



DeepTrace

Product by

Corum8

Supply Chain Solution

powered by

Blockchain, AI & IOT

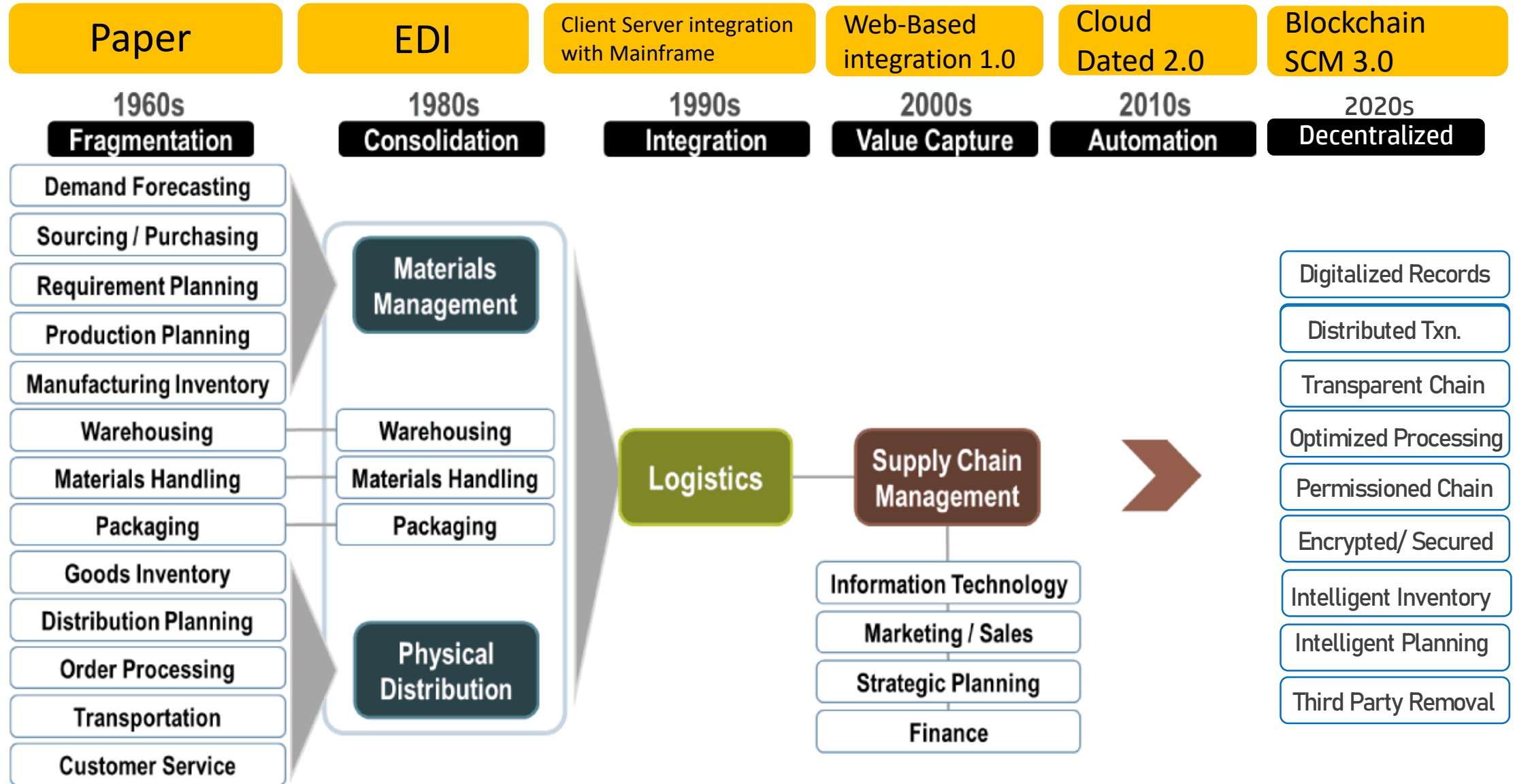
Introduction

Transparency, trust, security and traceability are the foundations of any supply chain and logistics company.

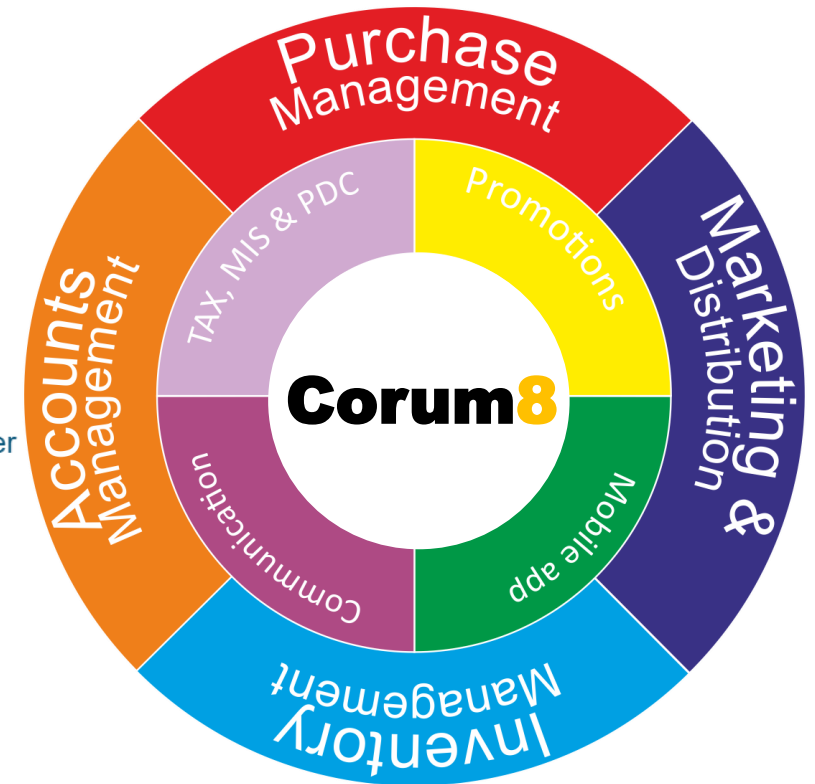
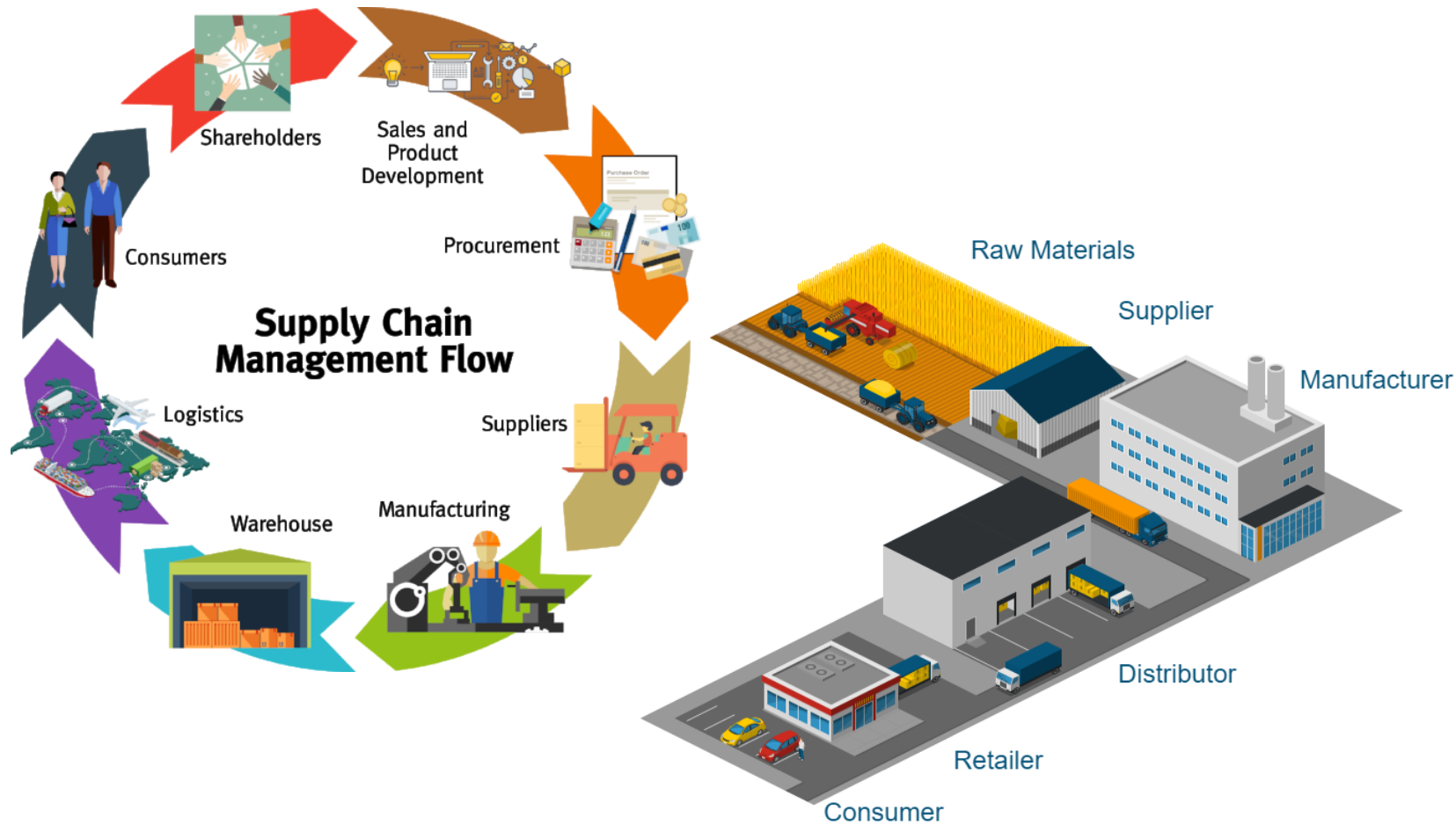
DeepTrace aims to optimize business transactions and trading relationships to achieve global scalability, automation and security keeping quality and costs in check.



History



Traditional SCM



Problems



Mutability



Slow Processing



Error Prone and Manual Work



Security Issues



Data Inconsistency



Record Keeping



Flawed and Failure Components



Management of Time Stamped Sensitive Information



Traceability and Tracking Issues



No Product Authenticity



Brand Quality Compromise



Opaque Flow

Value Proposition



DeepTrace is a distributed ledger trail application which is a shared, immutable ledger that records transactions and tracks assets—intangible or tangible. Virtually anything of value can be tracked (preferably by IOT devices to reduce manual interventions to remove human errors and overhead costs) and traded on a blockchain network, reducing risk and cutting costs for all involved. While the power of **DeepTrace** comes from its ecosystem members, blockchain enables the secure distribution and storage of the vital information that is the heart of the platform.

