

March 2017

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Permissioned vs. Permissionless Blockchain: Who is winning and how will it play out?

Open versus closed system debate has been occurring for a long time





VS



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Sometimes a lesser product will beat a better product because of the way a market evolves over time



VS



But an open system is not always the clear winner

VS

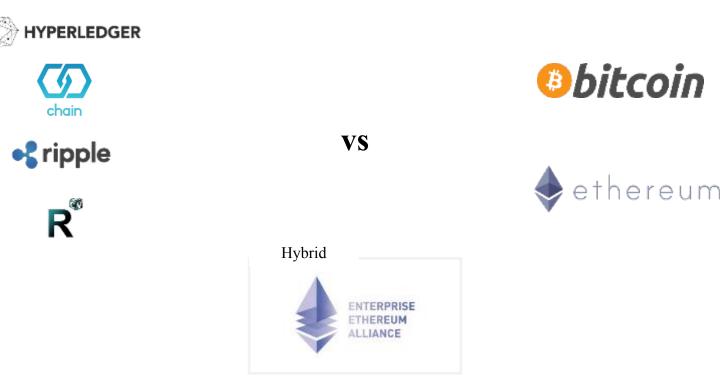






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Same battle is occurring in Blockchain



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Where are we in the battle?



	Permissioned	Permissionless
Privacy	Known participants Anonymous transactions	Bitcoin Pseudonymous Zcash, monero solving privacy
Control	Centrally regulated	Impervious to regulation (China) Barrier to use cases, e.g. remittance
Currency	Supports fiat currencies	Bitcoin emerging as store of value but other use cases stalled
Innovation	More limited albeit well funded ecosystem	Greater innovation through an unlimited ecosystem
Energy consumption	Likely to be more energy efficient	Proof of work model massively energy inefficient
Scalability	More scalable	Bumping up against scalability

Tradeoff between trust vs. cost/scalability

The dark horse - disruption



There are 3 key elements of disruptive innovations:

Start from customer segments of the market that incumbents are not motivated to fight for

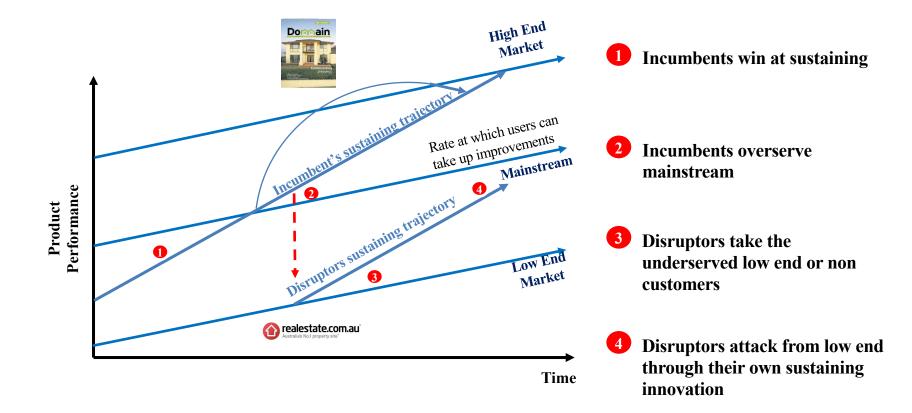
- A New Customer Segment / Non Users
- **B** Low End Customers

2 Have economics that enables them to profitably serve those markets

3 Enabling technology / extensible core that allows disruptive to move from low end to high end over time

The dynamics of disruption





Permissionless can reach places permissioned can't: non-customers of the existing financial system



This is where disruption starts – at the bottom Disruption's powerful twin - network effects Crypto currencies have powerful network effects



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The wildcards in this battle



	Permissioned	Permissionless
Privacy		Solved – zcash, monero
Control		Regulators solving for crypto
Currency		Potential global network effect
Innovation	Open source approach Borrowing from permissionless	
Energy consumption		Alternate consensus models may solve
Scalability		Can on-chain/off chain models solve (e.g. lightning)?

Big Question: Will the Tradeoff between trust vs. cost/scalability be broken?