Applications in the Textile and Garment Sector

KEY TECHNOLOGIES

Blockchain

Artificial

Intelligence

CORE TOOLS

TTChain

TTGREEN

TTGreen

SOLUTION PROVIDER



InnoBlock nurtures a vision of applying Blockchain and Artificial Intelligence technology in several industries to increase efficiency and effectiveness in business operation.

https://www.innoblocktech.com/

HOW DO THE KEY TOOLS WORK



InnoBlock uses its flagship tool - TTChain - to trace a product throughout the whole supply chain.



The tool is built based on blockchain technology, and it can monitor the entire process.



All of products information and ESG related data can be accessed through specific QR codes.



InnoBlock published another tool in 2022 – TTGreen – for ESG reporting and performance analysis. It can also support the process of green finance by aggregating ESG results.





CHALLENGES



Pricing negotiation

The cost varies from client to client as InnoBlock offers personalised solutions. Clients often want to haggle over the prices without being fully aware of the solutions.

Training to customers

Users are not adequately or entirely aware of the process of how the technology runs. Innoblock needs to set up training sessions and follow-up sessions when troubleshooting needs take place.

RECOMMENDATIONS

Awareness raising

Traceability and transparency awareness should be built towards the upstream suppliers of clients so that the whole process of applying the digital solutions can be conducted smoothly.



USER **RETAILER**

Smart Chain specialises in the supply chain management in the apparel industry. They can provide more than one-stop solutions.

Smart Chain uses TTChain to guarantee end-to-end secured information. They have several in-house tools such as Comlinkⁱ, Software Suitesⁱⁱ, RFIDⁱⁱⁱ, etc. that are jointly used with TTChain for creating a digital, traceable and transparent supply chain.

MANUFACTURER

Haitan is a manufacturing company that primarily offers ready-made garments to the market. Haitan facilitates transparency by bringing together all key stakeholders on a single platform to better trace and monitor products and service activity along the supply chain.

TTChain helps record product sourcing and transaction information, verify and manage supplier connections and contracts, comply with industry regulations, maintain customer records, and authenticate customers.

BENEFITS

CHALLENGES

- Increasing transparency and traceability in operation.
- Increasing efficiency during data collection process.
- Ensuring data integrity and security.

 Ensuring transparency within the supply chain management system and mitigate potential risks.

- Attaining a **competitive advantage** over other industry players.
- Gaining better confidence and trust of clients.

Cost

Sophisticated technological implementations entail substantial costs. Mapping the process and setting a competitive budget for the services is a constant challenge.

Communication

Communication with the clients regarding the literacy and understanding of using a digital solution.

Complexity and scalability

Although trainings are provided by InnoBlock, it takes time to understand the technology and the tool itself. The complexity hinders the wide usage along the supply chain.



ESG data criteria

More metrics regarding the ESG compliance data collection criteria are expected.

RECOMMENDATIONS

Collaboration in the supply chain

Suppliers need to be more cooperative when it comes to collecting and sharing quality data. Conducting awareness trainings to suppliers to show them the benefits of using digital tools can increase their future engagements.

Government support

Government should look into the textile and garment sector to encourage and incentivise suppliers to provide better data.

¹ComLink is a tool to enhance and extend current Enterprise Resource Planning (ERP) capabilities to upstream and downstream applications through mobile apps, Internet of Things (IoT) and Electronic Data Interchange (EDI). ^{II}Software Suites is a suite of software that contributes to fabric inspection, pre-production management, production planning, Accepted Quality Level (AQL) inspection, quality, quantity and logistic tracking system, measurement, sample audit and compliance. Improvement of the second s