# Do token-based digital assets matter? Where are we in this journey?

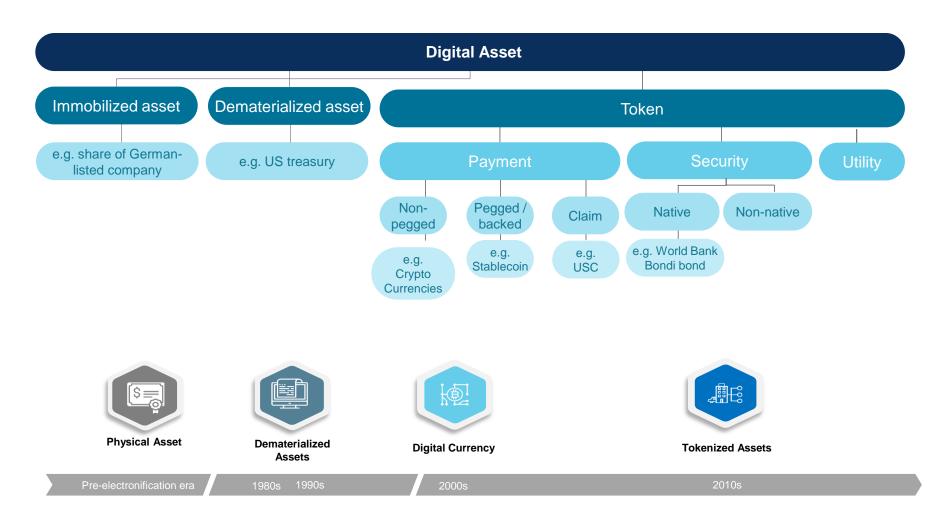
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Michele Curtoni – Digital Product Development

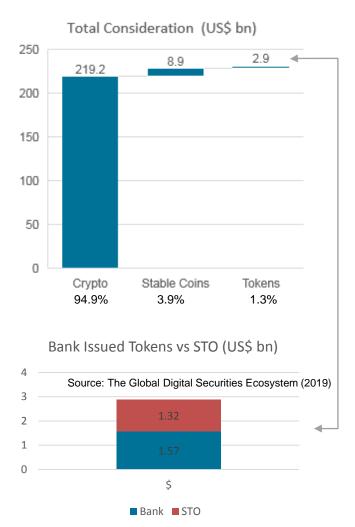


## Digital Assets taxonomy

Digital Assets have been around for a while, but now something new is coming about



# The digital asset market is skewed towards crypto for now

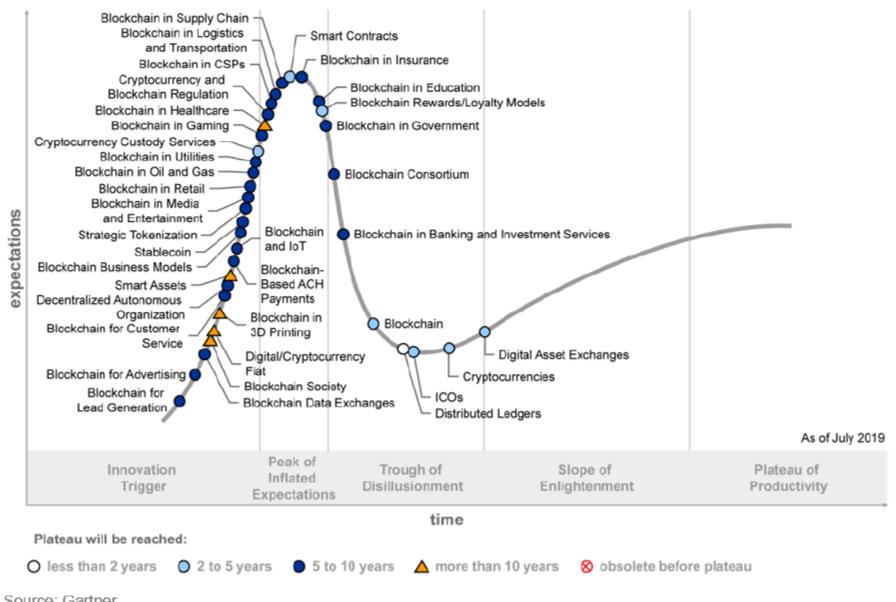


#### **Estimated Valuations**

Crypto Companies	Valuation	Founded	Industry
Bitmain	\$12B	2013	Mining, Hardware
Coinbase	\$8B	2012	Exchange / Custody
Kraken	\$4B	2011	Exchange
Binance	\$2B+	2017	Exchange
Bitfury	\$1B	2011	Mining / Infrastructure
Liquid	\$1B	2014	Exchange

Source: Crunchbase, Bloomberg, 2019, Coindesk, 2018, SST adjustments

### Hype Cycle for Blockchain Business, 2019



Source: Gartner ID: 390391

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# Why is tokenisation being "promoted" to financial services?

