

Blockchain for the Food Industry: The Essential Primer

Speakers

Ananth Krishnan, Director of Digital Technology Strategy & Innovation, Land O'Lakes, Inc. Tyler Mulvihill, Co-Founder, Viant.io Bridget Hayden, Partner, Dorsey & Whitney Mike Droke, Partner, Dorsey & Whitney, Moderator

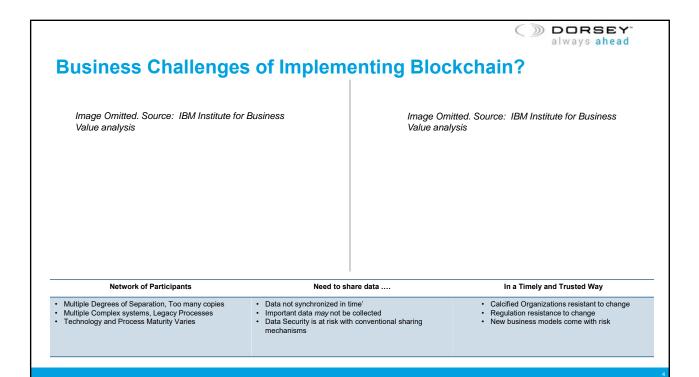
Materials

Program PowerPoint Presentation





Blockchain		always ahead	
Бюскспаіп			
The Problem		The Promise	
Image Omitted. Source: IBM Institute fo Value analysis		ge Omitted. Source: IBM Institute for Business le analysis	
Network of Participants Multiple Parties create data Multiple Parties update data 	Data – Movement and Verification Multiple Ledgers (Copies) Out of Sync. 	Speed and Trust Data not synchronized in time' Delay Costs money 	
Intermediaries exist to move data	 Important data may not be collected Data Security is at risk with conventional shar mechanisms 	 Participant Transactions depend on each 	



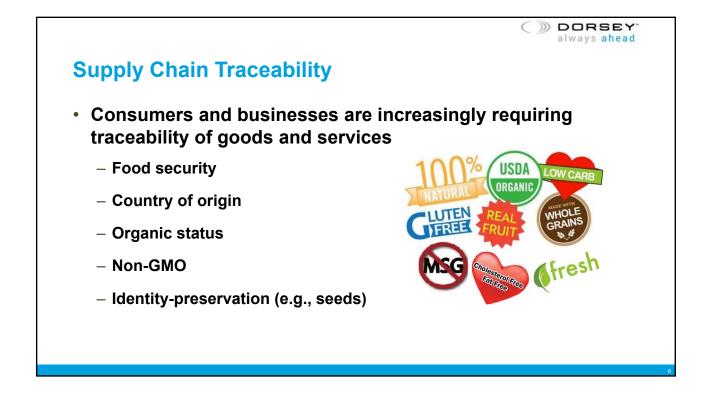
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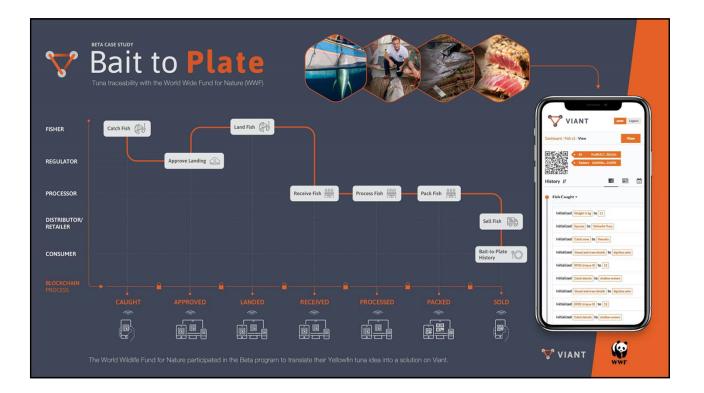
Conventional vs Blockchain

Without Blockchain	With Blockchain	Feature
Many Separate Ledgers	Shared Distributed Ledger	Single, Shared Source of Truth
Disparate View of Truth	Consensus	Trust, Single Source
No view of Data Lifecycle	Consolidated view of the Data journey	Provenance
Data can be corrupted	Almost impossible to corrupt ledger data	Trust, Immutable
Flexible Privacy & Security	Secure, Administered	Security
Slow exchange of data	Near Instant Visibility	Speed

