

BLOCKCHAIN – REVOLUTIONIZING SUPPLY CHAIN MANAGEMENT

Salient Features



Digital ledger
recording and storing all transactions on a peer-to-peer network



Information
is encrypted and all incidence is recorded which means it cannot be changed



Information is decentralized – certifying authority not required



Enabled sharing of information across multiple providers



No risk of privacy breach



Applicable for data that is shareable

Why Blockchain?

Resolving Supply Chain Challenges with Blockchain

Late payments

This in turn leads to disruptions in supplier relation and had to pay late fees

Absence of PO invoices

They do not make it to right place and chances of being misplaced are high

Cash flow Prominence

Companies are unable to forecast their cash flow or are only able to provide a rough estimate at any given time

Duplicate/ fraudulent payment

Due to lack of standardized process, organizations receive duplicate or multiple invoices.

Lack of credit

There is a need for additional financing options and credit availability

Invoice overdue

Organizations often adopt extended payment cycle due to multiple hops and delays in sharing of information across stakeholders

Benefits

Avoid cyber attacks

As frauds, or cyber attacks at one participant's system compromises every other participant in the system.

Robust business transactions

As lack of trust between stakeholders lead to costly audit processes, 3rd party validation of transactions and additional expenses of intermediaries to resolve disputed transactions.

Single source of truth

As business transactions are ambiguous, not verifiable and prone to errors and tampering.

Efficient business transactions

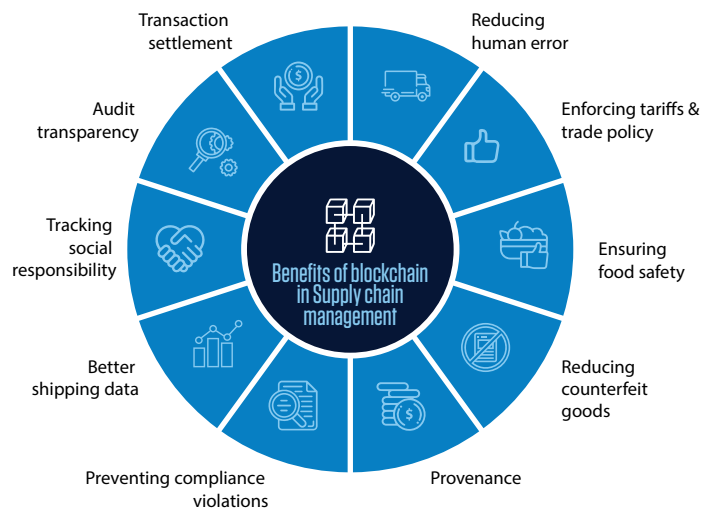
As availability of trusted information and reconciliation process delays (information exchanges with banks) due to the lack of system inter-operability adds to the cost of doing business.

Lesser touch-points

As different stakeholders use different software, and thus too many inter-connections to manage. There is no unified data layer that everybody can trust.



The Use of Blockchain in Supply Chain



Transparency:

- B2B logistics have better visibility,
- improved credibility
- help build trust between businesses.
- lowers disputes related to invoices and reduce auditing costs while preventing exploitation of workers at ground level.

Fair marketplace: freight transportation becomes within the budget of small and large companies alike

Verification authenticity: Discourages counterfeits and can deal with the issues of trafficking for once and all.

Resolve disputes: Eliminates the need for 3rd party for resolution while discouraging fraud.

