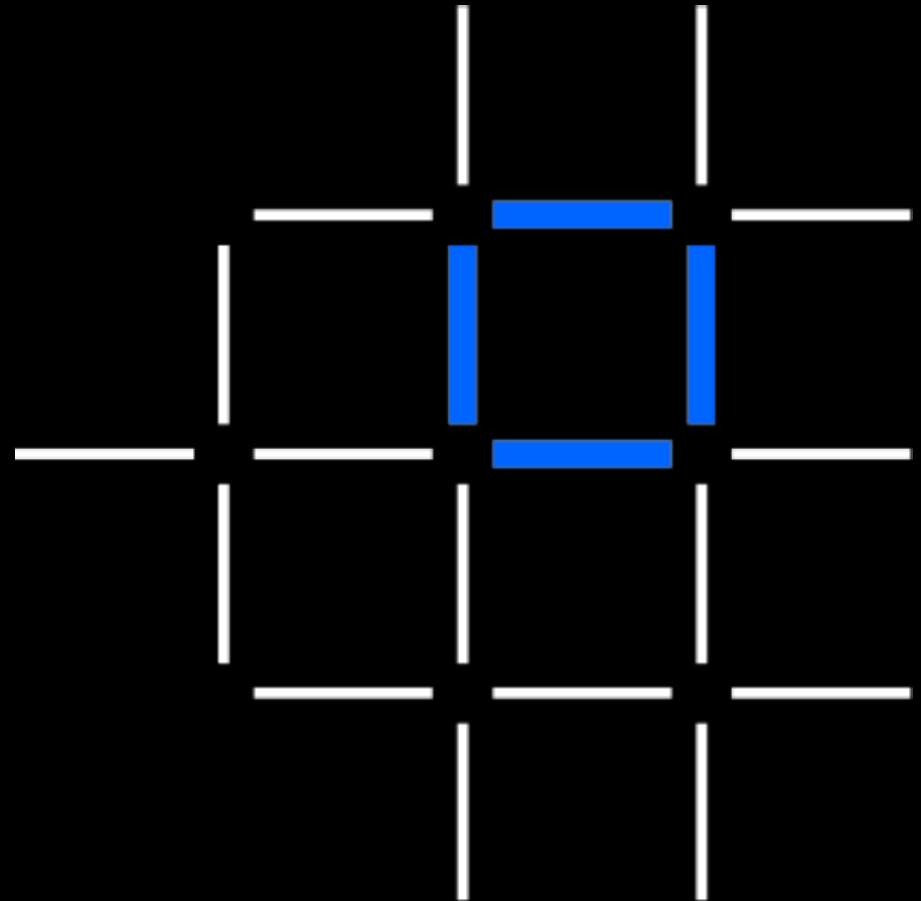


Example Blockchain Networks

Module 2 of IBM Blockchain Essentials

Presented by
Dave Gorman

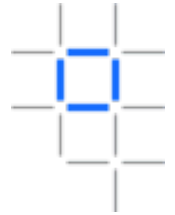
Global Blockchain Engagement,
IBM



IBM is making blockchain real for business with cross-industry solutions and 100s of active networks

						everledger		Unlisted Securities
Bank Guarantees	CLS <small>Fundamental to FX</small>		stellar	RCBC	Clearing & Settlement	MÆRSK	Provenance	SBI FDA
Trade Finance	gsf Carrefour		AIG	WORLD COM FINANCE	Universal Payments	mandiri Desjardins	Global Trade	Belastingdienst Healthcare
Food	Kroger McLANE	Tyson		Danamon KASIKORNTHAI	Identity	Scotiabank	Insurance	U.S. Customs and Border Protection
IBM Blockchain	Smithfield Walmart	we.trade	Driscoll's Nestlé	BANK BRI RBC	Government	Dole sovrin BMO	Distributed Energy	Tennet ENERGY BLOCKCHAIN LABS IBM
			دبي الذكية SMART DUBAI					

