



# EY's Connected SCM Blockchain Solution

July 2019



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An aerial night photograph of a city, likely Tokyo, featuring a prominent multi-lane highway with long-exposure light trails from vehicles. The city skyline is visible in the background with various skyscrapers. Overlaid on the image are several glowing white arcs representing a network or data flow, connecting different points across the city. A large, semi-transparent yellow rectangle is positioned on the left side of the image.

## **Solution Overview**

# Solution Overview

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## **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**



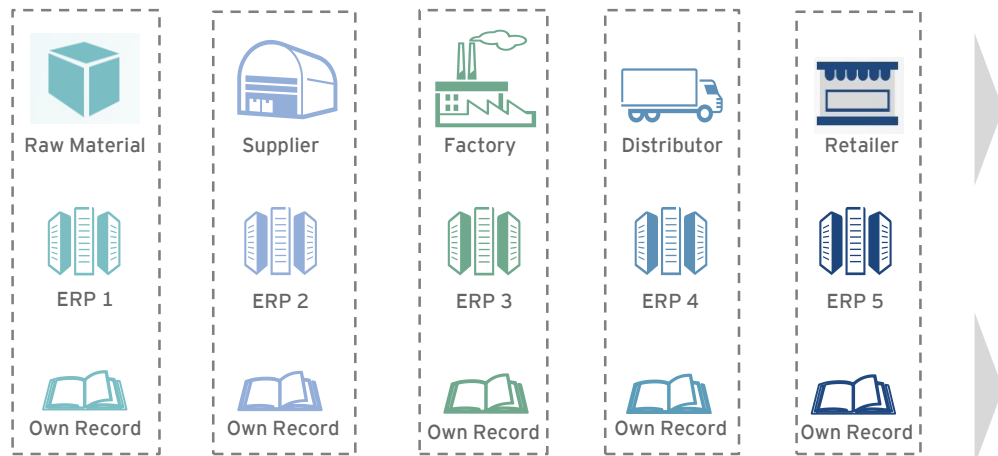
An aerial night photograph of a city, likely Tokyo, showing a dense urban landscape with numerous skyscrapers and residential buildings. A multi-lane highway runs diagonally through the center, with long-exposure light trails from vehicles. Overlaid on the image are several glowing white arcs and dots, suggesting a network or data flow. A large, semi-transparent yellow rectangle is positioned on the left side, containing the text 'Targeted Challenges'.