Solution

Product Authenticity Brand

Protection

Verifiability

Secured Payment &
Tracking

Recoverability

Permissioned Sharing/
Access

Tamper-proof recording



Standardization

Privacy

Immutability

Provenance and Auditability

Workflow Automation

Interoperability

Scalability

Cost and Resource
Optimization

Features

Standardization

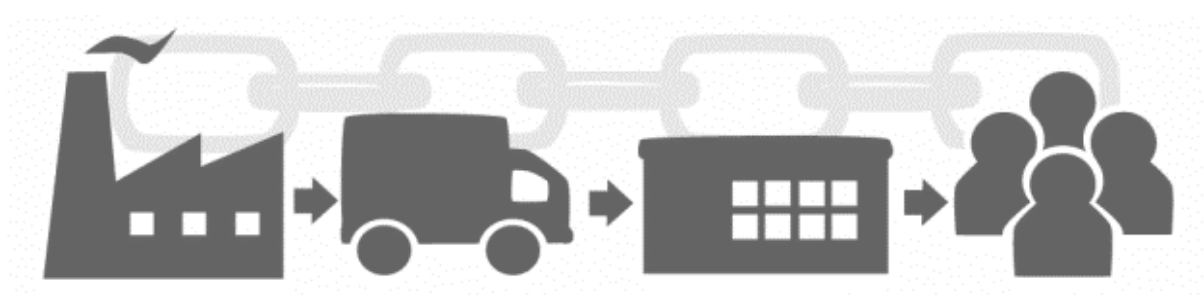
DeepTrace is continuing to develop standardized structured documents to replace the typical unstructured documents in use today(considering structured data is digital data and unstructured data are pdfs/scans.

Interoperability

DeepTrace is a distributed ledger platform that is available to participants of any party to a SCM, anywhere in the world. The platform provides a way for all major SCM and permissioned participants to immediately contribute to and extract value from the DeepTrace ecosystem.

Permissioned Sharing

DeepTrace document permissions are determined through a combination of the organization's role and the document type. The DeepTrace platform then permits access to documents according to the permission matrix.





Permissioned Access

DeepTrace ensures flexibility and control over who can view, publish and subscribe to specific data. SCM milestones and documents are only accessible to authorized parties.

Tamper-proof recording

Nonrepudiation for all data submitted to the platform. All data is signed by the submitter and recorded in the ledgers of the Trust Anchors.

Verifiability

Data against the recorded proof of submission on the blockchain. Every piece of data can be verified against a hash of its original submitted content.

Provenance and Auditability

All transactions are signed and dated on the ledger..



Privacy

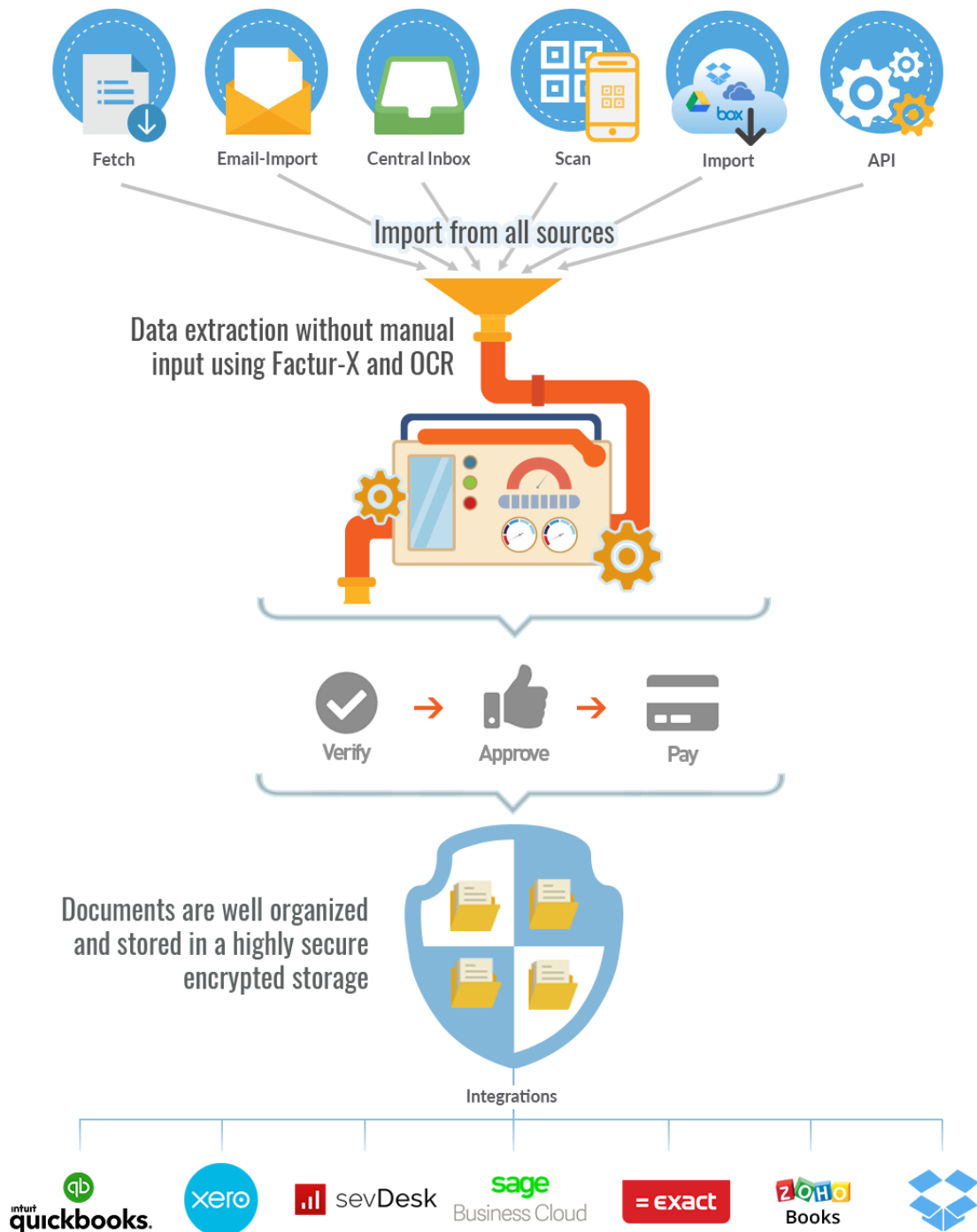
Data to ensure that it is only shared with relevant organizations. Only registered entities with Certificates can access the ledger. Channel Level Control Application Level Access Control.

Recoverability

The solution from the data recorded on the blockchain. All data is distributed and replicated across the ledgers of the Trust Anchors.

Immutability

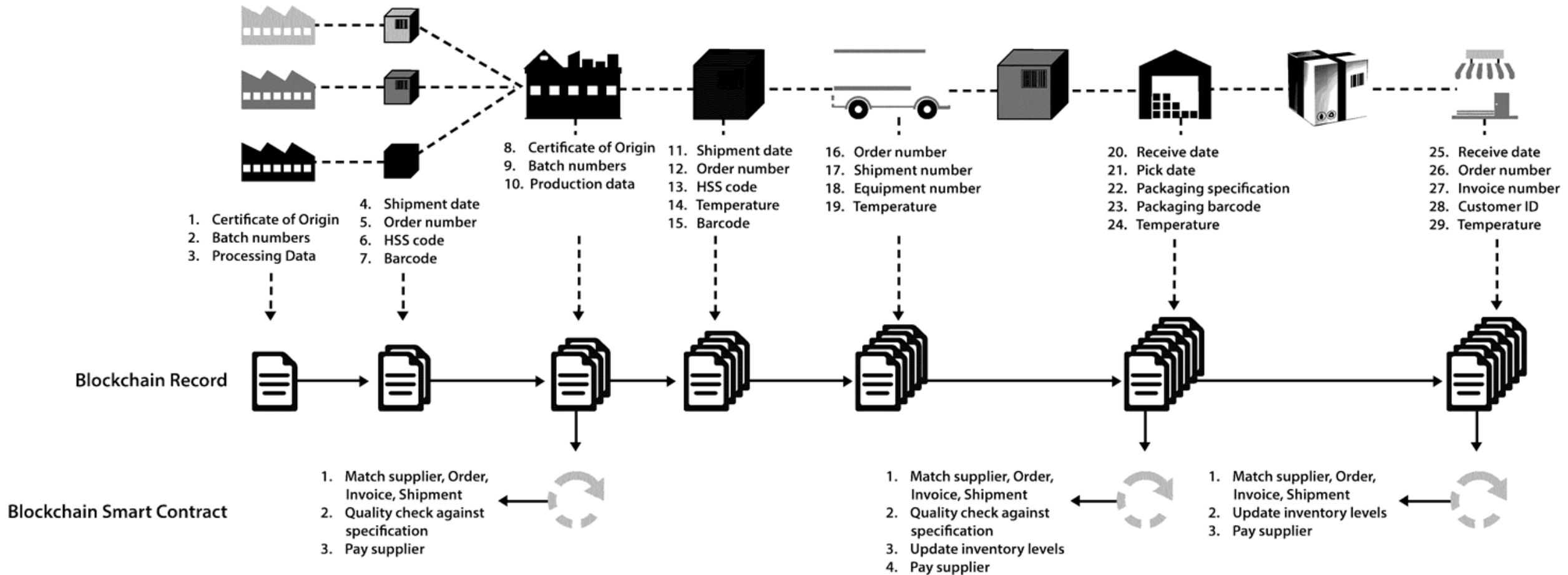
In addition to being able to download each version of a document, DeepTrace also performs a Consistency Check to indicate a document has been verified on the blockchain. Once a document (or a version of a document) is selected, the particular document will be retrieved from the secure Blockchain Document Store and the hash stored on the blockchain will be compared with a newly generated hash. After this check is complete, the Consistency Check will indicate that the document has been verified on the blockchain and has not been altered in any way.



