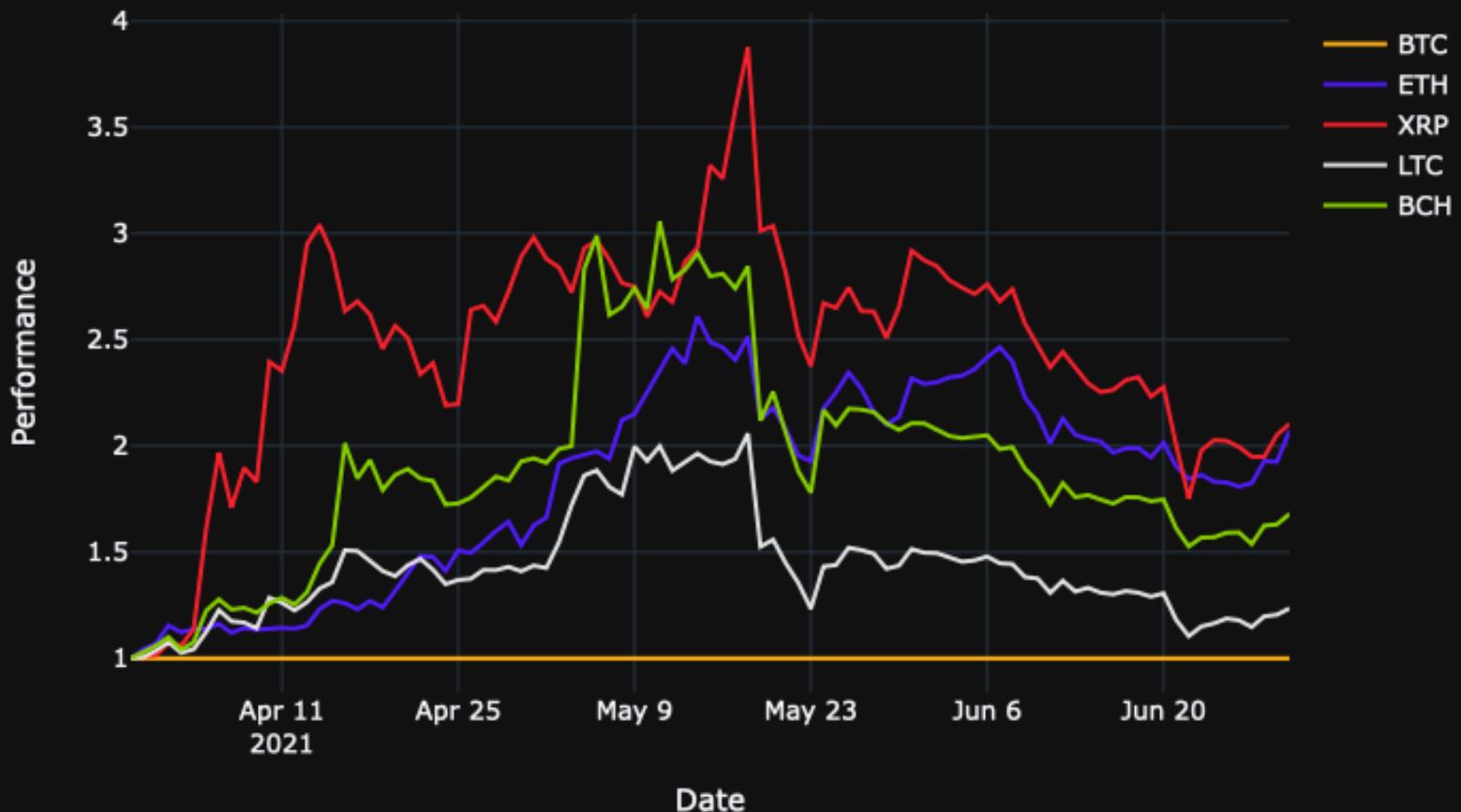
252 Days Rolling Volatility





Altcoins vs Bitcoin (2021 Q2)

Crypto-Assets: BTC denominated performances



Altcoin	Quarterly Performance
ETH	107.21%
XRP	110.39%
LTC	23.51%
BCH	68.00%



Altcoins vs Bitcoin (1Y)

Crypto-Assets: BTC denominated performances



Altcoin	Quarterly Performance
ETH	162.89%
XRP	5.08%
LTC	-8.71%
BCH	-38.18%



Altcoins vs Bitcoin (3Y)

Crypto-Assets: BTC denominated performances



Altcoin	Quarterly Performance
ETH	-8.56%
XRP	-72.54%
LTC	-67.55%
BCH	-87.17%

DGI Crypto Index Weights (Q2 2021)

- **Weighted by trading volume,**
Bitcoin accounts for about the
70.3% of the index composition
- Exchanges considered:



