

# SUPPLY CHAIN

Blockchain can transform supply chain management by enabling stakeholders to digitally hold and transfer assets – allowing parties to collaborate to build an audit trail of each action and creating an industry-wide ecosystem for asset origin verification, exchange and financing.

Tracking assets on blockchain for end-to-end supply chain management enables transparency, traceability, accountability and efficiency – all in real-time.

## Use Case





### Challenge

KLM Engineering & Maintenance needs to create and maintain entries for each of the component used in the aircraft by collating data from various airlines and manufacturers. This makes having a single view of all component data nearly impossible. However, having all historical component data is extremely important to effectively conduct reliability analysis for safety.

### Solution

A Smart Contract application deployed to the blockchain where all parties are able to register, verify, write and read the data can be used to track aircraft component data. The data stored in the Smart Contract application can be "permissioned" to allow each of the parties to view and modify data that is relevant to them and keep commercially sensitive data from other airlines.

## Blockchain Technology enables

-  A shared register of orders and trades
-  Order history and ownership tracking
-  Digitally signed verifications for each orders and trades
-  A permissioned network

## Outcome

A single industry-wide view of verified aircraft component data from various stakeholders is made simple – empowering predictive maintenance, component financing, negotiation of workshop contracting, and optimised inventory management.



Get in touch about your supply chain project today

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## About Applied Blockchain

### Our Supply Chain Projects Include:



**KLM** Managing aircraft component data



**Shell** Supply chain compliance certificates



**Lloyd's Register** Asset tracking for ships



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