# Tokenisation is in competition with existing/legacy tech

There are opposing views whether tokenization will impact wholesale financial services

INSTITUTIONAL			RETAIL			
	Current State	Target State – Legacy Tech	Target State - DA		Target State – Legacy Tech	Target State - DA
Speed	Financial transactions can be subject to delays or fails	Existing platforms and market practices are embracing faster settlement	Atomic settlement; instant transaction (T0 vs T+2)	Distribution	Outsourced transfer agency. Reduction and elimination fees	Digital transfer agency models
Transparency	Account based models don't allow to track asset	Market is embracing transparency improve existing op model	Better end-to-end control, settlement finality, and single source of truth	Inclusion/ Access	Stock splits	Fractionalization of assets
Cost & Risk Efficiency	Counterparty risk and/or cost	Industry is embracing process standardization	No counterparty risk. Systemic risk is mitigated by decentralization	User Experience	Online portals	Consumer centric interface that are easy to use
Liquidity	Liquidity is locked in various accounts & platforms	Better tools and processes for cash management and liquidity savings	Central pools of liquidity	Digital Commerce	E-Money	Payment platforms provided by tech companies
	Improve existing infrastructure				okenization	
STATE STREE						

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# Developing a paradigm shift?

### The transition from normal to something new...

"[...] a proliferation of compelling articulations, the willingness to try anything, the expression of explicit discontent, the recourse to philosophy and to debate over fundamentals."

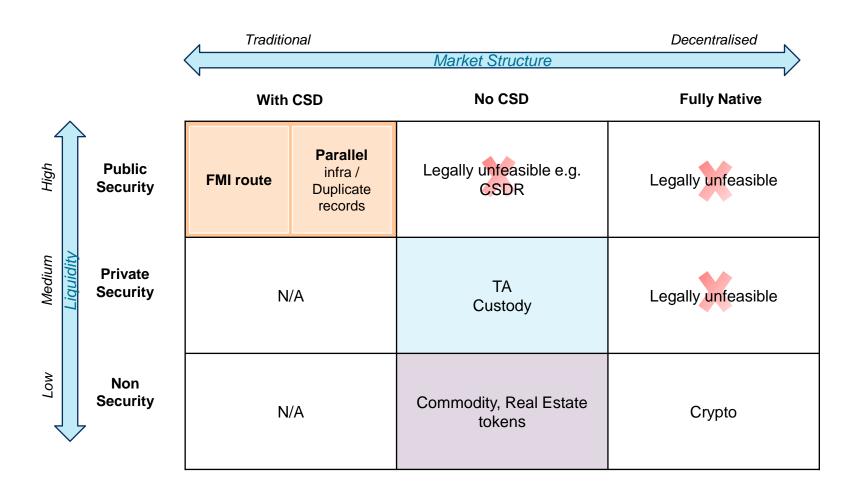
Thomas Kuhn – 1962, The Structure of Scientific Revolutions

### ...is more cultural than logical.

"a new scientific truth does not triumph by convincing its opponents and making them see the light, but rather because its opponents eventually die, and a new generation grows up that is familiar with it."

Max Planck – 1950, Scientific autobiography

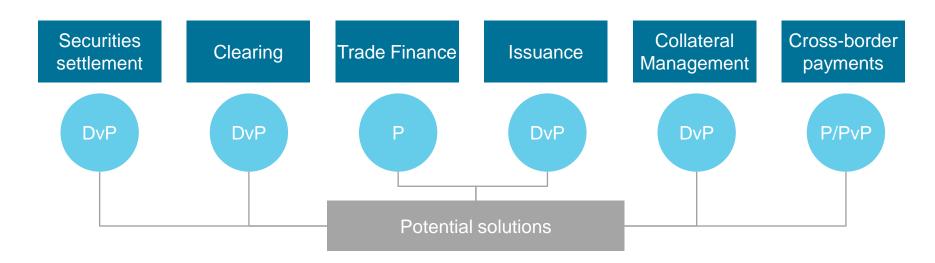
# There are multiple approaches to go about it within current reg framework





# to a tokenised asset world

# An institutional grade payment solution for a tokenised market is missing



#### **Stable Coins**

#### Examples:

- Gemini
- Paxos
- Circle

#### Available:

Now

#### USC

#### Key characteristics

- Market led solution
- Regulated structure aligned with domestic RTGS
- Interoperability
- Settlement Finality

#### Available:

• 2020 (TBC)

#### **CBDC**

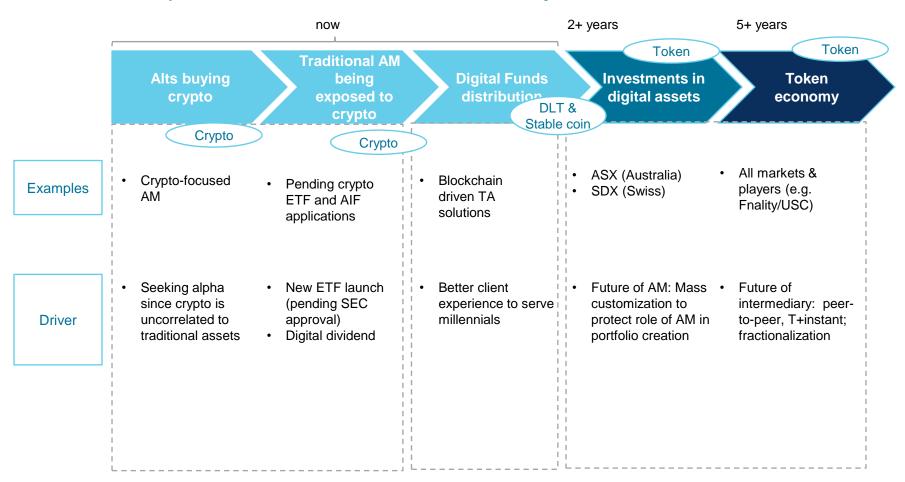
#### Examples:

- Jasper (CAD)
- UBIN (SGD)
- Khoka (ZAR)
- Research from BoE, ECB, BIS etc

#### Available:

TBC

## A roadmap towards a token economy



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