POLONIEX

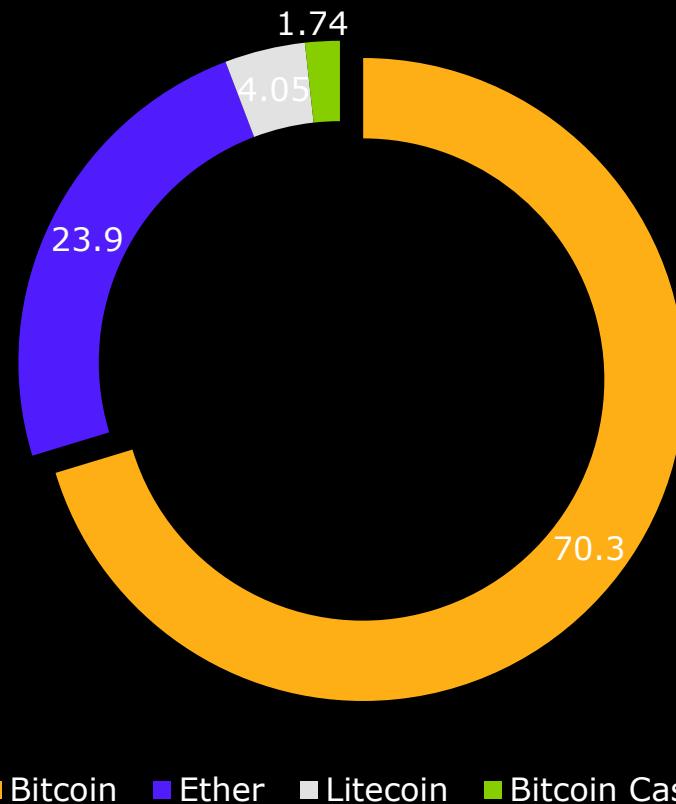


coinbase | Pro



Bitstamp

Index weight



■ Bitcoin ■ Ether ■ Litecoin ■ Bitcoin Cash



DGI Crypto Index

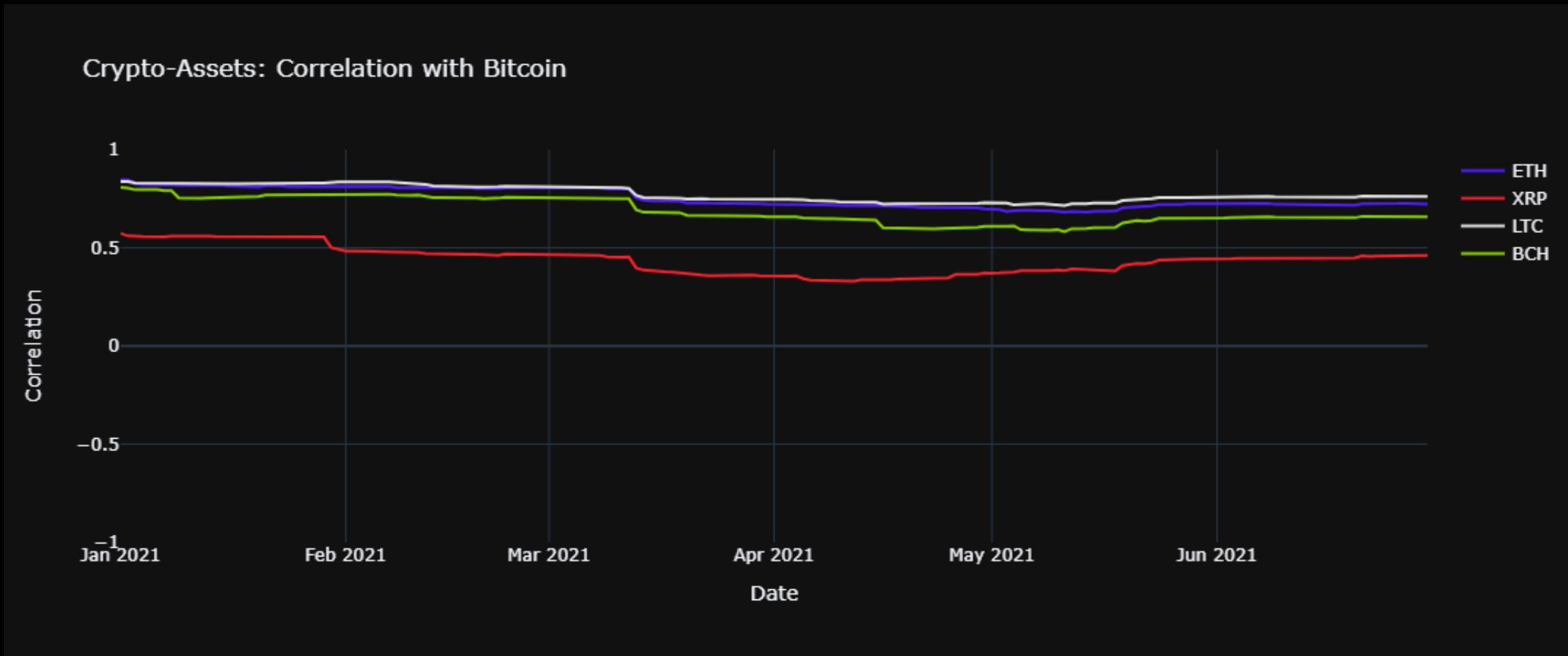


Developed with





Correlation With Bitcoin: 1Y Rolling Window



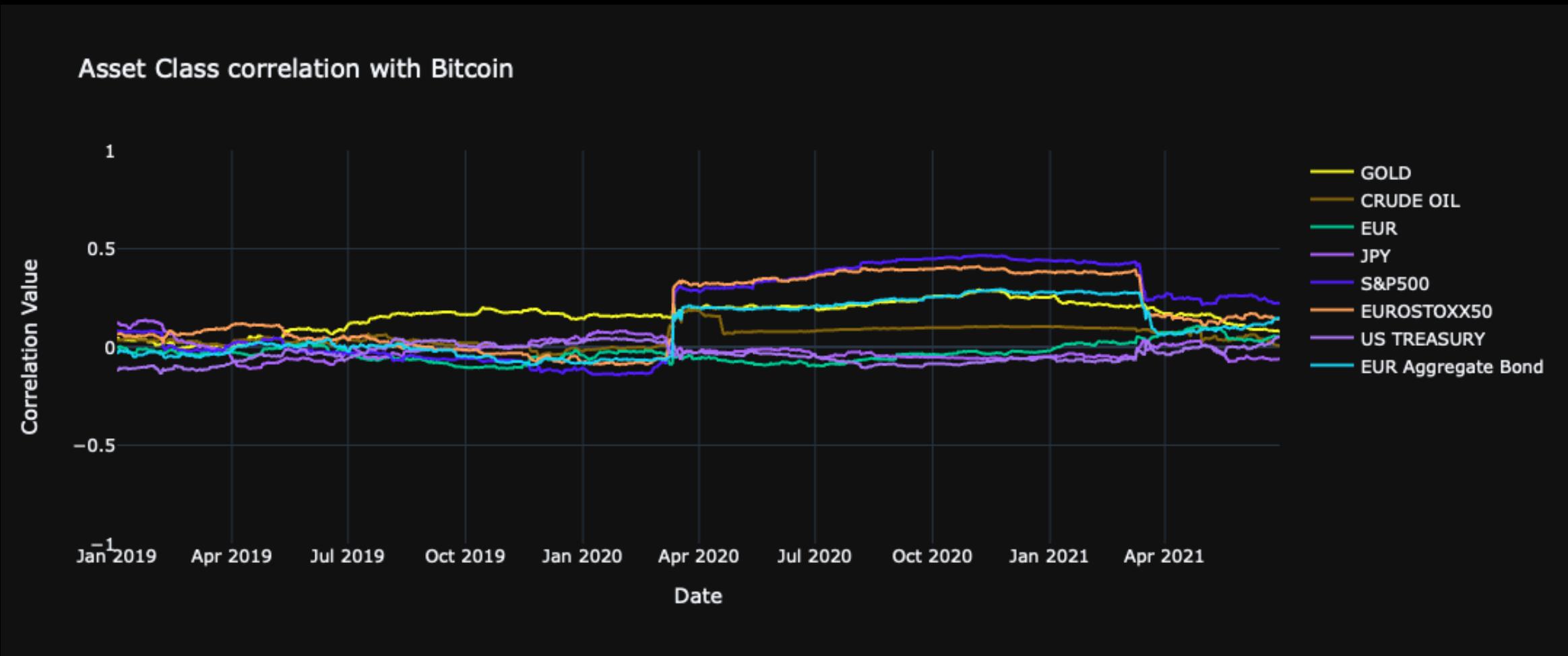


Correlation Matrix: 1Y

BTC	100.00%																				
ETH	70.68%	100.00%																			
LTC	79.34%	76.70%	100.00%																		
XRP	37.59%	43.69%	49.90%	100.00%																	
GOLD	7.86%	10.35%	11.12%	-2.77%	100.00%																
COPPER	18.84%	15.62%	19.18%	11.94%	24.00%	100.00%															
CRUDE OIL	0.52%	0.66%	-1.55%	-0.11%	-2.57%	14.40%	100.00%														
CORN	12.12%	7.65%	5.82%	0.44%	8.97%	19.42%	12.42%	100.00%													
EUR	6.23%	2.89%	6.14%	0.62%	12.02%	6.19%	-5.88%	0.91%	100.00%												
GBP	4.71%	3.57%	8.77%	8.10%	1.08%	4.19%	3.52%	-3.54%	60.11%	100.00%											
JPY	-4.91%	-5.39%	-3.10%	-8.72%	3.94%	7.37%	-5.19%	-6.18%	52.73%	39.65%	100.00%										
NASDAQ	26.13%	16.43%	18.98%	18.85%	21.49%	14.93%	16.03%	2.78%	-4.67%	-3.75%	-5.56%	100.00%									
S&P500	22.47%	14.06%	14.87%	16.95%	17.08%	21.26%	27.93%	1.87%	-6.20%	-5.81%	-8.59%	88.84%	100.00%								
EUROSTOXX50	14.80%	11.56%	7.54%	3.92%	-5.41%	14.19%	34.85%	-4.34%	-7.87%	-1.53%	-8.25%	28.26%	47.57%	100.00%							
VIX	-23.52%	-14.27%	-17.85%	-15.82%	-12.04%	-18.33%	-15.51%	-2.64%	9.20%	13.92%	10.40%	-64.76%	-72.79%	-34.61%	100.00%						
US TREASURY	4.28%	8.25%	8.30%	2.72%	16.88%	-17.35%	-13.64%	-8.58%	-2.71%	-4.79%	0.43%	14.41%	-4.18%	-22.88%	-1.37%	100.00%					
PAN EUR	13.86%	12.51%	7.97%	0.80%	16.35%	-6.61%	-13.50%	-4.37%	0.72%	-7.56%	5.98%	19.75%	9.68%	-9.06%	-9.48%	53.71%	100.00%				
	BTC	ETH	LTC	XRP	GOLD	COPPER	CRUDE OIL	CORN	EUR	GBP	JPY	NASDAQ	S&P500	UROSTOXX5	VIX	US TREASURY	PAN EUR				