Workflow Automation

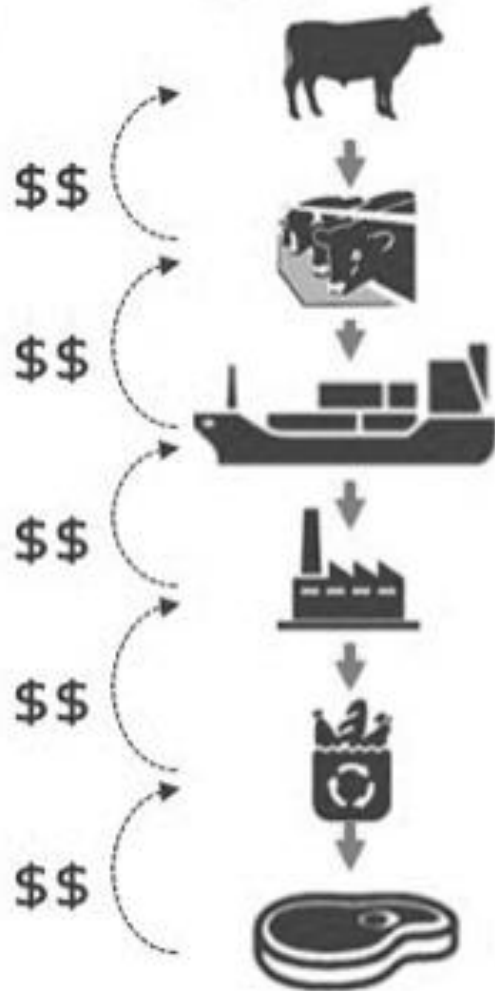
Trade documents associated with SCM in a distributed and shared repository, eliminates endless file, folder and email searching for information. DeepTrace uses the Hyperledger Fabric permissioned blockchain to guarantee the immutability and traceability of SCM related documents. Each time a document is edited or uploaded to the DeepTrace platform, a new version of the document is created and added to the document store, eliminating multiple copies and the inconsistency of identifying the latest versions.

Blockchain Layer

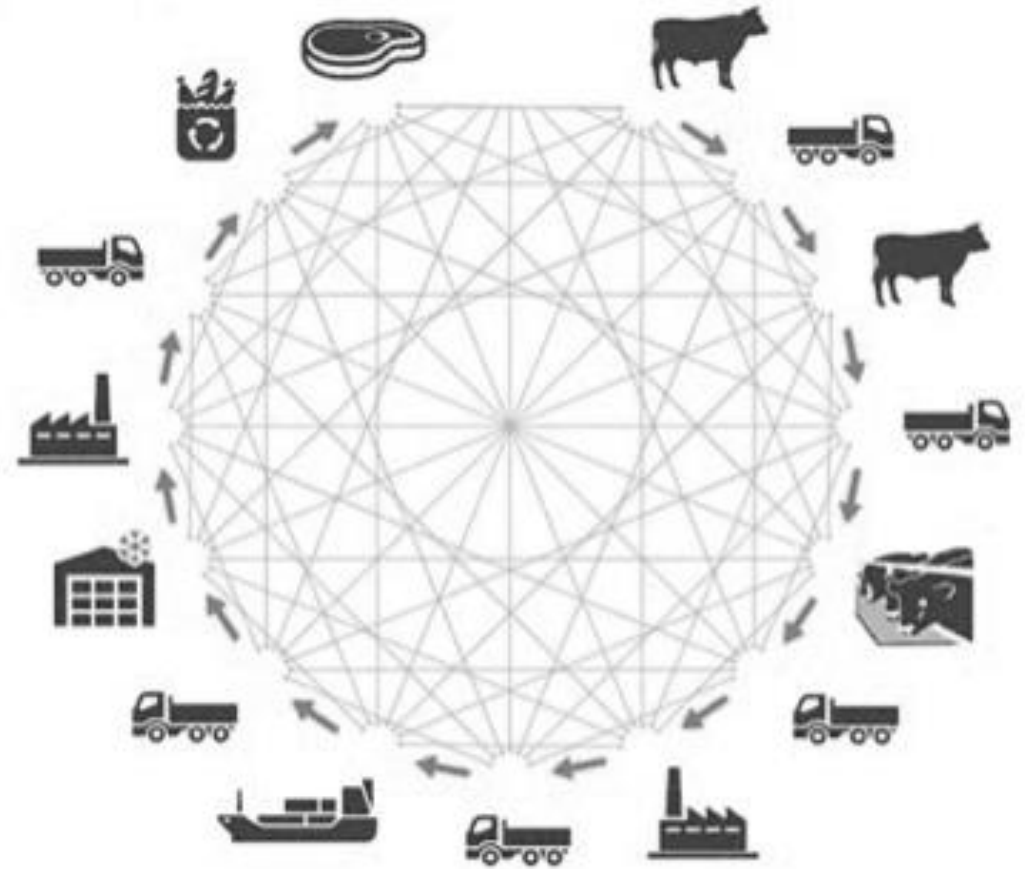


The Difference...

Traditional Supply Chains Rely On Trust



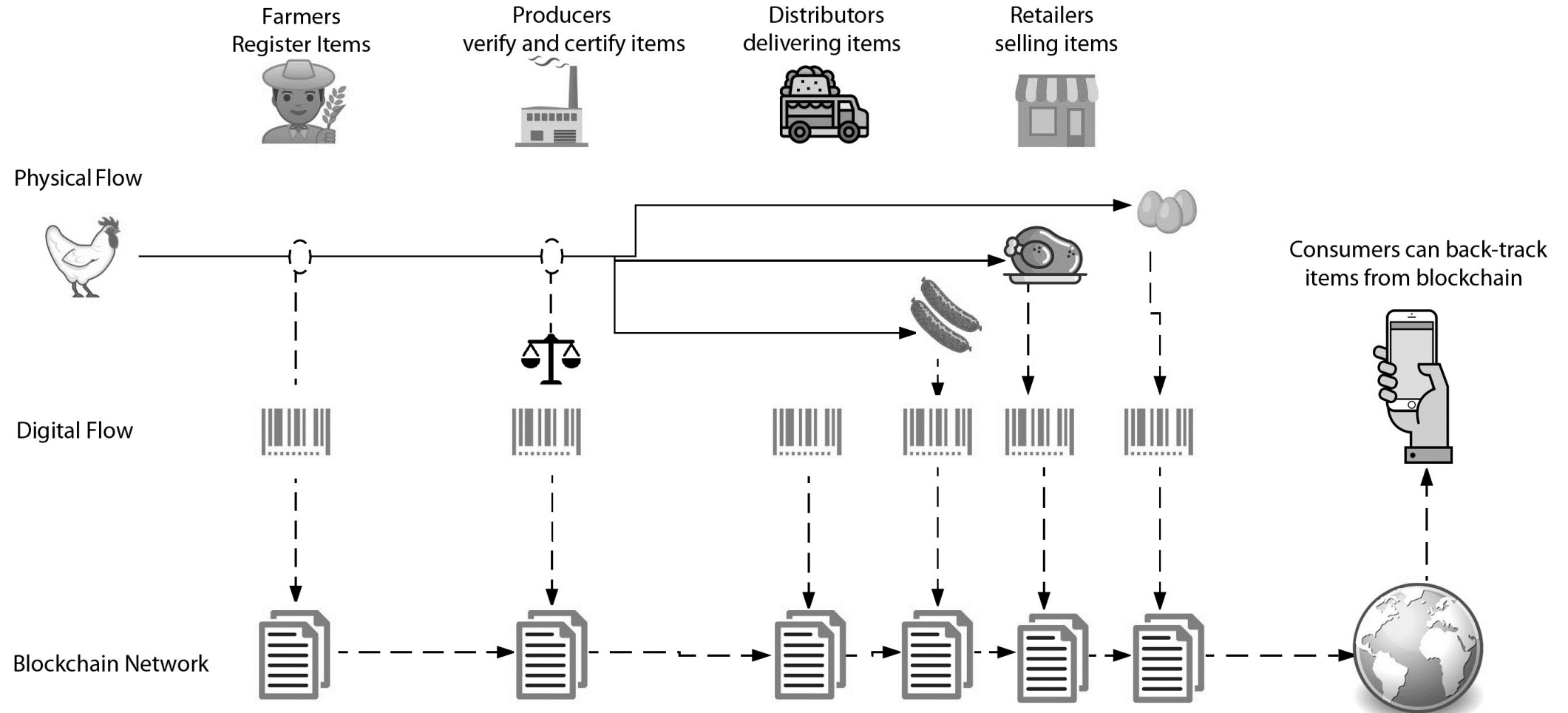
Transactions On A Blockchain is Verified by All Users

