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Blockchain Solutions for Seamless Supply Chain Management

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Educate

Community Building

Research & Development

Blockchain Cryptocurrency Applications in Business and Finance

Speaker: Ambassador Global Blockchain Business Council (GBBC) the leading global industry association for the blockchain technology



The ability to deploy blockchain technologies to create the next generation of digital supply chain networks and platforms will be a key element in business success.



Eric Piscini
Principal and Global Blockchain Leader
Deloitte Consulting LLP in the US

According to Yahoo Finance!:

The *global Blockchain Supply Chain* landscape is projected to undergo an unprecedented compound annual growth rate of **44% from 2022 to 2030.**

Why Blockchain Makes Sense

Visibility

It enables *real-time tracking* of each product's movement, from the factory floor to store shelves.

Delivery

Individuals can monitor *deliveries* at multiple locations and track shipments based on *smart contract fulfillment*.

Insurance

It can *automatically trigger* the execution of an insurance policy if sensors *detect anomalies* in a storage warehouse.

Purchases

Blockchain assists in making *purchase decisions* by utilizing a *defined set of attributes* and streamlining the purchasing process.

Payment

Payment transfers are *automatically initiated* upon the collection of *all required signatures*.

Regulatory Compliance

Tracking and registering purchased or manufactured products allows companies to *generate periodic reports* demonstrating *compliance with business and trade laws* pertaining to the product.

Traceability

Parties can access information such as *price, date, origin, quality, certification, destination*, and other relevant details related to the product.

Other Technologies



Artificial Intelligence

- Efficiently manages inventory to minimize stockouts and overstocking
- Automates warehouse processes for increased productivity and accuracy
- Creates innovative customer experiences to foster loyalty and drive sales growth.



Bots

- Facilitate seamless delivery of raw materials and manufactured goods for uninterrupted production
- Enhance storage and distribution efficiency by automating item movement
- Ensure accuracy and efficiency in scanning and boxing items for shipment

