Supply Chain & Smart Contracts

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Supply Chain

Network(setps) where products/services supply to consumer

Products/Services -> Consumers

Chain can be thought as newtok, where nodes transfer material from one form to another and links exchange product between nodes

Chain ≡ Network

- Nodes (Transformation)
- Links (Exchanges)

Supply Chain

Supply Chain Diagram













Raw Materials → Supplier → Manufacturer → Distributor → Retailer → Consumer

Traditional Supply Chain

Negative

- Lack of automation process
- Trust centralized
- Difficult to share securely across parties
- Communication and coordination can be complex
- Not transparence

Positive

- Easy to set up (database server)
- No need for particular expertise
- Changes can be reversed quickly and corrected without hassle
- Low development cost

Conclusion

Suitable for isolated application, but once we include interaction with other entities and groups, it gets problematic and not so intuitive.

Blockchain & Smart Contract

Negative

- Need expertise in smart contract and blockchain
- Challenging to reverse the transaction

Positive

- Allow automation and complex business logic to be implemented
- Shared across all pirates
- Allow cooperation and communication
- Transparency and accessible

Conclusion

provide a more secure and transparent automation solution that n is right for you. However, you need expertise in this.

Examples

- IBM Blockchain & AI Solution(<u>link</u>)
- Obortech(<u>link</u>)

Demo