

Day One: 11:20 - 12:00





Challenge speech: Digital Money, Digital Assets, Digital Identity: The Future of Banking



Dave BirchAuthor, Advisor and
Commentator



Digital Assets, Digital Money, Digital ID The Future of Banking

EBAday Lisbon, June 2024

Framing the issues in a structured response to ongoing debates and developments

DAVID G.W. BIRCH

Author, advisor and commentator on digital financial services

Money in the Metaverse, with Victoria Richardson (Spring 2024).

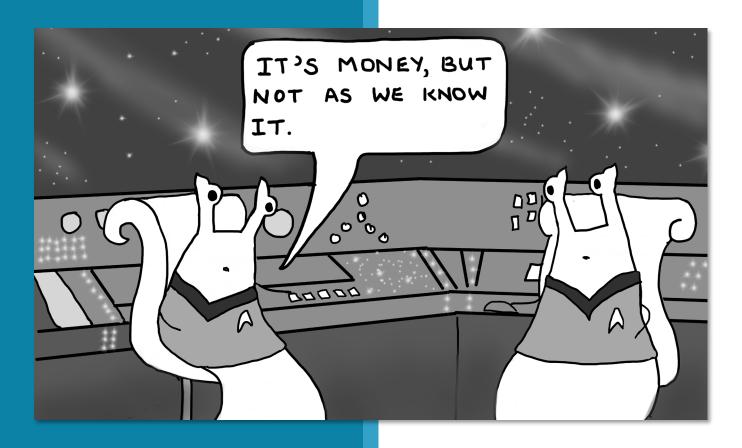
The Currency Cold War (2020).

Before Babylon, Beyond Bitcoin (2017).

Identity is the New Money (2013).

Digital Identity Management (ed. 2007).

Forbes and Financial World.

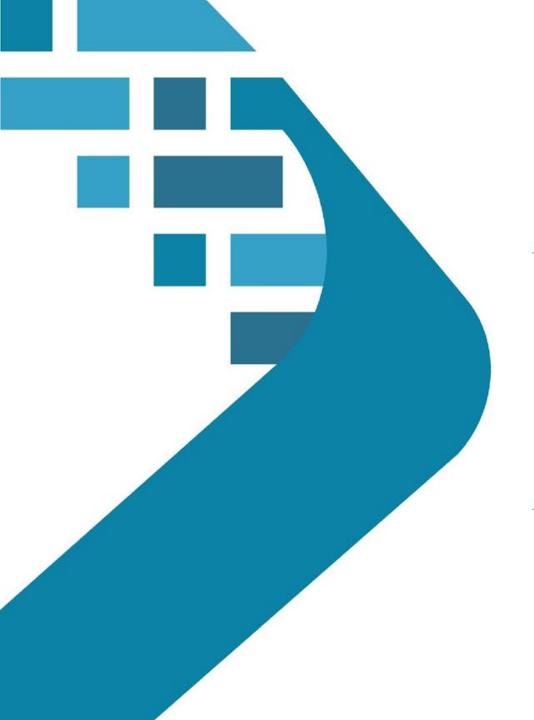














Digital Assets

Decentralised finance is going to be big

This isn't about ideology or theology it's about business pure and simple







Don't Listen to Me!

Listen to what the people who matter are saying



Jonathan Larsen (chief innovation officer of Ping An Group and head of Ping An Global Voyager Fund) told me on stage at Money20/20 Asia in 2019:

Tokenization is a really massive trend... a much bigger story that cryptocurrencies, initial coin offerings (ICOs), and even blockchain.

Forbes

Larry Fink Says Tokens Are "The Next Generation For Markets"

David G.W. Birch Contributor ①

Author, advisor and global commentator on digital financial services.

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Mar 1, 2023, 10:56am EST



Larry Fink, chief executive officer of Blackrock Inc., speaks an event on the sidelines of day three ... [+] © 2023 BLOOMBERG FINANCE LP

The CEO of Blackrock, Larry Fink, recently said that tokenization will be "the next generation for markets". If you think of tokens as bitcoin btc 0.0% or pictures of chimpanzees with sunglasses on, you might well think that the man who runs the biggest asset management company (with \$7 trillion under management) is out on a limb. But if you think of tokens as digital assets that can

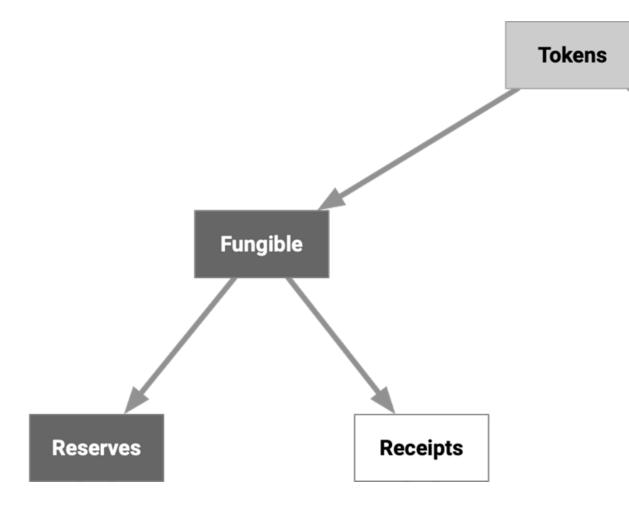








Fungible



Forbes

Feb 28, 2021, 12:30pm EST | 8,464 views

You Can't Launder Bitcoins!



