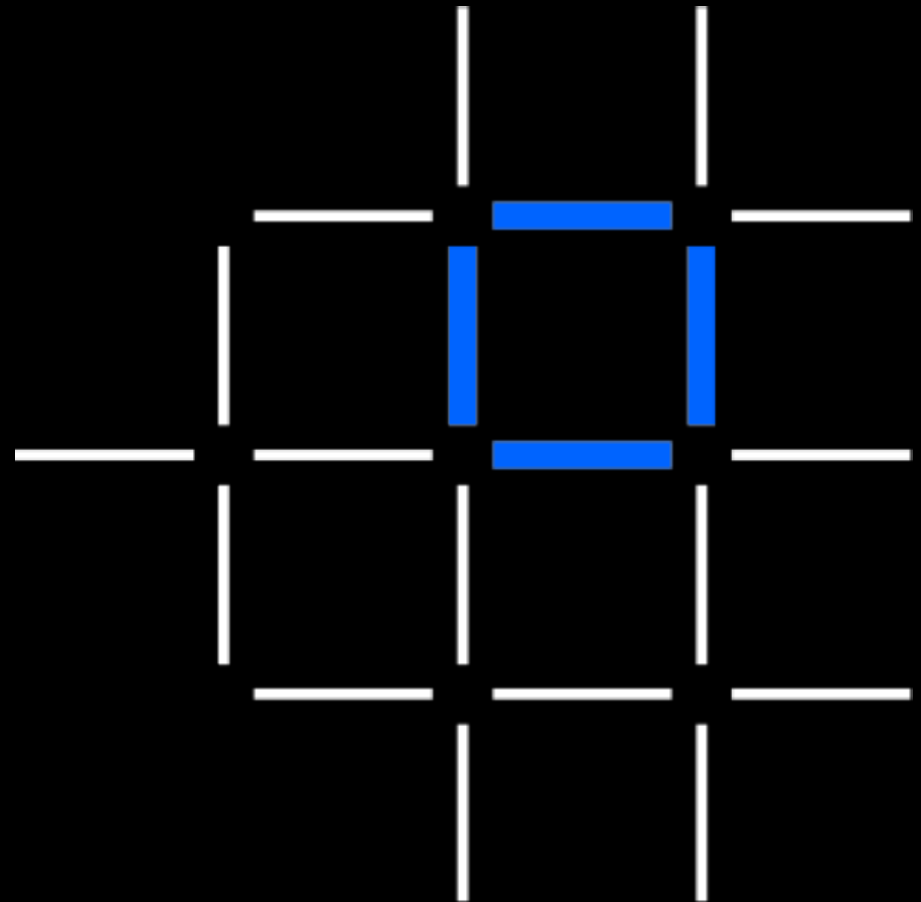


Example Blockchain Networks

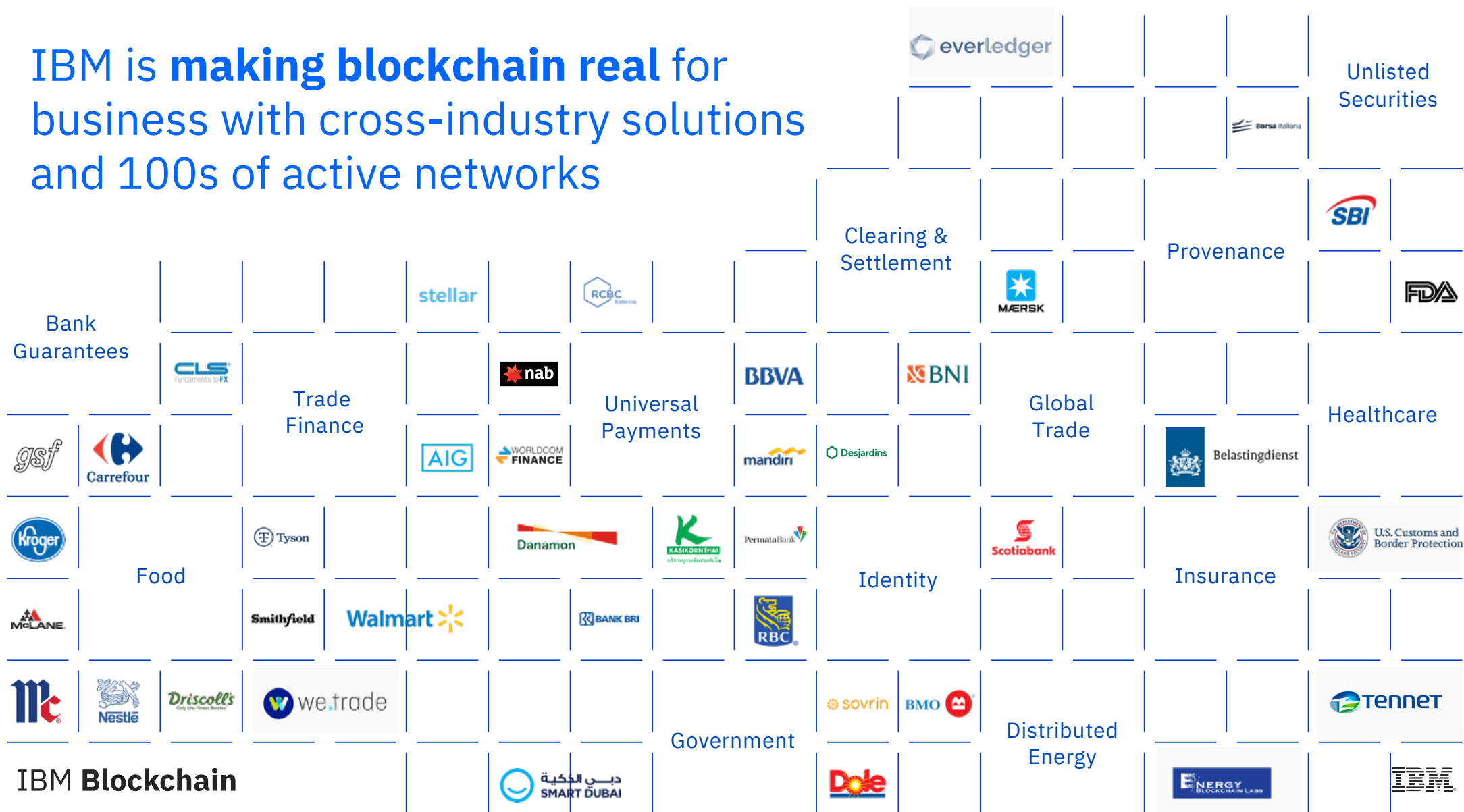
Module 2 of IBM Blockchain Essentials

Presented by
Dave Gorman

Global Blockchain Engagement,
IBM



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



TradeLens improves **global trade efficiency**

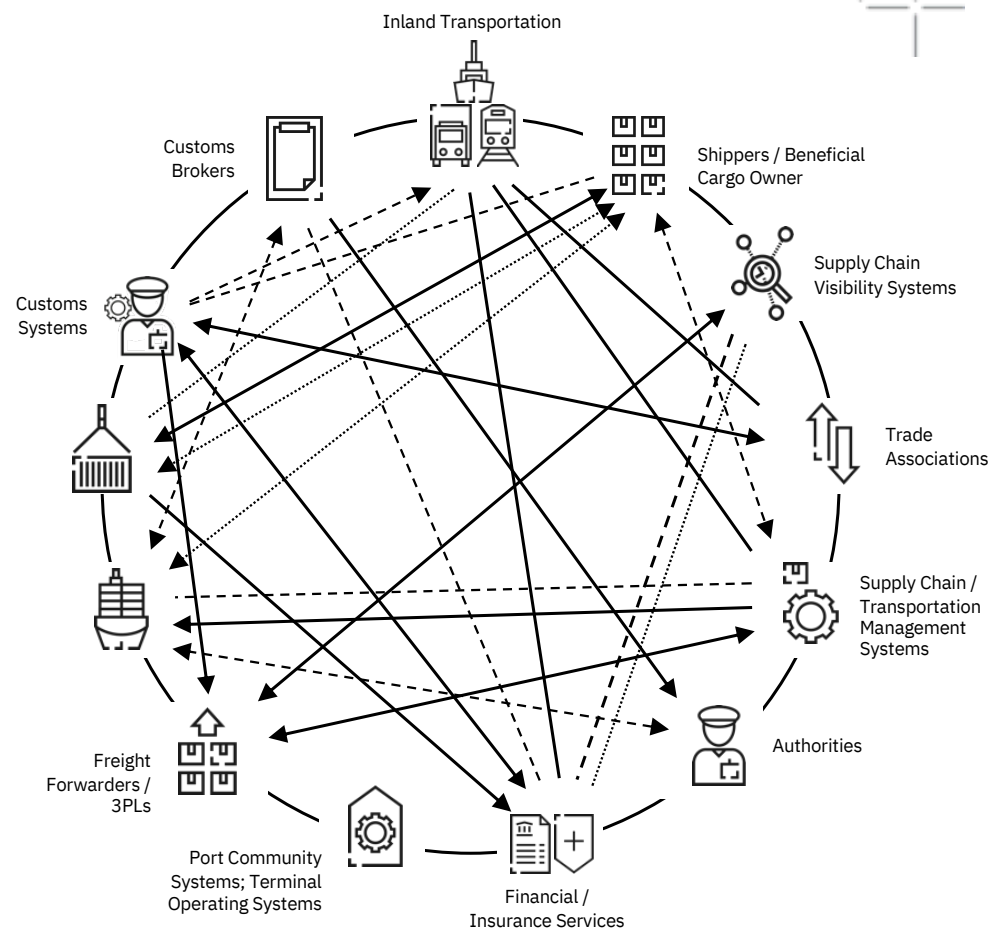
Overview

- 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

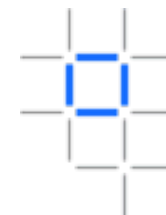
- Increase speed and transparency for cross border transactions through real time access to container events
- Reduced cost and increased efficiency through paperless trade

IBM **Blockchain**



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IBM Food Trust for **supply chain transparency**