## Targeted Challenges

# 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



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

## 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

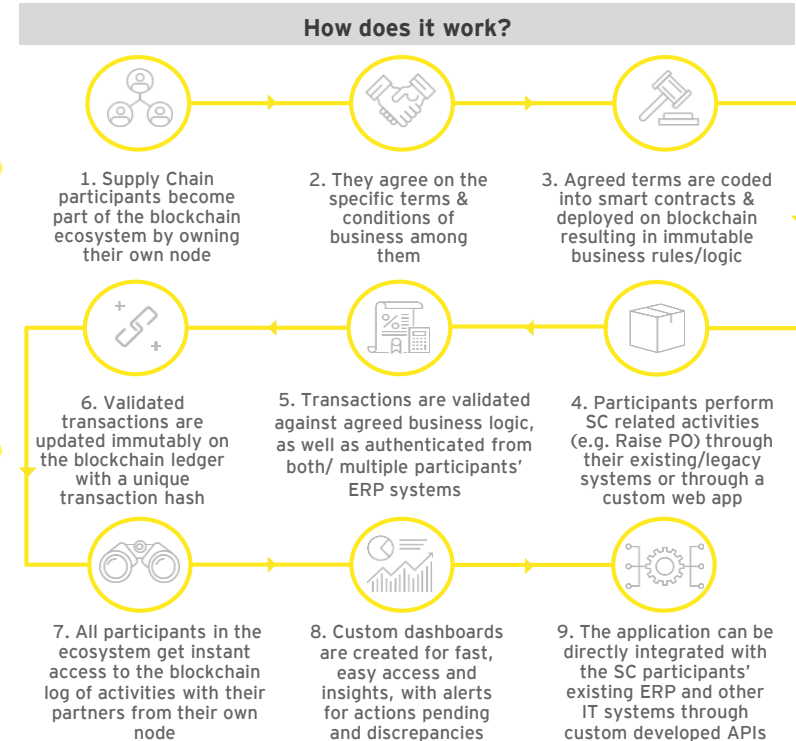
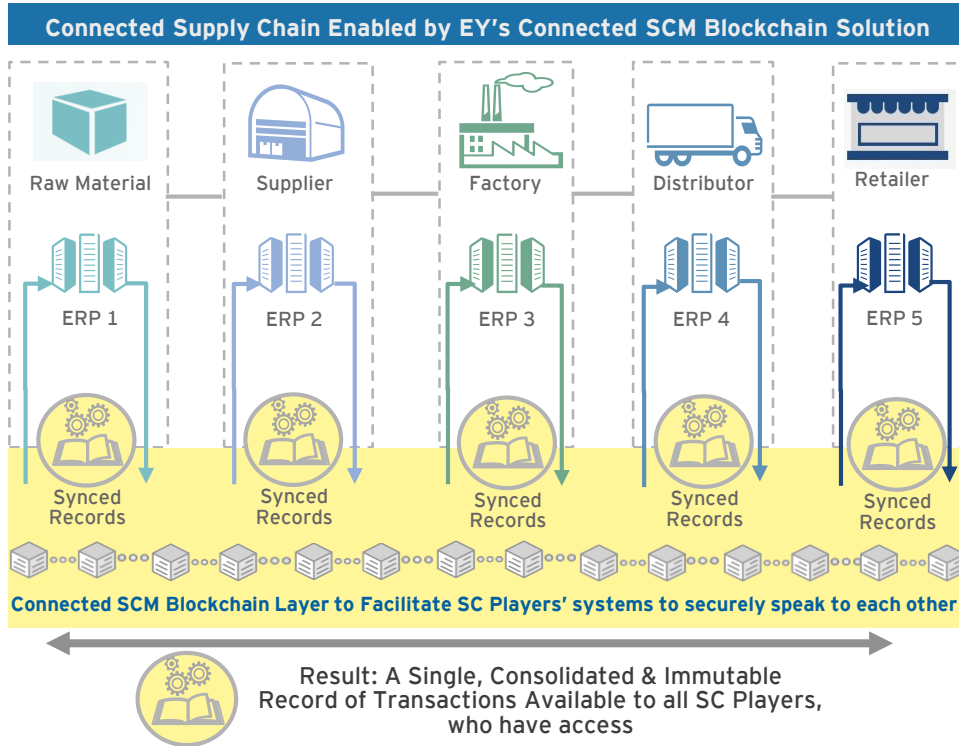


An aerial night photograph of a city, likely Chicago, featuring a prominent highway with light trails from traffic. The city skyline is visible in the background. Overlaid on the image are several white, glowing arcs that connect various points, suggesting a network or data flow. A large, semi-transparent yellow rectangle is positioned on the left side of the image, containing the title text.