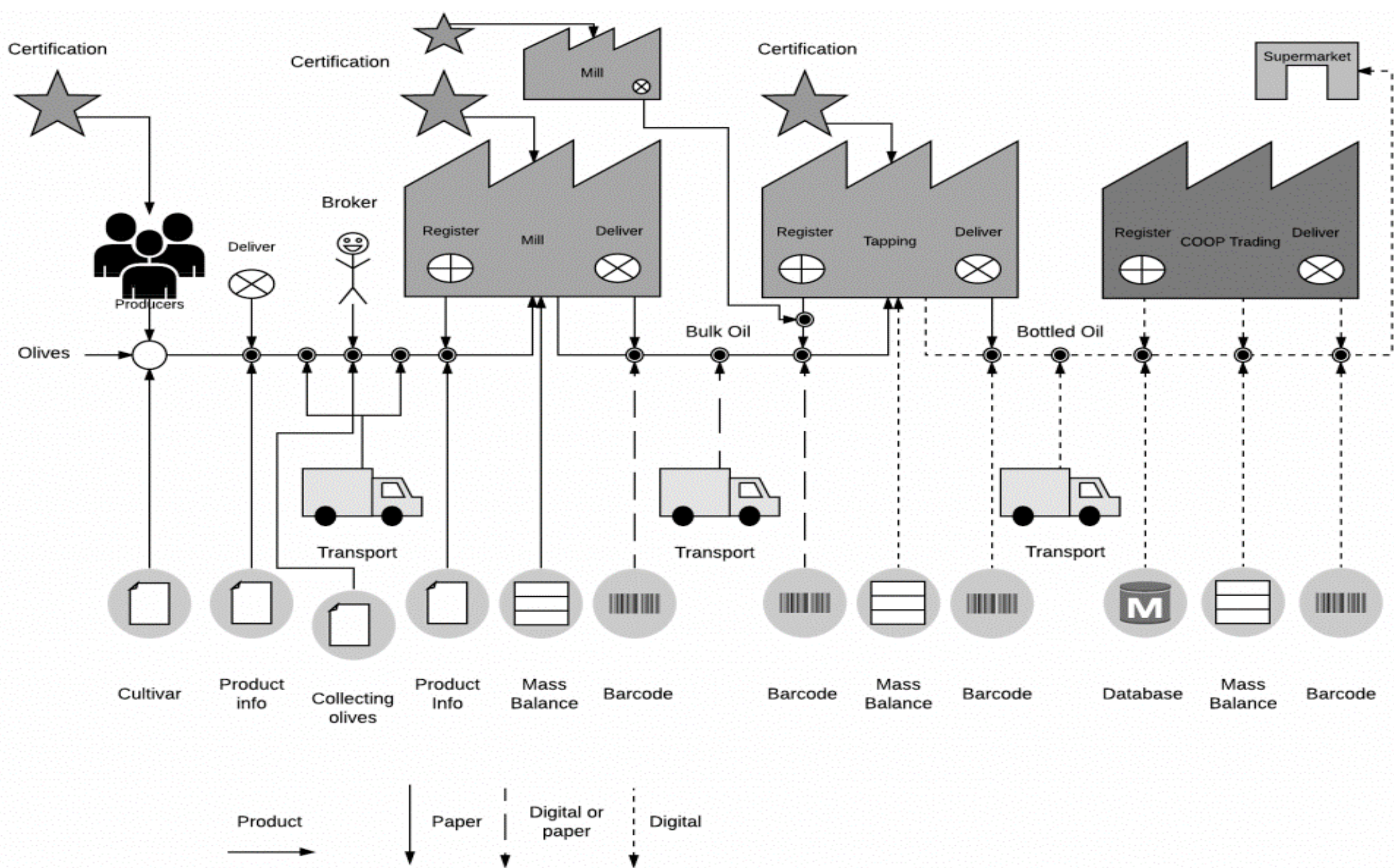


An aerial photograph of a large port facility. In the foreground, a large container ship is docked at a pier, with its deck covered in colorful shipping containers. Several yellow gantry cranes are positioned along the pier. To the right, a large area is filled with stacks of shipping containers in various colors (red, blue, green, yellow). In the background, more ships are visible in the water, and the port infrastructure extends into the distance. Overlaid on the image is a network diagram consisting of white circular nodes connected by thin white lines, representing a supply chain network. The text "DeepTrace and its Areas of Interest in Supply Chain" is superimposed on the center of the image in a large, bold, sans-serif font. "DeepTrace" is in red, "and its" is in black, "Areas of Interest in" is in black, and "Supply Chain" is in yellow.

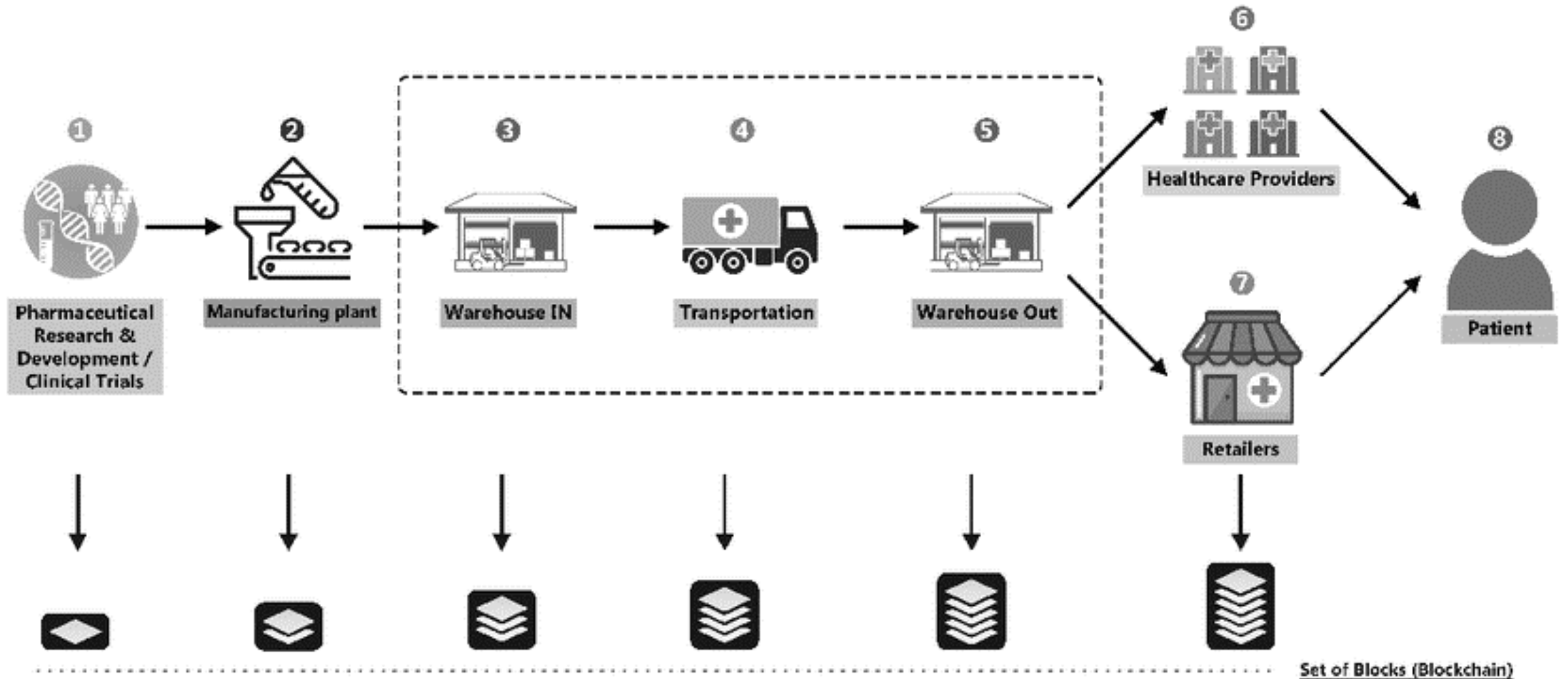
DeepTrace and its **Areas of Interest in** **Supply Chain**

