



# Enterprise Blockchain Adoption

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# HFS Research

**The HFS mission is to provide visionary insight into the major innovations impacting business operations: Automation, Artificial Intelligence, Blockchain, Internet of Things, Digital Business Models and Smart Analytics.**

HFS defines and visualizes the future of business operations across key industries with its OneOffice™ Framework.

HFS influences the strategies of enterprise customers, to help them develop OneOffice backbones to be competitive and to partner with capable services providers, technology suppliers, and third-party advisors. The "**As-a-Service Economy**" and "**OneOffice**" are revolutionizing the industry.

## OUR CLIENTS & SUBSCRIBERS

THEY'RE INFLUENTIAL

74%

C-level, VP, director or managers from multiple industries

THEY'RE BUYERS

40%

are buyers or evaluators

THEY'RE EAGER TO PARTICIPATE

93%

want to discuss global business initiatives

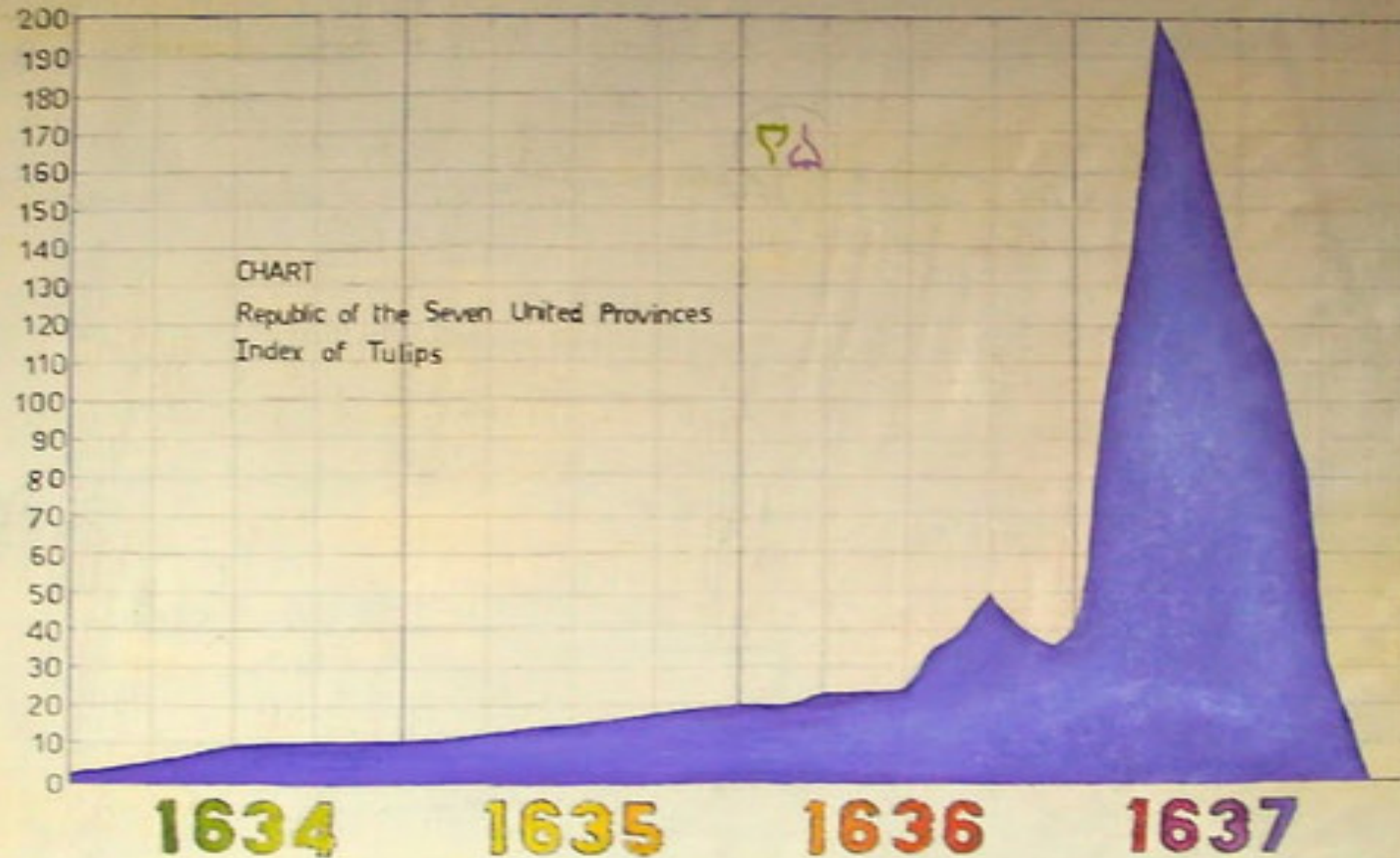
THEY'RE WILLING

79%

want to participate in HFS surveys



# Is blockchain a modern day tulip mania?



# Blockchain “six-pack”

**Distributed shared data** over peer-to-peer (P2P) network reduces single points of failure

**Consensus-driven** trust cuts out the middle-man

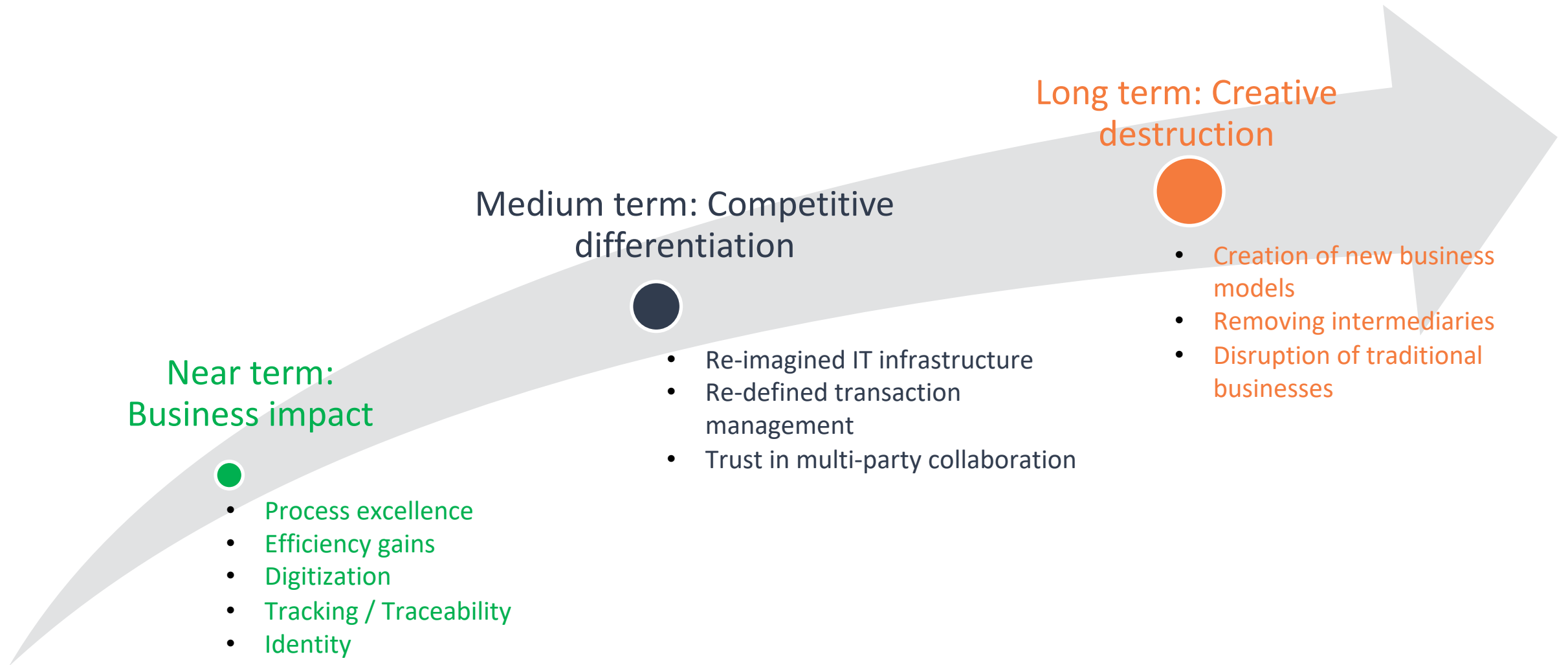
**Immutable transactions** ensure trust

**Hashing-based** data ensures integrity and security

Automated **smart contracts** promote touchless interactions across process chains

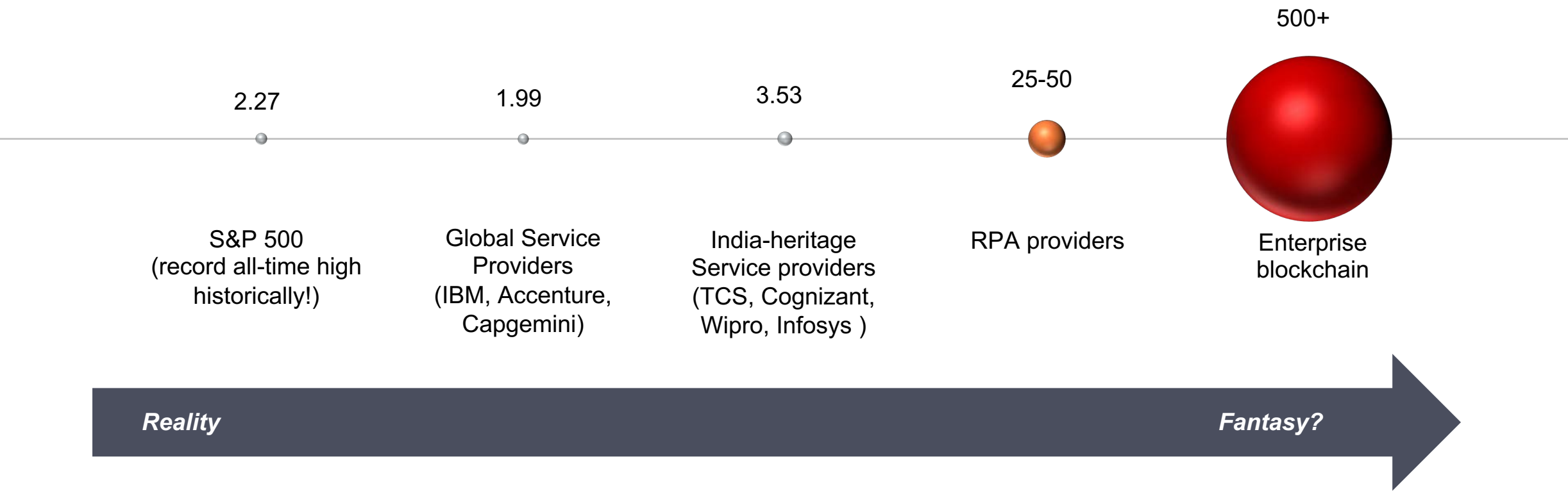
**Permissioned and permissionless** flavors give enterprise users flexibility

