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Solution Overview

Key business objectives:

- ▶ Enhanced visibility and tracking for the end to end purchase order to material receipt
- ▶ An integrated platform that provides a single source of truth to all the supply chain participants
- ► Breaking organisational data silos to provide near real-time access to the status and stages of goods manufacturing
- ▶ Prevention of material delay, resulting in cost and schedule overruns using visibility and tracking at material code & vendor

Solution: An integrated blockchain-based tracking platform

Better connected & improved SCM through collaborative manufacturing thus providing enhanced visibility. With MIS & Dashboarding capability on the SCM Analytics module

Leveraging near real-time data & goods status for proactive, corrective actions required across the supply chain

A secure digital ledger serving as the single, consolidated source truth for all supply chain participants, with auto-reconciliation





As Supply Chains become more complex, Visibility & Data Silos become a growing concern

Irrespective of your organisation's role in the supply chain, real-time visibility into the extended supply chain, frictionless inter-company collaboration & secure data sharing are universal needs for effective SCM

Current State of Disconnected Supply Chains Raw Material Supplier Factory Distributor Retailer ERP 1 ERP 2 ERP 3 ERP 5 ERP 4 Own Record Own Record Own Record Own Record i Own Record I

Associated Challenges

Inadequate visibility & tracking of goods in real-time

Organisation systems that do not speak to each other

Data sharing is delayed, manual, redundant & unsecure

Bottlenecks not detected in real-time & addressed effectively

Inconsistent records of events in supply chain players' books

Manual reconciliation, high risk of errors, frauds & disputes

Inflated costs of SCM for each player in the ecosystem



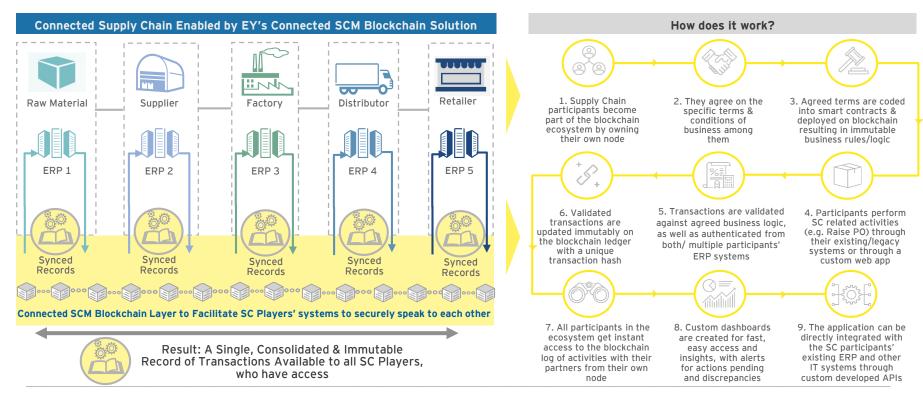
Supply Chain Managers struggle to get the larger picture & plan demand & supply efficiently, as there is no single, consolidated source of truth





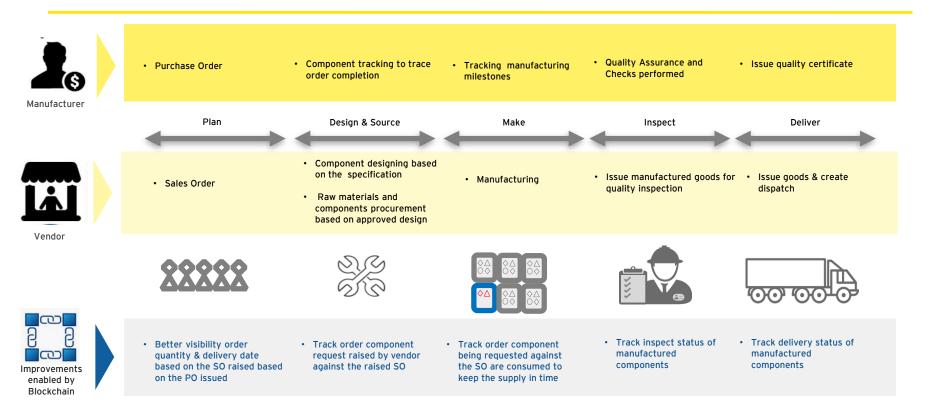
EY Connected SCM- Unlock the Full Potential of an Integrated Supply Chain

