

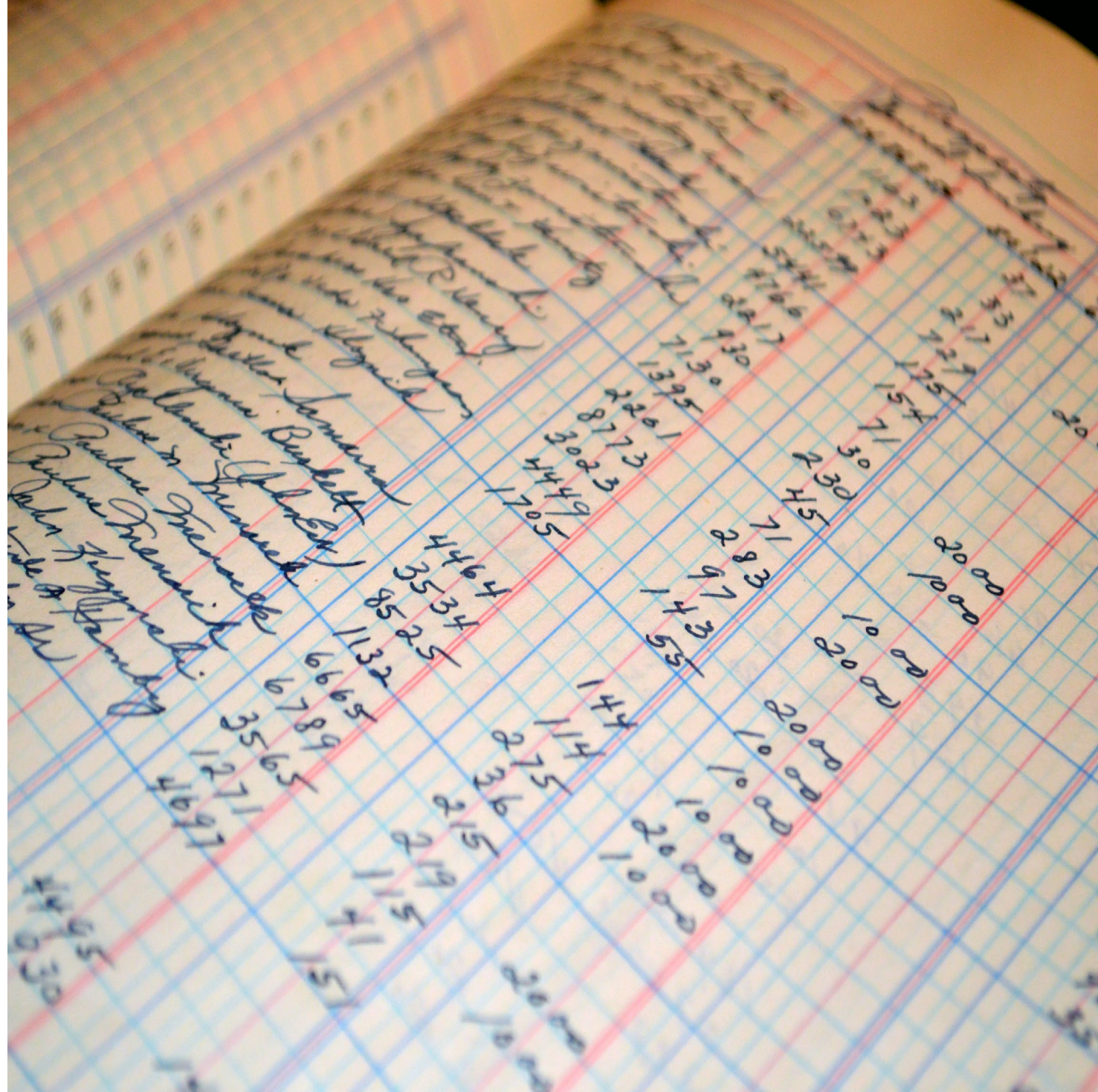
Technical interoperability

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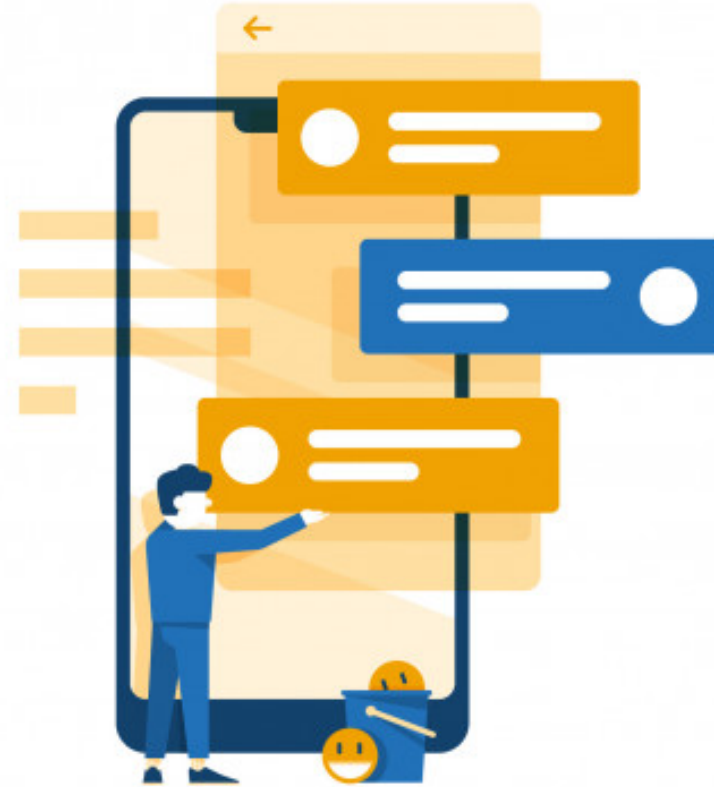
Data

- On-chain storage
- Off-chain storage
- Data standardization
 - Globally Unique Identification
 - Standardized Data Model