# Blockchain promise land



# Blockchain fantasyland

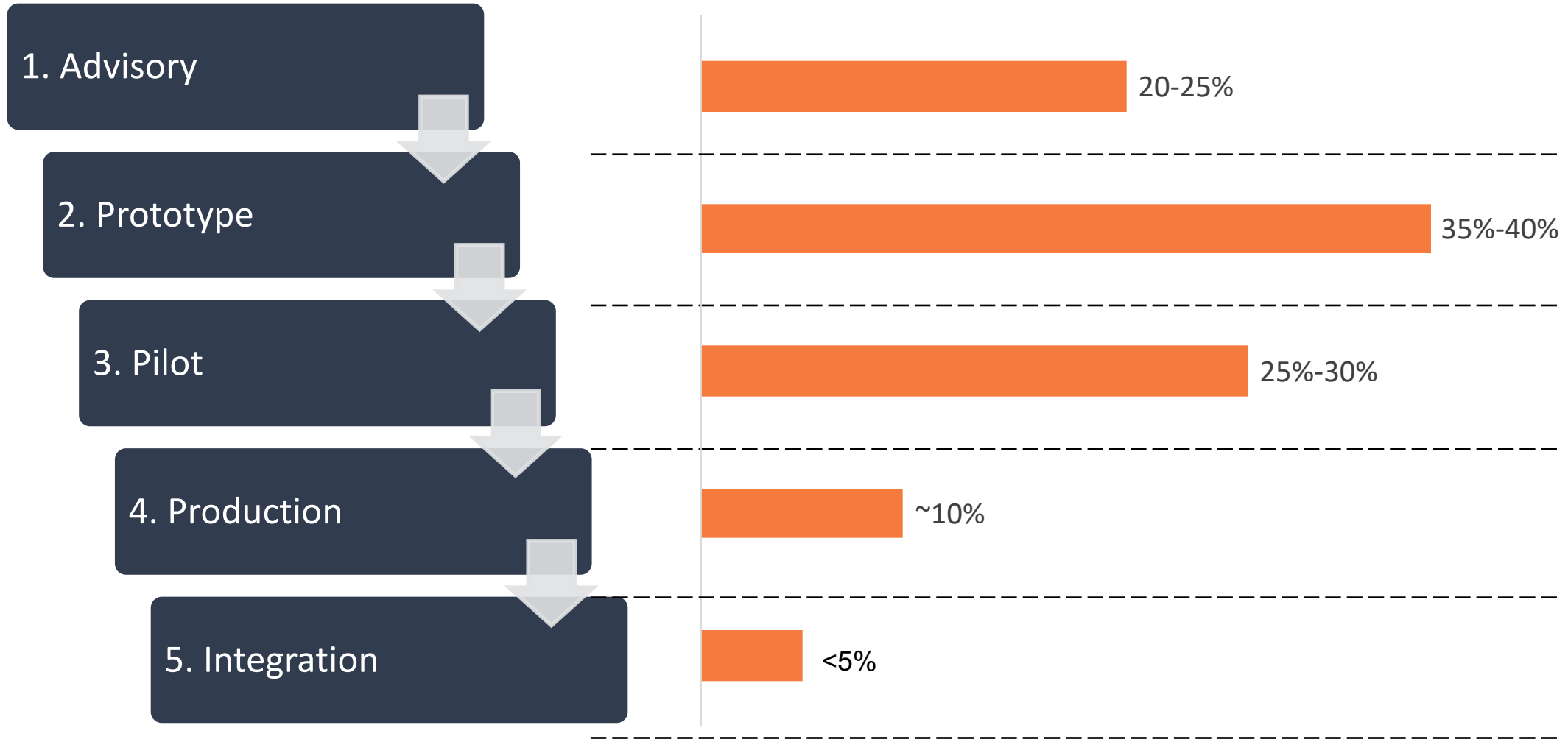
**Price to Sales (PSR) ratios as we enter 2018**  
(PSR = Market capitalization / revenues)



*Sources of information*

- S&P 500 PSR: [multipl.com](http://multipl.com)
- Global and India Heritage Service Providers: Y Charts and financial reports
- RPA providers: HfS estimates
- Enterprise blockchain: Coinmarketcap.com and HfS estimates