# **EY's Connected SCM Blockchain Solution**

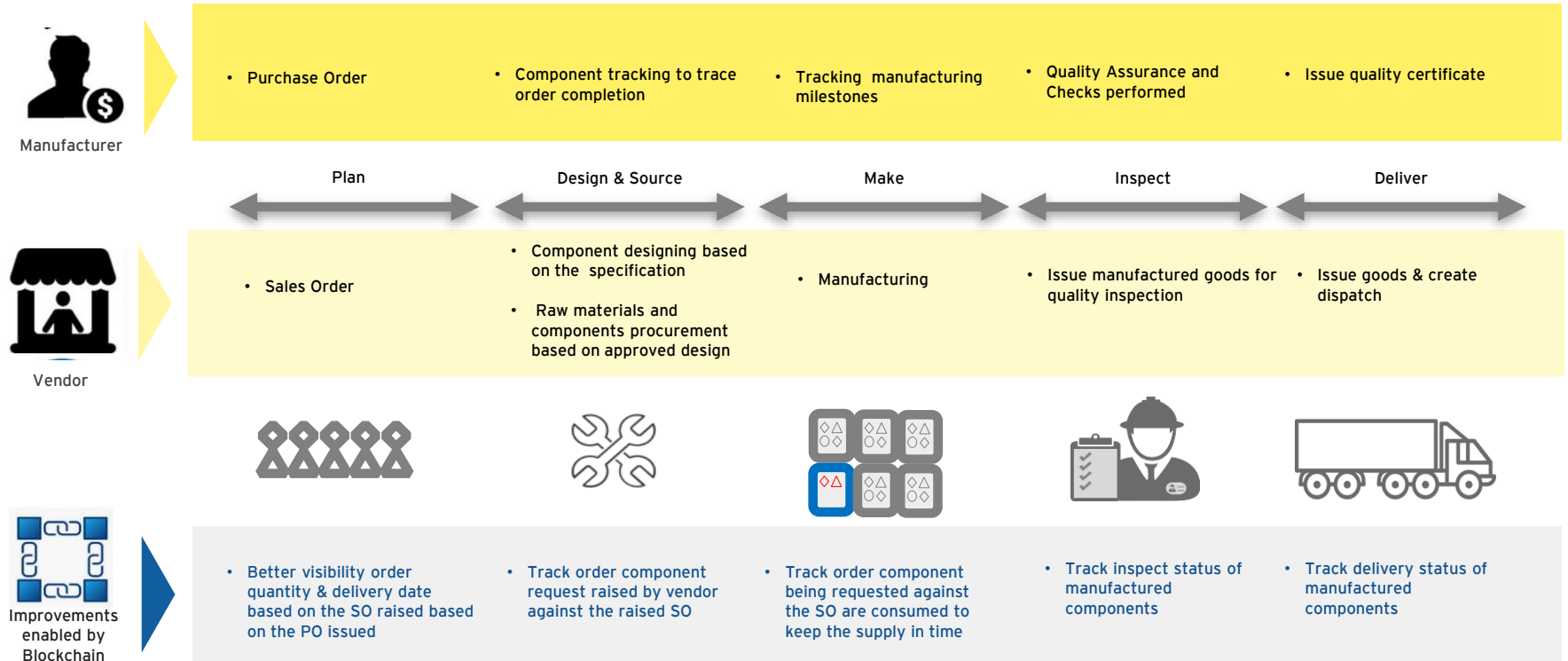
# EY Connected SCM- Unlock the Full Potential of an Integrated Supply Chain