	Crypto-currency				Commodity				Currency			Equity			Volatility	Bond					



Correlation With Bitcoin: 1Y Rolling Window



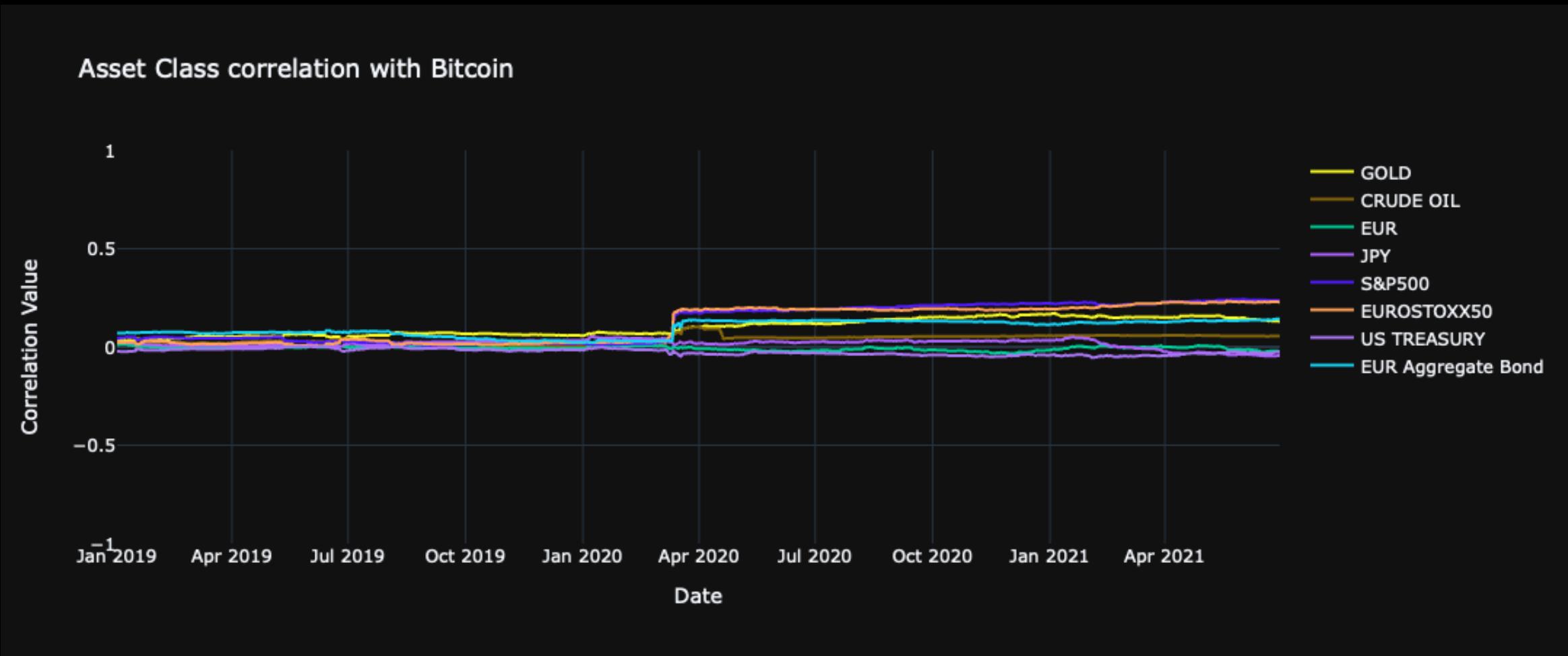


Correlation Matrix: 3Y

	BTC	ETH	LTC	XRP	GOLD	COPPER	CRUDE OIL	CORN	EUR	GBP	JPY	NASDAQ	S&P500	EUROSTOXX50	VIX	US TREASURY	PAN EUR	
BTC	100.00%																	Corr = 1
ETH	78.70%	100.00%																Corr = -1
LTC	79.41%	81.68%	100.00%															
XRP	50.42%	59.20%	59.66%	100.00%														
GOLD	12.95%	9.68%	9.10%	1.37%	100.00%													
COPPER	11.72%	12.69%	12.86%	11.56%	14.28%	100.00%												
CRUDE OIL	5.43%	3.38%	4.65%	3.04%	2.19%	11.24%	100.00%											
CORN	7.93%	7.47%	4.34%	4.10%	6.83%	13.68%	11.79%	100.00%										
EUR	-1.91%	-1.10%	-1.40%	1.29%	4.81%	5.51%	-0.89%	0.44%	100.00%									
GBP	-6.79%	-4.35%	-1.82%	1.13%	-0.09%	0.86%	-1.28%	-1.32%	56.85%	100.00%								
JPY	-4.08%	-5.15%	-7.96%	-6.95%	6.25%	2.39%	-2.72%	-1.60%	42.30%	25.11%	100.00%							
NASDAQ	25.12%	24.12%	22.93%	19.76%	12.45%	27.53%	12.64%	8.43%	4.17%	-3.35%	1.52%	100.00%						
S&P500	23.80%	23.62%	21.63%	18.78%	10.55%	29.96%	14.86%	9.52%	6.07%	-1.74%	1.89%	94.71%	100.00%					
EUROSTOXX50	22.89%	23.51%	19.22%	14.80%	5.26%	32.27%	10.24%	8.78%	-3.41%	-2.03%	-18.32%	55.71%	64.55%	100.00%				
VIX	-15.56%	-16.19%	-16.11%	-15.45%	-0.39%	-27.73%	-11.85%	-8.31%	2.28%	2.46%	4.70%	-72.10%	-70.89%	-48.15%	100.00%			
US TREASURY	-2.75%	-3.58%	-2.13%	-3.86%	24.65%	-17.70%	-7.76%	-9.06%	-2.51%	-1.82%	5.16%	-28.42%	-36.41%	-30.97%	25.29%	100.00%		
PAN EUR	13.91%	13.49%	12.46%	7.88%	24.78%	1.56%	5.54%	6.95%	4.44%	-5.59%	3.80%	20.34%	19.02%	15.91%	-8.95%	41.09%	100.00%	
	BTC	ETH	LTC	XRP	GOLD	COPPER	CRUDE OIL	CORN	EUR	GBP	JPY	NASDAQ	S&P500	EUROSTOXX50	VIX	US TREASURY	PAN EUR	
	Crypto-currency				Commodity				Currency			Equity			Volatility		Bond	

