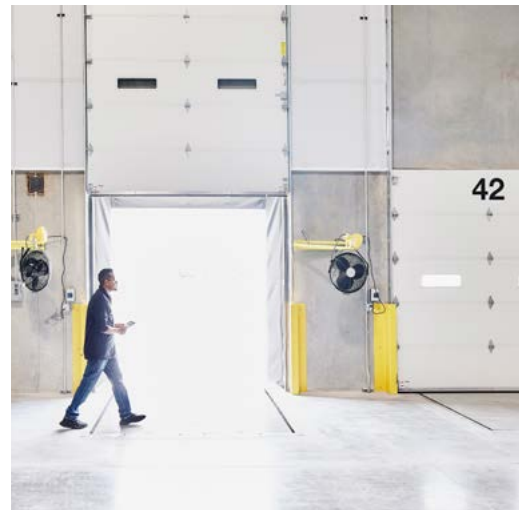


Achieving full supply chain visibility with a blockchain-based, end-to-end network

A hypothetical computer-building company oversees their entire supply chain, from production to product delivery.

InventoryNet: A model for supply chain-wide inventory and order visibility

Our envisioned blockchain-based supply chain network, serving high-tech supply chains, makes resources easy to manage with real-time visibility into inventory levels for every item across extended distribution channels. The network also enables order-to-delivery lifecycle capabilities and service parts inventory management functionality, adding value at every stakeholder point in the value cycle.



Value generated by InventoryNet for HighTech Inc.

The annual value of joining a robust industry ecosystem with broad participation

| Improvement | InventoryNet advantage | Value generated |
|---|---|---|
| Working capital optimization | Lower inventory levels | ↓ 7% decrease in inventory levels |
| | Respond to demand-supply imbalances | |
| New product introductions | Reduce excess inventory | ↓ 10% decrease in obsolete inventory |
| | Get new products to market faster | ↑ \$70M recovered from loss sales |
| Service and repair | Improve service levels | ↓ 17% decrease in SLA non-compliance penalties |
| | Enhance spare parts availability | ↑ 2-point improvement in fill rates |
| Optimized production | Increase effective manufacturing capacity | ↑ 5% increase in effective manufacturing capacity |
| | Improve asset turnover | ↑ +10 basis points improvement in ROA |
| Logistics costs | Reduce the need for expedited freight | ↓ -5% reduction in expedited shipments |
| | Diminish reverse logistics costs | ↑ \$35M saved in reduce freight spend |
| Anticounterfeiting | Track serialized units end-to-end | ↓ 10% reduction in counterfeits |
| | Reduce counterfeiting | ↑ \$150M additional sales |
| Dispute resolution and chargeback reduction | Reduce chargebacks and disputes | ↓ \$17.5M reduction in chargebacks |
| | Lower invoice processing costs | ↑ \$12M saved of A/R and A/P |
| Customer satisfaction | Boost customer satisfaction | ↑ 1.5-point increase in NPS score |
| | Increase consumer trust and engagement | ↑ \$350M additional revenue generated by this increase |

Creating value for other supply chain participants

InventoryNet generates broad value for all the companies that participate in the network

| | Suppliers | EMSs | OEMs | Distribution Channel | Whole Sys. Customers | Embedded Customers |
|---------------------------------|-----------|------|------|----------------------|----------------------|--------------------|
| Working Capital, Carrying Costs | High | Med. | High | Med. | Low | Med. |
| New Product Introductions | Med. | Med. | High | High | Med. | High |
| Service and Repair | Low | Low | High | High | Med. | Med. |
| Optimized Production | High | High | High | Med. | Low | Med. |
| Logistics Costs | High | High | High | Med. | Low | Low |
| Anti-counterfeiting | High | Med. | High | High | Med. | High |
| Dispute/Chargeback Reduction | High | High | High | High | Med. | Med. |
| Customer Satisfaction | High | High | High | High | High | High |

Intrigued by these findings? Get the details behind the value creation story. Download the full report “The power of supply chain-wide inventory and order visibility: Measuring the Value Created by Blockchain-Based Supply Chain Networks” from ChainLink Research.



[Read the full story](#)