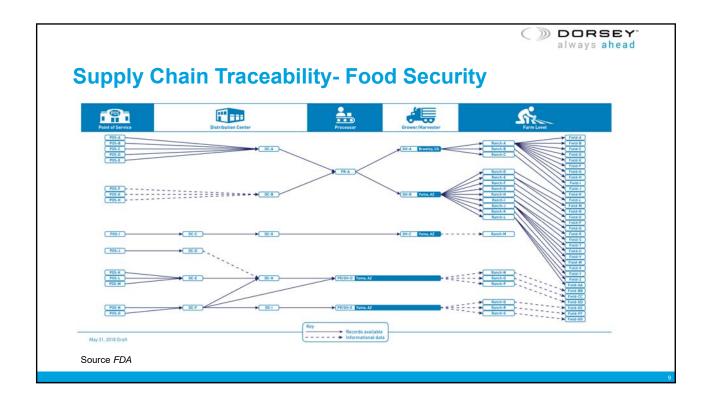
Blockchain

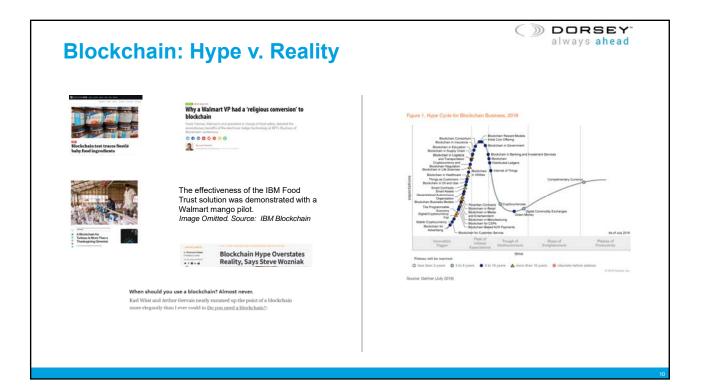
- Encrypted, distributed ledger, which can only be changed upon network approval.
- Considered one of the safest methods for storing data and completing transactions.











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Making Sense of Blockchain : Industries with Traceability

- Multiple Partners : Network
- Complex Supply Chain
- Assets Changing Hands
- Traceability is Key
- Trust is a Pre-requisite
- Data Rich
- Process Rich
- High Regulation
- Network is Digital (Mostly?)
- Not Fast Enough?





Blockchain Applicability to Food Sectors Perspectives and Considerations

Industry Considerations

- Is the industry ripe for Decentralization?
- · What is the acceptable granularity of traceability?
- · Does the industry rely on high record keeping?
- Are asset ownership, transparency and trust important?
- How soon can network participants scale to be Digital?
- · What consumer segment will pay a significant premium?

Technology Evolution

- "Promising Child" in Tech
- Verification, Storage and Cryptography models evolving
- Scale and Efficiency improvement before enterprise adoption
- Informs technology strategy
- · Will manifest as Pilots for the next couple of years

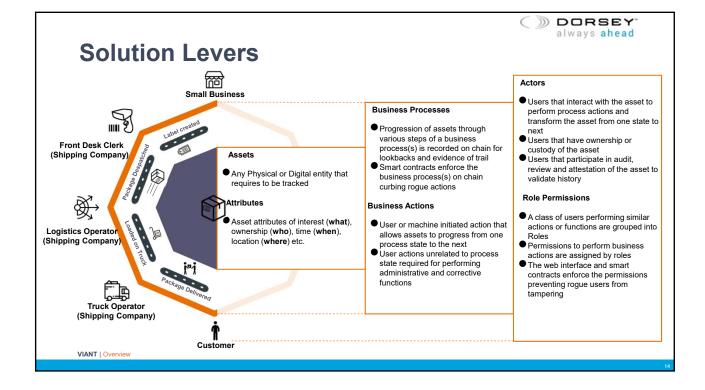
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- Baby Food
- Produce
- Bulk Grain
- Dairy
- Meat
- Packaged Goods
- Restaurants Fast Food
 - HIGH DEGREE OF CERTAINTY INFORMS STRATEGY REVISIT LATER LOW DEGREE OF CERTAINTY VIGILANT WATCH LOW DEGREE OF CERTAINTY Source: FTI Trends 2018

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What are the Business Challenges of Implementing Blockchain?



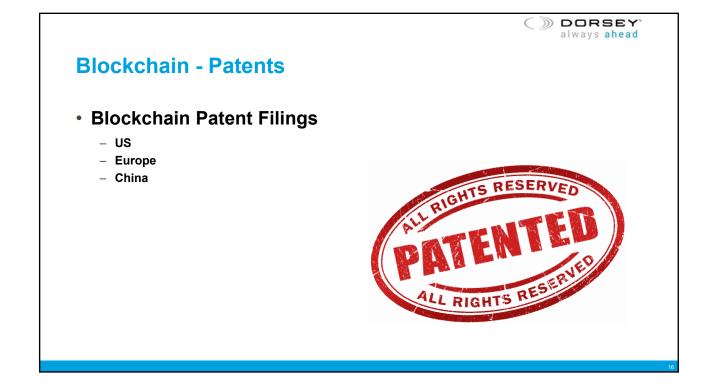


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What are the Legal Challenges?

- Intellectual property
- Contracting and enforcement
- Cybersecurity issues
- Data privacy





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Questions?

Ananth Krishnan Land O'Lakes, Inc. AlKrishnan@landolakes.com

Mike Droke Dorsey & Whitney droke.michael@dorsey.com Tyler Mulvihill Viant.io tyler.mulvihill@consensys.net

Bridget Hayden Dorsey & Whitney hayden.bridget@dorsey.com