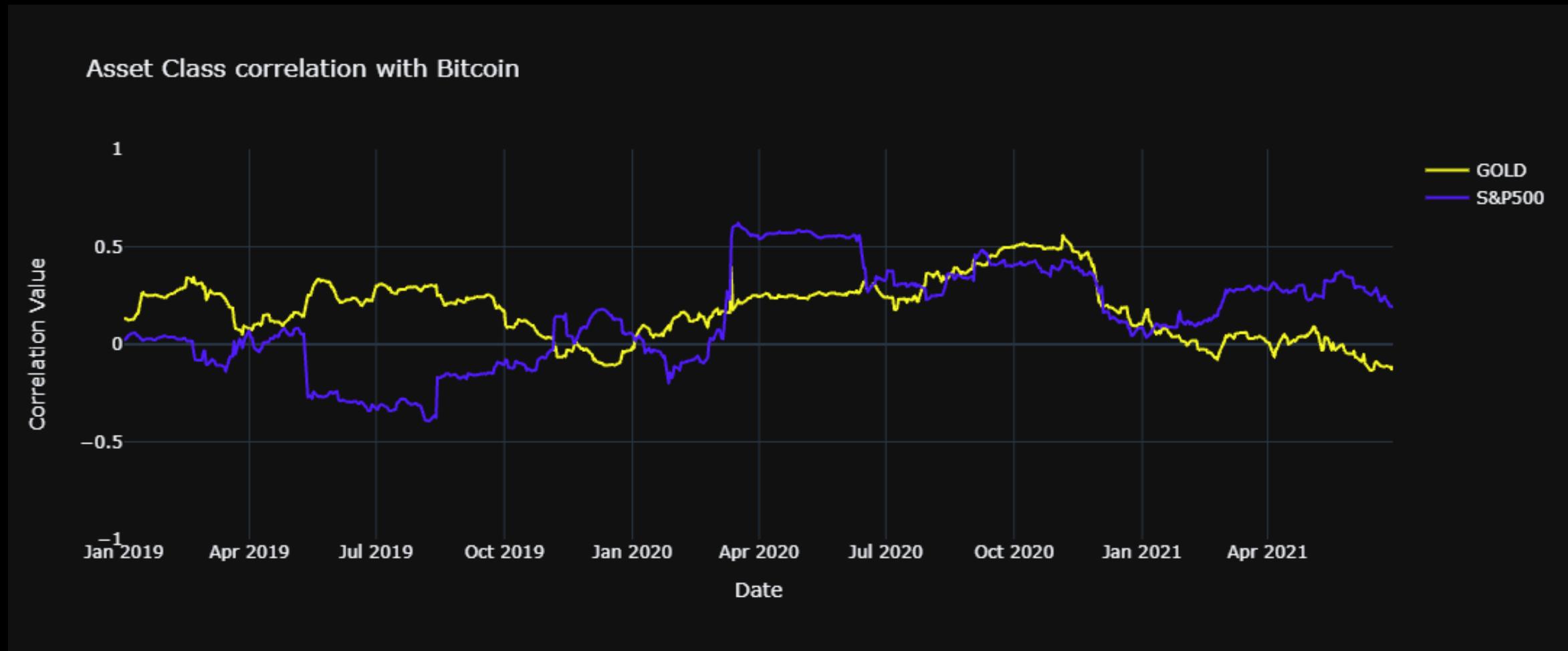


Correlation With Bitcoin: 3Y Rolling Window



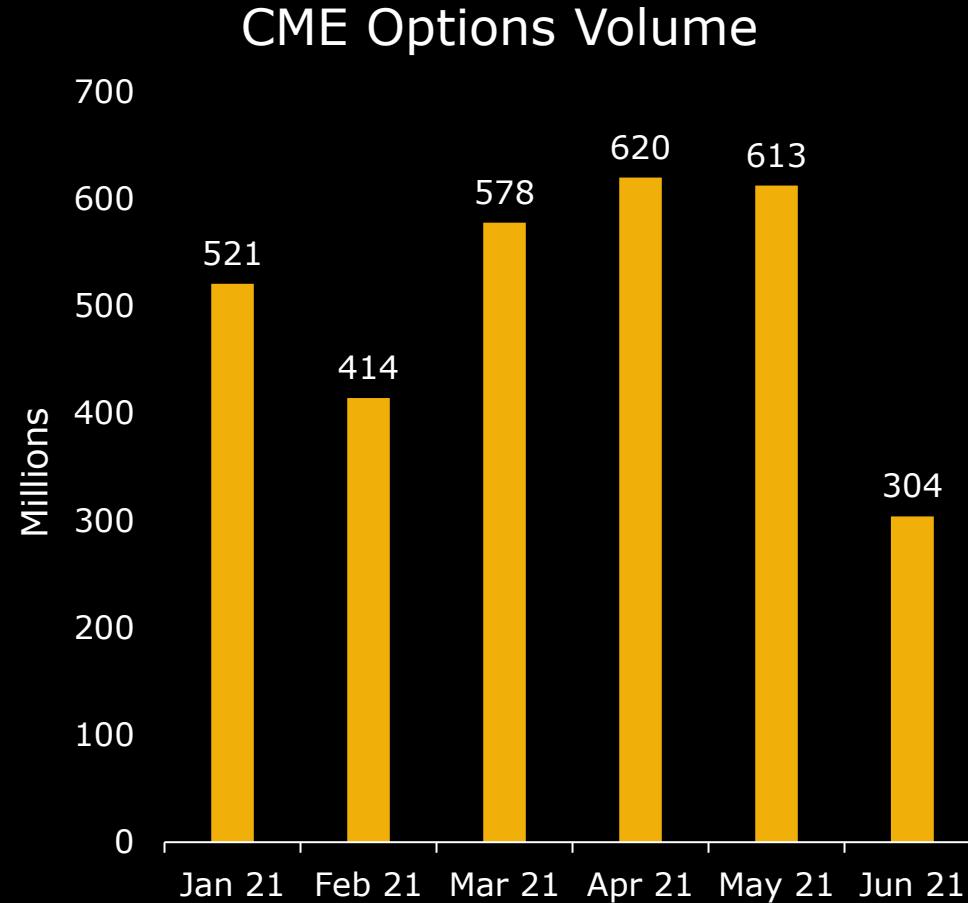
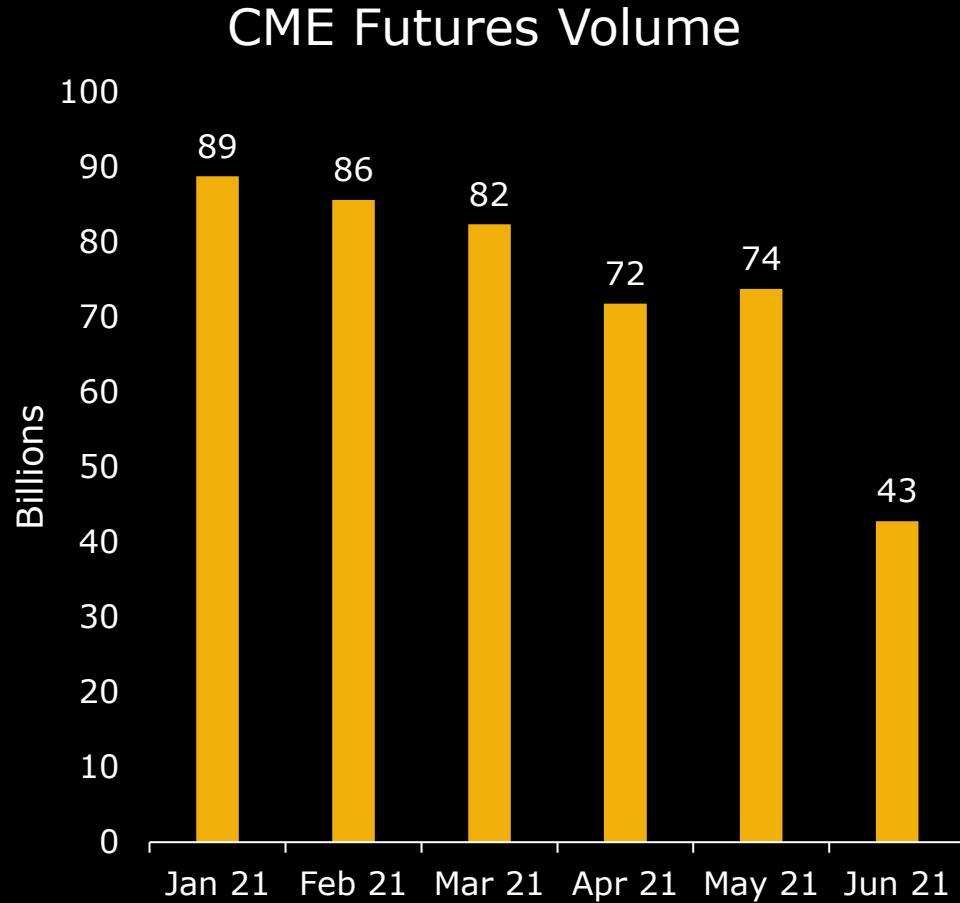


Correlation With Bitcoin: 1Q Rolling Window





Bitcoin Listed Derivatives





ECOSYSTEM



Exchanges and Coinbase Listing

- *Coinbase* direct lists at \$85b, slides down to \$65b, attests itself at \$50b
- *Kraken* may go public via direct listing by end of 2022
- Banks cut ties with *Binance*, affecting deposits and withdrawals
- The Italian *Young Platform* has raised €3.5 million in a new funding round



Price Influencers



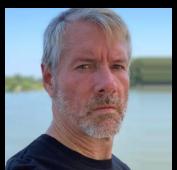
Elon Musk Tesla investment, change of heart, Anonymous threat,
Tesla (does not) accepts Bitcoin



Mexico's 3rd richest man **Pedro Salinas**:
It is absolutely right to think of Bitcoin as the new gold



Billionaire **Paul Tudor Jones**:
I like Bitcoin and want to have 5% of my portfolio in Bitcoin



CEO **Michael Saylor**: MicroStrategy triples down on bitcoin



George Soros' Investment Fund Is Reportedly Trading Bitcoin
Products



Hedge Fund Billionaire **Ray Dalio**:
I Have Some Bitcoin, cash is thrash

El Salvador: Legal Tender Bitcoin



- Bitcoin to become legal tender in El Salvador on Sept 7
- Nayib Bukele's bitcoin Law, announced by Jack Mallers at Bitcoin Miami Conference
- World Bank rejects El Salvador request for help on bitcoin implementation
- IMF sees legal, economic issues with El Salvador's bitcoin move



Bitcoin Financial Services

- 1 in 6 Hedge Funds Plan to Invest More Than 10% in Crypto
- Brokerage and/or Custody: Goldman Sachs, BBVA, Morgan Stanley, State Street, Standard Chartered, JP Morgan