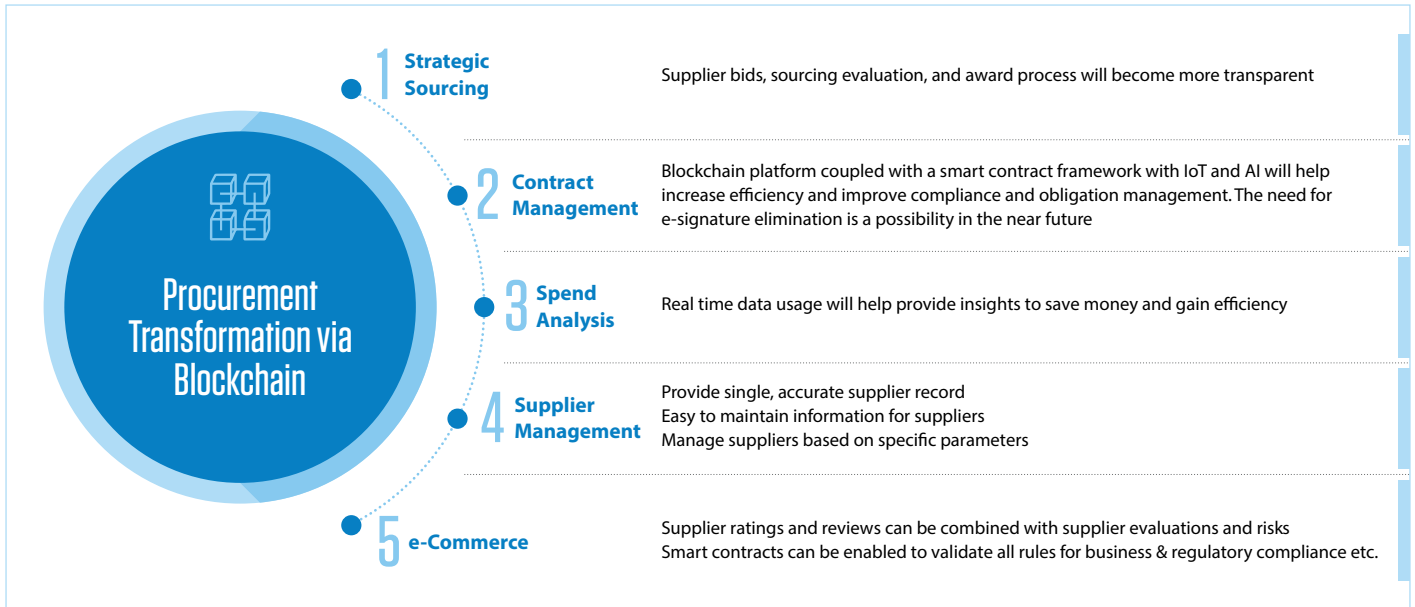
Inventory tracking: Blockchain will allow companies to backtrack individual items back to their origination.

Better shipping data:

- decreased inaccuracies
- enhanced delivery times
- fraud detection

Payments and invoices:

- Simplifies the payments and ensures secured and transparent payments across international borders
- Provides a fraud-free system with minimized errors without the help of a middleman



Applicability across Industries

Manufacturing	Retail	Logistics	Pharmaceuticals
<p>Enables consistent protection of the supply chain data and provides transparency between certification groups and global suppliers of the certification process.</p> <p>Also, safeguards against unwarranted meddling with supply chain data.</p>	<p>The inventory is visible to the retailers at all times, and it allows them to track their shipments and count the total supply.</p> <p>Provides real-time stock levels and shipment status to the stakeholders.</p> <p>Blockchain's immutability provides accurate data per time.</p>	<p>Ensures better management of freight tracking in logistics. It also enables seller, buyers, office personnel to track the shipped good across the globe.</p> <p>Allows reduction in admin and logistics shipment timelines.</p> <p>Approvals from various departments are required before arrival for goods travelling via borders, loads of paperwork which may lead to fraud at various points. Blockchain ensures this process of approval is regularized with a safe transaction record creation and approvals. Also, time required to transfer goods are minimized.</p>	<p>In the pharmaceuticals industry, provenance is of utmost importance.</p> <p>Blockchain's immutability technology is the basis upon which the drugs are tracked from manufacturing till the end customer. This also enables identification of where there is a breakdown in the supply chain.</p> <p>A lot or prospect is there in not only yearly loss reduction but to increase everyone's well being and reduce mortality rates due to counterfeit medicine.</p>

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