David G.W. Birch Contributor [©]
Fintech

Author, advisor and global commentator on digital financial services.

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-06:58

Dollars Are Fungible, Bitcoins Are Not.

Some people mine Pitcoin for profits but some some people mine it for politics.

The Foundation for Defense of Democracies (FDD), a Washington think tank, summarise at the emerging situation rather well in their position paper "Crypto Rogues". They noted that "blockchain technology may be the innovation that enables U.S. adversaries for the first time to operate entire economics outside the U.S.-led financial

Useless

v, while this may be technically slig
ransactions without a blockchain a
d a working paper describing how t

ways to create
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widespread availability of decentralised financial services infrastructure.





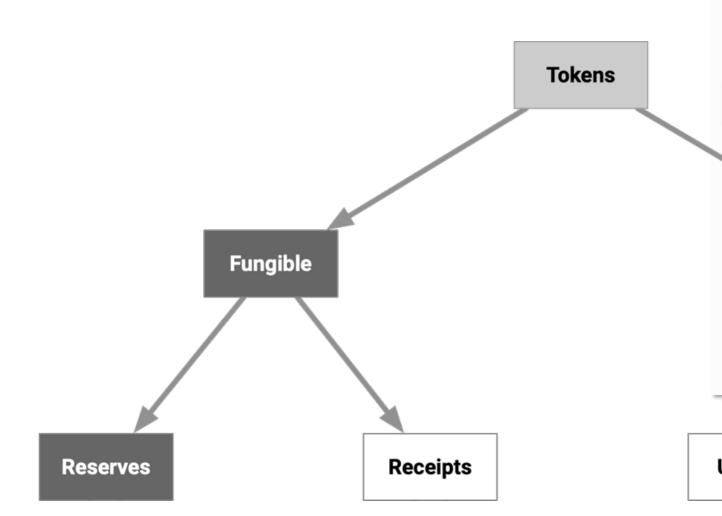








Non-Fungible



Forbes

Mar 7, 2021, 03:30pm EST | 1,262 views

Not Your Keys, Not Your Kings Of Leon



"When bankers get together for dinner, they discuss Art. When artists get together for dinner, they discuss Money" -Oscar Wilde.

You've probably reach test crypto-craze to obsess the robinhoodies of the **Non-** awrence Wintermeyer wrote a great piece about it here, descrii **Fungible** guild of "art digitalists" bought an original Banksy and then set me to canter one uzing the piece into a non-fungible token (NFT). Now, you may think (as ¹ did) that this is more of a piece of performance art itself than a window into a new vorld that decentralises Sotheby's out of existence, but it is undeniably interesting. That's because, trivially copyable artworks to one side, NFTs will indeed mean radically more efficient markets.

