



# Blockchain In Logistics

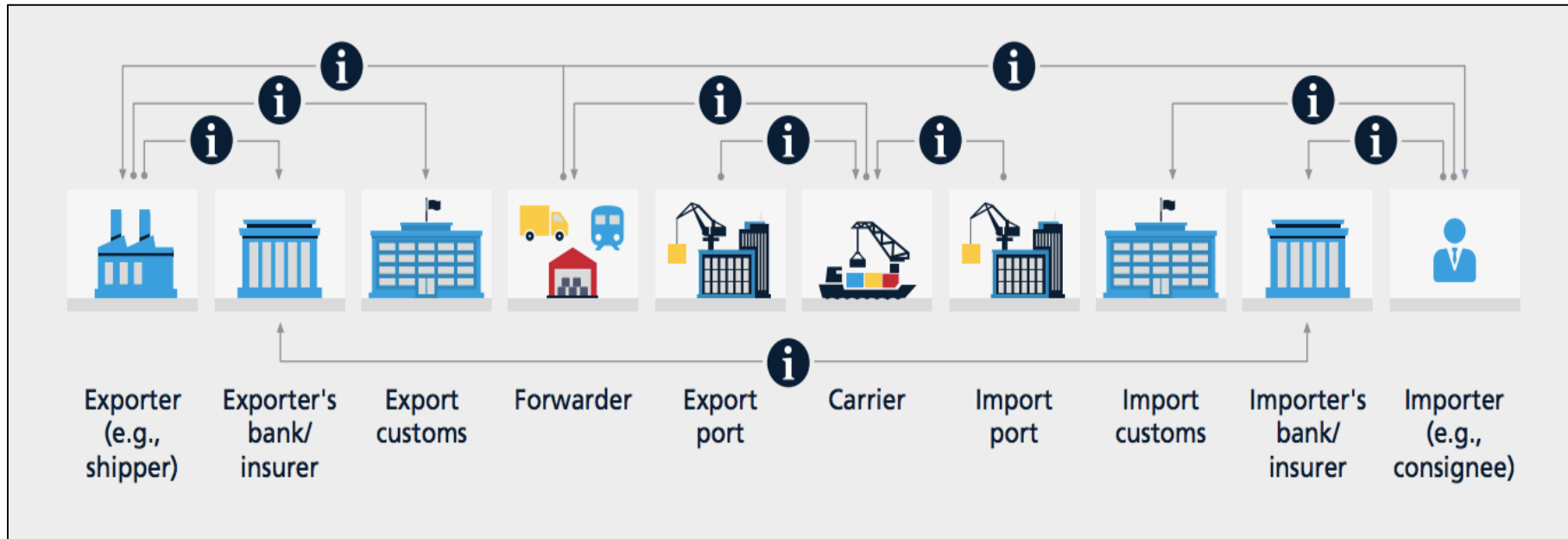
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# Unlocking Value in Logistics

Achieving excellence in logistics involves working collaboratively with others to optimize the flow of physical goods as well as the complex flow of information and financial transactions



# Logistics/Freight Industry Challenges

There is a significant amount of trapped value in logistics, largely stemming from the fragmented and competitive nature of the logistics industry.

- With multiple stakeholders involved, in supply chain/freight management, there is a possibility of low transparency, unstandardized process, data silos and diverse levels of technology adoption

Many parts of the logistics value chain are also bound to manual processes mandated by regulatory authorities.

- Companies must oftentimes rely on manual data entry and paper-based documentation to adhere to customs processes

All this makes it difficult to track the provenance of goods and the status of shipments as they move along the supply chain, causing friction in global trade.