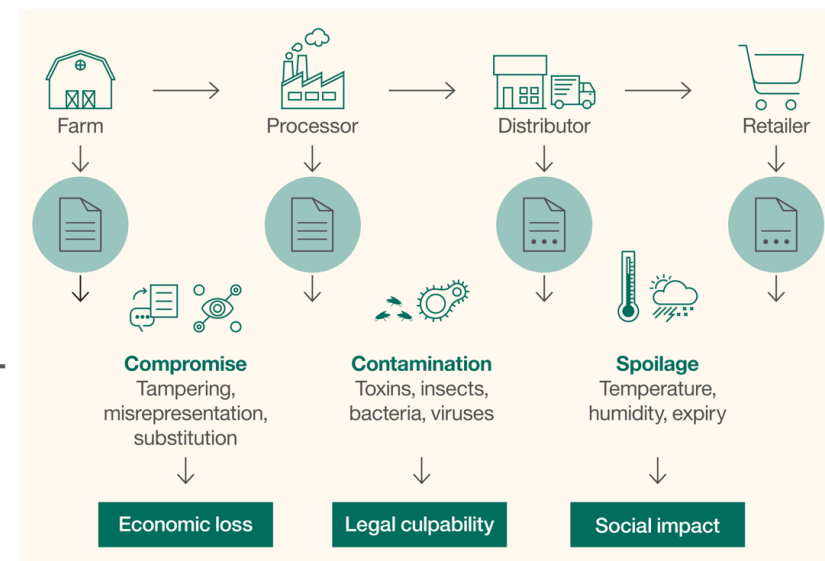


Overview

- 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



IBM World Wire is revolutionizing global payments

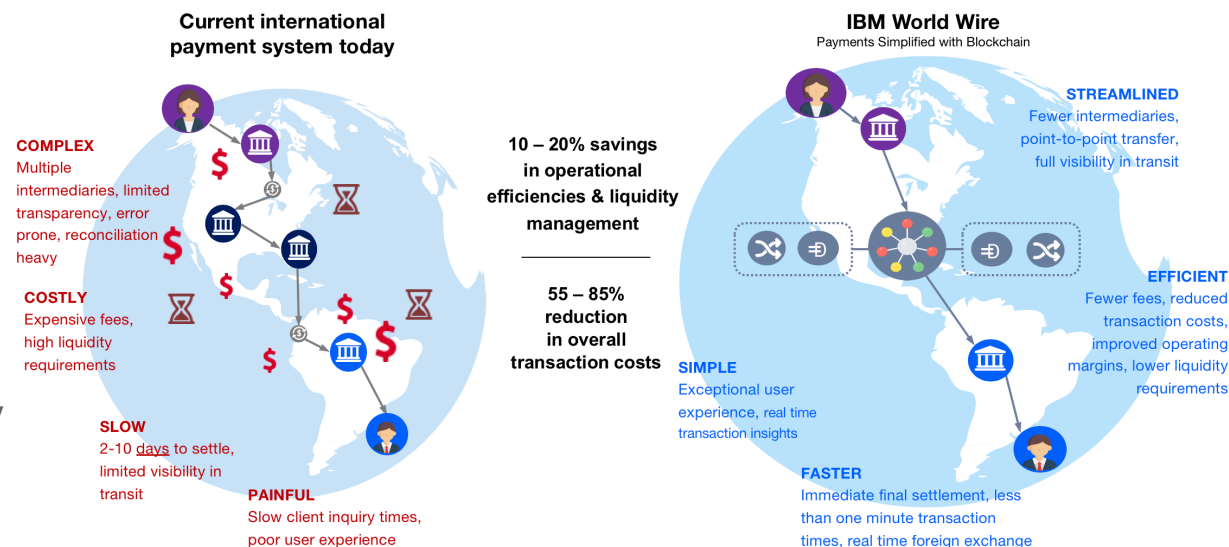
Overview

- IBM Blockchain World Wire is an integrated network for real-time clearing and settlement
- Allows banks and financial institutions to send and settle payments around the globe with finality in a matter of seconds
- Eliminates enduring challenges that have long hampered the cross-border payments industry

Benefits

