#### **ICAEW KNOW-HOW**

#### FINANCIAL SERVICES FACULTY





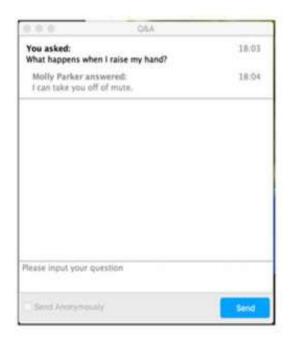


Beyond Bitcoin: A new year with new challenges for cryptocurrencies & digital assets

1 March 2023

The webinar will begin shortly.

# Ask a question



## To ask a question

Click on the **Q&A** button in the bottom toolbar to open the submit question prompt.

Type your question and click send

NOTE: If you wish to ask your question anonymously check the **send anonymously** box shown on the illustration.

# Today's presenters



Gavin Brown
Associate Professor in Financial Technology
The University of Liverpool.



Dion Seymour Crypto and Digital Assets Technical Director Andersen

#### The Year That Was 2022

- 2022 was an active year for cryptoassets
- Bitcoin valuation
- "The merge"
- High profile news:
  - Fall in the use of DeFi
  - Sanctions on Tornado Cash
  - FTX fraud
- Governments around the world undertook more determinative action on the regulation of cryptoassets. It is expected that the failures will push for further consideration as to what to do about crypto.

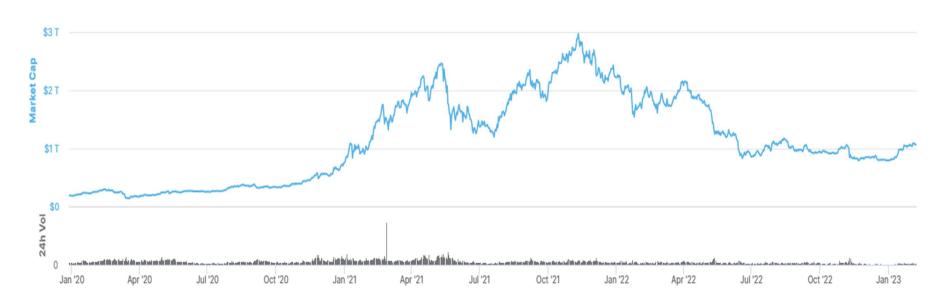


# The Size Of The Sector

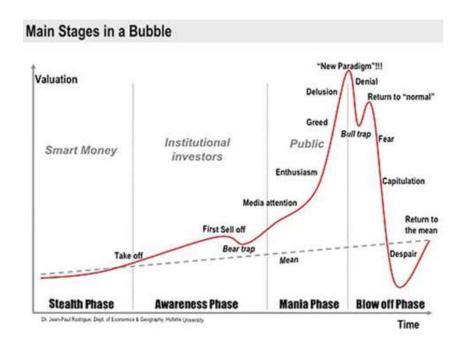
• The "crypto winter"