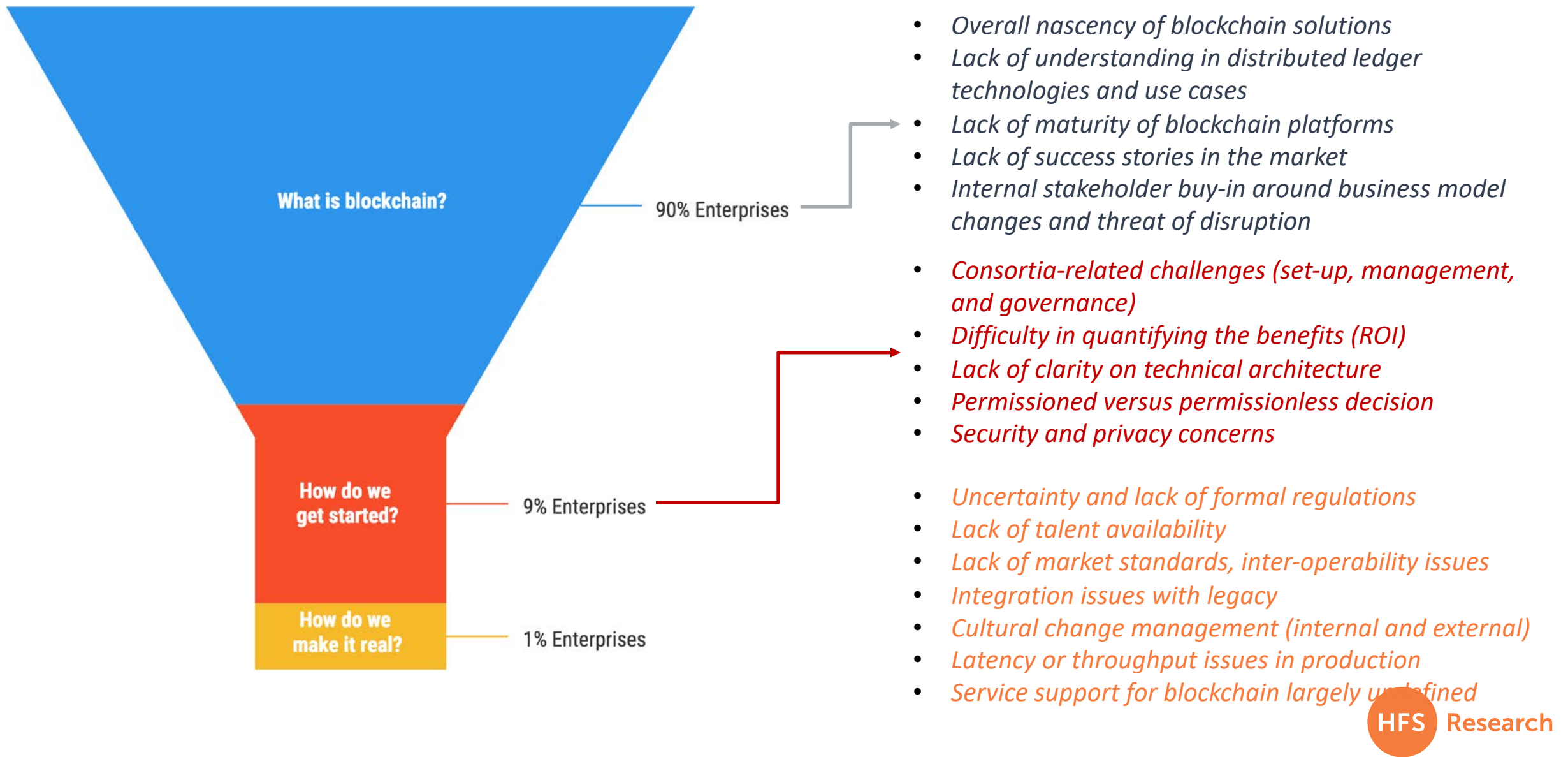
# Blockchain reality



*Sample: 315 blockchain engagements across 20 service providers*



# The “90-9-1” enterprise blockchain challenge



# Introducing the BBB: Blockchain Bullshit Buster

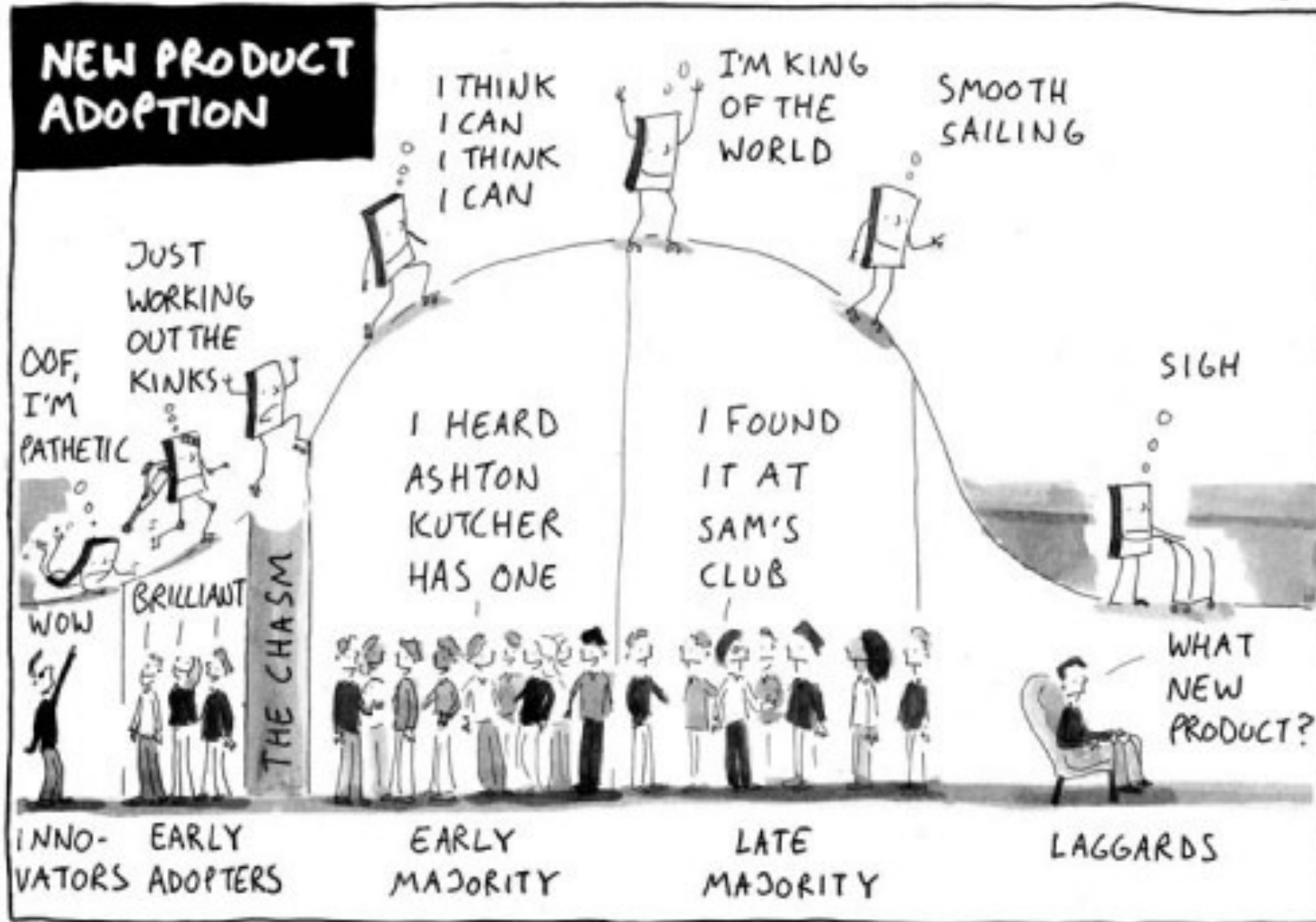
Blockchain BS busters	Key question to ask?	Your response?			
		No	Not really	Probably	Yes
<b>Principle 1: Replacing ledgers is pointless</b>	Are there many organizational entities involved that requires distributed ledgers?	<b>Stop! Blockchain is not for you.</b>			
<b>Principle 2: The realpolitik chestnut</b>	Do you have a real unsolved business problem versus a vision for a utopian world?				
<b>Principle 3: Change for the sake of change</b>	Is there a real burning platform?				
<b>Principle 4: Blindly quoting the network effect</b>	Do all entities have a common goal that they will work together to have any chance of a network effect?				
<b>Principle 5: Garbage in garbage out</b>	Can you ensure that data written on blockchain is correct (though IoT integrations or other means)?				
<b>Principle 6: Stone carvings</b>	Do you need the data to persist forever for complete auditability without any censorship?				
<b>Principle 7: Speed of light</b>	Is transaction processing in seconds acceptable (versus processing thousands of transactions in a second)?				
<b>Principle 8: The privacy conundrum</b>	Are you sure that you will not need to store private information on blockchain?				
<b>Principle 9: Law ambiguity</b>	Are the rules of the game concise and clear to be implemented as smart contracts?				
<b>Principle 10: The good old cost-benefit equation</b>	Does the outcome deserve significant long-term investment?				