Useless

Useful

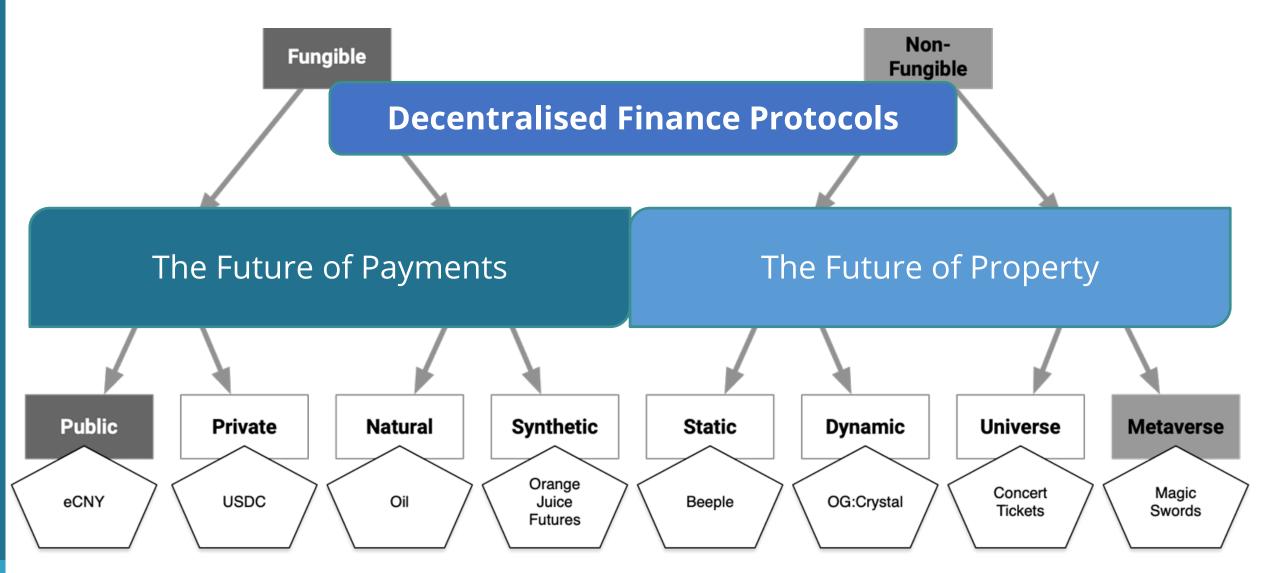








The Token Economy











TOKENISATION AND MARKETS

Tokens and DeFi Form New Market Infrastructure



Initial Market Structure



Interim Market Structure



Final Market Structure

The initial market structure (characterised by siloed ledgers) is one of **experimentation** where the industry and regulators grow comfortable with the technology in a wholesale environment.

The interim market structure is where previously siloed ledgers become interoperable and wholesale institutions begin to use these technologies to tokenise previously illiquid assets.

The final market structure is when ledgers become universal, and all financial instruments are tokenised.