Case Study: Food Supply Chain



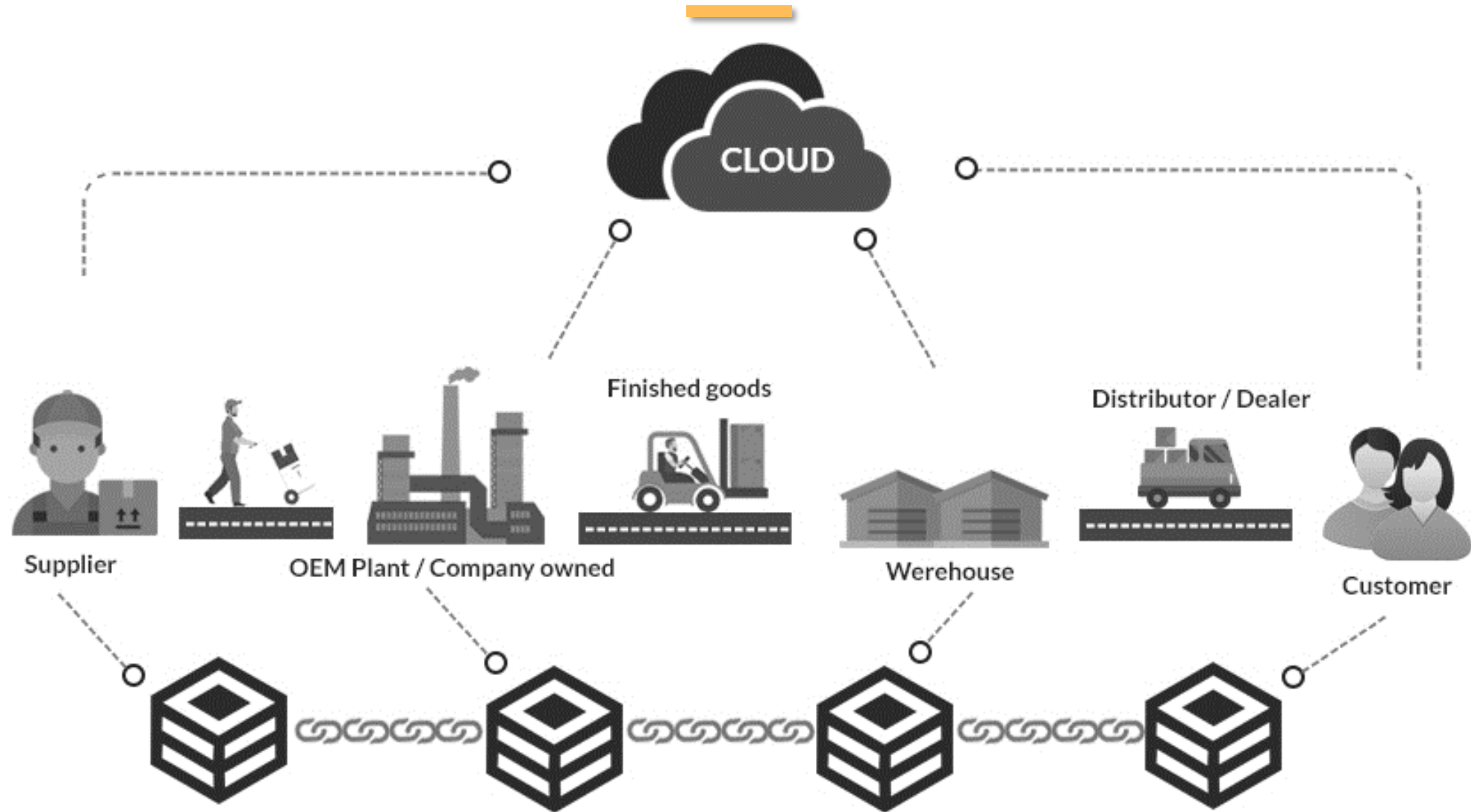


Case Study: Pharma

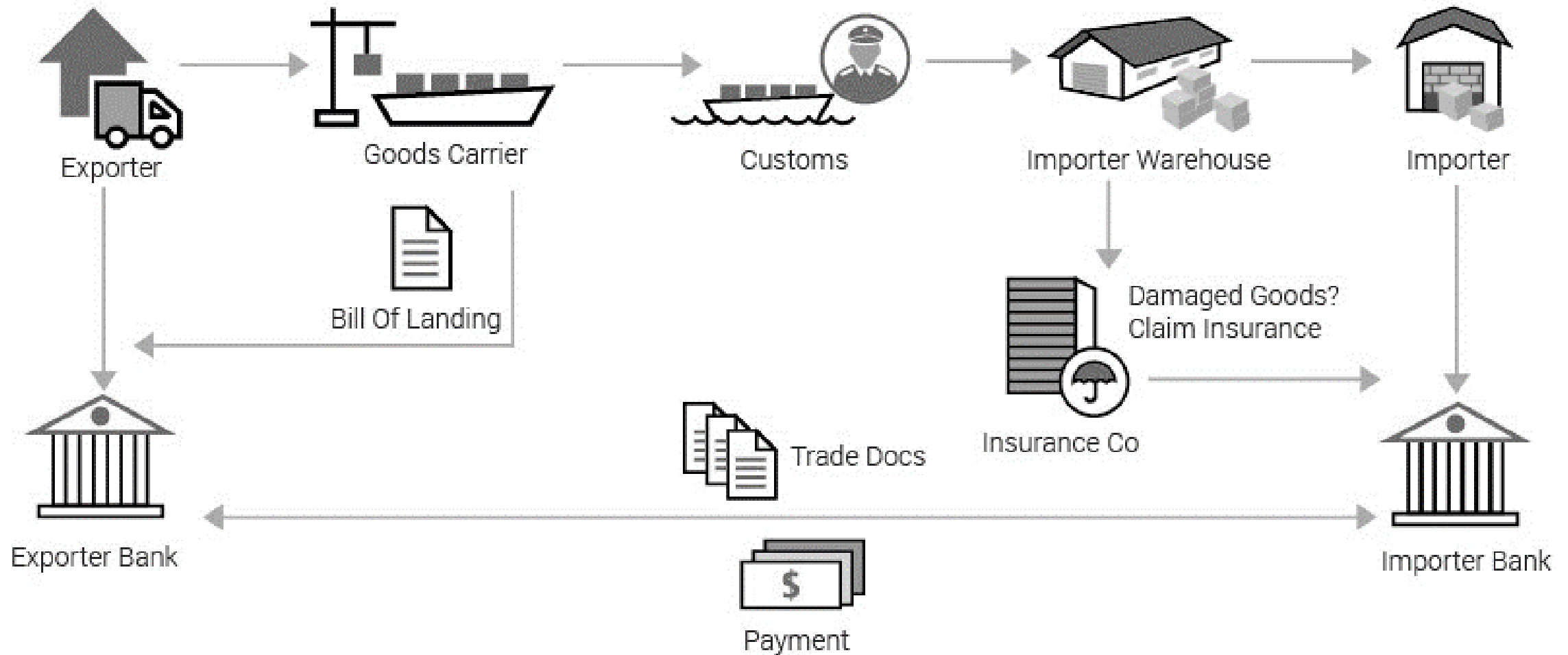


Set of Blocks (Blockchain)

