

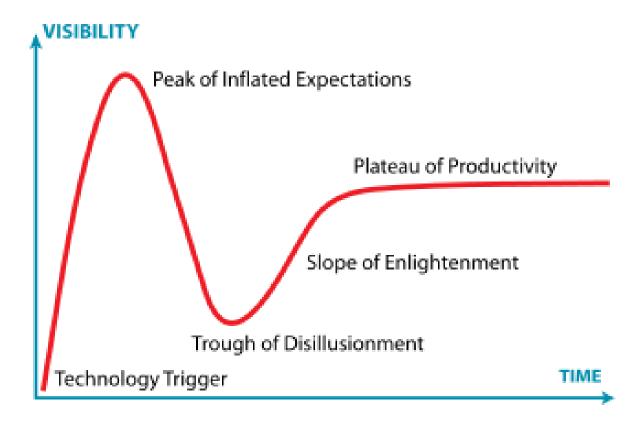
Michael Casey – The Truth Machine: Blockchain and the Future of Everything

Discussion

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Blockchain: towards an eventual "plateau of productivity growth"?



"We tend to overestimate the effect of a technology in the short run and underestimate the effect in the long run"

- Roy Amara



The core value proposition of (decentralized) blockchains

 Consensus formation in network of "strangers" with limited mutual trust and without a central authority (single point of failure)

 Decentralized computing and record keeping: World computers and smart contracts – beyond crypto currencies

 Social Scalability (Szabo, 2017): can reduce coordination costs which facilitates economic activity, but no panacea; innovation incentives



Some technical and developmental challenges: an industry in its infancy?

• Blockchains do not scale (yet?). "Layer 2" solutions and new protocols to address issues such as Buterin's "Trilemma", mining concentration, and finality.

Blockchains are not private (yet?).
 Legitimate need for privacy (e.g. zero-knowledge proofs, ring signatures)

 Blockchains have not attracted many institutional money (yet?). Limited custodial solutions, regulatory uncertainty



Some regulatory concerns and challenges

• Investor protection and ICOs. When a security (Howey test)?

 Criminal use (AML/CFT). The "weakest link" of crypto exchanges. DEX – who to regulate?

• Evasion. Sanctions, capital controls, taxes.

 Consumer protection. Exchange hacks and failures; price volatility.



International response

G20: "...technological innovation, including that underlying crypto-assets, has the potential to improve the efficiency and inclusiveness of the financial system and the economy more broadly."

G20: "Crypto-assets do, however, raise issues with respect to consumer and investor protection, market integrity, tax evasion, money laundering and terrorist financing."

FSB: No financial stability risks (yet), but monitoring warranted

IOSCO: Warnings on ICOs

CPMI: Implications for FMIs, monetary policy, seignorage, Central Bankissued Digital Currencies