THE FINTERNET

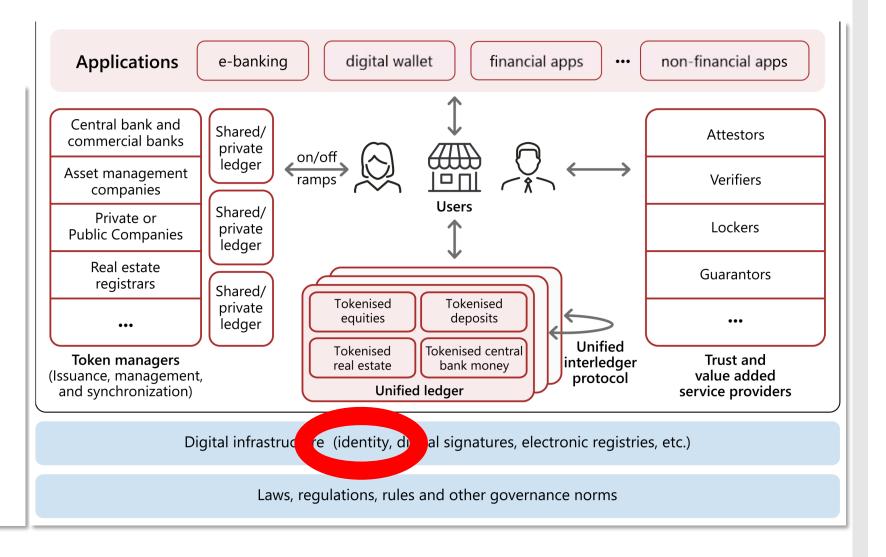
The BIS Vision



BIS Working Papers
No 1178

Finternet: the financial system for the future

by Agustín Carstens and Nandan Nilekani

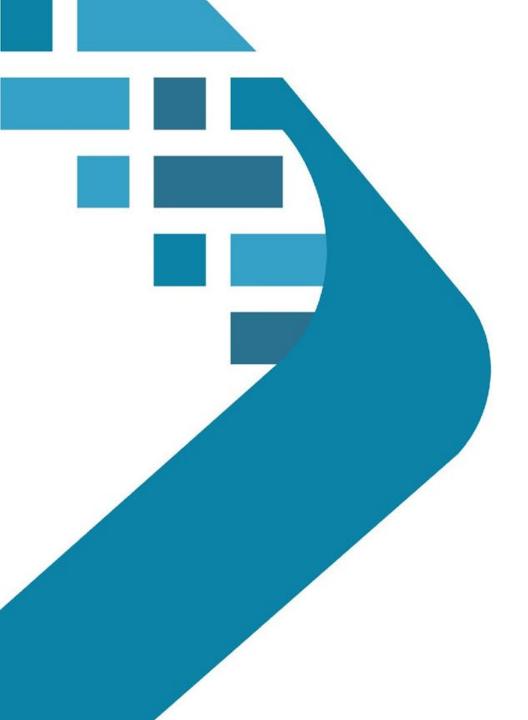














CBDC

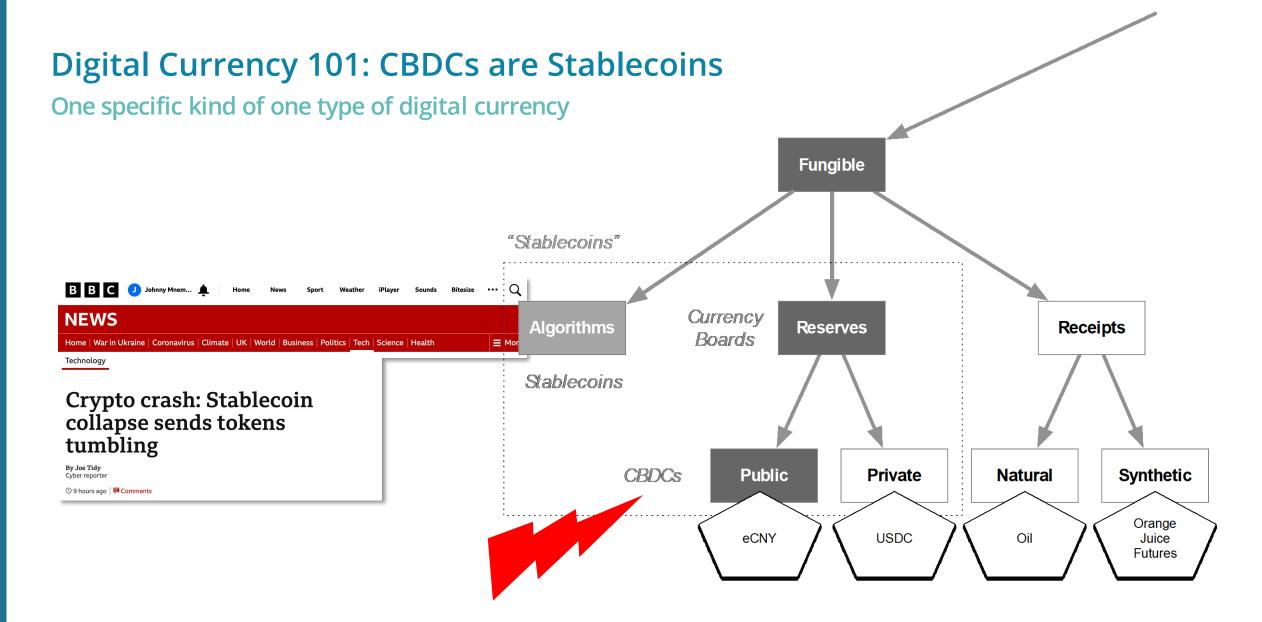
We need to be right, we do need it tomorrow

And if you are going to make any transactions "offline" then make all transactions "offline"

















Why Bother?

There is no burning platform, but here are some key drivers

Sovereignty

Internal impact of electronic cash

National security.

Control and regulation.

Money supply.

Economic growth.

Financial stability.

Influence

External impact of of electronic cash

Interoperability.

Soft power.

Projection of values.

Human rights.

Data flows.

Political

Inclusion

Manage the decline of physical cash

Social policy.

Law enforcement.

Financial Inclusion.

Cost savings.

Provision of viable alternatives.

Sustainability

Long term infrastructure

Raise net welfare

Reduce ecological impact of currency. production, distribution and circulation.

Minimise the impact of digital alternatives.

Support generational change.

Economic and Social

Resilience

Risk mitigation

Cyberdefence and security.

Identity.

Authentication and authorisation.

Privacy

Offline (device to device) use.

Innovation

New products and services

APIs.

Permissionless.

Programmability.

Competition.

Platforms.

Technological



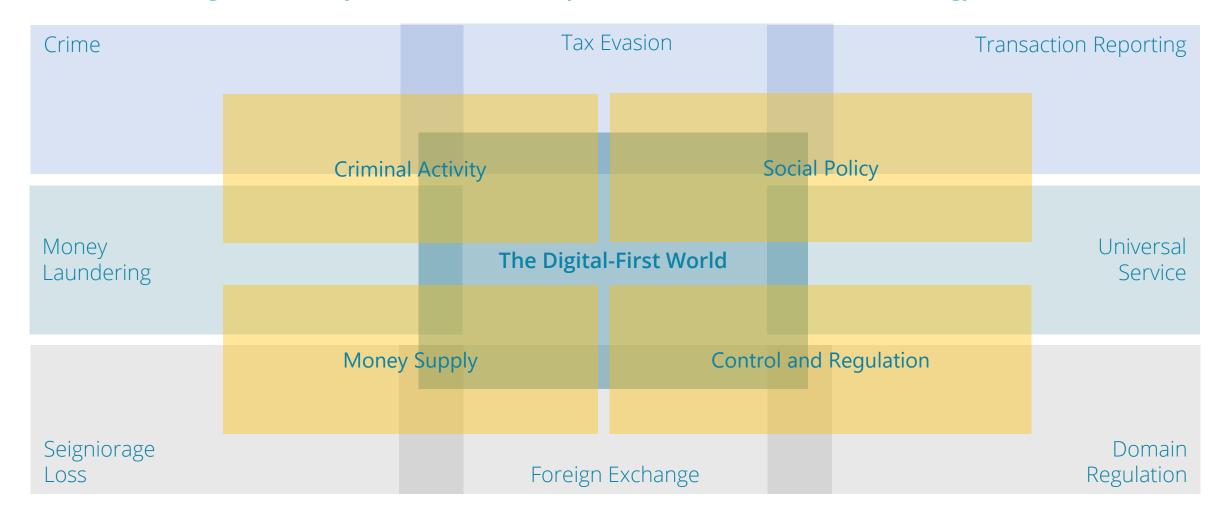






National Strategy

Central bank digital currency needs to be developed in the context of a wider strategy











SO...