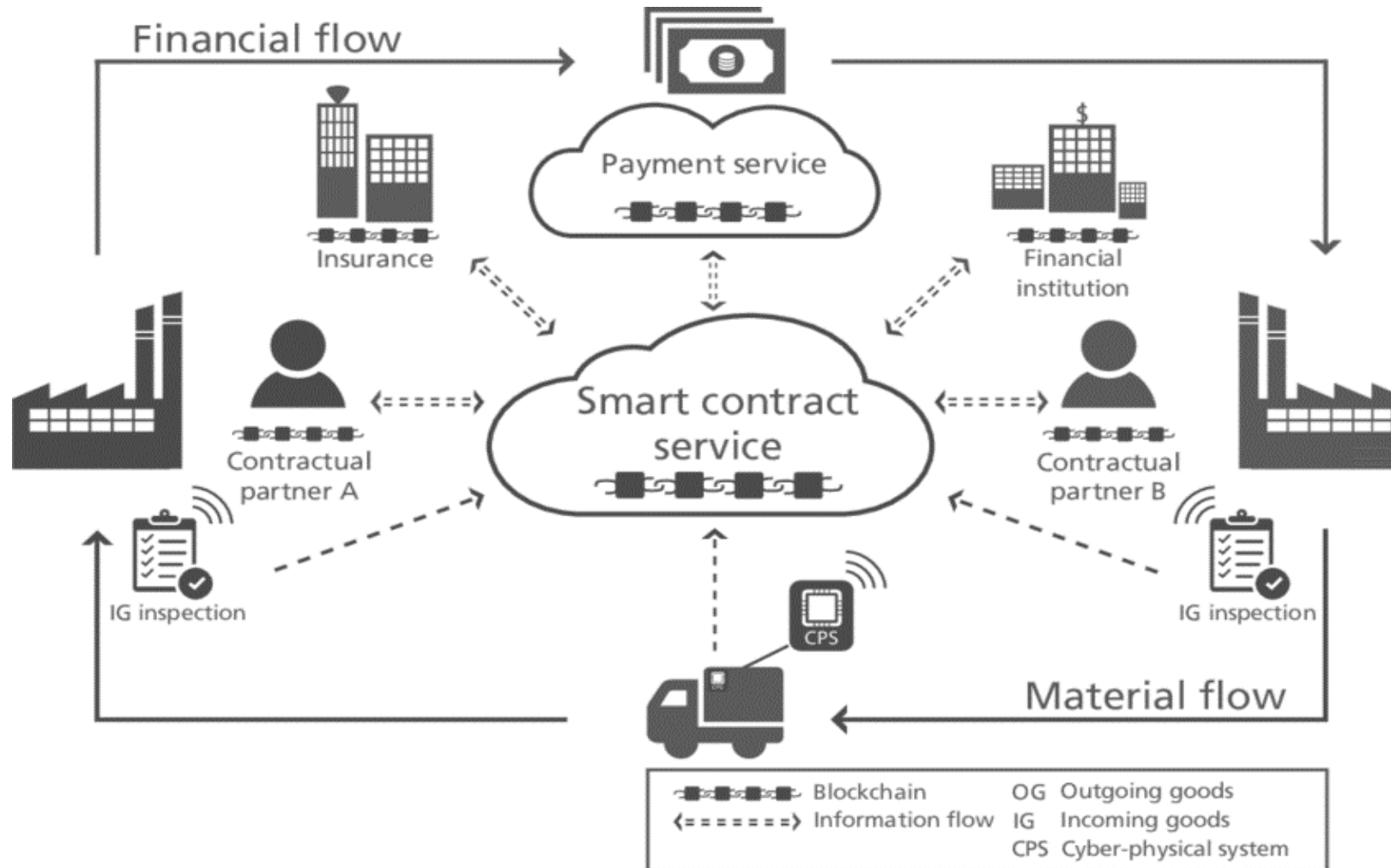
Case Study: Automotive Industry



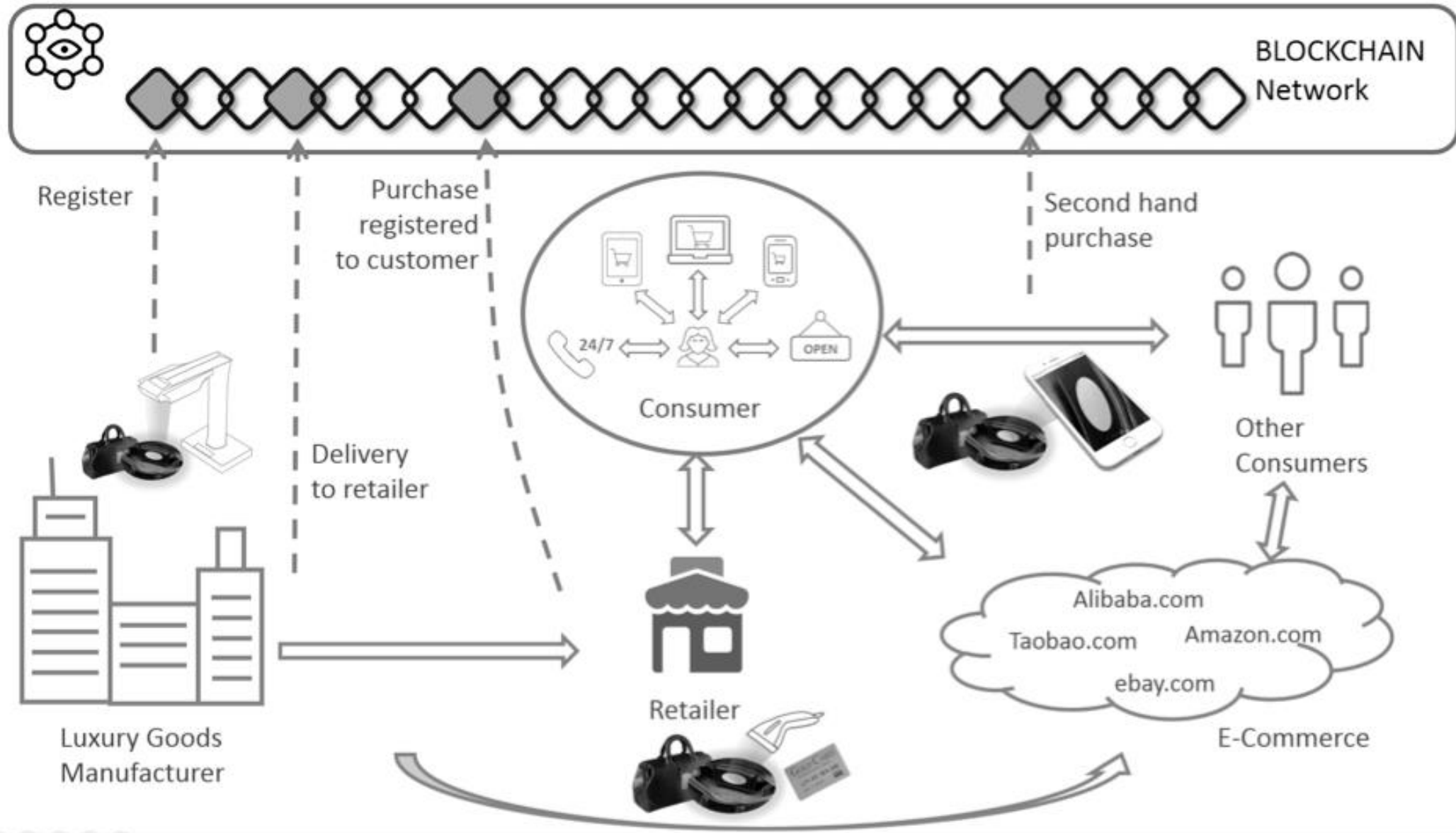
Case Study: Shipping



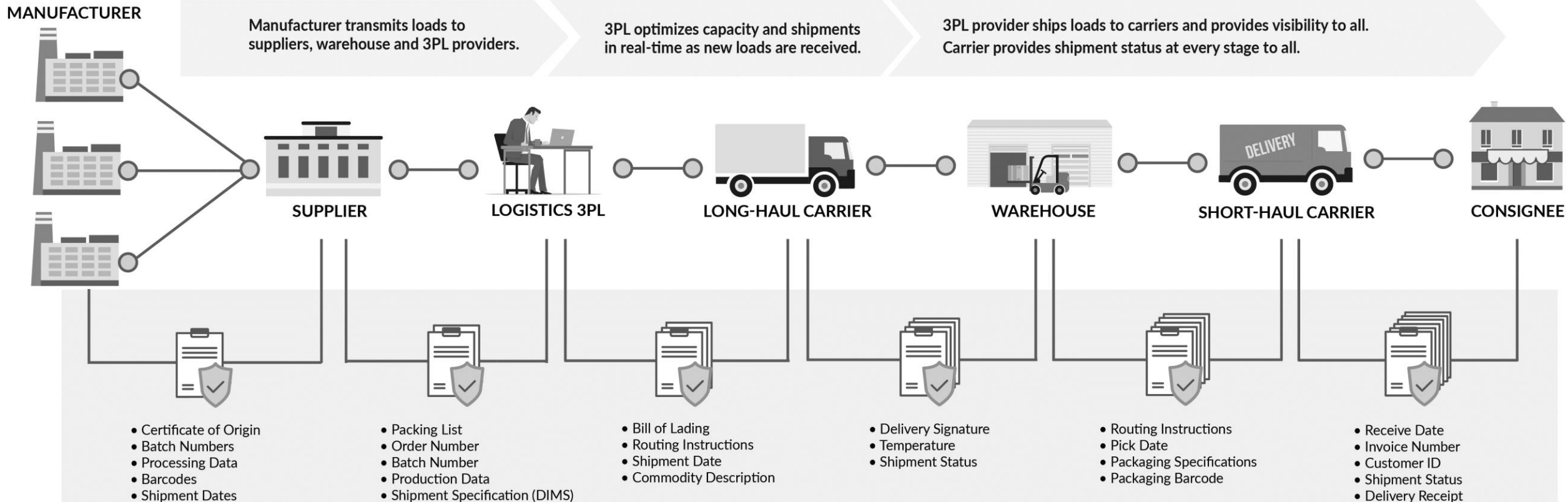
Case Study: Electronics Goods



Case Study: Ecommerce



Case Study: Logistics



LOGISTICS BLOCKCHAIN CONSORTIUM

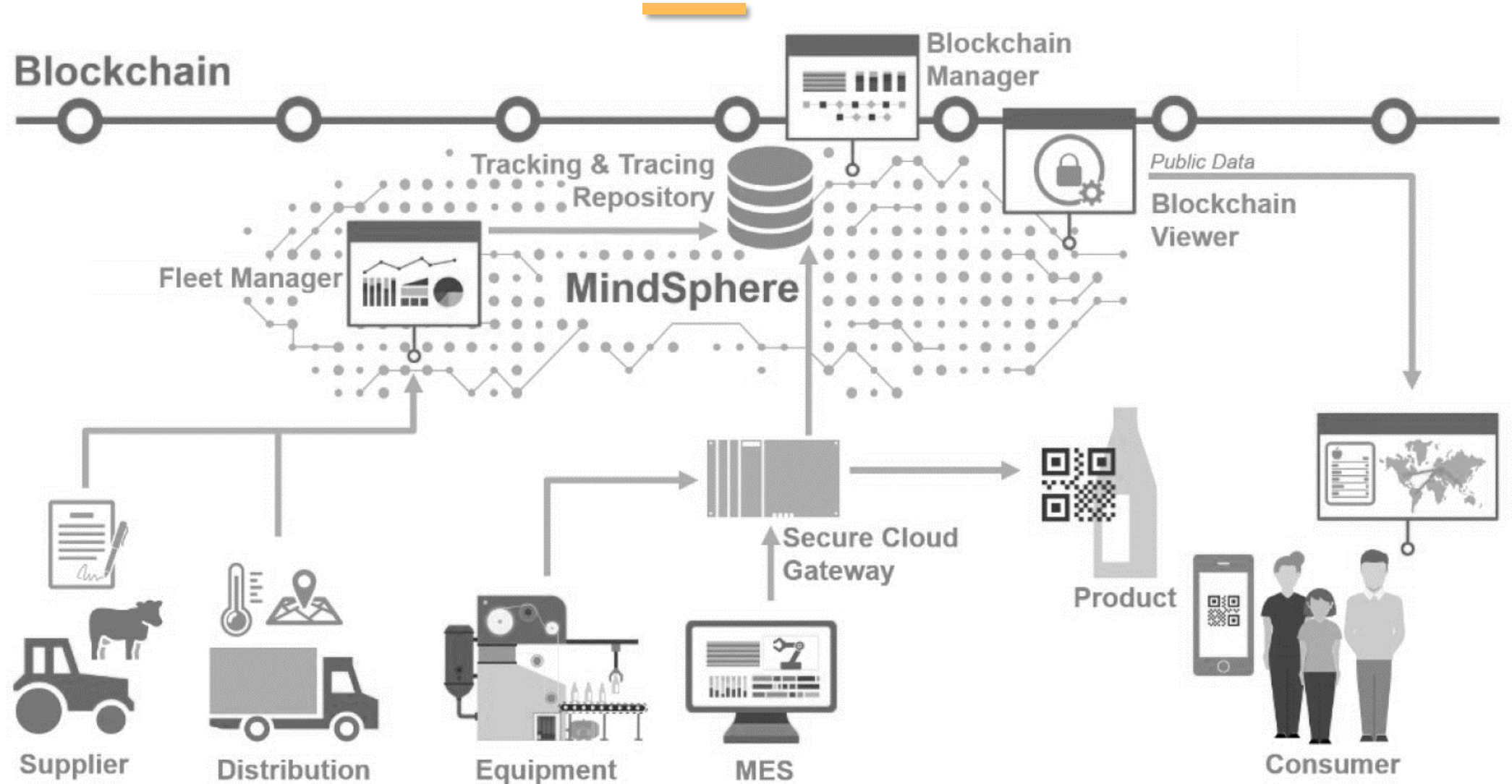


Identical encrypted distributed ledger via the Internet



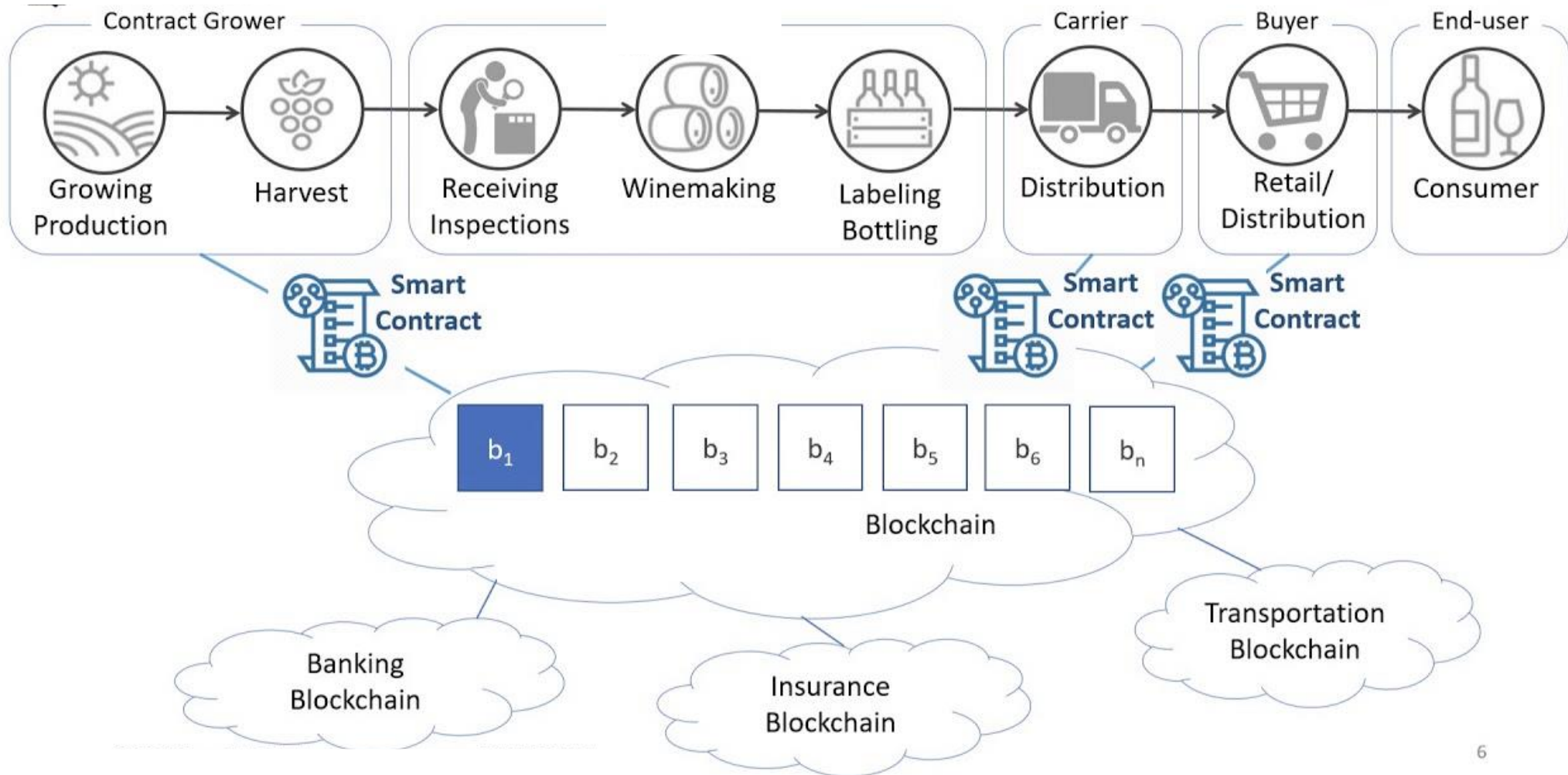
Smart Contracts orchestrating shipment transaction flow based on codified parameters, process triggers and algorithms.