EY's Connected SCM solution provides a shared distributed platform where all SC players can securely auto-share data, directly from their source systems





Case Study 1 - Collaborative SCM between Manufacturer & Vendor





Case Study 2- Collaborative SCM in Post Order Management





















PO Release

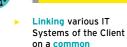


multiple platforms Enhanced Visibility of Spend & Order Status

Pain Relievers



- creating Mutual trust Ability to track goods/services spread across multiple POs
- Enhanced security against theft, tampering, spurious goods



platform

- Easier handling of approval through a digital signature
- Automated notification in case of delay in Approval

Reducing friction between IoT platforms, ERP(financial recordkeeping systems) results in a speedy

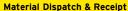
chain

Near Real time

- visibility of Production & Logistics at Vendor hence eliminating manual dependency Comprehensive
- system for Tracking Sub-Supplier delivery at Vendor saving potential delays
- Potential savings on Expediting Costs & Liquidity Damage Cost that are incurred in case of Project Delay
- Ability to Strategize overall logistics due to increased visibility













Quality Check



digitization of supply







Manufacturing



- Reducing the people involved in the process and enhanced security
- Easier handling using a digital signature when goods get delivered
- Accurate visibility, traceability, ownership and status end to end across the ecosystem
- Fraud Prevention as End-to-end traceability makes it hard to insert new product surreptitiously in the supply chain as it has no digital history
- Improving Working Capital through timely **Payments**

- Streamline and standardize intercompany process
- Various approvals signed on behalf of both parties from different levels submitted on the

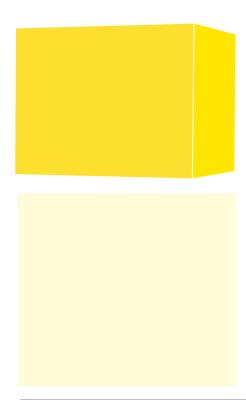
distributed ledger

- Tamper proof and immutable audit log
- Digitization of system leading to improved change management and accurate risk prediction
- Accurate and transparent data sharing among all relevant stakeholders
- Throughout the various manufacturing steps and locations. goods can be traced back and identified, thus establishing transparent supply chains and sustainable manufacturing
- Improve the forecasting capabilities thereby leading to better inventory management
- Using distributed ledger technology, expedite the process of recalls by providing the critical. granular information needed to identify the issue and contain it

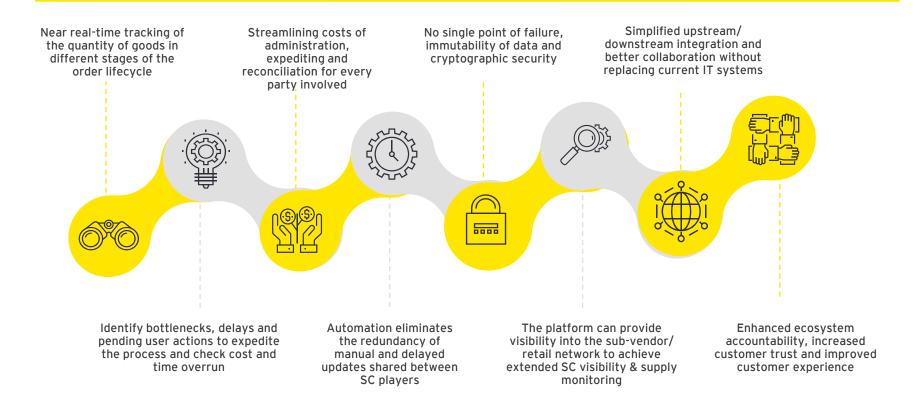




Key Platform Features- Please share content- dashboarding, tokenisation, blockchain, alerts, smart contracts etc.