What's going on?





inflation Fidel speed ahead investors







CONTEXT

Bank of England Consultation Response

Primary legislation

Both Houses of Parliament.

Privacy

The Bank and the Government would not access users' personal data

It seems to me that in a democratic society law enforcement must be able access this data!

Programmability

The Bank and the Government would not program a digital pound

PIPs (and users) should be able to? Or not?

Access to cash
Safeguards.

Bank of England and HM Treasury

Response to the Bank of England and HM Treasury Consultation Paper: The digital pound: a new form of money for households and businesses?

Bank of England



Consultation Response









CBDC Taxonomy

National Association of German Cooperative Banks (BVR), Association of German Banks (BdB), Association of German Public Banks (VÖB), German Savings Banks Association (DSGV) and Association of German Pfandbrief Banks (vdp)

Wholesale CBDC

Issued by the central bank to be used for the capital markets and interbank transfers.

The GBIC's experts are calling for this special form of the digital euro partly because, by adopting this approach, the ECB would be able to include further digitalisation of central bank accounts in its project.

The ultimate aim is to achieve improvements which can benefit consumers, enterprises and also the banking sector.

(See also Bank of England *Omnibus*.)

Retail CBDC

Issued by the central bank is to be used by private individuals in the euro area in the same way as cash for everyday payments, e.g., to retailers or government agencies.

It should be possible to use the digital euro like cash, anonymously and offline.

For this purpose, credit institutions will provide consumers in Europe with "CBDC wallets", i.e., electronic wallets.

(I don't think this should be restricted to credit institutions.)

Machine CBDC

"Tokenised commercial bank money" made available by commercial and savings banks.

This is to complement the two forms of digital central bank money, in particular to meet corporate demand arising from Industry 4.0 and the Internet of Things.

It could facilitate transactions based on "smart" – i.e., automated – contracts and thus increase process efficiency.









Optimising Currency

Why use the same implementation across all use cases?

Support the Post-Industrial Economy The German view that productivity and B2B Higher value, lower volume, complex instruments. Online. therefore economic growth will come from automation and "industry 4.0" must mean different kinds of money. P2P Lower value, medium volume, cash replacement. Online and offline. M2 M Low value, high volume. Intermittently online.