- Lack of governance leads to high possibilities of fraud and delay in shipment which leads to losses

# Technology to Solve Logistics

Blockchain can potentially help to overcome these frictions in logistics and realize substantial gains in logistics



Blockchain can also enable data transparency and access among relevant supply chain stakeholders, creating a single source of truth

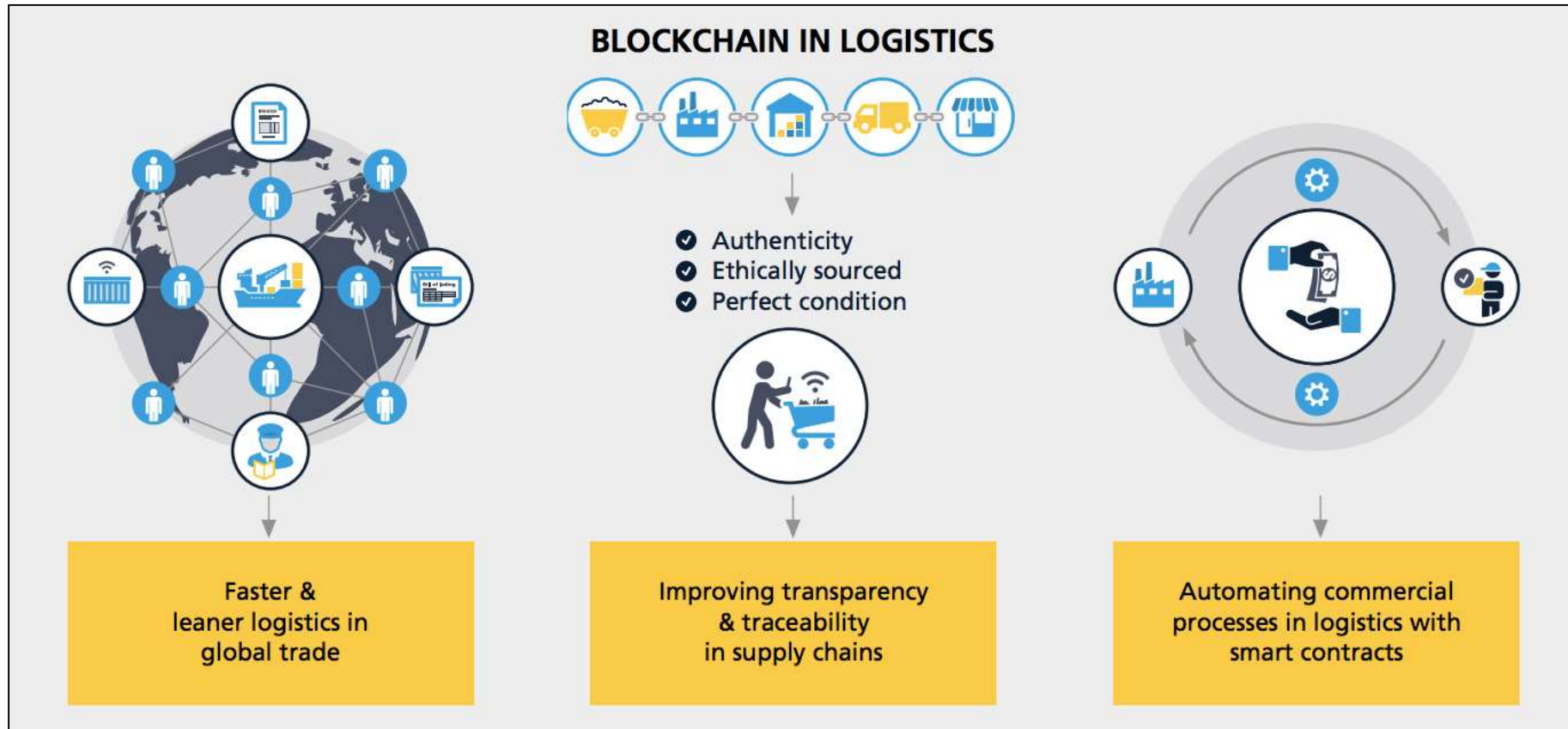


Blockchain can achieve cost savings by powering leaner, more automated, and error-free processes



Blockchain technology can help alleviate many of the frictions in global trade logistics including procurement, transportation management, track and trace, customs collaboration, and trade finance.

