Example Blockchain Networks
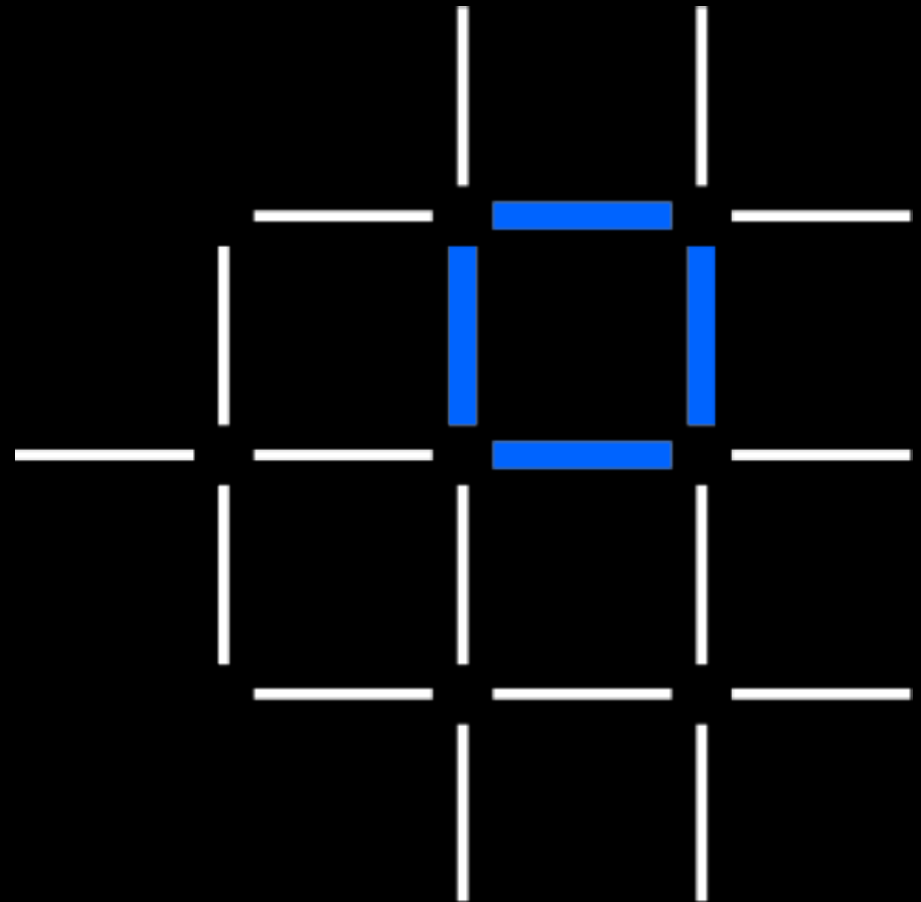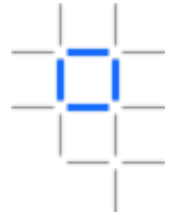
Module 2 of IBM Blockchain Essentials

Presented by
Dave Gorman

Global Blockchain Engagement,
IBM

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

everledger

Unlisted Securities

Borsa Italiana

SBI

Clearing & Settlement

Provenance

MAERSK

FDA

Bank Guarantees

stellar

RCBC

CLS
Fundamental to FX

nab

BBVA

BNI

Global Trade

Healthcare

Trade Finance

Universal Payments

gsf

Carrefour

AIG

WORLDCOM FINANCE

mandiri

Desjardins

Belastingdienst

Kroger

Tyson

Danamon

KASIKORNTHAI

PermataBank

Scotiabank

U.S. Customs and Border Protection

Food

Identity

Insurance

McLANE

Smithfield

Walmart

BANK BRI

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Mc

Nestlé

Driscoll's
Only the Finest Berries

we.trade

sovrin

BMO

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Government

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IBM Blockchain

SMART DUBAI

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ENERGY BLOCKCHAIN LABS

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# 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

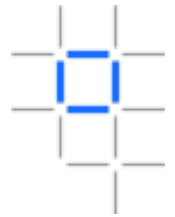- Provides Shared Visibility and Shared State for Container Shipments

Benefits

- Increase speed and transparency for cross border transactions through real time access to container events