Benefits to Stakeholders







Why Blockchain? - One Enabler, Many Attributes

Enabled through : Security & Data Fits into Your Current Distributed Immutability IT System Lanscape shared ledgers A distributed and decentralized Blockchain resides at the system ensures no single point edges of existing enterprise Integration of Dichibutor 5.00 5.00 Database + Network of failure and cryptography applications infrastructure. : Real-time Publisher 15.00 15.00 Multiple Disparate ensures tamper-proofing enabling utilization without Blockchain is both a Developer 3.00 3.00 Transactions on a changing existing ERP **Systems** database and a network. infrastructure blockchain are recorded. which means it can store and Blockchain acts as a uniform timestamped, encrypted, transmit data and value Smart connecting platform sitting hashed, broadcasted and contracts on top of different synced across all nodes in participant ERPs, helping real-time and not monththem speak to each other end or post-facto Provable Cryptographic Automatic Transactions & security Synchronisation & **Data Integrity** Reconciliation All data exchanges can be verified to have taken place All activity on the blockchain **Embedded Business** at a point in time and by the is automatically reflected respective parties, any across the network, with Rules & Automated Tokenisation of Digital Identity & auto-reconciliation between changes to data can be Tests Goods & Assets traced back and raise alerts systems Nodes Accountability Business rules agreed upon Each good/ asset can Each participating party can among stakeholders are be uniquely identified be uniquely identified in the codified in smart contracts and tracked with digital realm and their that execute automatically mapping across