# Blockchain advantages

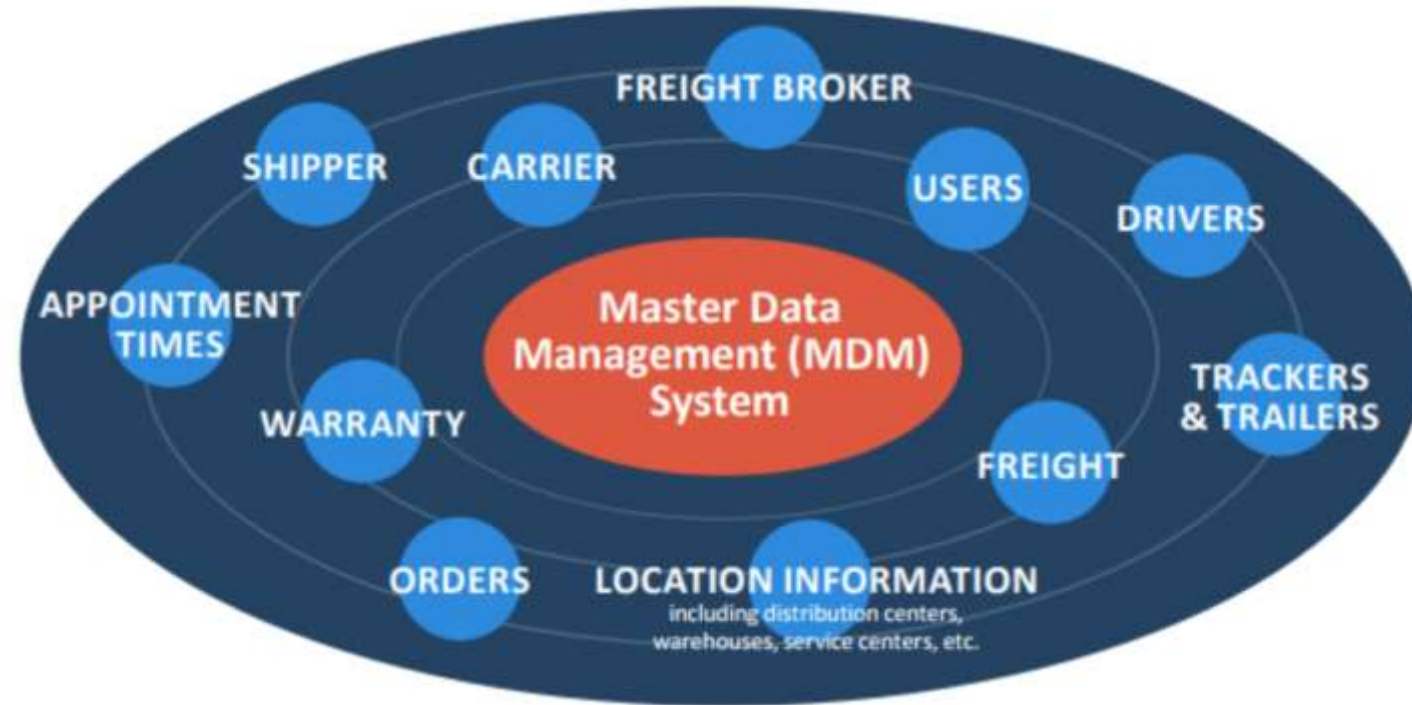


# Blockchain/AI Potential in Transportation

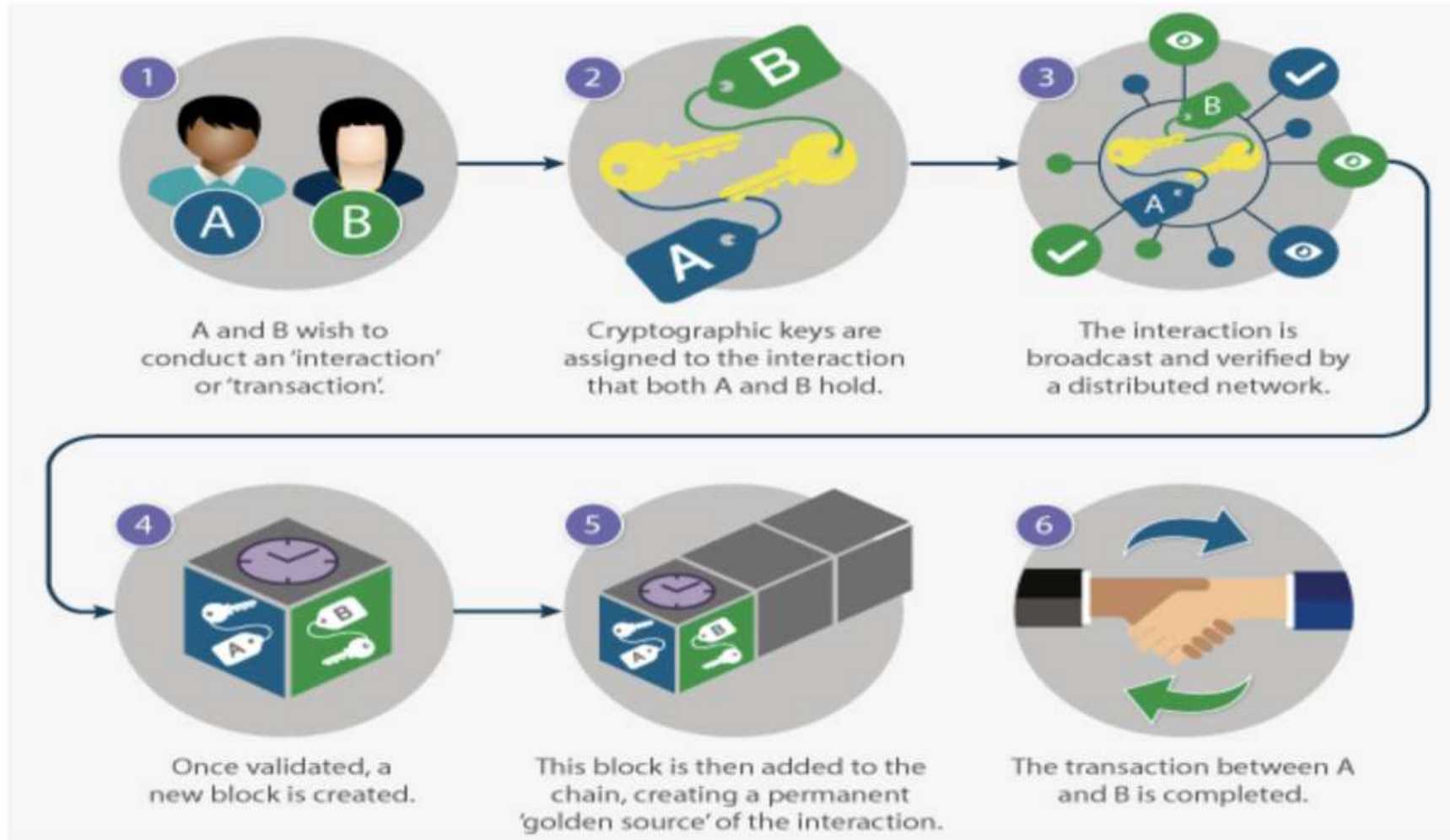
- Big players in transportation are recognizing the opportunity blockchain represents for the industry. The [Blockchain in Transport Alliance \(BiTA\)](#), for example, was created as a forum for blockchain education and standards development for the freight industry.
- One major application transportation players foresee is smart contracts between shippers and carriers.
- With smart contracts, conditions are predefined and recorded on the Blockchain.
- Once conditions are met, the smart contracts are automatically created. Then, after transactions are recorded and validated on the blockchain, payments are immediately sent.
- This streamlines the process by automating steps and eliminating intermediaries and their associated costs.
- Shippers would also have complete visibility of the entire supply chain with blockchain since each party validates and records transactions throughout the process.
- This increased transparency and tracking ability would in turn discourage cargo theft. In addition, there would be a heightened level of trust in the entire shipping process.
- For freight brokers, blockchain technology can provide solutions to some of the biggest challenges in the logistics and transportation industry: protecting commodities and maximizing delivery efficiency.

