

A satellite with two large solar panel arrays is shown in orbit above the Earth's horizon. The background is a deep space filled with stars. The text 'Blockchain Solutions' is overlaid on the image, with 'Solutions' in a red box.

Blockchain Solutions

for engineering, manufacturing, ESG
compliance and supply chain
management

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3IPK

What is

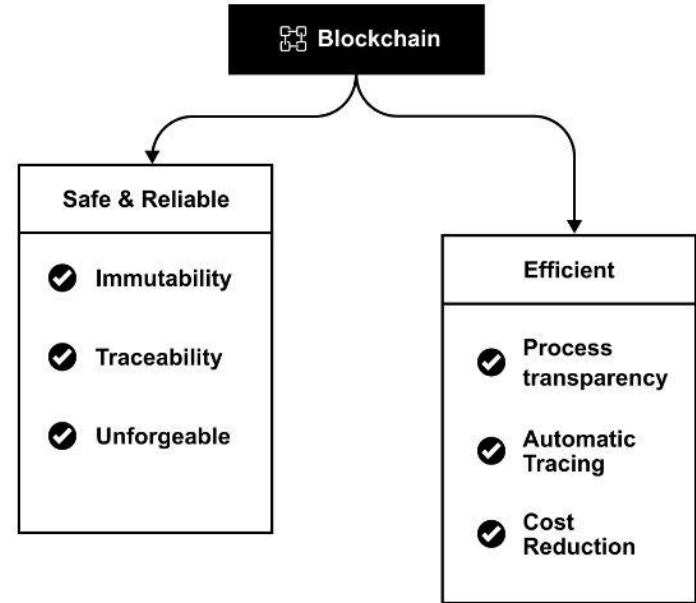
Blockchain?



Distributed network which cross-validates data to ensure authenticity and reliability of information.



Immutable as data does not get overwritten, but expanded block by block.



1 Blockchain-based Supply Chain Management and ESG traceability

Objective

Reducing costs of supply chain and ESG compliance management by increasing trust and transparency through blockchain technology.