- HSBC CEO: Bitcoin is not for us
- Custodians:
 - Galaxy Buy BitGo For \$1.2 Billion
 - Copper.co secures \$50 million Series B investment
 - Finoa raises \$22 million in Series A funding
 - CheckSig obtains SOC 1 and SOC 2 attestations
- *Opinion:*
«La custodia sicura di Bitcoin», P. Mazzocchi

Fisco |

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SICUREZZA DELLE TRANSAZIONI

La custodia sicura di bitcoin

Paolo Mazzocchi

Bitcoin e crypto-asset hanno caratteristiche straordinariamente diverse da quelle dei beni usualmente custoditi dalle banche depositarie o difesi dalla pratiche di cyber-security degli istituti finanziari tradizionali

La custodia sicura di *bitcoin* si ottiene curando sia aspetti strettamente tecnologici, sia aspetti funzionali e di processo. È inevitabile che la comprensione dei primi sia in qualche modo preliminare per poter comprendere gli ultimi: il lettore dovrà quindi avere una attitudine curiosa, metodica e paziente per cogliere i diversi passaggi qui affrontati. Le considerazioni che seguono si applicano in linea di massima con pochi adattamenti anche ai numerosi *crypto-asset* che sono venuti dopo *bitcoin*, avendone questi mutuato la maggioranza delle scelte tecnologiche architettonicali.

La sicurezza di *bitcoin* è basata su un libro mastro, chiamato *blockchain*, dove sono registrate tutte le transazioni ed i criteri con cui possono essere trasferiti i *bitcoin* esistenti. La sicurezza delle singole

chiavi pubbliche è utilizzata da chiunque per verificare la genuinità delle firme digitali prodotte dalla corrispondente chiave privata. La chiave pubblica deriva dalla chiave privata ma la chiave privata non può essere derivata dalla chiave pubblica.