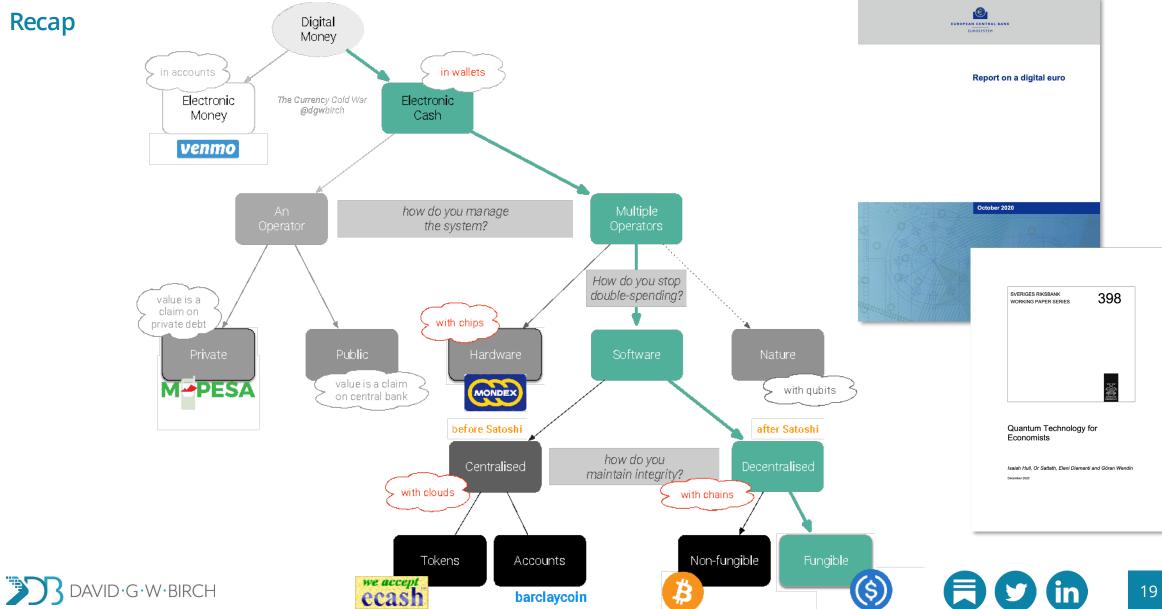






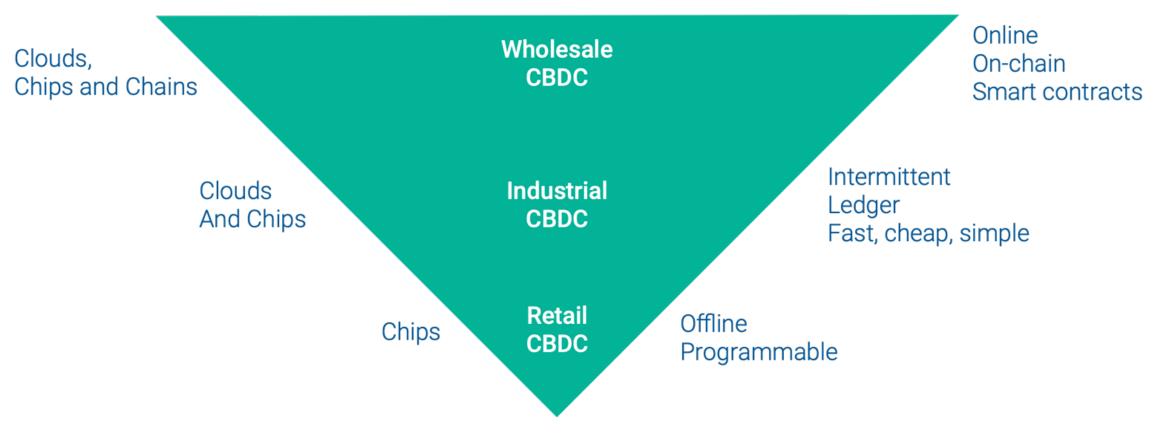


CBDC Architecture



We Have The Technology

One size does not fit all





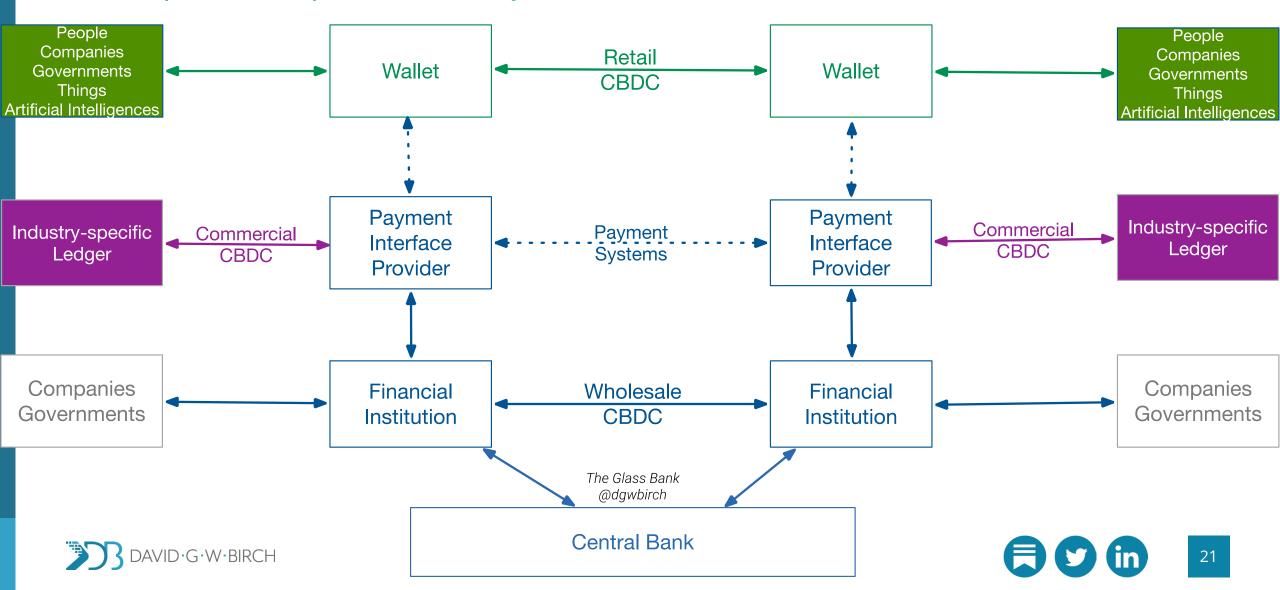






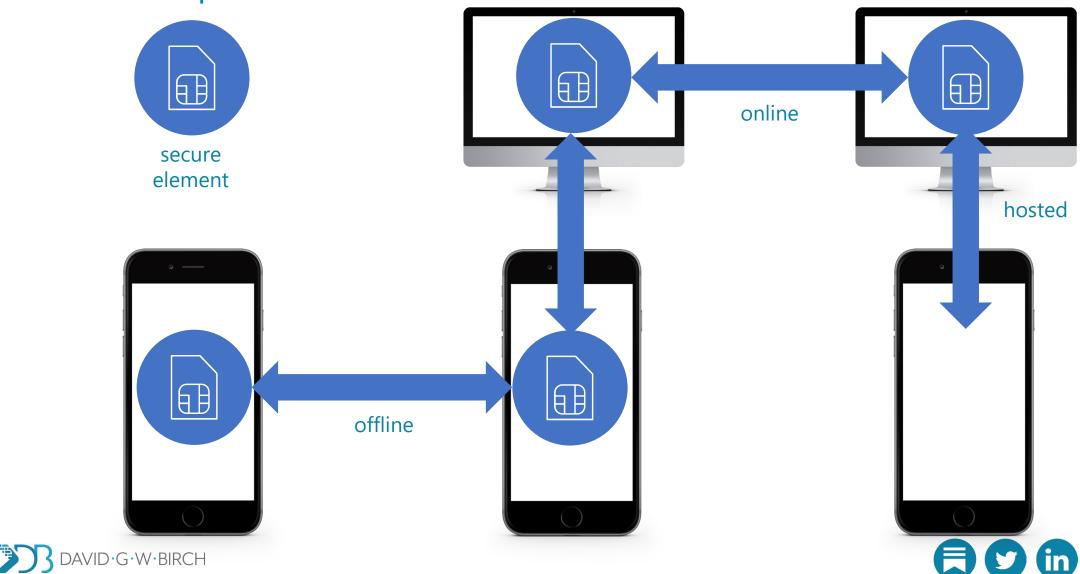
Strawman

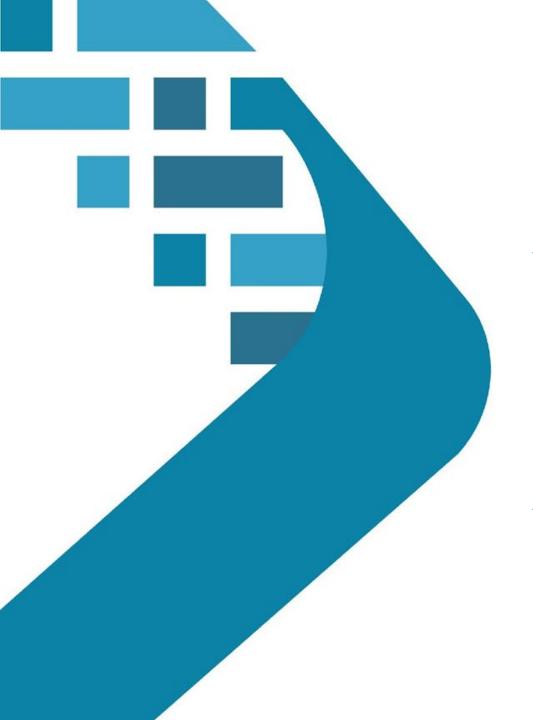
An example of how implementations may interact



Retail Marketecture

Two Tier with Tamper-Resistant Hardware







Digital Identity

The foundation for changes

If you know who all of the participants in a transaction are payments just accounting





