Sample Use Cases

IoT-enabled Predictive Maintenance

Ingestion, storage and integration of (real-time streams of) sensory data and contextual data

Multi-model (relational, key-value, graph, geo-spatial) data representation for in-memory / real-time data analytics as well as interactive data interrogation and visualisation

Machine learning-driven anomaly detection, demand forecasting, failure prediction, frequent pattern mining, segmentation and classification, time series analytics and so on.

Customer Demographics Capture through Intelligent Video Analytics

Real-time pedestrian, face, and object detection and tracking

Real-time device tracking (BLE beacon / WiFi)

Real-time age range, emotion vector, gender and engagement estimation

Emerging Technologies

Internet of Things / Everything

Browser, Device, User Fingerprinting

Intelligent Audio and Video Analytics

Advanced Machine Learning / Deep Learning

Enterprise Blockchain

Homomorphic Encryption / Multi-party Computation

Discovery of Business Rules from Inconsistent and Incomplete Data

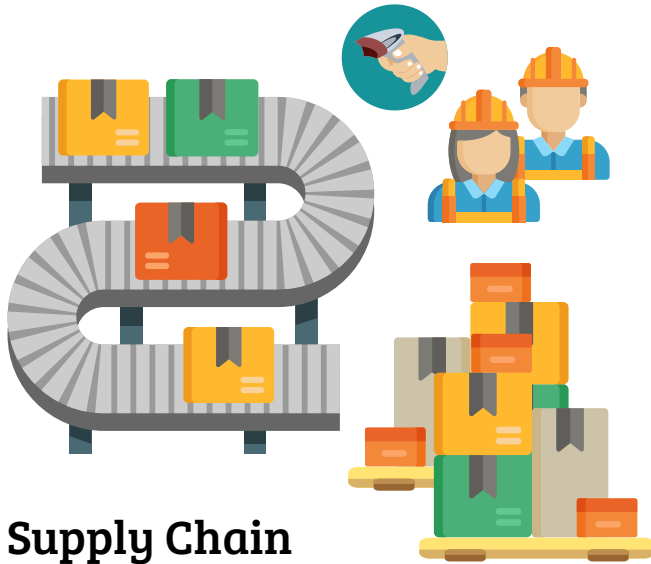# Wismut Labs

https://www.wismutlabs.com

Wismut Labs is a Singapore-based technology innovation company that creates tailored solutions for a client's particular needs. We help our customers stay competitive in their market, primarily through technology innovation (e.g., Machine Learning / AI, Data Science at Scale, Predictive Analytics, Internet of Things, and Enterprise Blockchain) to modernise and transform their products, services and operations. Our team has a proven track record of successful commercialisation of technology innovation & applied research with various Fortune 500 companies.
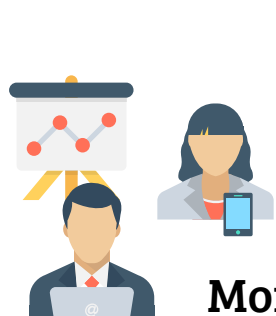
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Blockchain-based Asset Management

Logistics & Storage

Movement and storage of parts and components can be tracked along their journey from source to destination.
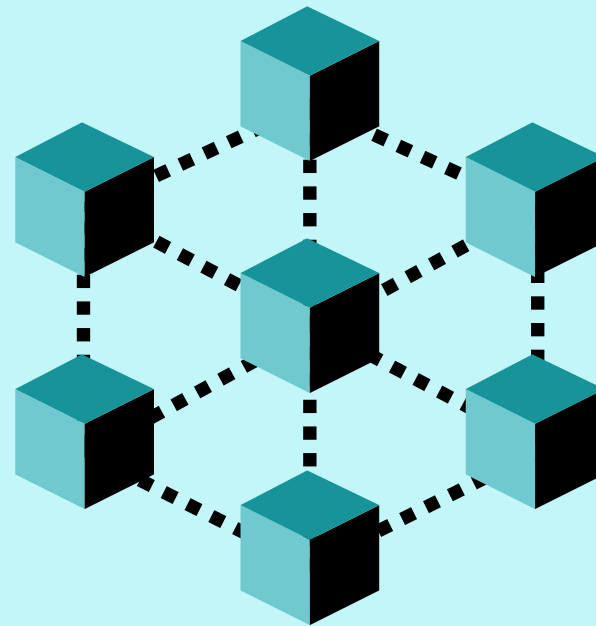
Assembly

With all assets tracked in the blockchain ledger, it would be possible to implement verification checks on specific types of parts used during assembly to minimise manufacturing defects.

Supply Chain

Every component along the manufacturing supply chain will be tracked and stored in the blockchain ledger. Every time a component passes from one person-in-charge to another, this transaction is added to the ledger, which provides a tracking history throughout the life cycle of the product.

With the asset life cycle tracked on the ledger, data can be transformed into actionable insights like supply and demand optimsation.

Monitoring
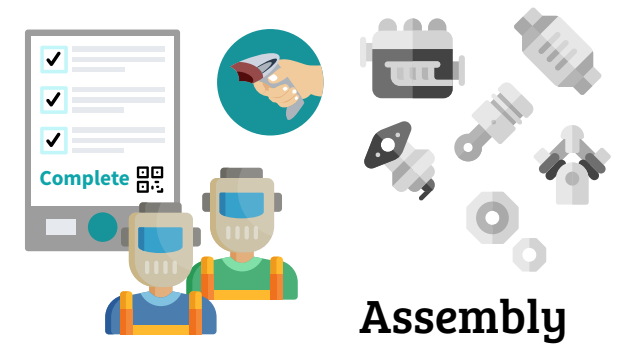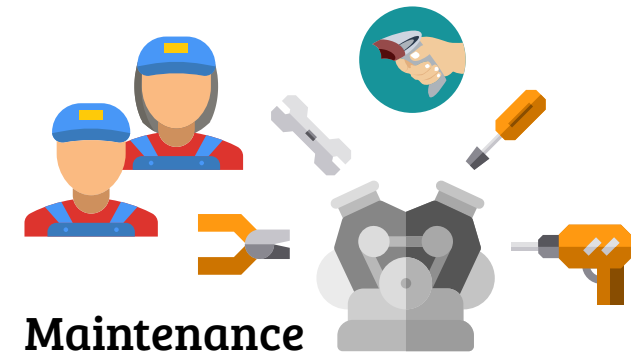
Distributed Ledger

Maintenance

Repairs and replacement of parts and components can also be tracked and recorded in the blockchain ledger to build up a comprehensive history of asset health for in-depth predictive analytics.