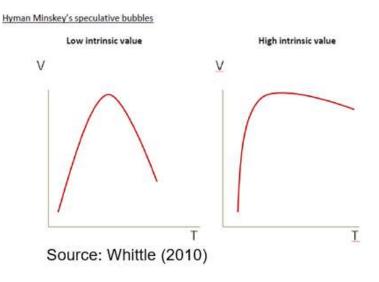
Source: Coinmarketcap.com

Small sector



#### Is Bitcoin a bubble?

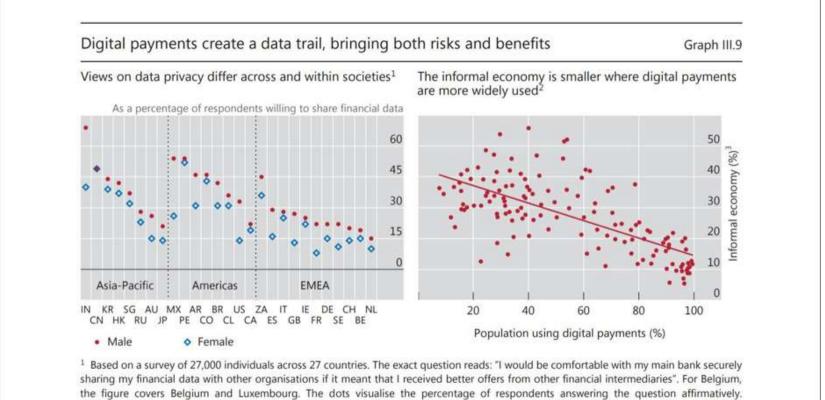




# Momentum from Bitcoin & decentralised ledger technology platforms

Circulating Supply	Price 9	Market Cap	# Currency	
230,220,000,000,000 CNY	326 sats	752,036,843 BTC	0 1 <b>(20)</b> CNY	
20,883,848,715,000 USE	2,109 sats	440,525,536 BTC	● 2 ■ USD	
14,024,781,000,000 EUF	2,489 sats	349,129,154 BTC	<b>©</b> 3 ■ EUR	
1,515,543,000,000,000 JP	19 sats	291,069,080 BTC	<b>○</b> 4	
3,373,025,000,000 GBR	2,903 sats	97,920,980 BTC		
4,693,468,000,000,000 KRV	1 sats	85,521,833 BTC		
194,037,000,000,000 INF	28 sats	56,116,780 BTC	● 7 <b>I</b> INR	
3,003,837,000,000 CAE	1,669 sats	50,134,843 BTC	<b>●</b> 8	
16,270,817,000,000 HKE	271 sats	44,123,803 BTC		
52,031,665,000,000 TWE	76 sats	39,698,341 BTC	● 10 ■ TWD	
2,512,000,000,000 AUD	1,541 sats	38,727,219 BTC		
8,426,368,000,000 BRI	412 sats	34,722,223 BTC	● 12	
1,157,827,000,000 CHI	2,302 sats	26,653,236 BTC	0 13 ☐ CHF	Bitcoin
18,802,650 BTC	100,000,000 sats	18,802,650 BTC	● 14	
59,380,000,000,000 RUE	28 sats	17,096,612 BTC	● 15 ■ RUB	
23,109,000,000,000 THE	65 sats	15,105,753 BTC	<b>○</b> 16 <b>■</b> THB	

## Money & payments with better memory



EMEA = Europe, the Middle East and Africa. <sup>2</sup> Data as of 2017. <sup>3</sup> Estimates of the informal ("shadow") economy based on a multiple indicator-multiple cause approach.

# Tesla and the rise of cryptocurrency as a treasury asset (Q1 2021)...



Academic rigour, journalistic flair

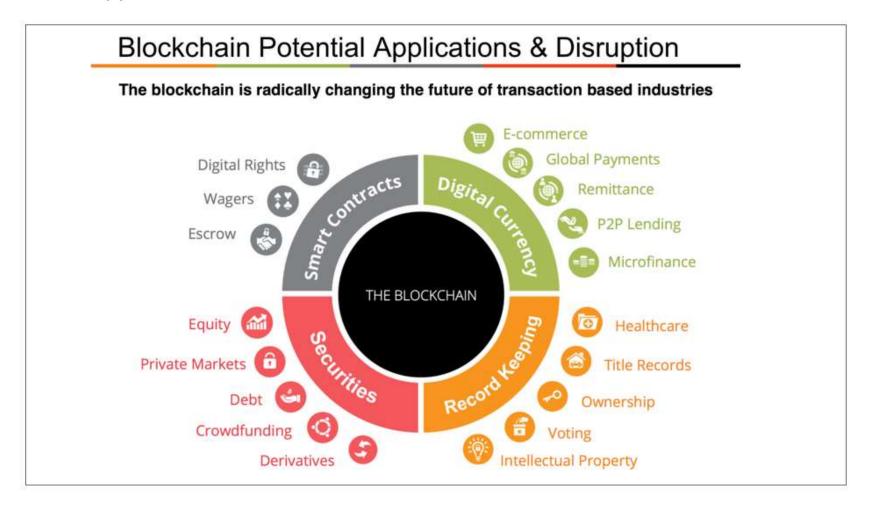
Bitcoin: why a wave of huge companies like Tesla rushing to invest could derail the stock market



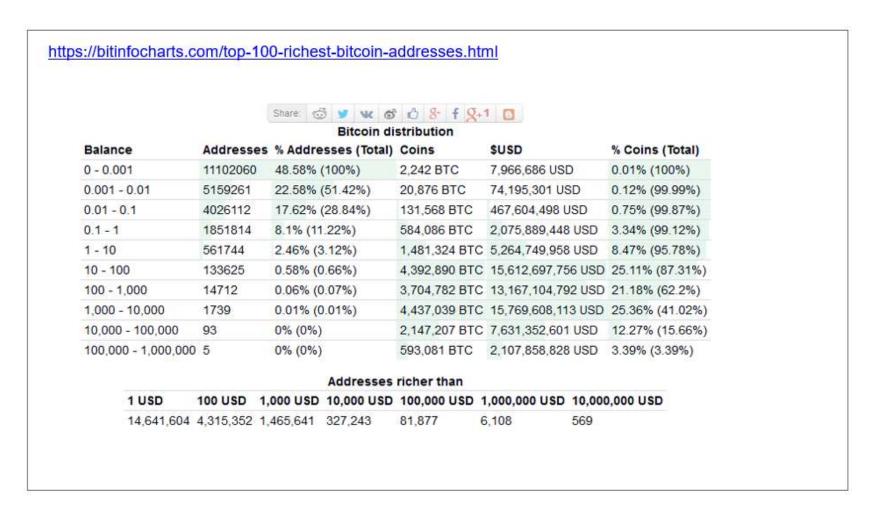
https:///heconversation.com/bifcoin-why-a-wave-of-huge-companies-like-testa-rushing-to-invest-could-detail-the-stock-market-154988