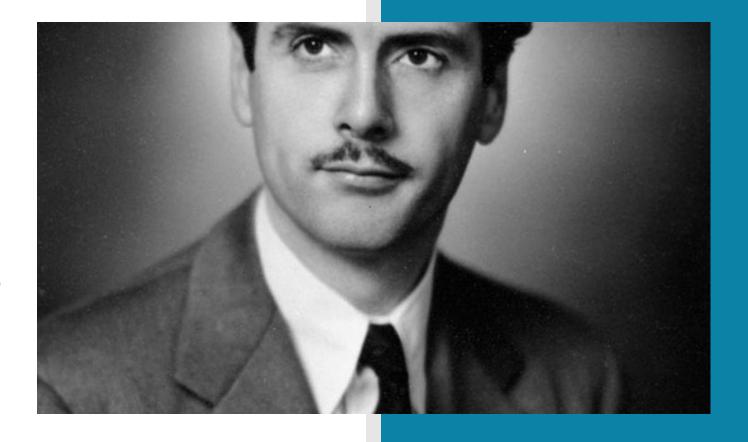


WHAT. A. GUY.

Marshall McLuhan was right about everything

In the new electric world, where everybody is involved with everybody, where everybody is involved in complex processes, the old identity cards, the old means of finding out who am I, will not work

(I wish that more people would take this onboard, give up trying to digitise the old identity systems and start building the new digital identity system we need.)



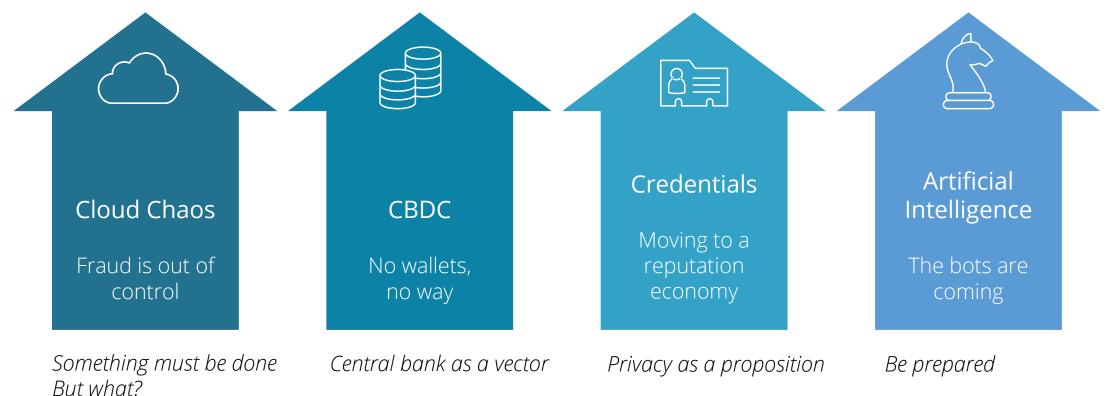






DIGITAL IDENTITY DRIVERS

Why now?