TradeLens improves **global trade efficiency**

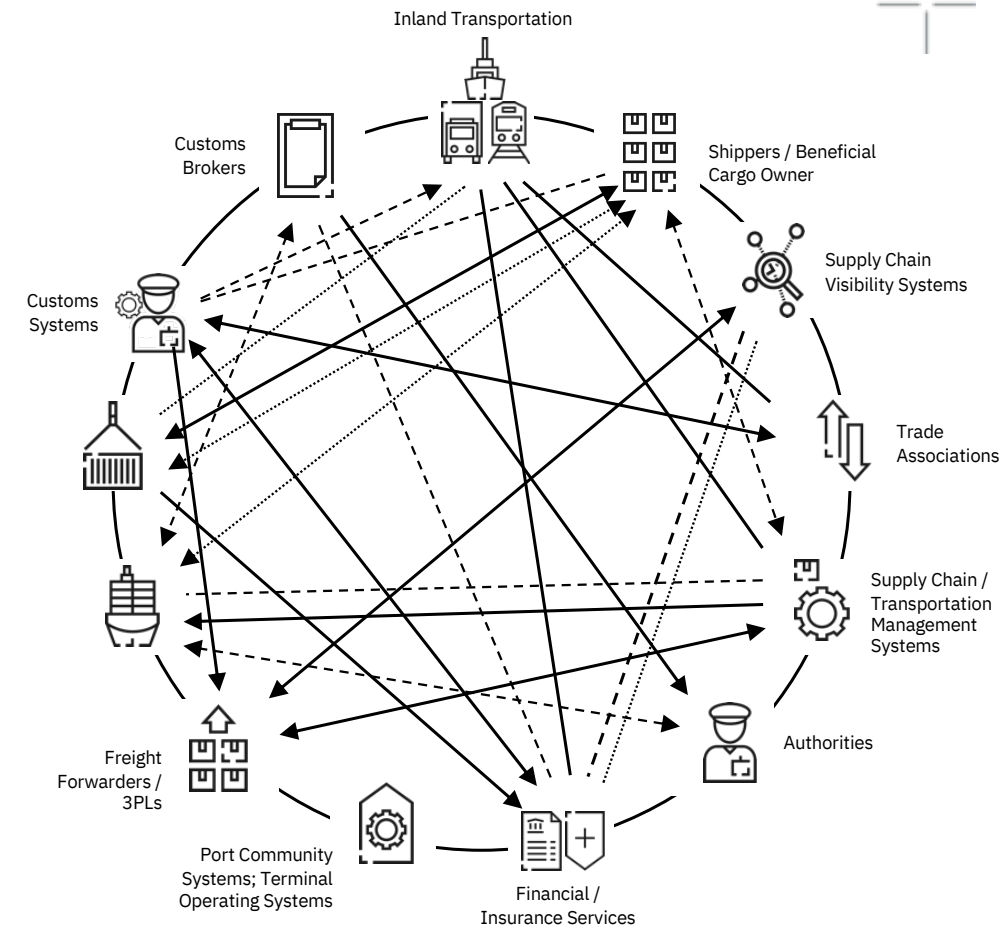


Overview

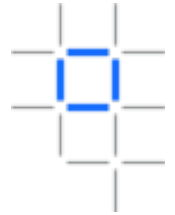
- TradeLens is an open, extensible platform for sharing shipping events, messages, and documents across all the actors and systems in the supply chain ecosystem
- Provides Shared Visibility and Shared State for Container Shipments

Benefits

- Increase speed and transparency for cross border transactions through real time access to container events
- Reduced cost and increased efficiency through paperless trade