#### **Bitcoin Treasuries** Symbol Market Cap N. BTC Purchases Prings States Prince USS Soday's Nature BRESSE | Design | D - MODEL BUTSHEAM CAN ENGINEERING /ETTENO,000 \$113,700.070 \$402789C on /\$7,927,982 845,760,803 1,239.895 oo Ref Bronzham, Nr. 10 MOSPIOT 18135/91-18 174 21216/A-000202 /87200.000 810-01-475 1,175 8PC 200 or promotion, new many descriptions of the control business or con Contract Holdings Inc. in cost on account of account management of the cost of Advance@Distant Retrieve - vertical - conduct - MANUEL MANUEL ON THREETHER NAMED BUSINESS. | Depley | Technology | 1 Text 184 BEC = MAY BEC. IN 75 BTC 100 712.214.010 \$3,234.016 NY DESCRIPTION /511.000.000 \$540.000.000 10.000.000 and Desputate Ritual Total Composition of the Compositi NELSO, NAC AND RECORD COLUMN \$770-170,012 \$1110-101.211 64,730-80C 111 Multi-Investment Compan -- LOWING -- Nation 07.4 -- TURBURETON 5744,290,000 32319,400,001 45,600 BPC 21-30 The September 19 Texason 19 Strategies 1995 Physical Properties \$1,202,007.101 \$1,202,007.101 \$2,302,007.101 EIT SACRETIANO BORRETANO BANKETON BANKETON BANKETON BUTCH SACRET BORRET BORRETAN BANKET BANKE | Project 60000.017 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | \$279.204.073 | Learning Bitcom Tractor U := URTCTG IncludE.3 other markets \$106,790,272 \$106,700,272 2,974,87C HO \$84,379,003 \$84,379,803 \$4,839.00C 00:

### Wider applications across other industries



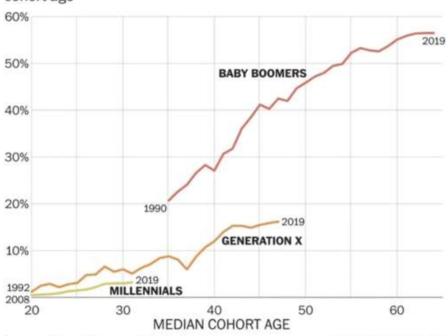
#### E.g. the underlying Bitcoin blockchain is public



# Why are the younger generation turning to Bitcoin?

#### Intergenerational wealth

Share of national wealth owned by each generation, by median cohort age



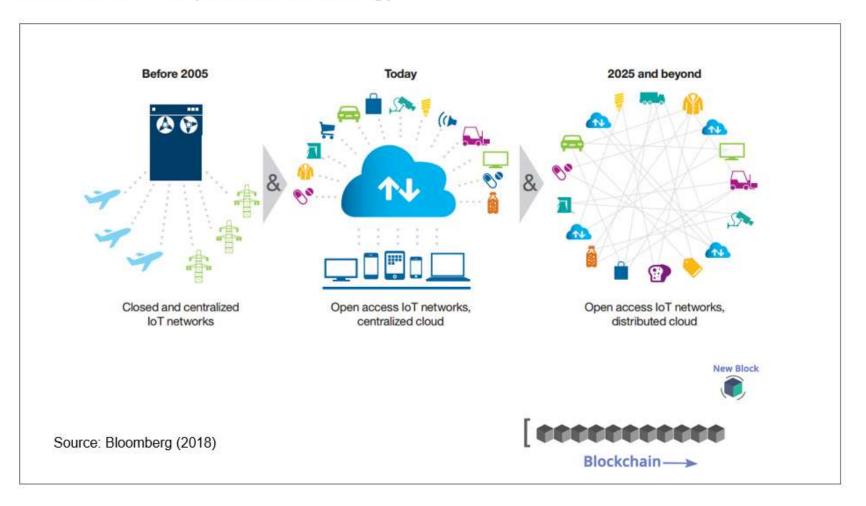
Source: Federal Reserve Distributional Accounts Chart adapted from Gray Kimbrough