Case Study: Consumer Goods



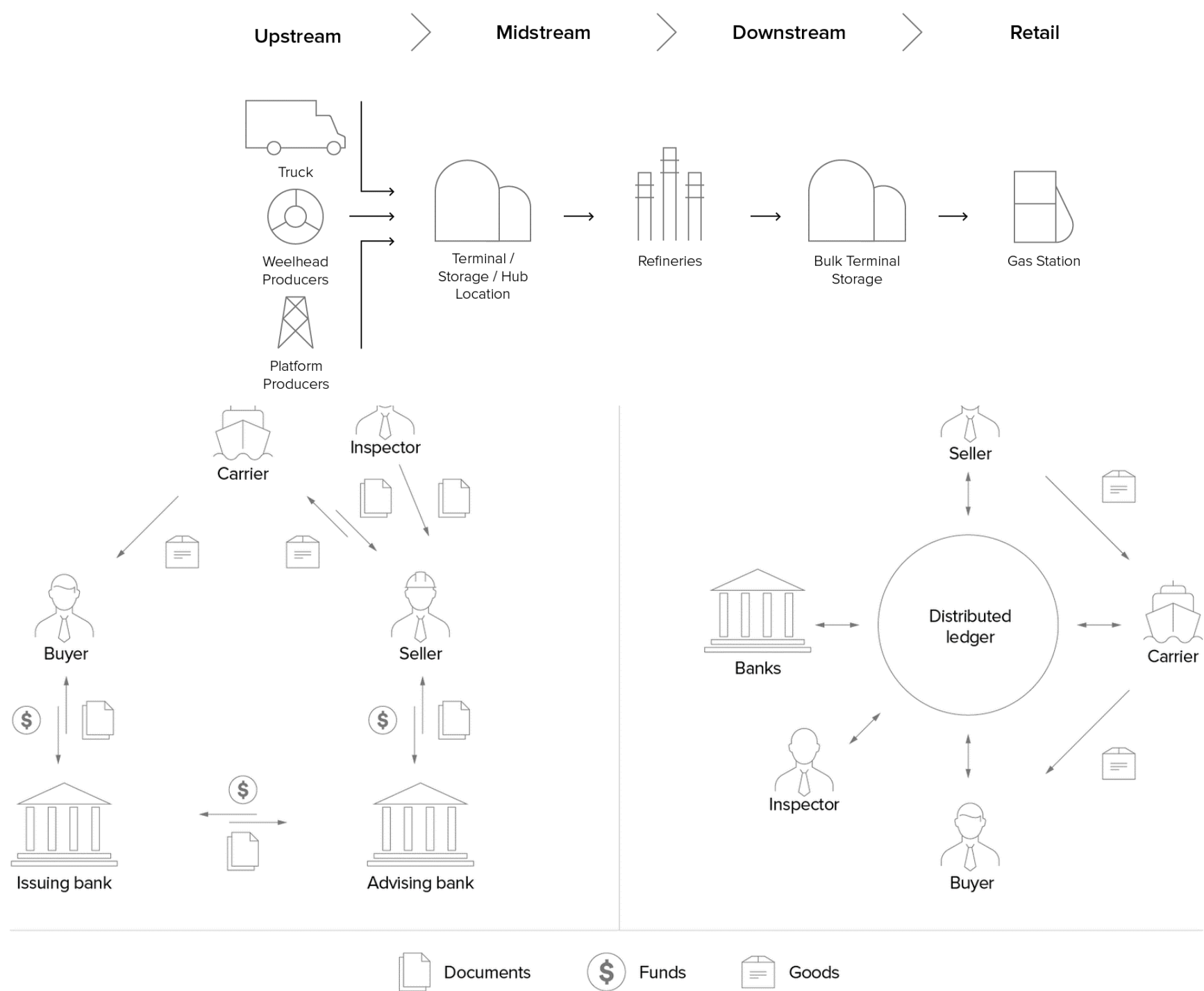
Case Study: Alcohol

Blockchain Enabled Supply Chain

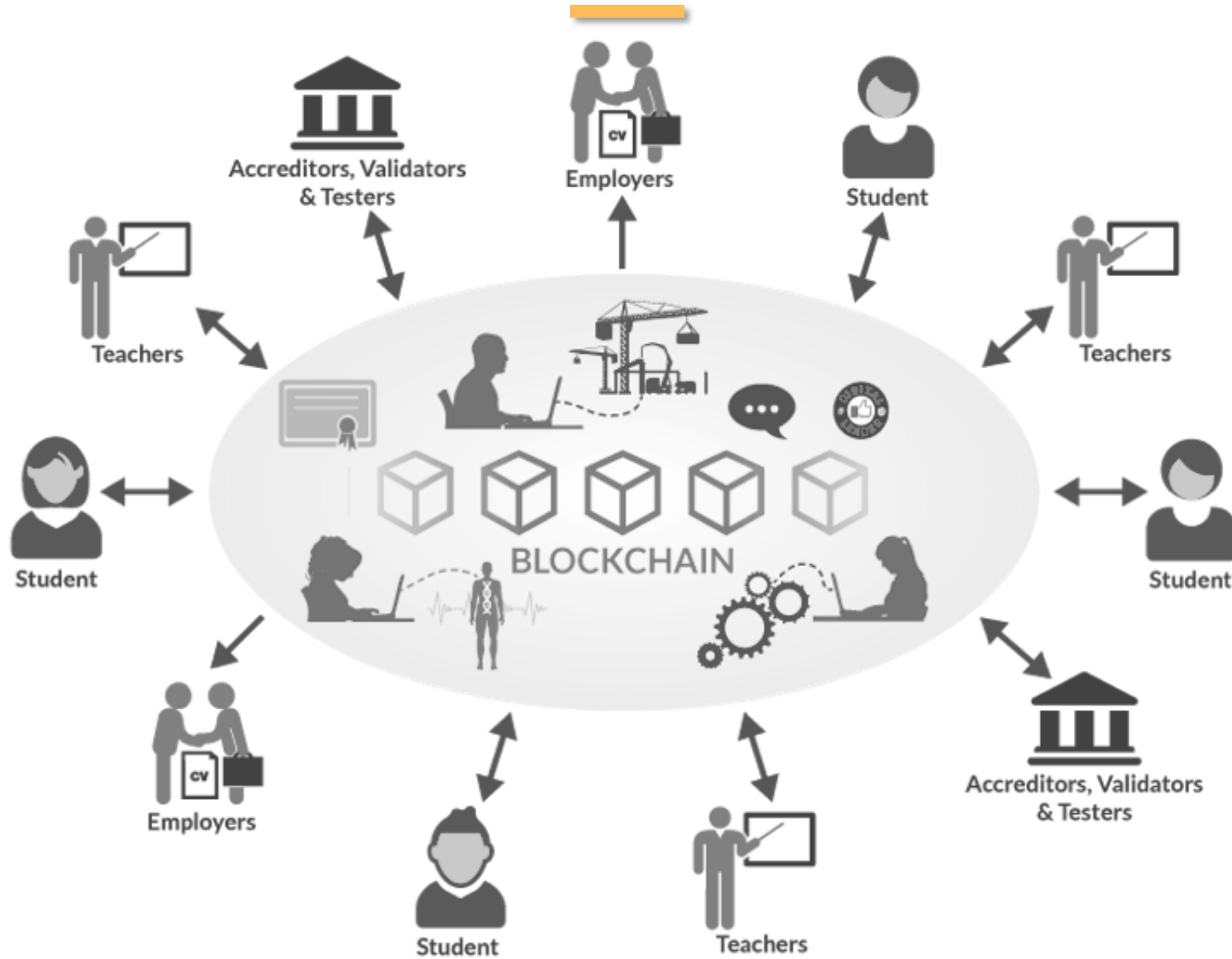




Case Study: Oil/ Gas Industry



Case Study: Education Industry



Case Study: Financial Industry

Global Payments

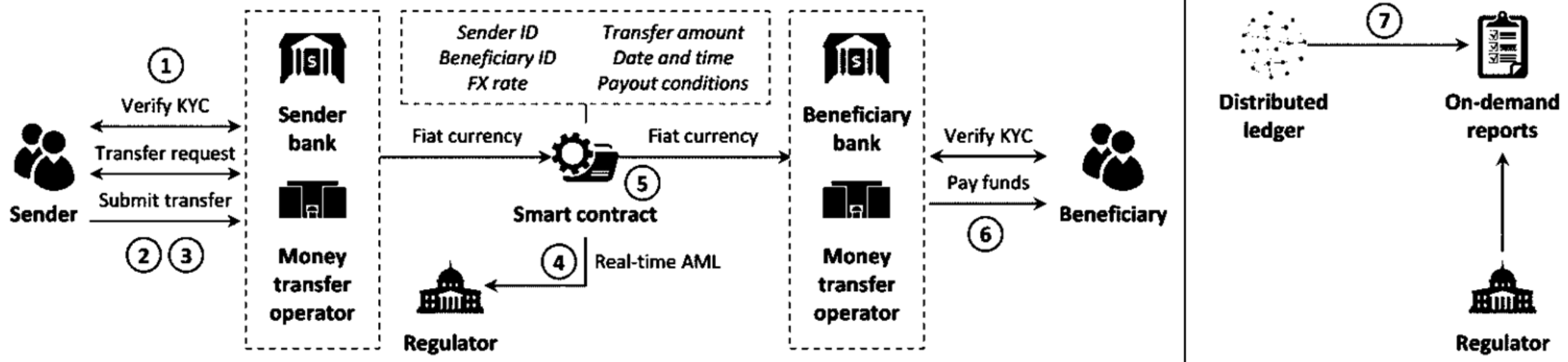