- Reduced cost and increased efficiency through paperless trade

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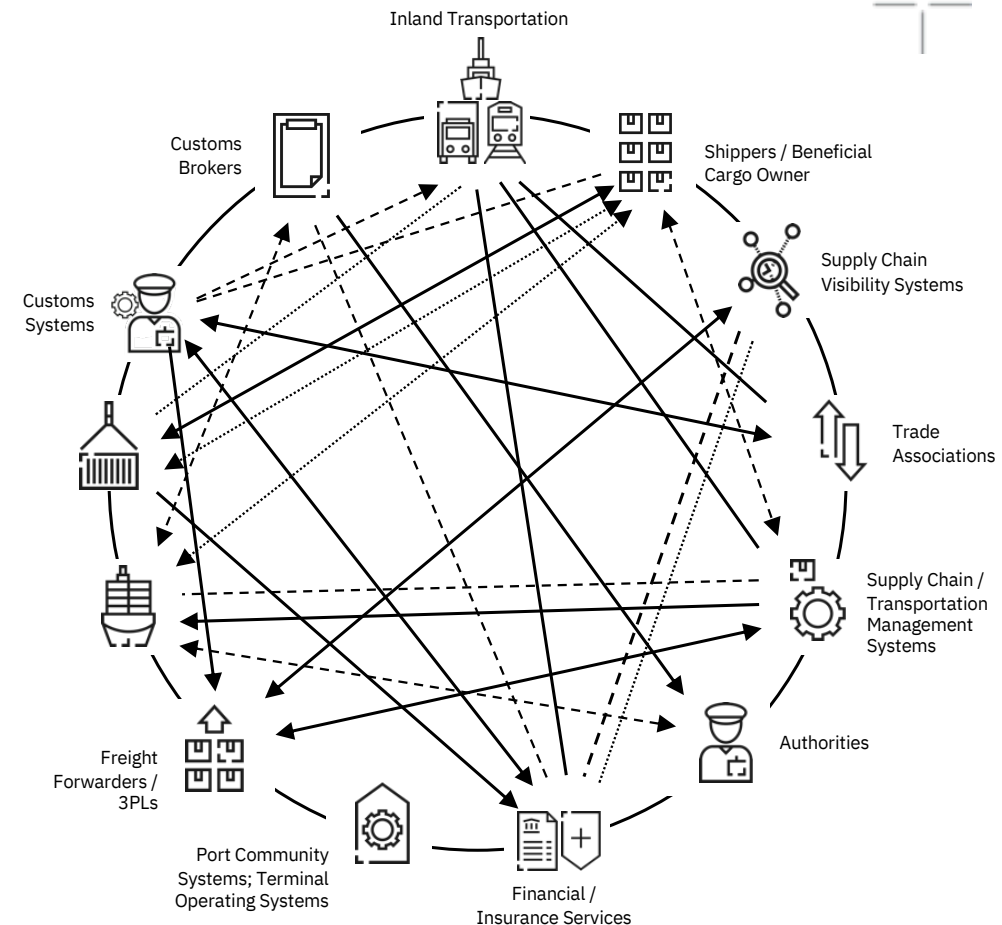
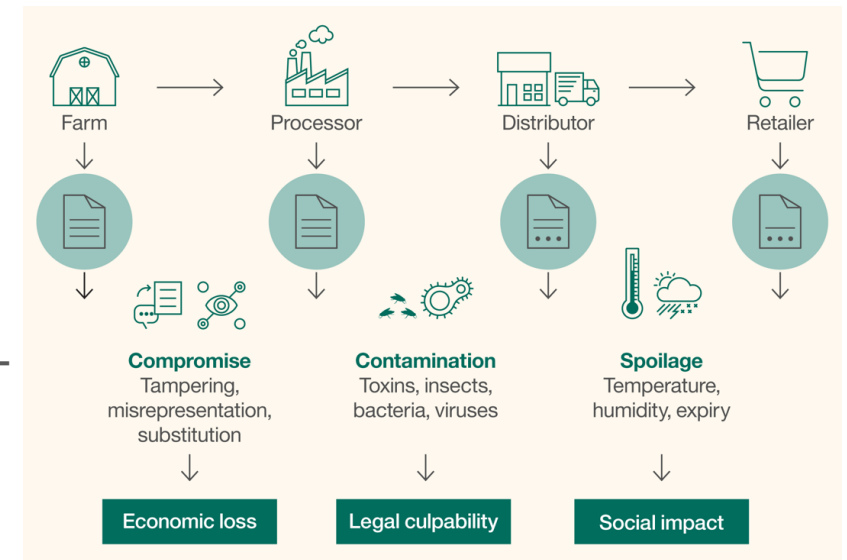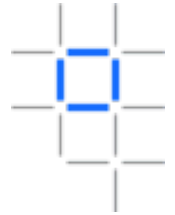# IBM Food Trust for **supply chain transparency**

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-born illnesses
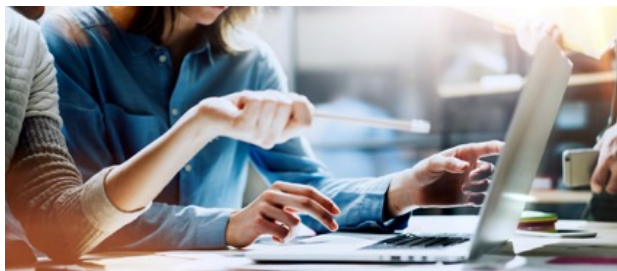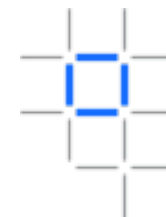

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Further examples by (selected) industry

Financial	Public Sector	Retail	Insurance	Manufacturing
• Trade Finance • Cross currency payments • Mortgages • Letters of Credit	• Asset Registration • Citizen Identity • Medical records • Medicine supply chain	• Supply chain • Loyalty programs • Information sharing (supplier – retailer)	• Claims processing • Risk provenance • Asset usage history • Claims file	• Supply chain • Product parts • Maintenance tracking

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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

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Summary
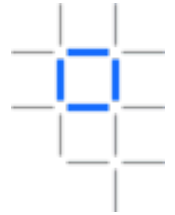
- There are **many active blockchain networks** today, across different industries.

- 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

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Thank you

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Global Blockchain Engagement,
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