- Payment support regardless of size, origination, destination or asset type
- Higher visibility for streamlined transactions with reduced disputes and reconciliation needs
- Enhanced regulatory compliance through improved transparency
- Secure network with interaction and eligibility criteria as well as robust access controls

IBM **Blockchain**



IBM

Decentralized **trusted identity**

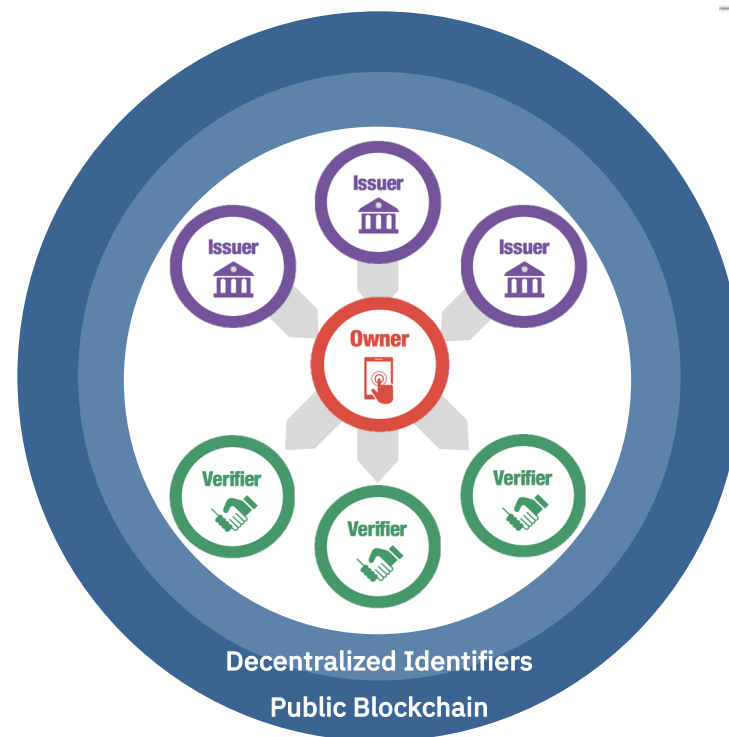
Overview

- Sovrin pushes identity to the edge of the network
- Cryptographic, point to point exchange of identity
- Based on Hyperledger Indy technology