Future-state process depiction

Initiate relationship

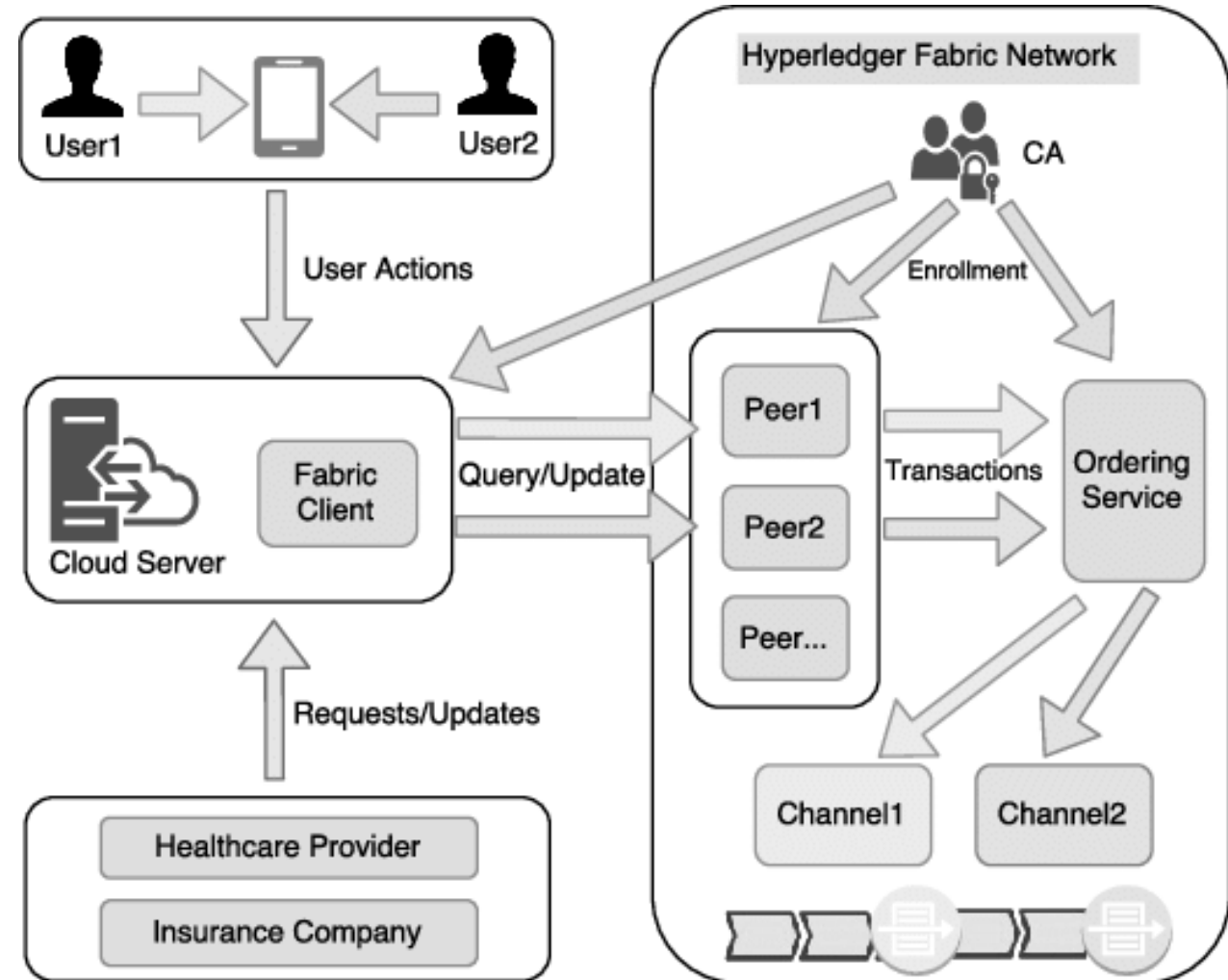
Transfer money

Deliver funds

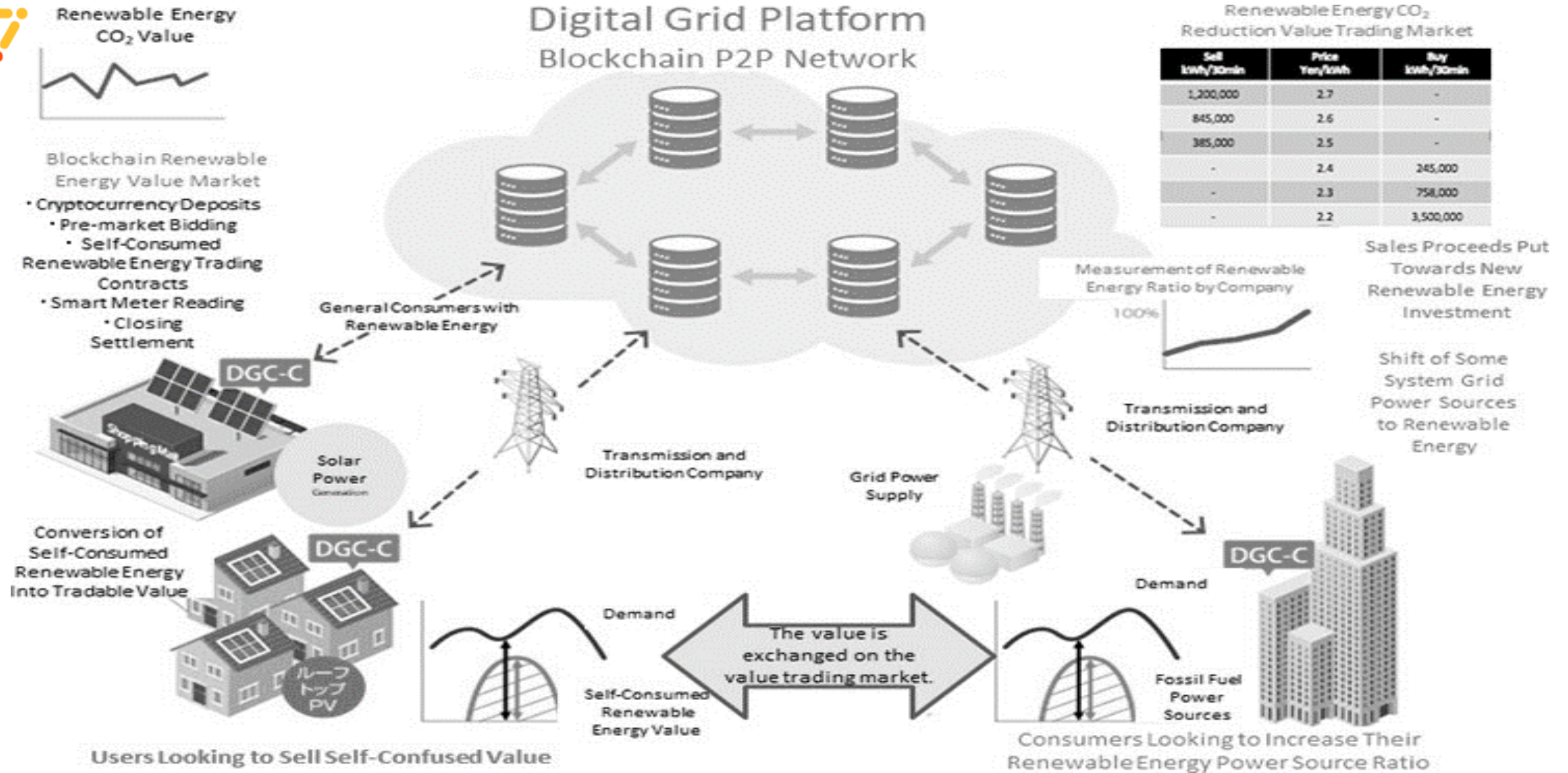
Act post payment

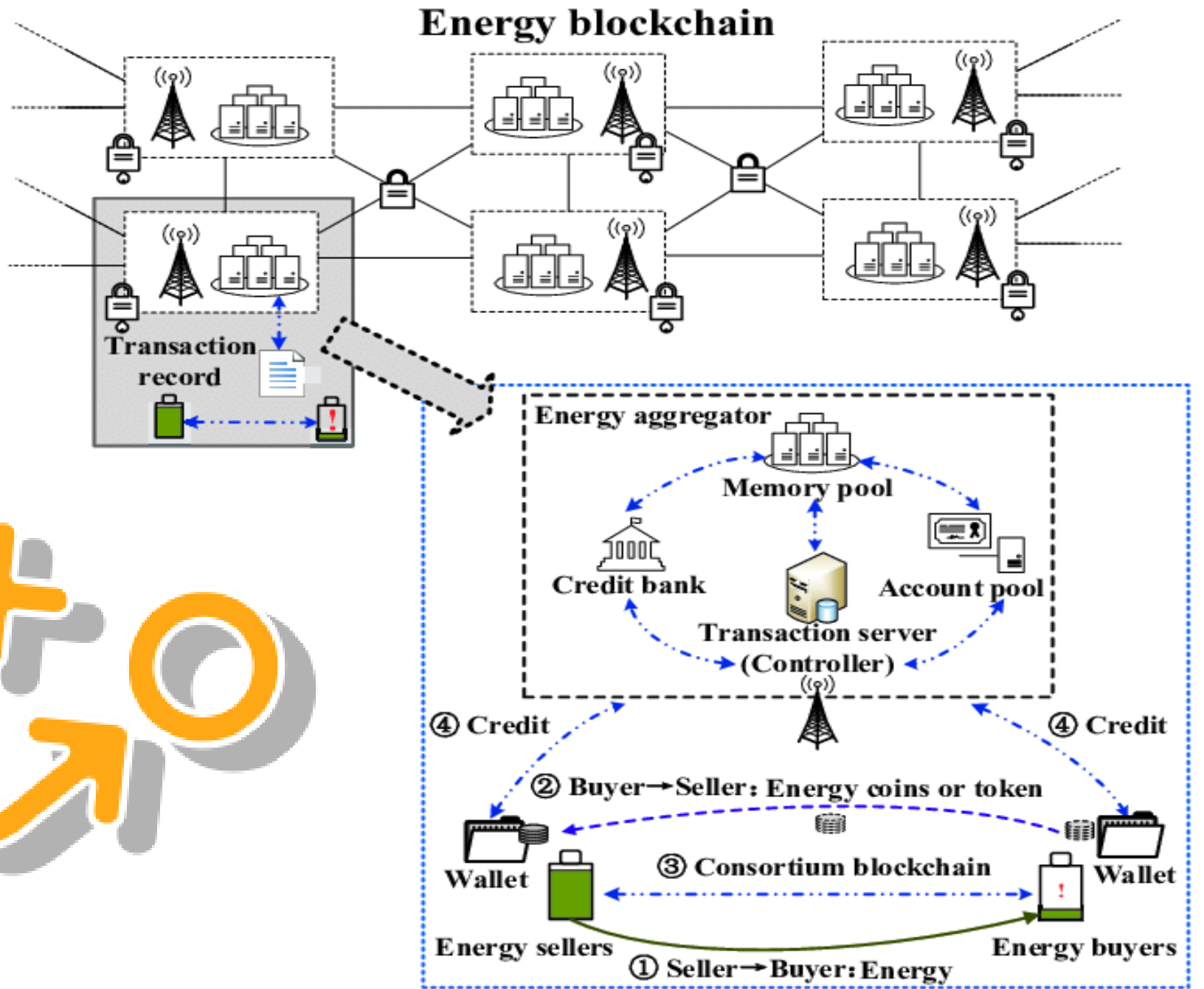


Case Study: Healthcare/ Data



Case Study: Energy







Thank You

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