# Blockchain Use-Cases in Logistics

- Domestic Freight – Domestic Freight/Trucking is a big part of logistics for any company where multiple parties are involved with lot of manual paper work along with government rules/policies
- International Freight – International Freight management involves various parties like supplier, Broker, Shipping department, Government/customer and actual Industry which is importing/exporting the goods
- Supply chain



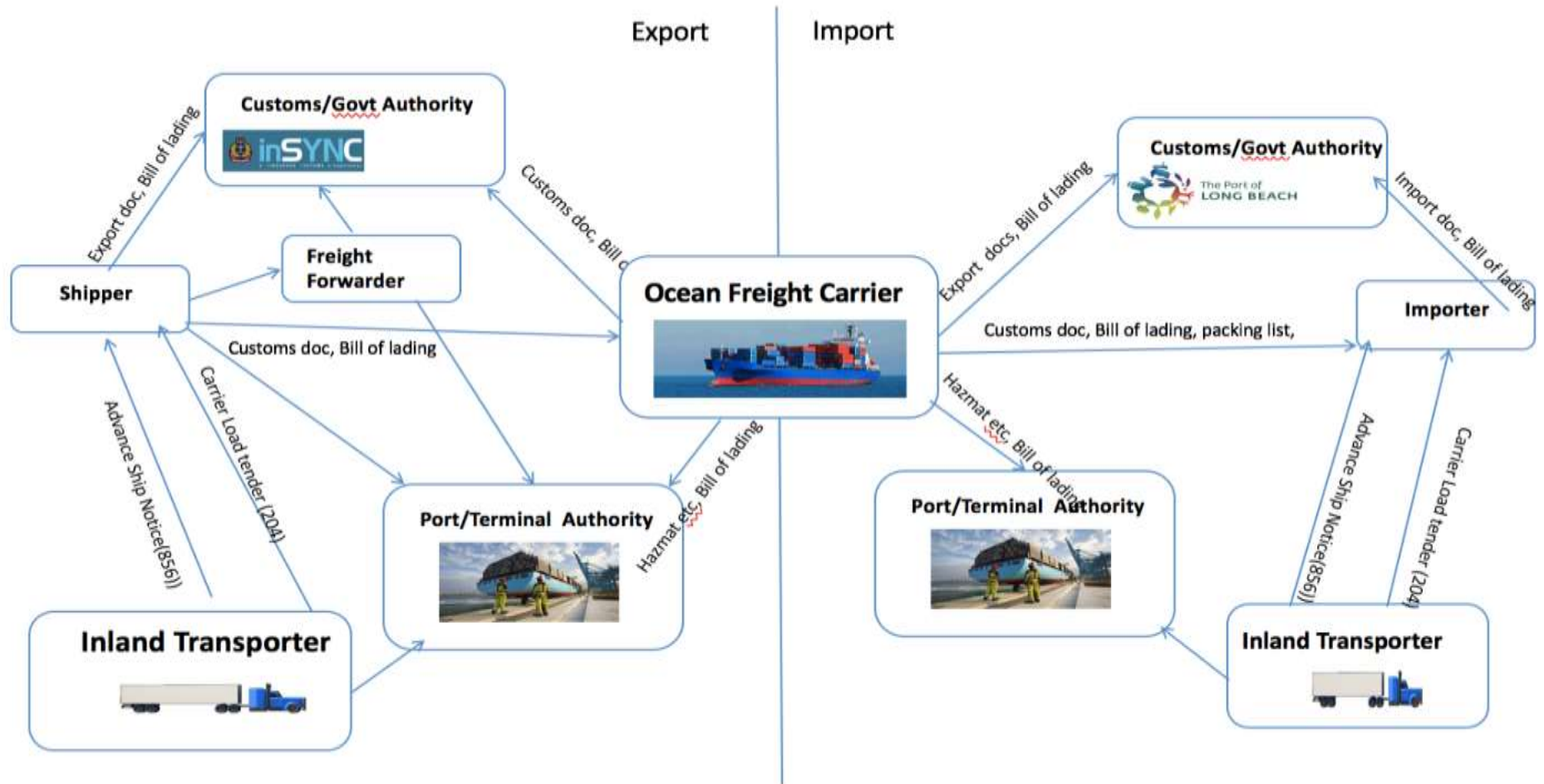
# How Blockchain Works





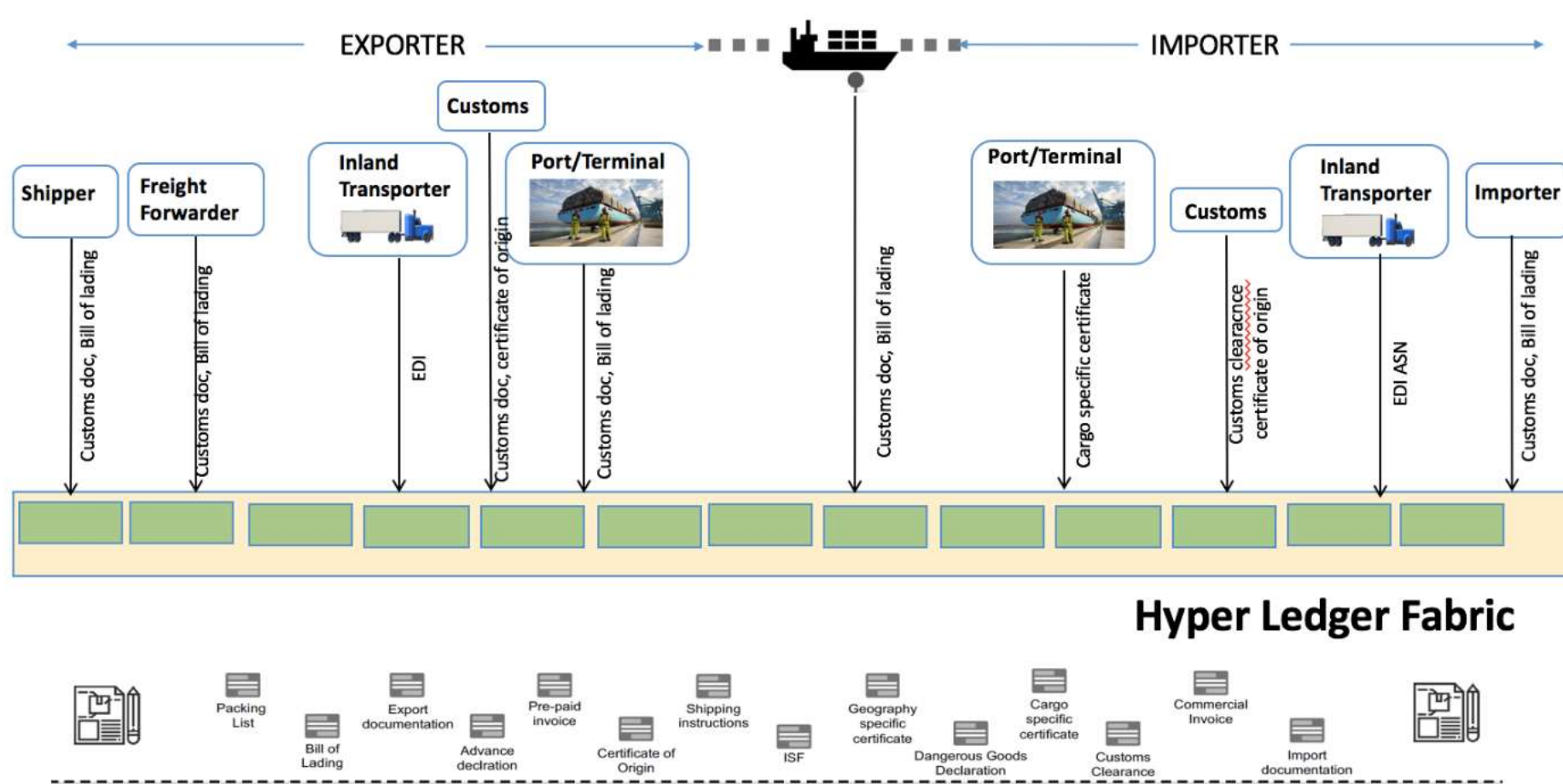
# Current Logistics Flow

This is how the current process looks like:



