Why Learn Blockchain With Us?

- Trusted
- Strategic
- Practical
## What Are the Issues of Supply Chain Industries?

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Globalization

Offshore or outsourced manufacturing efforts complicate the supply chain processes due to the lack of proper visibility, coordination, and maintenance.

Expanding to global marketplaces is often tricky due to the differences in cultural preferences around the world. Companies need to incorporate newer tactics to attract customers in every country, which creates the risk of losing control and visibility.

Enterprise companies need huge manpower to maintain every single outsourced manufacturing, sourcing, and logistics effort.
Consumer behaviors are hard to predict, and it varies based on cultural, personal, social and psychological aspects.

The popularity of social media demands that enterprise companies keep up with the trends and produce new and interesting products constantly, which is increasing a lot of pressure.

Companies have to forecast and develop new products while keeping the manufacturing costs low, which can reduce their revenues if the product does not perform as expected.
Meeting up with consumer expectations is always not feasible as consumers expect higher quality at a lower pricing point.

Quality testing in every stage of the supply chain, such as producing, procurement, transportation, product handling, takes time and resources and becomes difficult to monitor with human resources.

Aside from consumer expectations, local and international regulations demand specific standards for producing the products that can overwhelm the companies.
Consumers now want full transparency surrounding the products they are buying, however, most of the companies are unable to offer that.

Companies offering a vague insight into the production process of a product creates consumer dissatisfaction and creates trust issues.

The legacy systems or models the supply chain uses now aren’t adequate to offer full transparency throughout the different stages.
Trust is a big issue in the supply chain, as most procedures are dependent on human interactions and expect the best behaviors from the employees.

Forged product quality checks to meet up with the standards can harm a company's reputation in the long run.

Bad internal parties can sabotage a company’s reputation by swapping out counterfeit products with original ones.
Constant quality checks and controls increase the need for quality control checkers and experts, which increases costs.

Inventory management requires proper environment, storage space, and security. This increases the overall costing.

Transportation and procurement procedures require more investment as the costing can vary due to various factors.
The current supply chain management system is quite backdated and prone to issues.

Due to the lack of proper management, the supply chain is excessively slow.

Other factors such as inadequate logistics management, heavy authentication processes, and business in different time zones make the supply chain quite regressive.
Lack of proper customer support channels discourages consumers from buying products from specific brands.

Not having a social media channel for support can hurt a brand's reputation in the long run.

Many companies aren't keen on investing their resources in customer supports or consumer benefits, which reduces their consumer reach.
How Is **Blockchain** Used in Supply Chain Management?

- Peer-To-Peer Transaction Settlement
- Tracking Products and Consumer Feedbacks
- Accurate Costing Info
- Better Shipping Data
- Product Provenance
- Audit Transparency
- Avoiding Compliance Violation
- Reducing Counterfeit Products
- Enforcing Trade Policies and Tariffs
- Inventory Management
Peer-To-Peer Transaction Settlement

- Offers a faster transaction process and can settle the payment within minutes.
- Cuts the middleman in cross-border payments, thus reducing costs greatly.
- Automates payments using smart contracts and enforces more security.
Audit Transparency

- Automates the auditing process and gets rid of human-based errors.
- Helps auditors make safer and more strategic choices throughout the whole supply chain.
- Helps to maintain standards and product quality.
Tracks the whole process of the supply chain, starting from sourcing to product delivery.

Can track consumer feedbacks accordingly and forecast probable trend changes.

Makes it easier to work with replacement or returns of products from customer to the factory.
Offers proper data management, which shares a full view of the costing needed in every part of the supply chain.

Reduces the errors in goods receipts, orders, invoices that saves a lot of money.

Offers cost-cutting schemes and better production strategies using automation.
Offers real-time shipping data that helps to forecast delivery schedules.

Tracks the products throughout the whole shipping process to maintain proper product quality.

Offers more shipping route information and strategies to increases efficiency.
Avoiding Compliance Violation

- Helps to reduced high compliance maintenance costs.
- Keeps up with regional compliance changes to avoid any violations.
- Offers proper authorization from the law in order to abide by the rules and preserve brand status.
Product Provenance

- Offers additional information to prove the authenticity of the products.
- With the help of IoT integration, blockchain can track every single material from the source to preserve quality.
- Every single data gets verified before getting added to the ledger, which acts as a product certification.
Reducing **Counterfeit Products**

- Tracks all the products using NFC codes, RFID chips, and QR codes in real-time.
- Provides an end-to-end connection from the manufacturing unit to the buyer in order to get rid of counterfeit products.
- Offers more security regarding the preserving and storing of products.
Enforcing **Trade Policies and Tariffs**

- Helps to maintain all trade policies according to the regional laws.
- Stops third parties to funnel stolen goods and trading them to avoid higher costing.
- Automates the enforcement of tariffs every time a product gets internationally shipped.
Inventory Management

- Offers transparency that helps manufacturers to manage product traceability, origins, perishable state, and recalls.
- Allows seeing customer demands in real-time to forecast them successfully and stock the inventory based on that.
- Introduces identity verification for all employees to track them in order to avoid funneling goods from inventory.
Prominent names in the industry, such as Walmart, Nestle, Unilever, Carrefour, Anheuser-Busch InBev, Ford, etc. are already investing heavily in blockchain-based solutions.

Many governments are enthusiast about deploying blockchain in their countries export and import supply chain processes.

IBM's Food Trust is restablishing the food supply chain with more safety and many enterpise companies are already utilizing it.
Blockchain Courses Suitable for the Supply Chain Industry

Enterprise Blockchains and Supply Chain Management Course
https://academy.101blockchains.com/courses/blockchain-and-scm

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  - Small Business
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  - Europe
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Thank You