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

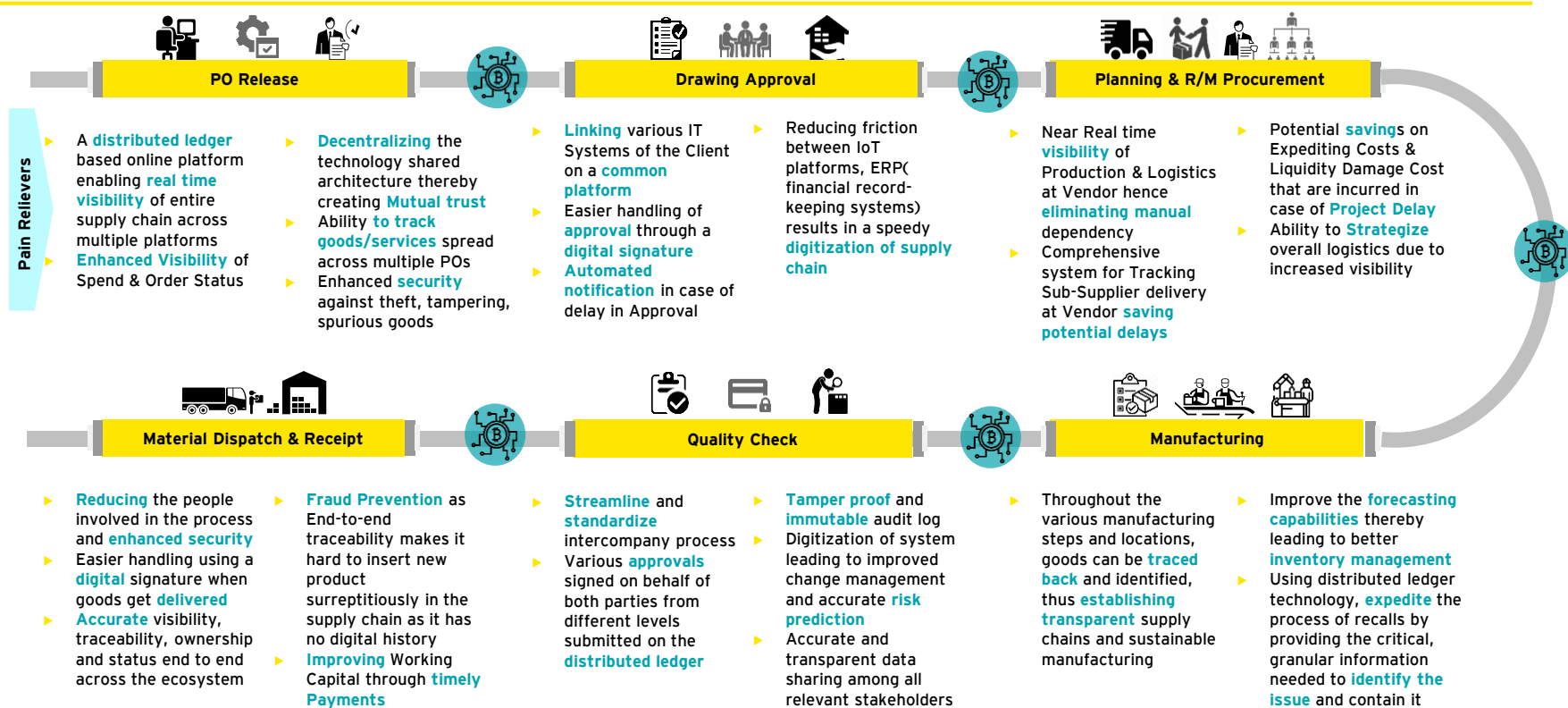




# Case Study 1 - Collaborative SCM between Manufacturer & Vendor



## Case Study 2- Collaborative SCM in Post Order Management



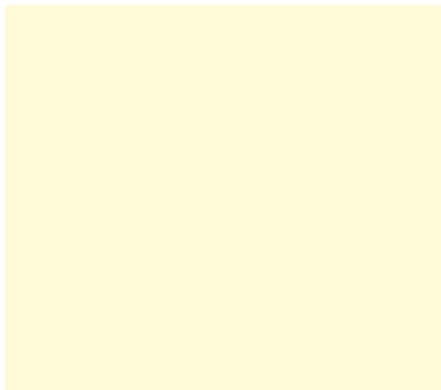


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## Features & Value Proposition

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

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# Benefits to Stakeholders

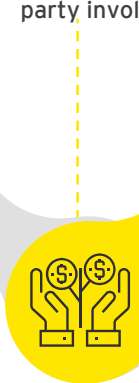
Near real-time tracking of the quantity of goods in different stages of the order lifecycle



Identify bottlenecks, delays and pending user actions to expedite the process and check cost and time overrun



Streamlining costs of administration, expediting and reconciliation for every party involved



Automation eliminates the redundancy of manual and delayed updates shared between SC players