**Stop! Blockchain is not for you.**

**Wait! Do you really need blockchain?**

**Caution! Get some professional help**

**Go! You've hit Blockchain gold**

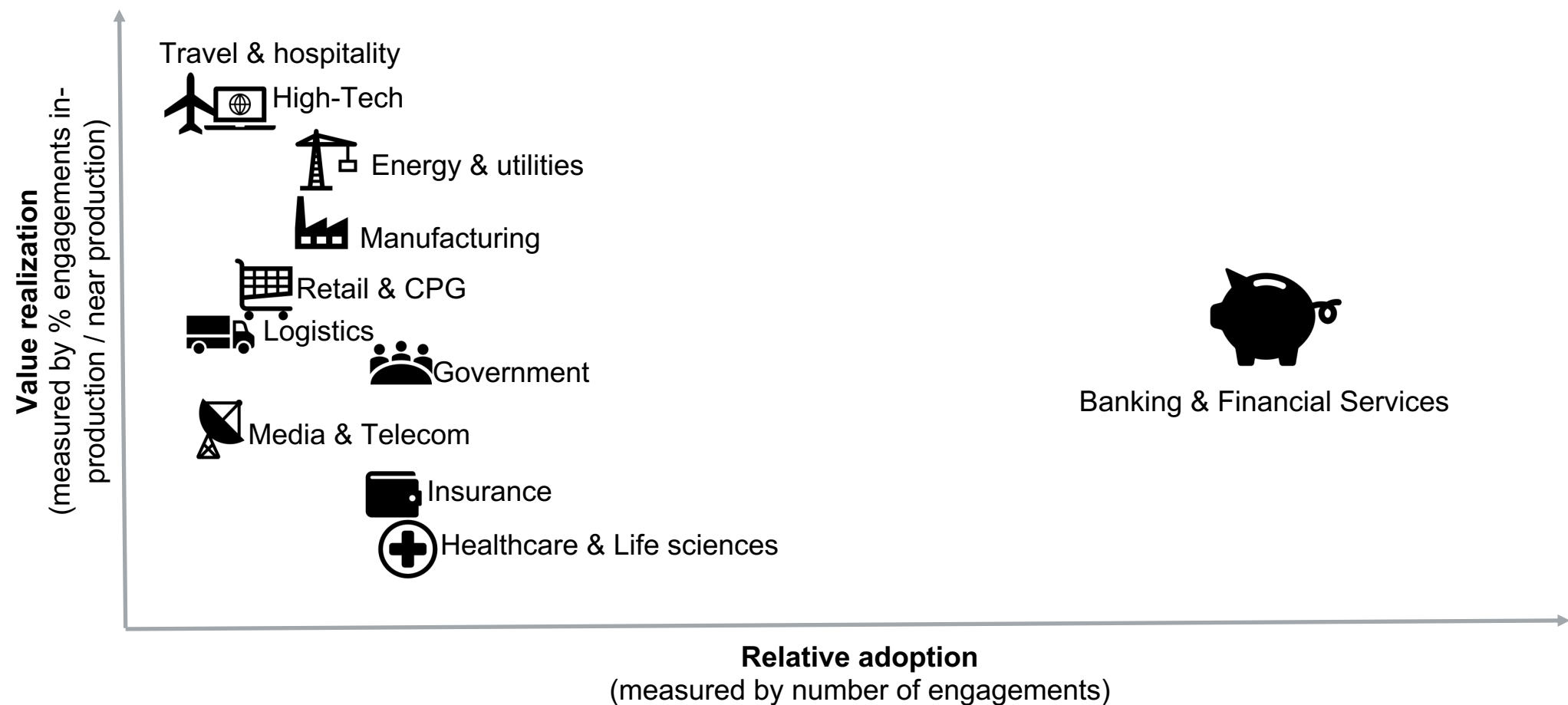


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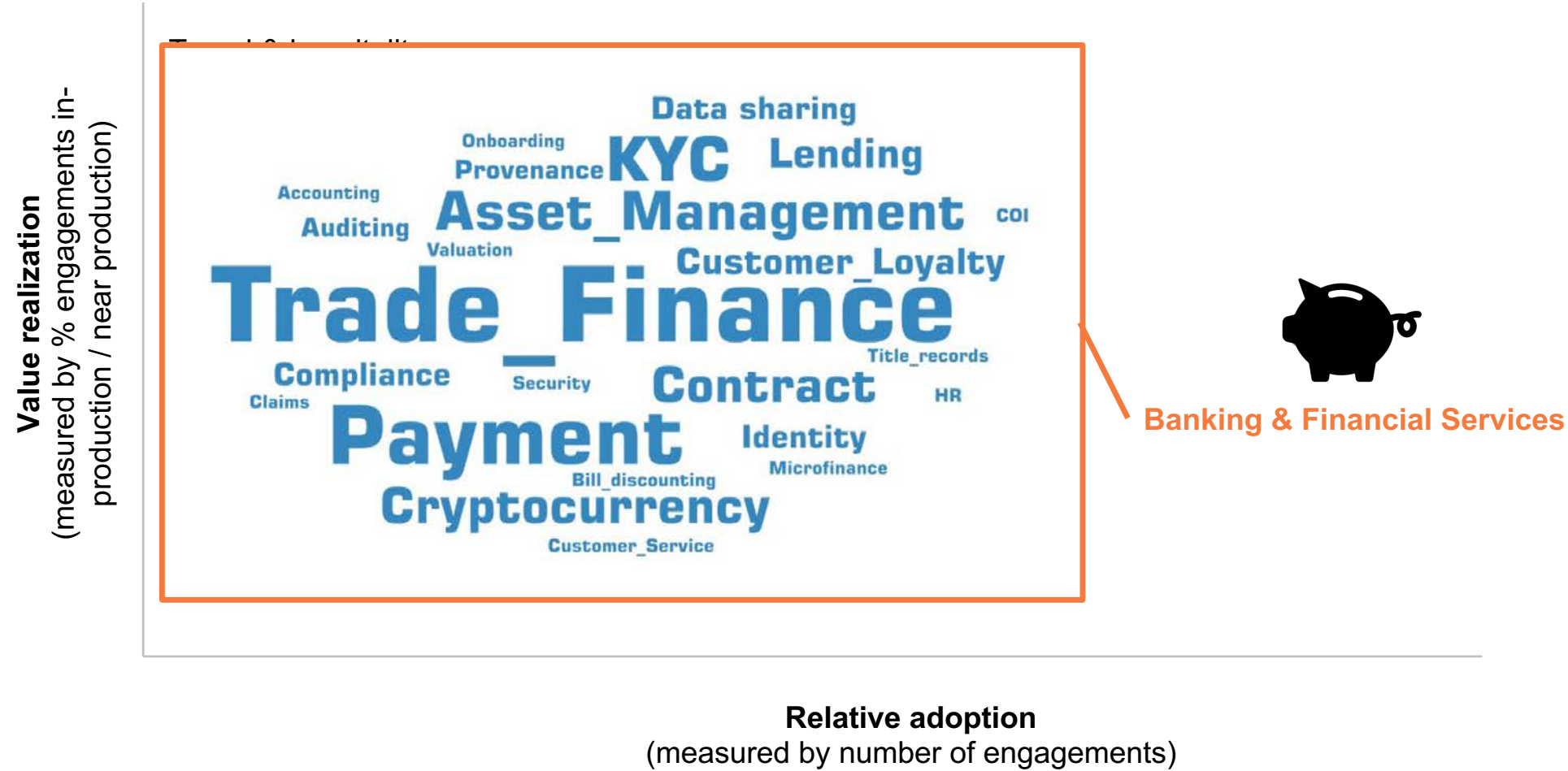
Who is  
adopting  
blockchain and  
for what?