Benefits

- A decentralized approach that establishes trust and puts the end user in control
- Every person, organization, and thing has a digital wallet to control the flow of their identity
- No PII is stored on the public ledger!

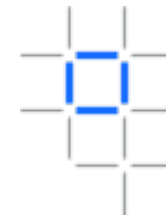
IBM **Blockchain**



 **sovrin**
identity for all

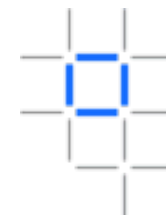
IBM

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



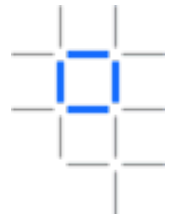
Industry Group

- 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
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Questions? Tweet us or go
to ibm.com/blockchain



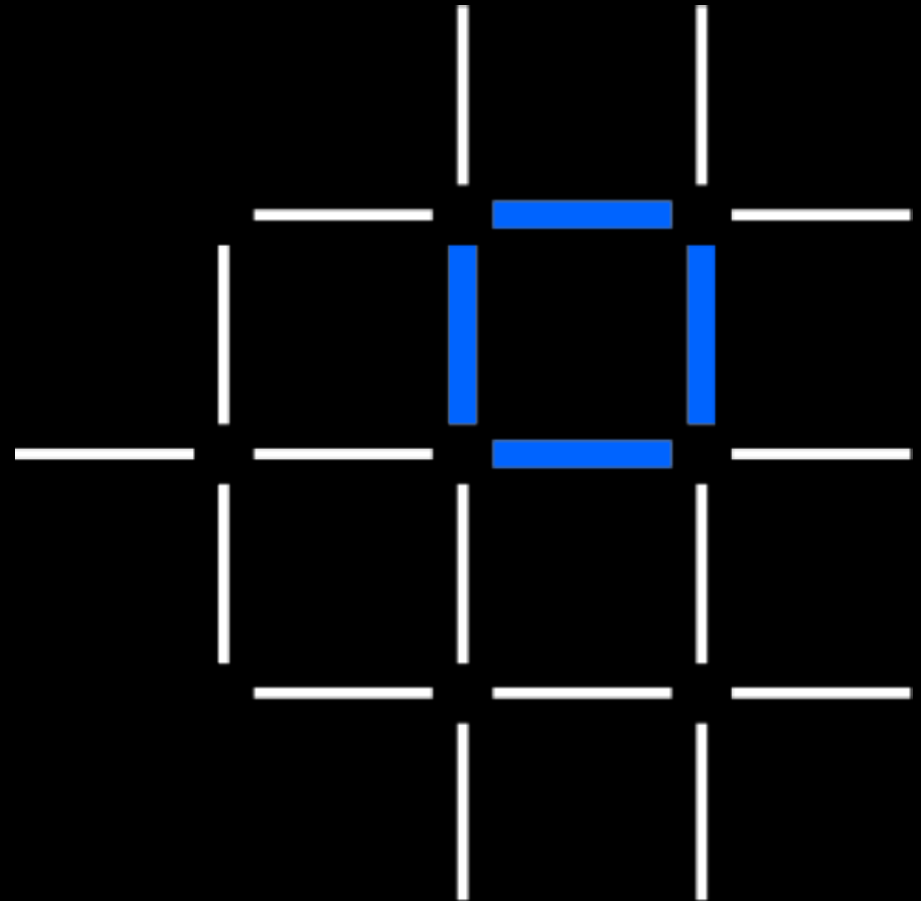
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