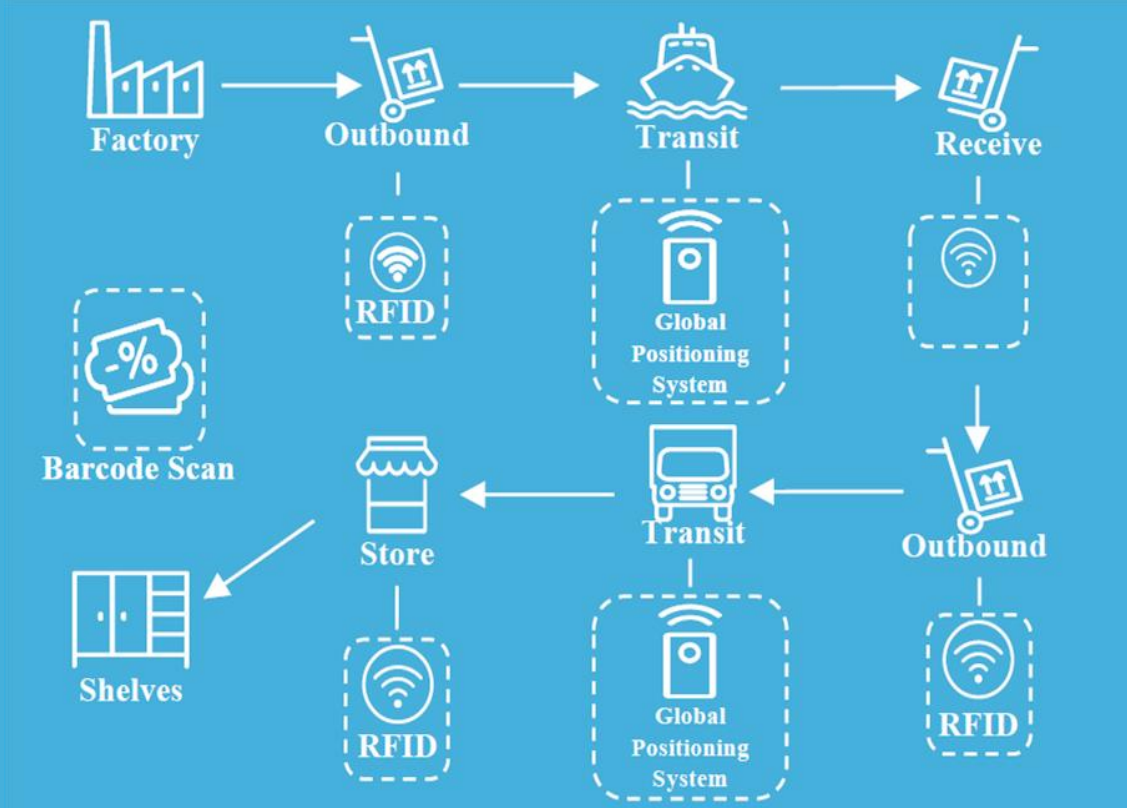


Internet of Things

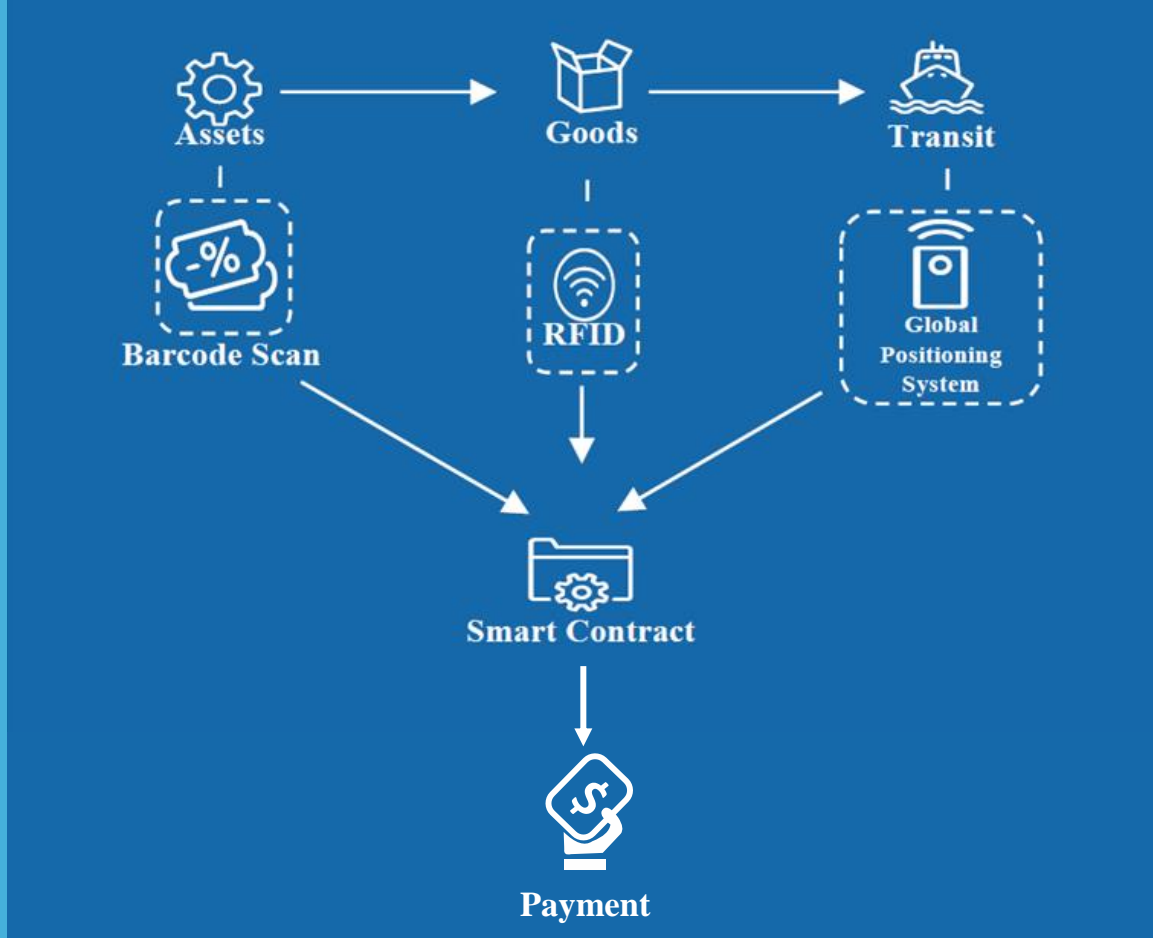
- Monitors and adjusts environmental conditions in real-time for optimal warehouse or truck conditions, such as temperature, humidity, and pressure, to preserve product quality.
- Utilizes predictive analytics to anticipate and mitigate potential disruptions, including traffic, weather, accidents, or delays