Esistono, poi, anche gli *indirizzi*: un indirizzo deriva da una chiave pubblica ma la chiave pubblica non può essere derivata dall'indirizzo. Insomma, la derivazione procede dalla chiave privata verso la pubblica per arrivare poi all'indirizzo, ma non può essere percorsa in senso inverso. La chiave privata è cruciale perché permette la "spesa" dei *bitcoin* associati all'indirizzo corrispondente. È possibile generare arbitrariamente chiavi private e le loro corrispondenti chiavi pubbliche e indirizzi, senza dover chiedere alcun tipo di autorizzazione. Anche per

controllato da Bob. Alice dovrà (i) comporre un messaggio transazionale che include la quantità di *bitcoin* che vuole trasferire, la sua chiave pubblica e l'indirizzo di Bob, (ii) firmare con la sua chiave privata questo messaggio che sarà poi inoltrato alla rete *bitcoin*. Tutti i nodi della rete *bitcoin*, avendo accesso alla chiave pubblica di Alice, potranno indipendentemente verificare che (i) la quantità di *bitcoin* che Alice vuole trasferire è realmente associata al suo indirizzo; l'indirizzo deriva infatti dalla chiave pubblica e sulla *blockchain* (il registro pubblico delle transazioni) si può verificare quanti *bitcoin* sono associati ad un certo indirizzo; (ii) la firma del messaggio transazionale è valida e quindi il messaggio non è stato modificato ed è stato firmato proprio con la chiave privata associata all'indirizzo da cui si vogliono trasferire i *bitcoin*.

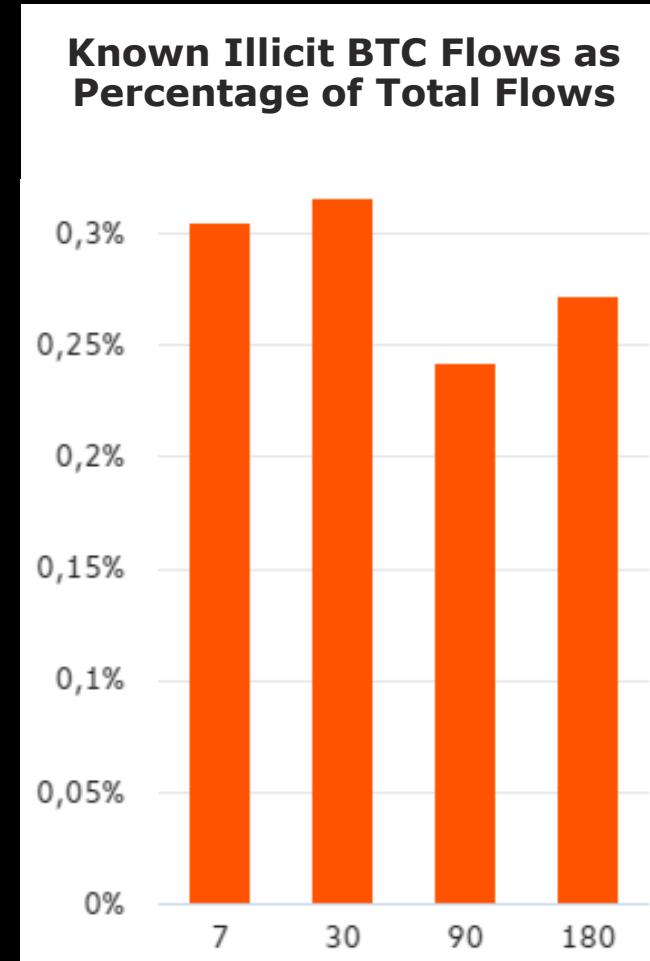


Ransomware: The Colonial Pipeline Hack

- Hackers breached system using single 'compromised' password
- US Recovers Bitcoin Paid to Colonial Pipeline Hackers
- How Did the Feds Seize the Colonial Pipeline Ransomware Bitcoins? Bitcoin was NOT hacked. Ransom hackers used a rented cloud server
- Untraceable Bitcoin Is a Myth (WSJ)
- Ransomware Investigations Elevated To Same Level As Terrorism
- Insurer AXA halts ransomware crime reimbursement in France

Bitcoin and Crime

- National risk assessment of money laundering and terrorist financing 2020 by UK HM Treasury
- The 2021 Crypto Crime Report by Chainalysis
- An Analysis of Bitcoin's Use in Illicit Finance By former Acting CIA Director Michael Morell
- Israel-Gaza Conflict Spurs Bitcoin Donations to Hamas



Source: markets.chainalysis.com



NFT: a Global Trend? Not Really, Not Yet

- NFT Investments raises £35m through London listing
- Luxury fashion brands poised to join the NFT party
- Sotheby's Embarks on NFTs With Digital Creator Pak's 'The Fungible Collection'
- Non-fungible utility token appears to be more promising than art: Socios.com and New Jersey Devils Join Forces
- Sotheby's Will Accept Crypto for Banksy's 'Love is in the Air' and special diamond auction



Love is in the Air - Banksy



REGULATION



Central Bank Digital Currency



- Bank of International Settlements: CBDCs are an opportunity for the monetary system
- Bank of Israel, Nigeria, Bank of Russia, Bank of England, South Korean Central Bank, Bank of Japan, Banque de France, ECB: all plan pilot digital currency
- Swiss National Bank Has No Plans for a Digital Currency
- ECB launches digital euro project; investigation phase to last 24 months
- Fabio Panetta, Chair of the Digital Euro Task Force: "We will engage with the European Parliament and decision-makers and inform them regularly about our findings. Citizens, merchants and the payments industry will also be involved"

Regulators

- PBoC orders Chinese banks to cut off accounts for crypto OTC merchants
- Mexico's Finance Minister Confirms Cryptos Are Banned From Financial System
- EU MiCA Consultation
- FATF Proposes Updated Guidance for Cryptocurrency Regulation



Italian Regulators



April 28 - Consob e Banca d'Italia mettono in guardia contro i rischi insiti nelle cripto-attività

June 14 – Paolo Savona (Consob):