# Banks were the first movers but not necessarily the shakers



Sample: 315 blockchain engagements across 20 service providers

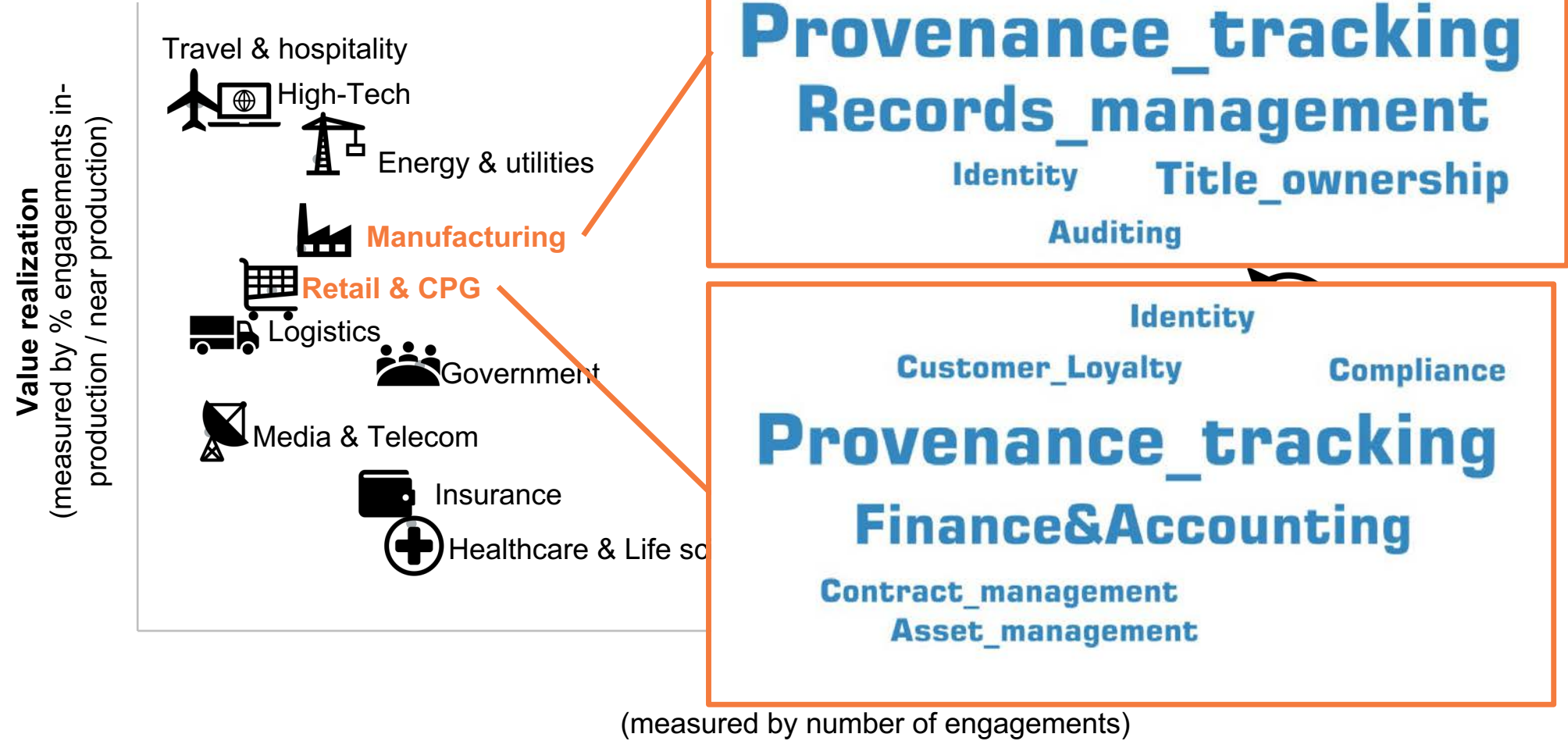
# Banking and financial Services | Prominent blockchain use cases