No single point of failure, immutability of data and cryptographic security



The platform can provide visibility into the sub-vendor/retail network to achieve extended SC visibility & supply monitoring



Simplified upstream/downstream integration and better collaboration without replacing current IT systems



Enhanced ecosystem accountability, increased customer trust and improved customer experience

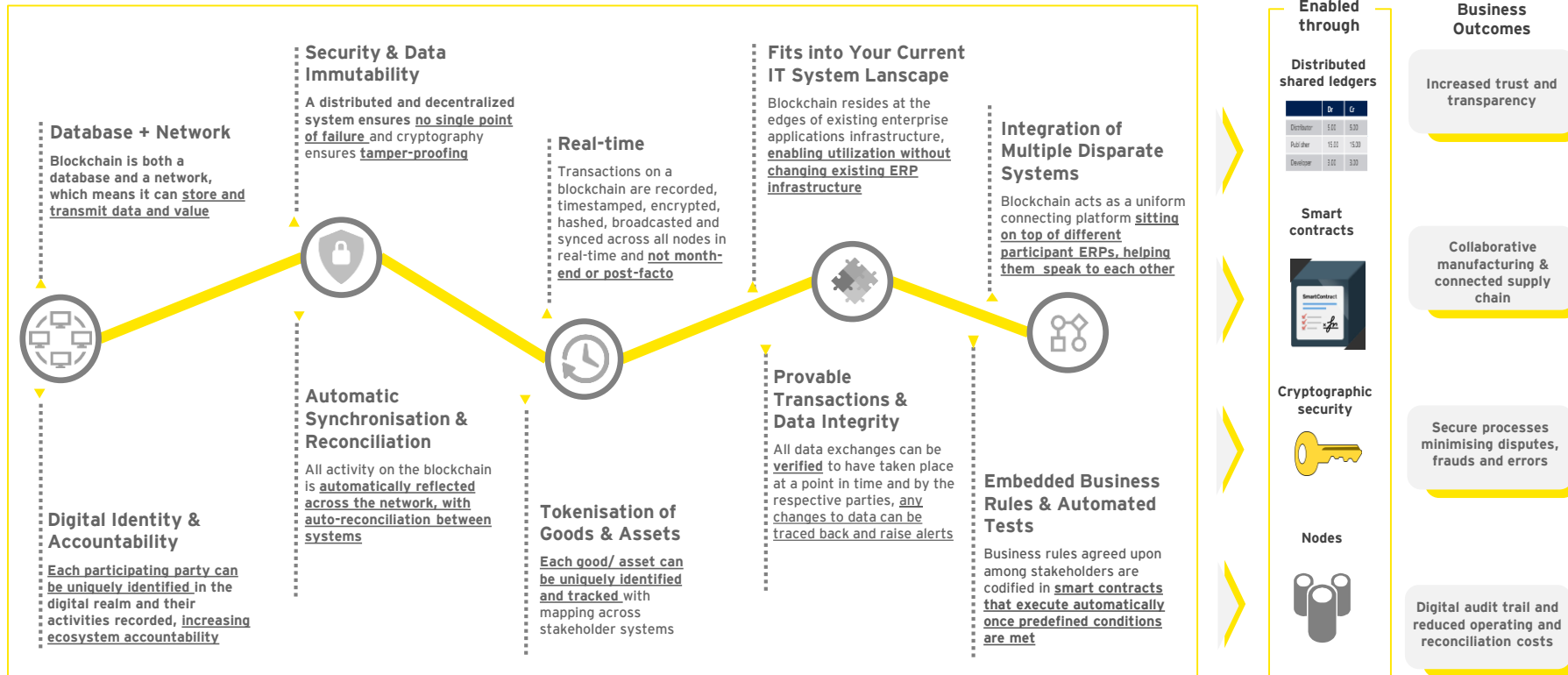


An aerial night photograph of a city, likely Tokyo, featuring a prominent multi-lane highway with long-exposure light trails from vehicles. The city skyline is visible in the background with various skyscrapers. Overlaid on the image are several glowing white arcs and dots, suggesting a global network or data flow. A large, semi-transparent yellow rectangle is positioned on the left side of the image.