IBM Food Trust for **supply chain transparency**

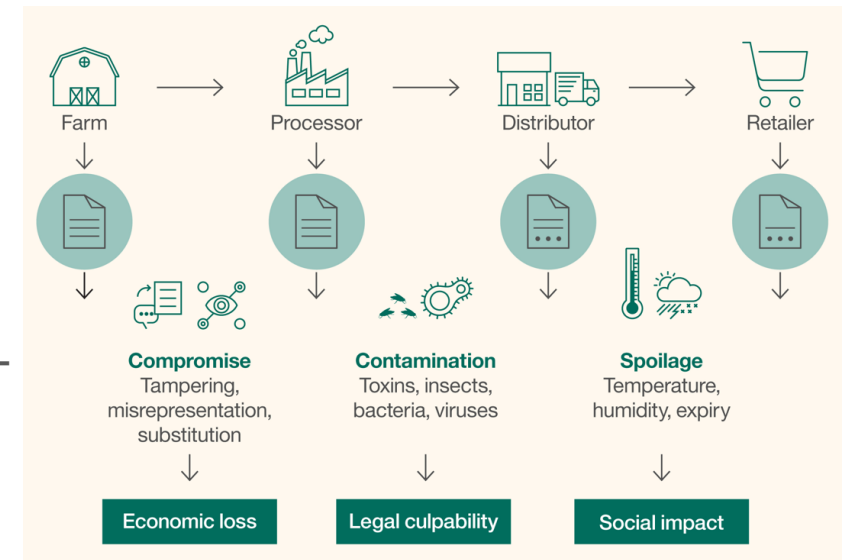


Overview

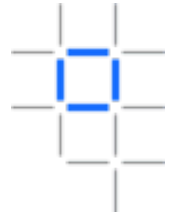
- IBM Food Trust is a set of modules providing traceability to improve food transparency and efficiency
- Blockchain is used to create a trusted connection with shared value for all ecosystem participants, including end consumers

Benefits

- Reduce impact of food recalls through instant access to end-to-end traceability data to verify history in the food network and supply chain
- Help to address the 1 in 10 people sickened and 400,000 fatalities WW which occur every year from food-borne illnesses

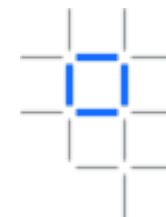


Further examples by (selected) industry



Financial	Public Sector	Retail	Insurance	Manufacturing
<ul style="list-style-type: none"> • Trade Finance • Cross currency payments • Mortgages • Letters of Credit 	<ul style="list-style-type: none"> • Asset Registration • Citizen Identity • Medical records • Medicine supply chain 	<ul style="list-style-type: none"> • Supply chain • Loyalty programs • Information sharing (supplier – retailer) 	<ul style="list-style-type: none"> • Claims processing • Risk provenance • Asset usage history • Claims file 	<ul style="list-style-type: none"> • Supply chain • Product parts • Maintenance tracking

Key **players** for blockchain adoption



Regulator

- An organization who enforces the rules of play
- Regulators are keen to support Blockchain based innovations
- Concern is systemic risk – new technology, distributed data, security



Industry Group

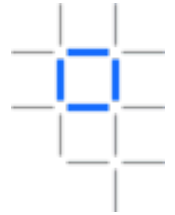
- Often funded by members of a business network
- Provide technical advice on industry trends
- Encourages best practice by making recommendations to members



Market Maker

- In financial markets, takes buy-side and sell-side to provide liquidity
- More generally, the organization who innovates
- Creates a new product and business process, or a new business process for an existing product

Summary




- There are **many active blockchain networks** today, across different industries.
- Examples we discussed were:
 - TradeLens, which improves the efficiency of **global trade**
 - IBM Food Trust, which traces food through **supply chains**
 - IBM World Wire, which allows **cross-border payments** to happen in near real-time
 - The concept of **trusted identity** being provided by the Sovrin network
- Finally, we looked at who some of the **key players** are in enabling blockchain solutions


Thank you


Presented by
Dave Gorman

Global Blockchain Engagement,
IBM

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