Sample: 315 blockchain engagements across 20 service providers

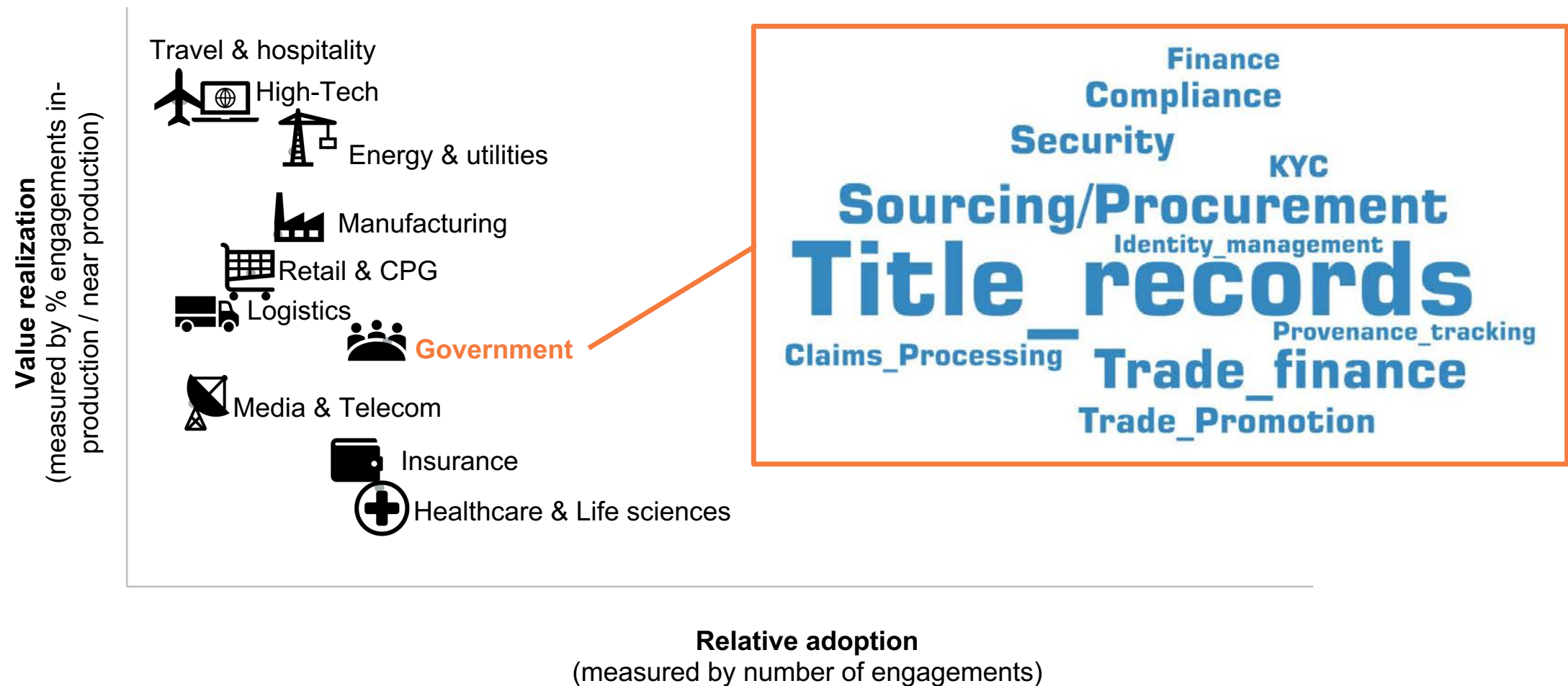


# Manufacturing, retail, CPG



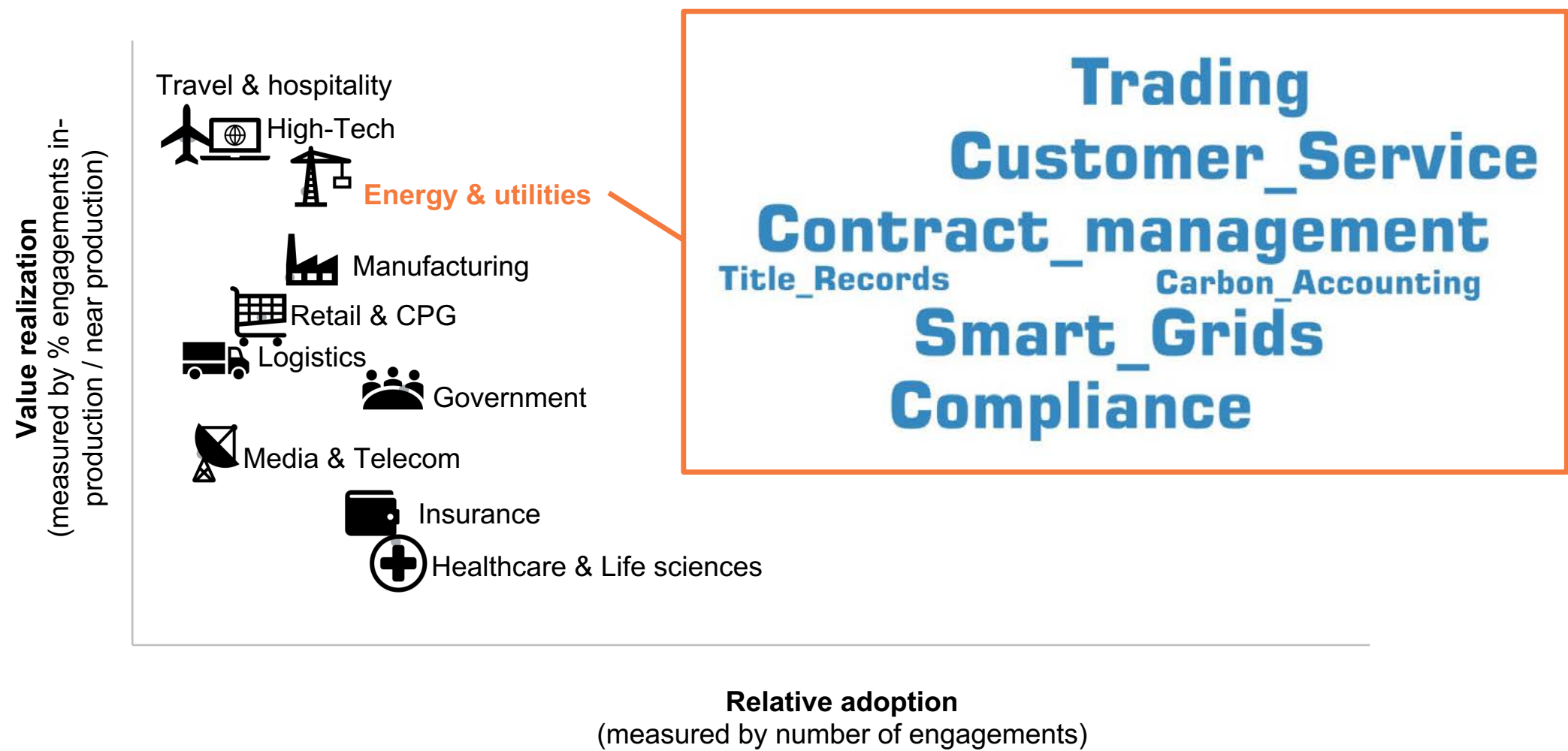
Sample: 315 blockchain engagements across 20 service providers

