Introduction to Blockchain and Airport Operations in a COVID-19 Environment

Provenance Tracking

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Provenance Tracking

State-change data stored, secured, and tracked on a blockchain throughout the supply chain. Smart contracts notify all parties (e.g., manufacturers, shippers, regulators, and end recipient) of changes and if any issues arise (e.g., violation storage rules, unauthorized access and tampering).

Data Tracked and Recorded

Certificate of origin
Batch numbers
Order number
Bar code
Harmonized System (HS) code

Match supplier, order, invoice, shipment
Quality check against spec
Sensor data (e.g., temperature, weight)
Shipper staff identity
Pay shipper (as needed)