 - Governance
 - Documentation



Messaging

- Message structure
- Translation
- Transliteration
- Payload

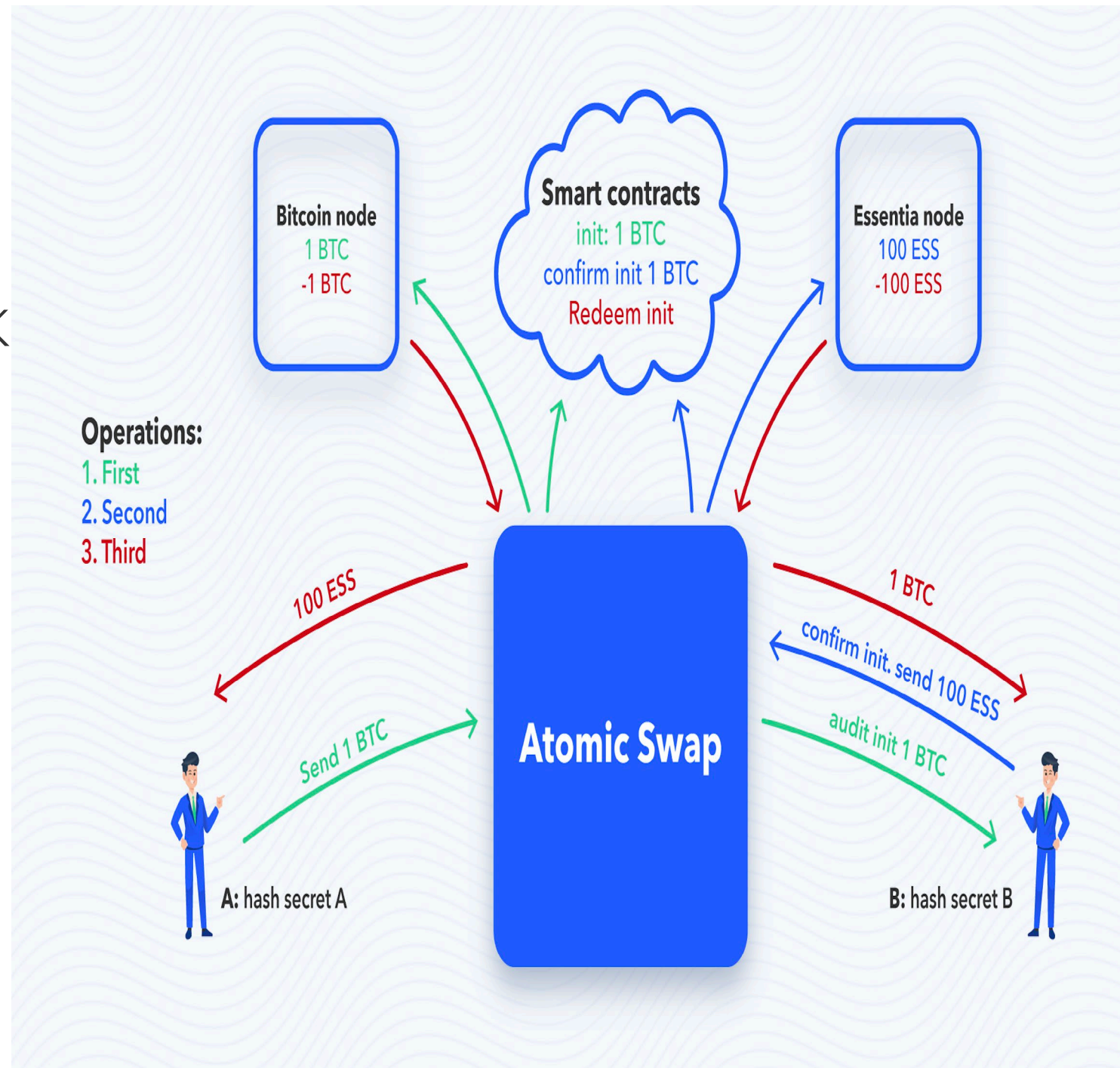


Token and token transfers

- Common element containing information
- Digital asset
- Blockchain token transfers
- Interplatform transfers