Providing independent **data verification** and **automatic traceability**

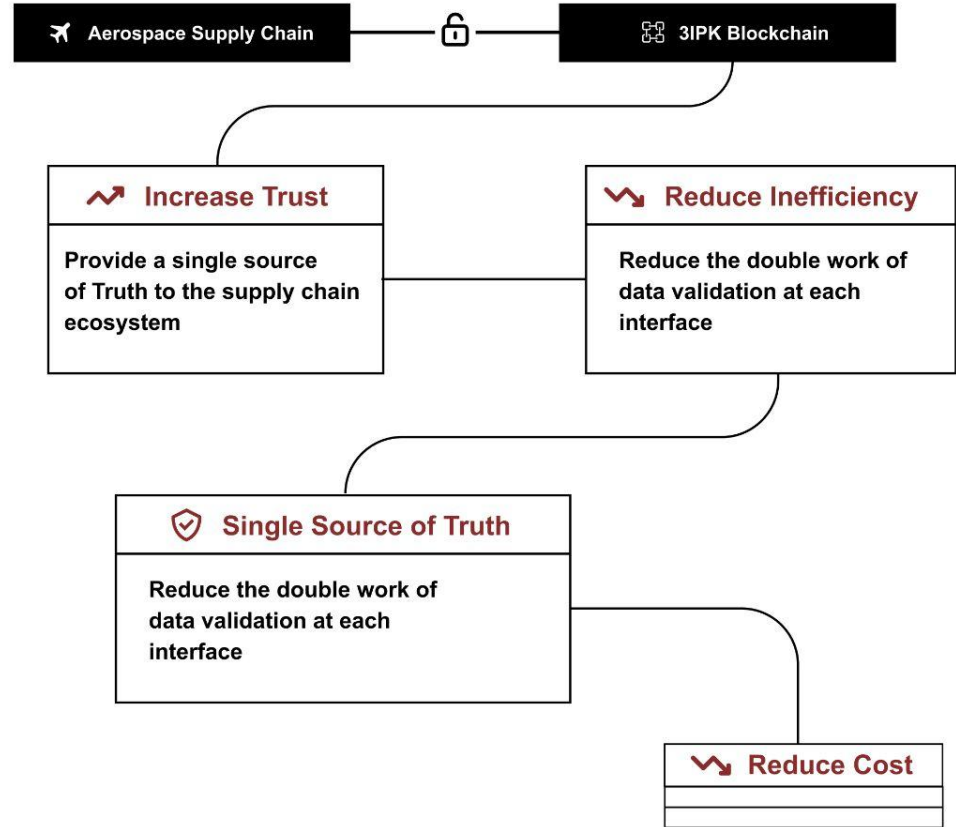
Use Case

Transparent supply chain management by allowing for blockchain-verified documentation and data traceability including ESG compliance across global supply chains.



Unlock the Opportunities with Product-Centric Blockchain

3IPK's Product-Centric Blockchain solutions **reduce supply chain inefficiencies** by removing manual data validation across the supply chain ecosystem



2 Blockchain-Augmented Configuration Management

Objective

Configuration Management

software to be offered with each vehicle as a digital service for the operator to allow for **digital maintenance management** and **configuration control** of each product.

Use Case

Digital configuration management system for spacecraft covering traceability of all data related to individual components and integrated systems and related change management.

Blockchain-Augmented Configuration Management



Secured Configuration Management (CM) based on blockchain-verified configuration data at vehicle, systems, sub-system, components and equipment level



Efficiency increase reducing configuration management costs and cost of non-quality



Improved exchange of CM data & change management

between the vehicle OEM, the suppliers and the top-level customer.

3 Blockchain Quality Inspection Tool

Objective

3IPK's blockchain Quality Inspection Tool is a readily available tool allowing to perform **quality inspection checks** including photographic and other evidence in fully digital manner generating undeniable quality records related to parts and equipment.

Use Case

Quality inspection tools customized to fit customer needs for **First Article, Incoming/Outgoing Inspections** and other "chcklist-based" quality processes requiring reliable and undeniable evidence recording.

Blockchain-Augmented Quality Inspection Tool

Immutable, traceable and secured
digital quality inspection records with
blockchain-fingerprinting to ensure
verifiability

References



The screenshot displays a web-based quality inspection tool interface. At the top, a navigation bar includes a search icon, a 'Home' button, and links for 'Items' and 'Inspections'. A user profile for 'Lucy Miller' is shown in the top right corner. The main content area is divided into several sections, each with a header and four buttons: 'OK', 'Not OK', 'Not Applicable', and 'Additional Info'. The sections are: 'Internal Packaging', 'Items Wrapped and Sealed', 'Shock Indicators', and 'Warning indicators'. A purple callout box labeled 'Step 8. Fill the quality inspection form' highlights the 'Shock Indicators' section. In this section, the 'Not OK' button is selected, and the 'Additional Info' button is also highlighted. The 'Additional Info' field is a large text area below the buttons.

4 Blockchain Maintenance Repair & Overhaul (MRO)

Objective

3IPK provides solutions for **immutable, traceable and secured digital records** of Maintenance, Repair and Overhaul processes to enable automation, process cost reductions and thus efficiency increase for MRO operations of aircraft, defense and other products.

Use Case

Digital MRO process management platform service with each vehicle in operation based on **blockchain traceable recording** and **process management system** to allow for efficient maintenance operations by the vehicle operator.

References

They cooperate with **us**



AIRBUS



A satellite with two large solar panel arrays is shown in orbit against a starry space background. The Earth's horizon is visible at the bottom, with city lights glowing. A bright light source, likely the sun, is positioned behind the satellite, creating a lens flare effect.

Thank you!

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