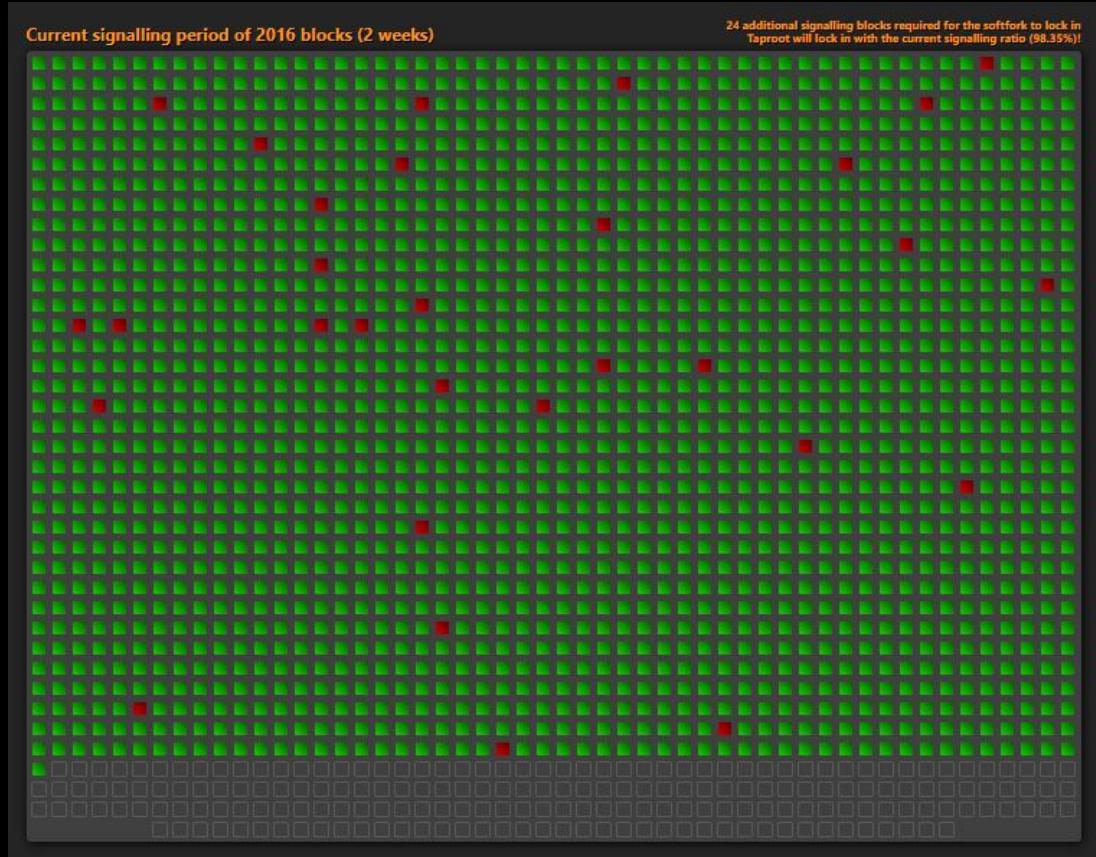
- ‘Le criptovalute sono fiume in piena, con rischi per tutela del risparmio. C’è bisogno di regole.’
- ‘E’ necessaria l’attivazione in Italia di strutture di consultazione formale tra organi di Governo e autorità indipendenti che imprimano un indirizzo unitario alle scelte in materia, anche in vista della posizione da assumere di fronte alle iniziative europee e internazionali in corso.’
- ‘Impegno educativo e formativo come viatico di successo per le scelte da effettuare.’



TECHNOLOGY



Taproot Locked-In !!

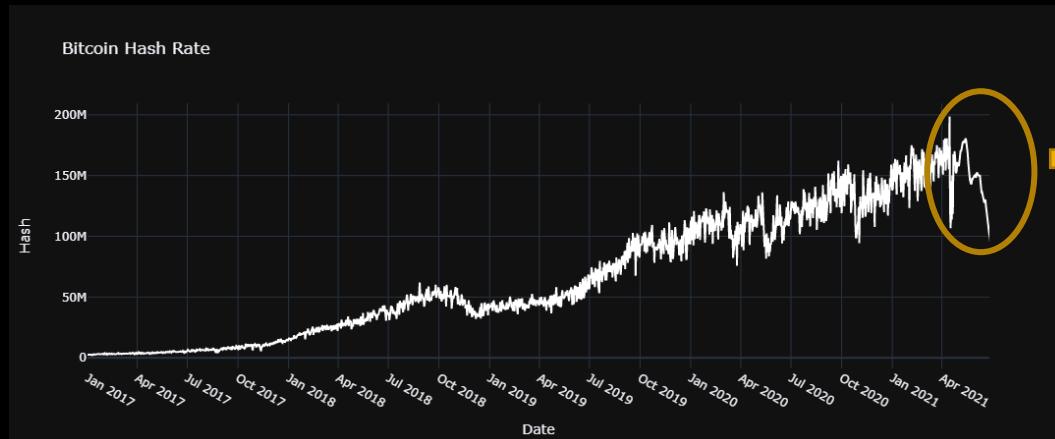


- Taproot is a Bitcoin protocol upgrade deployed as a backward-compatible soft fork. **Taproot expands Bitcoin's smart contract flexibility**, while offering more privacy by letting users mask complex smart contracts as a regular bitcoin transaction.
- Starting May 1, miners had three months to signal their Taproot readiness, with a threshold of **90% of the blocks in a difficulty period** (2016 blocks)
- The threshold has been reached on June 12
- Activation will be in November

Mining: The Hash Rate Migration



- China crack down all mining activities in June
- Beijing said that it started to crack down on mining due to its heavy reliance on cheap power and related impact on the environment
- Chinese miners are shipping bitcoin mining equipment to the US or, like BTC.com, to Kazakhstan
- Bitmain Suspends Sales of Bitcoin Mining Machine Amid China Crackdown



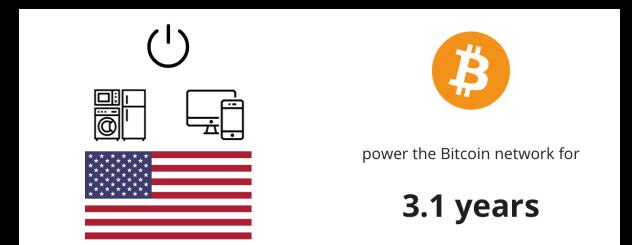
The worst drawdown in hash rate

Environmental Sustainability

Cambridge Center for Alternative Finance (CCAF):



- Bitcoin consumes 0.55% of global electricity production, roughly equivalent to the annual energy of small countries (Malaysia, Sweden)
- In 2019 73% of energy consumption came from hydroelectric (mainly in China)
- A lot of new mining farms in Texas are using solar power
- Bitcoin energy consumption is less than the amount of electricity consumed every year by always-on but inactive home devices in USA



The Blockchain Decline

- The European Investment Bank has issued its first ever digital bond on a public blockchain
- JPMorgan, DBS, and Temasek form new blockchain firm to improve cross-border payments
- New York Launches a Blockchain-Powered COVID-19 Passport