# Government| Prominent blockchain use cases




Sample: 315 blockchain engagements across 20 service providers

# Energy & utilities | Prominent blockchain use cases



Sample: 315 blockchain engagements across 20 service providers



# Raging debates on how to drive enterprise blockchain adoption?



800-pound gorilla



Consortium



VS

**WAL★MART®**



**Microsoft**



  
The Institutes®  
RiskBlock Alliance



## Permissionless



ethereum



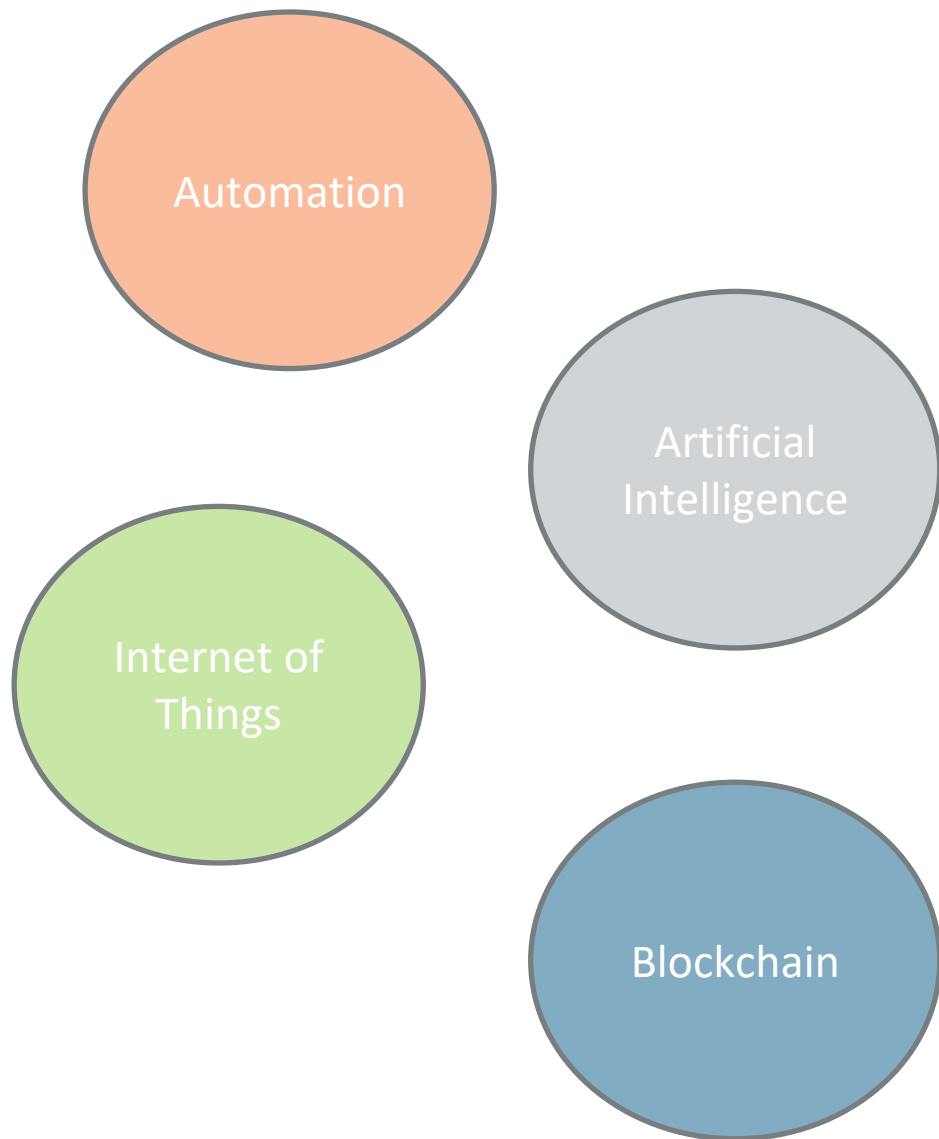
## Permissioned



**HYPERLEDGER**

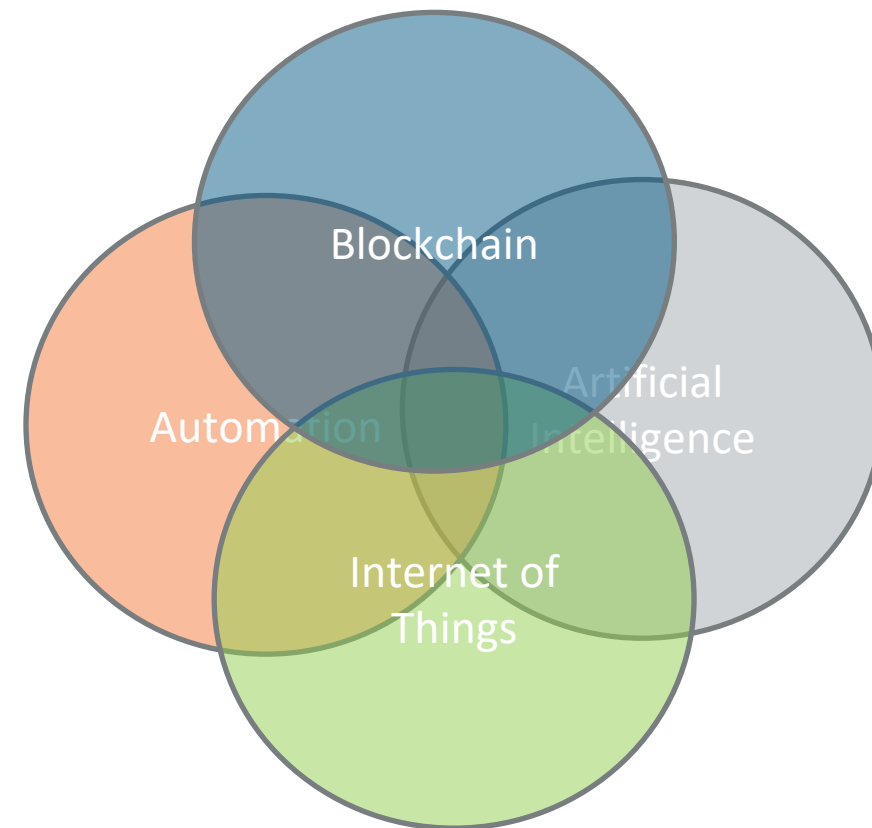


OR



**VS**

AND



**Disrupt the  
intermediary**



**Fill a market  
void**

# Key takeaways

- Blockchain is no longer a tourism industry!
- Blockchain alone cannot solve world hunger!
- Blockchain has broader implications than financial services!
- Blockchain technology is not the issue!