THE WASHINGTON POST

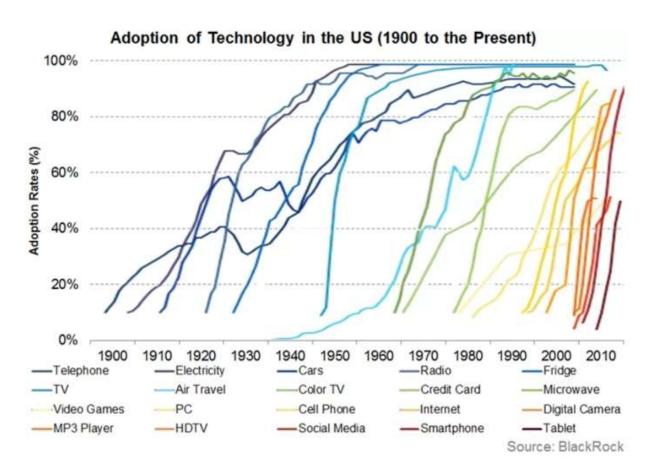
### Too small to pose a risk but crypto assets may rewrite the rule book



# Blockchain - the platform technology



#### If cryptocurrencies & tokens are so good where is the mass adoption?



# UK Activity

- Global hub
- HM Treasury
  - Future Financial Services Regulatory Regime for Cryptoassets
- Bank of England
  - Digital Pound
  - What is a CBDC
- HMRC
  - DeFi consultation

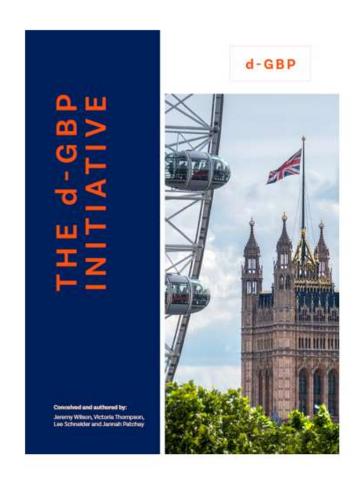


#### A potential route forward? - Central Bank Digital Currencies (CBDC). 3 models by The BoE

#### DIFFERENT TYPES OF CENTRAL BANK DIGITAL CURRENCIES ★ Wholesale CBDC Retail CBDC TWO-TIERED PLATFORM NATIONAL CROSS-BORDER SYNTHETIC CBDC APPROACH ISSUANCE Central Bank Central Bank Central Bank + Bank ... Bank Regulated Regulated Regulated Node Node Stablecoin Issuers Platform/Infrastructure Intermediaries Intermediaries Intermediaries Regulated Regulated Intermediaries Intermediaries Used for domestic payments. Allows to impove on existing RTGS systems. Used for cross-border transactions CBDC issued to regulated The Central Bank would CBDC issued by Issuers between national wholesale CBDC intermediary who then build a tech platform with (e.g., non-bank FinTechs) -Examples: systems. distibute to the public. CBDC functionality which similar to narrow banking Canada (Project Jasper) Counterparty risk towards allows private sector (e.g., no lending, 100% Singapore (Project Ubin) firms, including banks and liabilities covered by Examples: the regulated South Africa (Project Khokha) intermediaries. non-bank Fin-Techs to reseves at central bank. Hong Kong & Thailand (Project Thailand (Project Inthanon) and focused on facilitating connect and provide LionRock-Inthanon) Japan and ECB (Project Stella) customer-facing services. payments). Examples: Saudi Arabia and UAE (Project Aber) Sweden (E-Krona 2020) China (DCEP) Examples: Examples: USA (Digital Dollar) IMF (Synthetic CBDC) United Kingdom Bahamas (Sand Dollar) (BofE 2020) Ukraine (E-Hryvnin) East. Caribbean (DXCD) Sweden (E-Krona 2018)

Source: Arslanian (2022)

# CBDC's are delayed but not forgotten during COVID-19





# 2023: The year of regulation?

- Governments and regulators
- UK consultations from:
  - HMT
  - Bank of England
- Elsewhere
  - Markets in Crypto Assets (MiCA EU)
  - Infrastructure Bill (US)
  - Securities and Exchange Commission (SEC US)
  - Crypto Asset Reporting Framework (CARF OECD)



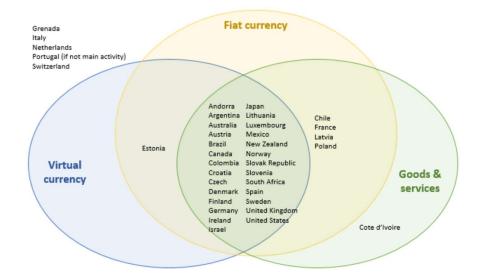
# US Activity

- FTX
- Securities and Exchange Commission (SEC)
  - Kraken and staking
  - Binance and stablecoins



# \_Tax – International Approaches

- There are some differences between international approaches
  - Most have similar views as the UK
- Some are different for example:
  - Portugal
  - Switzerland
- Cryptoasset Reporting Framework (CARF)



Source: Taxing Virtual Currencies: An Overview of Tax Treatments and Emerging Tax Policy Issues. OECD 2020.





# Any questions?

# Thank you for attending

Please take the time to fill out our short survey:

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