DIGITISED IS NOT GOOD ENOUGH

Electronic paper is not the way forward

Digitised Identity	Digital Identity
Nodes	Edges
Static	Dynamic
Single	Multiple
Hierarchy	Relationships
Dumb	Smart
Stand-alone	Interactive









THE WALLET WARS

It used to be about top of wallet, now it's about wallet

EU Digital ID Wallet 2027?











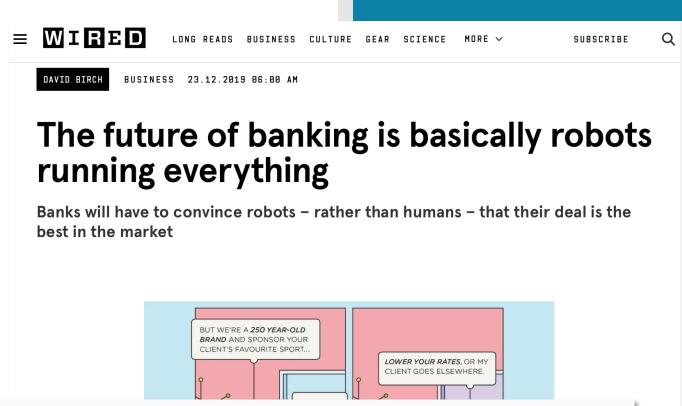
WHY BOTS?

There are two kinds of transactions

Most transactions are so boring, why are people involved in them at all?!

The transactions that are not boring are too complicated for most people to understand.

ChatGPT can already fight parking tickets, so why can't it pay for the parking in the first place?



"the big change in financial services will come when customers use AI to assess offers from financial institutions"







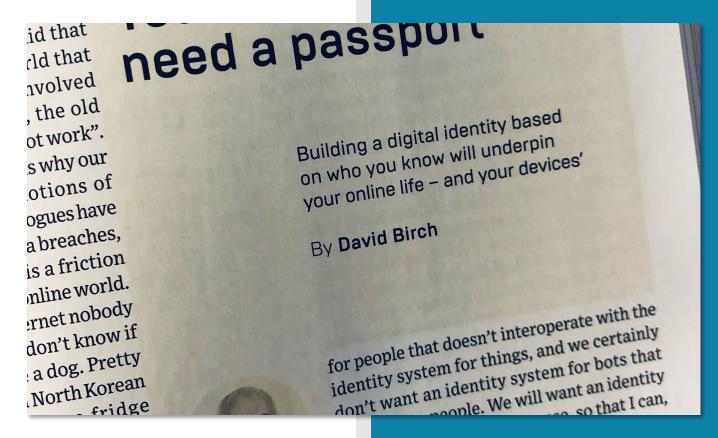


ROBOTS NEED PASSPORTS

The missing piece is digital identity

How will you know if the bank is real? You can't even tell if that photo of Boris Johnson being arrested is real or not.

And how will the bank know that it's you and not a bot pretending to be you to fool to voice recognition?











WE KNOW WHAT THE PROBLEM IS

But who will fix it?

"It's not about payment. It's about identity"

Jack Dorsey, Founder of Square and Twitter

New York Times 22nd December 2013



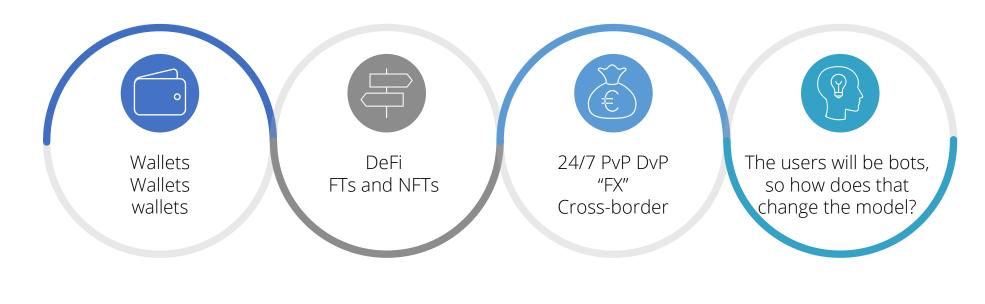






The Bank Response

What makes strategic sense?



O 1 Digital Identity European ID Credentials

O2 Digital Assets
NFTs
Real-World
Assets

Digital Money
Stablecoins
CBDC

04 Al...









ONE MORE THING...

Announcing DaveGPT...

















THANKS!

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Thank you to speaker

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