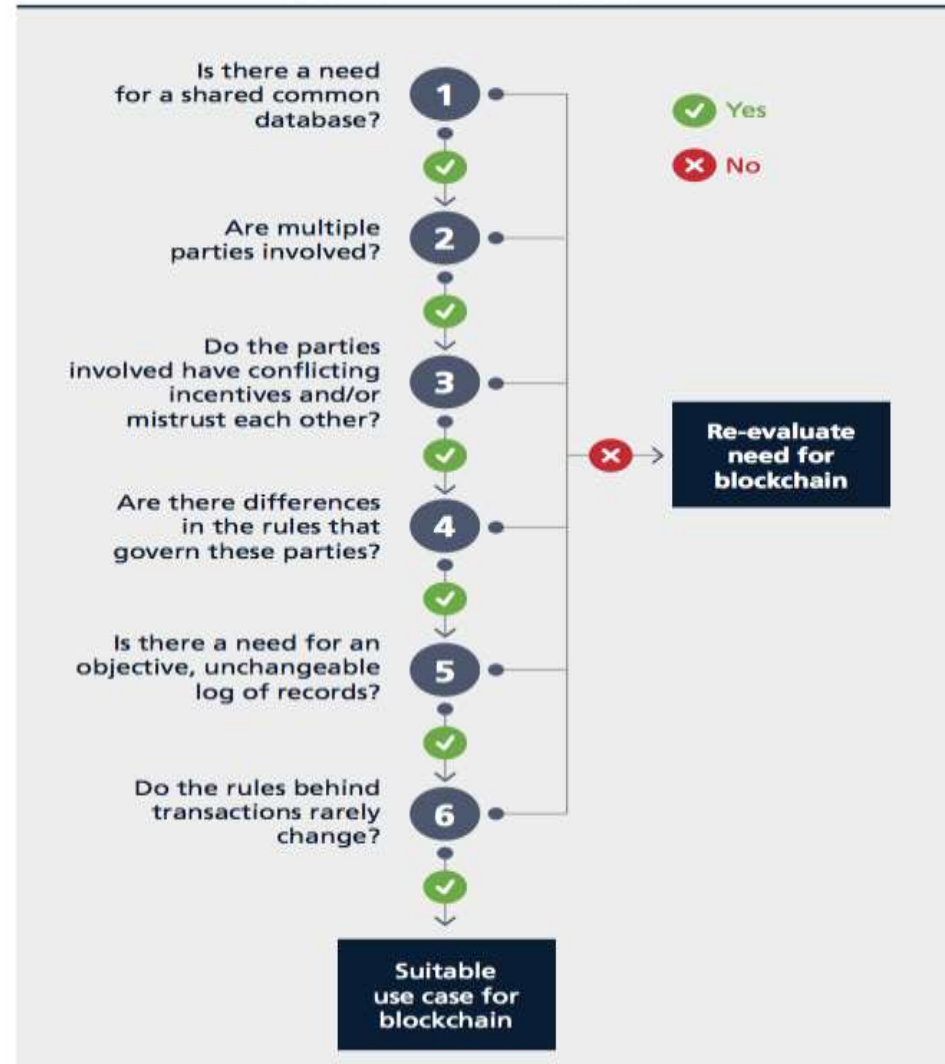
# Future Logistics Flow

Here is the future state process on Blockchain/ AI



# How to Decide: Blockchain or Not

## SIMPLIFIED BLOCKCHAIN DECISION TREE



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**Thank You !!**