stakeholder systems



Business

Outcomes

Increased trust and

transparency

Collaborative

manufacturing &

connected supply chain

Secure processes

minimising disputes,

frauds and errors

Digital audit trail and

reduced operating and

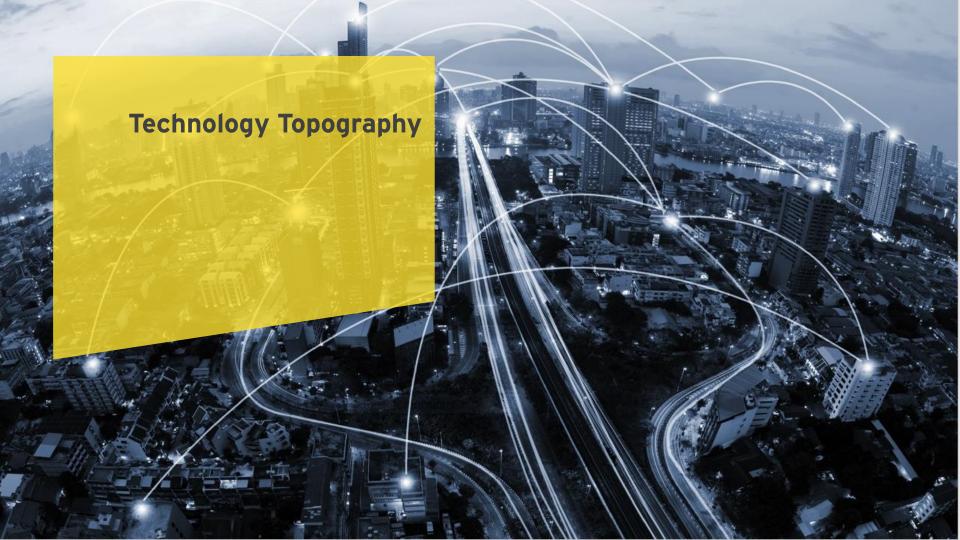
reconciliation costs

once predefined conditions

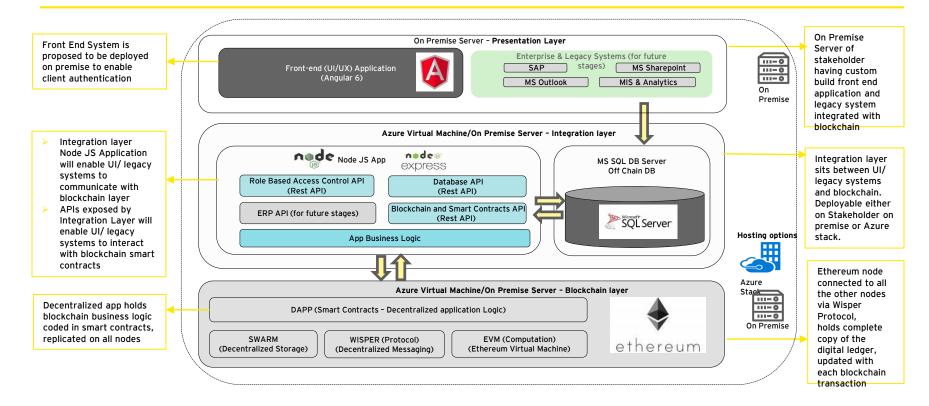
are met

activities recorded, increasing

ecosystem accountability



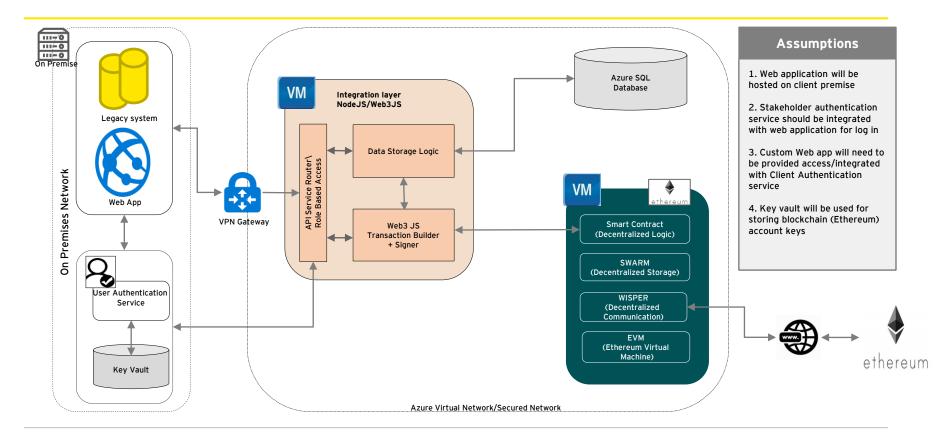
Technology stack - for Blockchain setup- IS IT REQUIRED? Our proposed technology stack for Blockchain solution





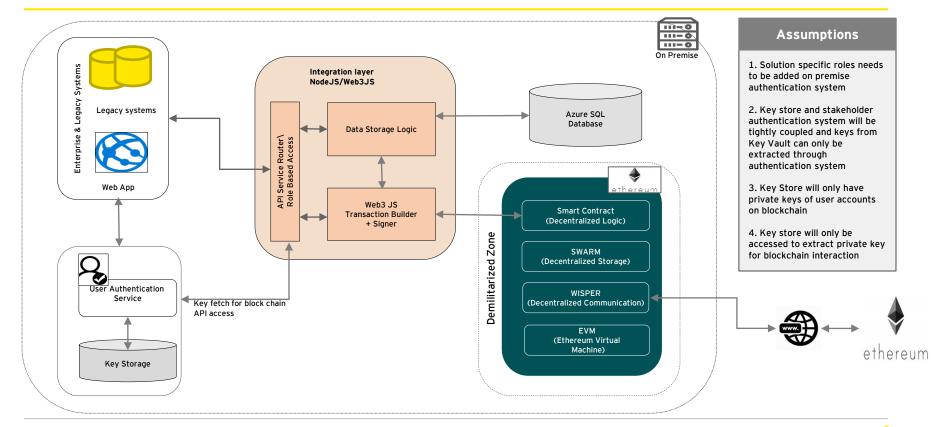


Logical Architecture - Azure Stack





Logical Architecture - On Premise setup





EY Provides End-to-End Blockchain Implementation to Suit Your Requirements

Plan Develop Deploy Maintain [3-4 weeks] [10-12 weeks] [8-10 weeks] [Ongoing]

- Co-develop the implementation strategy/ roadmap - Select key stakeholders and desired outcomes and priorities
- POC/ Pilot scope Chart out POC scope and KRAs
- Systems understanding Business, technology & ecosystem deep-dive
- Use case development Functional and technical design workshops

- Customise Customise the EY
 Connected SCM blockchain platform
 basis use case and client industry &
 business for POC/ Pilot
- User Acceptance Test Build & test features with stakeholders, feedback-based iterations
- Integrate Data exchange with existing systems
- Analytics Design the reporting and insights dashboard

- Set up & Host Infrastructure layer set up for cloud, on-premise or hybrid deployment model
- Integrate Integration with all the internal and external systems and entities
- **Test -** Scalability and performance testing of the platform
- Onboard & Train Supporting users of the solution on getting started with the solution

- Change Management Training workshops for management
- Troubleshooting Post go-live stabilisation support
- Updates Periodic technology upgrades





POC/ Pilot Scope, Project strategy and Implementation plan



A working POC/ Pilot Application that is integrated with current systems, Analytics dashboard



Platform implementation for production,
Stakeholders onboarded



Platform management and maintenance support, Upgrades



Key Milestones in the Implementation Roadmap