THE INSTITUTE



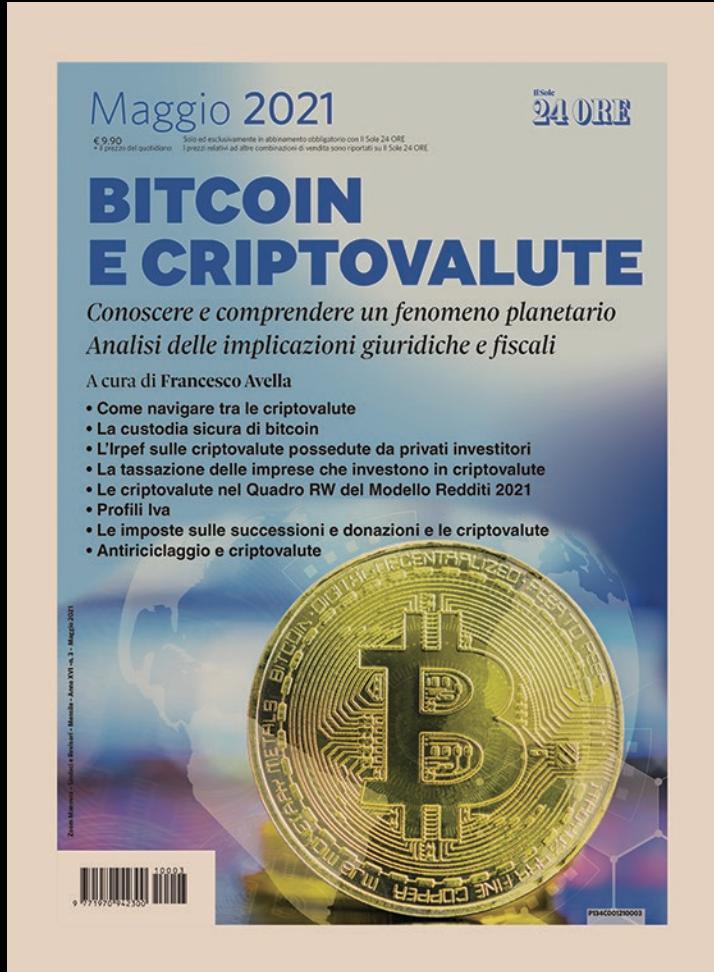


Cryptocurrency Open Patent Alliance

- COPA is a non-profit community of like-minded people and companies formed to encourage the adoption and advancement of cryptocurrency technologies and to remove patents as a barrier to growth and innovation.
- COPA members pledge never to use their crypto-technology patents against anyone, except for defensive reasons, effectively making their patents freely available for all to use.
- COPA members pool all their crypto-technology patents together to form a shared patent library.



Instant-Book - Il Sole 24 Ore



“*Crypto-Assets: a Planetary Phenomenon to Understand.*”

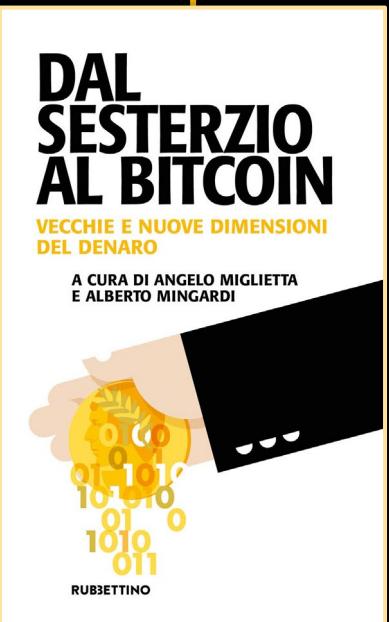
Il Sole **24 ORE**

www.dgi.io/2021/05/11/il-sole-24-ore

Webinars



Lodi Liberale



www.dgi.io/2021/04/16/lodi-liberale

Allianz Bank Business Forum 2021



www.dgi.io/2021/04/15/allianz-bank-bf

Intesi Group



www.dgi.io/2021/05/27/timestamp

Webinars



Lions Club

LIONS CLUB INTERNATIONAL
Lions Club San Daniele del Friuli

FERDINANDO AMETRANO
DOCENTE DI
BITCOIN E BLOCKCHAIN TECHNOLOGY
UNIVERSITÀ MILANO-BICOCCA

introduce
Giorgio Beltrame
Presidente LC San Daniele del Friuli

Conduce
Gabriele Turissini

Bitcoin nella storia della moneta

17 giugno 2021 - ore 20.45

In diretta streaming sui canali
Facebook e YouTube del Lions Club San Daniele del Friuli

Fintastico

ATTIVIAMOENERGIEPOSITIVE.IT
WEBINAR GRATUITO

Bitcoin: stato attuale e sviluppi futuri
Ferdinando Maria Ametrano & Fabrizio Villani

23 Giugno 2021
17:00-18:00

Cresce, crolla e ricresce:
Bitcoin resiste agli attacchi e continua a evolvere diventando sempre di più di interesse anche per le corporate e i players finanziari.

Refink – A&C Law C.C. Marcello Candia

Refink
Business stories with "law"

Il miglior modo per prevedere il futuro è crearlo.
A Lincoln

Annnuziata&Consò è lieta di invitare la S.V. alla tavola rotonda in programma

GIOVEDÌ 24 GIUGNO, 8.45-9.30

La custodia dei cripto-asset nel sistema finanziario

Lo sviluppo di soggetti che forniscono i servizi di custodia dei cripto-assetts costituiscono un tassello indispensabile per lo sviluppo dell'industria, attraverso l'aumento della sicurezza nella detenzione degli stessi e lo sviluppo di sistemi di controllo dell'attività degli altri operatori che intermediano o gestiscono i cripto-assetts.

Ferdinando M. Ametrano
Annnuziata&Consò
Mariano Carozzi
Annnuziata&Consò
Antonio Di Giorgio
Annnuziata&Consò

con il patrocinio del
Comune di Melzo
CITTÀ di MELZO
Città metropolitana di Milano

Date a Cesare quel che è di Cesare

**La moneta è solo di Cesare?
Cos'è la moneta? E il Bitcoin?**

Ferdinando Ametrano

Bitcoin & Blockchain Technology
Università Milano - Bicocca
Fondatore e Direttore Scientifico
Digital Gold Institute
Amministratore Delegato di CheckSig
Servizi di custodia Bitcoin

Venerdì 25 giugno, ore 21

**in streaming sul canale YouTube
del Centro Culturale Marcello Candia**

Media Appearances



Linklaters

TG3

Class CNBC
CNBC

RSI
Radiotelevisione
svizzera

Il Sole 24 ORE

We WEALTH

Linklaters

www.dgi.io/2021/06/25/linklater

Fuori TG – TG3

www.dgi.io/2021/06/16/fuoritg-tg3

Class CNBC

www.dgi.io/2021/06/15/class-cnbc

www.dgi.io/2021/06/05/class-cnbc

www.dgi.io/2021/05/19/class-cnbc

Radio Televisione Svizzera

www.dgi.io/2021/06/07/rsi

Il Sole 24 Ore

www.dgi.io/2021/06/06/il-sole-24-ore

We Wealth

www.dgi.io/2021/06/04/we-wealth

www.dgi.io/2021/05/24/we-wealth

www.dgi.io/2021/05/14/we-wealth

www.dgi.io/2021/04/17/we-wealth

Rai Radio 1

IL FOGLIO
quotidiano

adnkronos

il POST

Startupitalia!
Startupitalia!

Rai News 24

Le IENE

Agenda Digitale
Digitale.eu

Rai Radio 1

www.dgi.io/2021/05/20/rairadio1

Il Foglio

www.dgi.io/2021/04/28/il-foglio

Adnkronos

www.dgi.io/2021/04/27/adnkronos

www.dgi.io/2021/04/26/adnkronos

www.dgi.io/2021/03/29/adnkronos

Il Post

www.dgi.io/2021/04/23/il-post

StartUpItalia!

www.dgi.io/2021/04/22/smartmoney

Rai News24

www.dgi.io/2021/04/21/rai-news

Le Iene

www.dgi.io/2021/04/19/le-iene

Agenda Digitale

www.dgi.io/2021/04/18/agenda-digitale

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 - 14-15 december 2021
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November 4-5

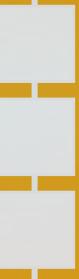
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<https://cryptoassetlab.diseade.unimib.it/calconf/>



INVITED SPEAKER



Guest Speaker

Andrea Cattaneo

General Manager Italy
Head of Italy, Switzerland & Iberia

BNP Paribas Securities Services



I digital-asset nel mondo finanziario europeo



Scarcity in the Digital Realm

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