Smart contracts

- Disconnected DLT stack
- Atomic swaps
- Oracles
- State channels
- Connected consensus



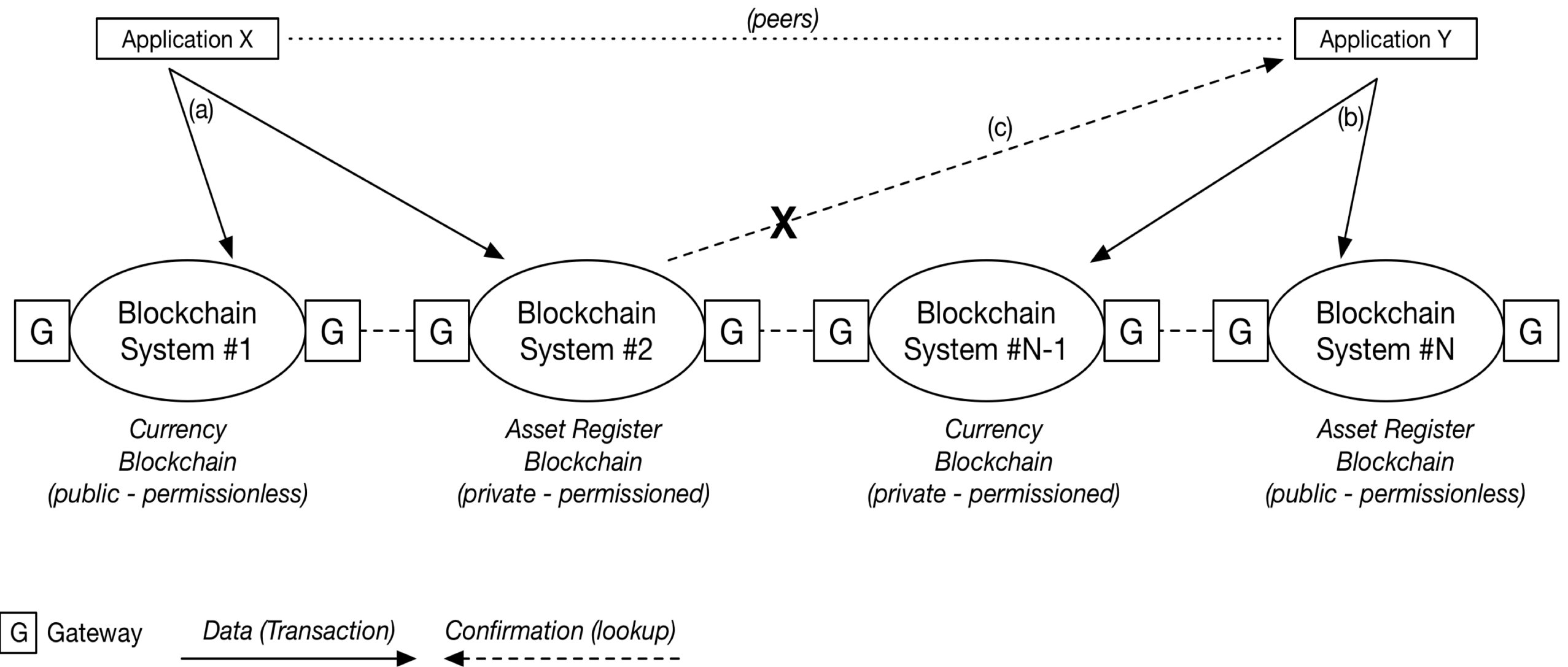
Hardware layers/containerization

- Bare metal
- Virtualization
 - Docker
 - Vmware
 - ...
- Container management
 - Kubernetes
 - Amazon ECS
 - ...
- Interoperability not a problem at this level

Consensus mechanism

- Consensus types
- Interoperability
 - Multi-DLT
 - Relay-DLT
- Issues
 - Single point of failure
 - Limited reach
 - Decreased scalability
 - Cost increase

Consensus mechanism



Questions?

- UN/CEFACT Chain – Guidance for cross-border interoperable blockchain infrastructure 4.0