Before and After Blockchain Technology

Current State



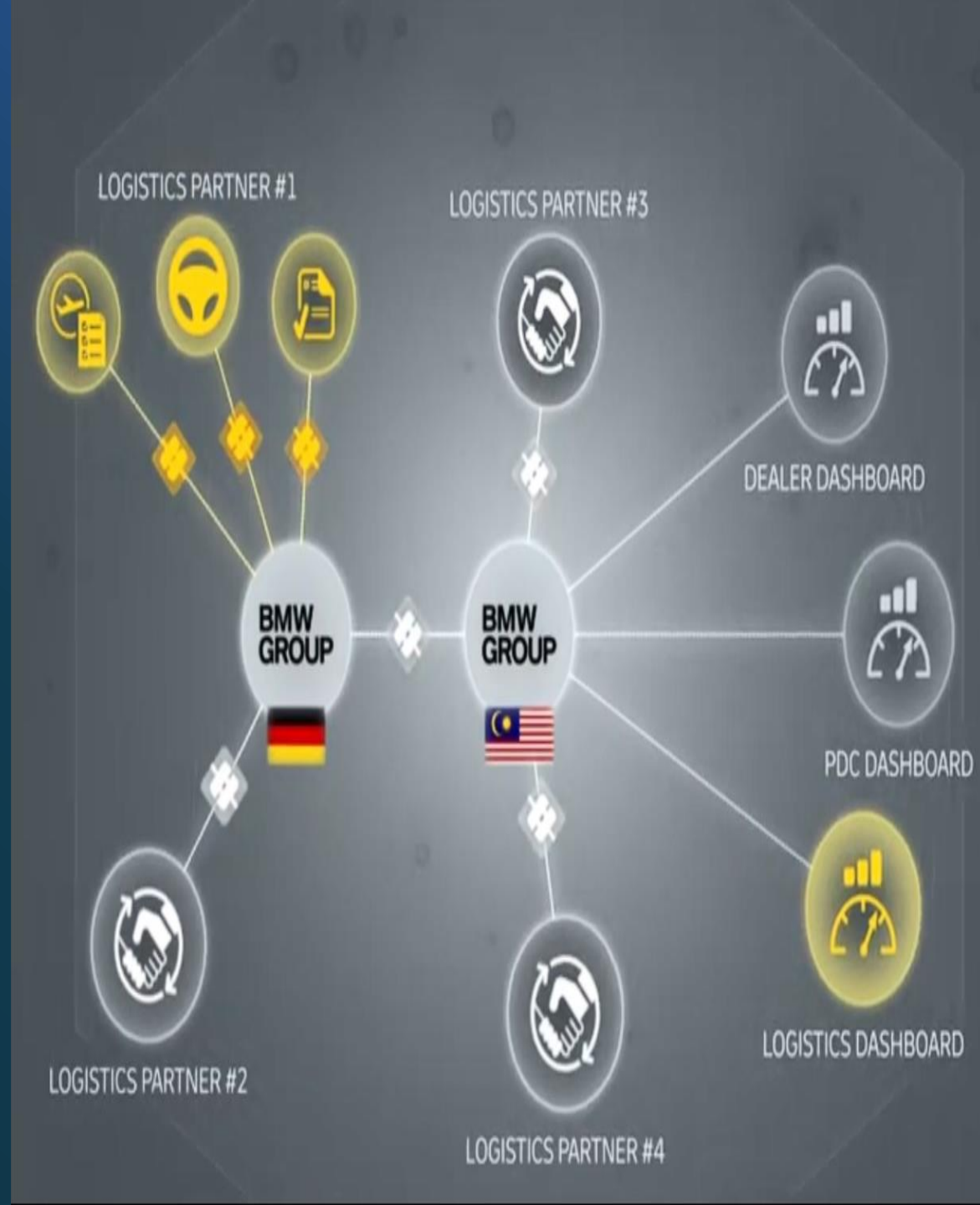
Future State



Case Study: BMW Group and DHL

BMW, the renowned automaker, collaborated with logistics expert DHL to develop a **blockchain proof of concept (PoC)** aimed at optimizing their **Asia Pacific supply chain operations**. The focus was specifically on **improving the transparency and visibility of parts shipments originating from Malaysia**.

Together, DHL and BMW established a **private blockchain** platform to facilitate seamless sharing of supply chain data among participants. This platform ensures that **stakeholders have access only to the data relevant to their needs**, thereby enhancing efficiency and security in supply chain operations.



Walmart has partnered with IBM to implement blockchain technology in its food supply chains. Initially, Walmart began tracking Chinese pork and Mexican mangoes. Now, Walmart has employed blockchain to create an automated system for managing invoices and payments with its 70 third-party freight carriers.





Interorganizational
collaborations

Vendor assessment
and due diligence.

Regulation

(property records, legal
contracts, and
disintermediation of
financial institutions).

ESG

Monitoring relationship
credentials and making
sustainable
commitments.

The STO Financial Revolution

How Security Tokens Change Businesses Forever

by Alex Nascimento



THE STO

FINANCIAL REVOLUTION

HOW SECURITY TOKENS CHANGE BUSINESSES FOREVER



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Thank you!