# Why Blockchain?



# Why Blockchain? - One Enabler, Many Attributes

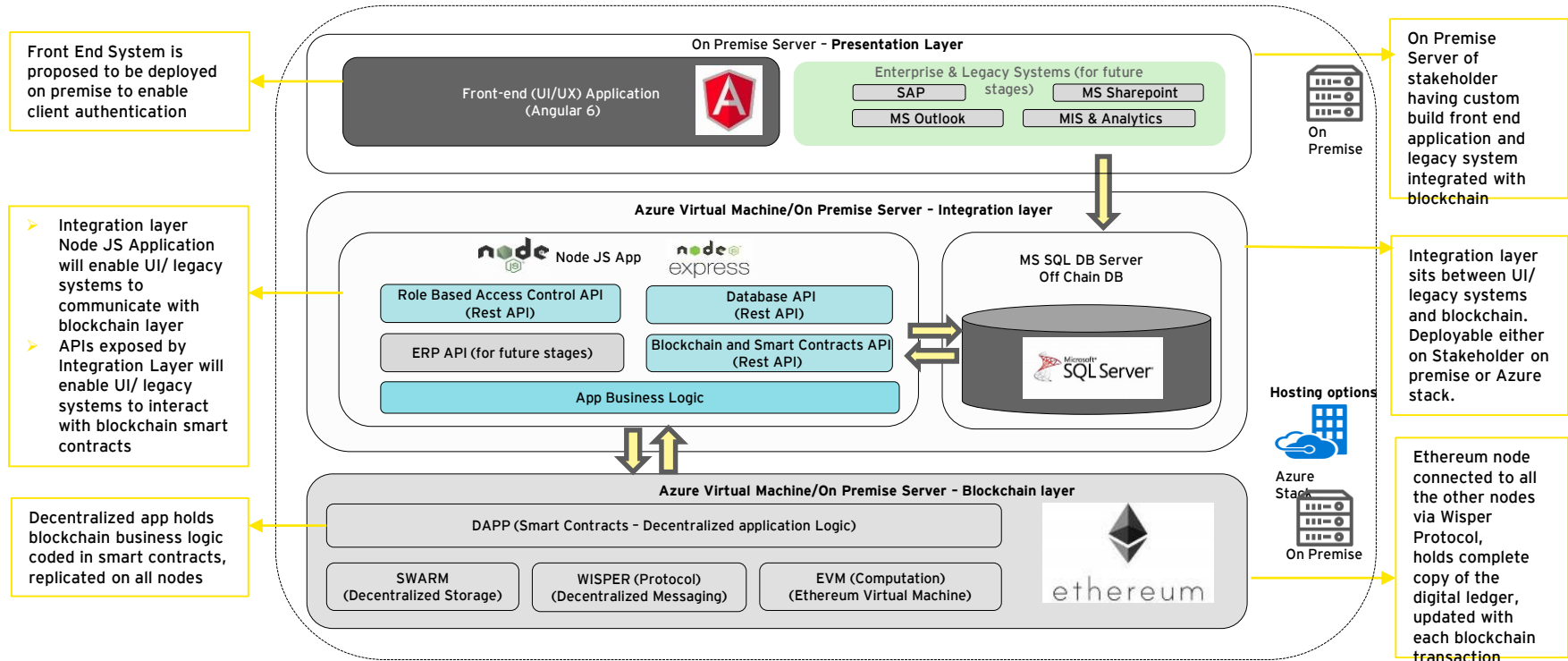


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# Technology Topography

# Technology stack - for Blockchain setup- **IS IT REQUIRED?**

## Our proposed technology stack for Blockchain solution

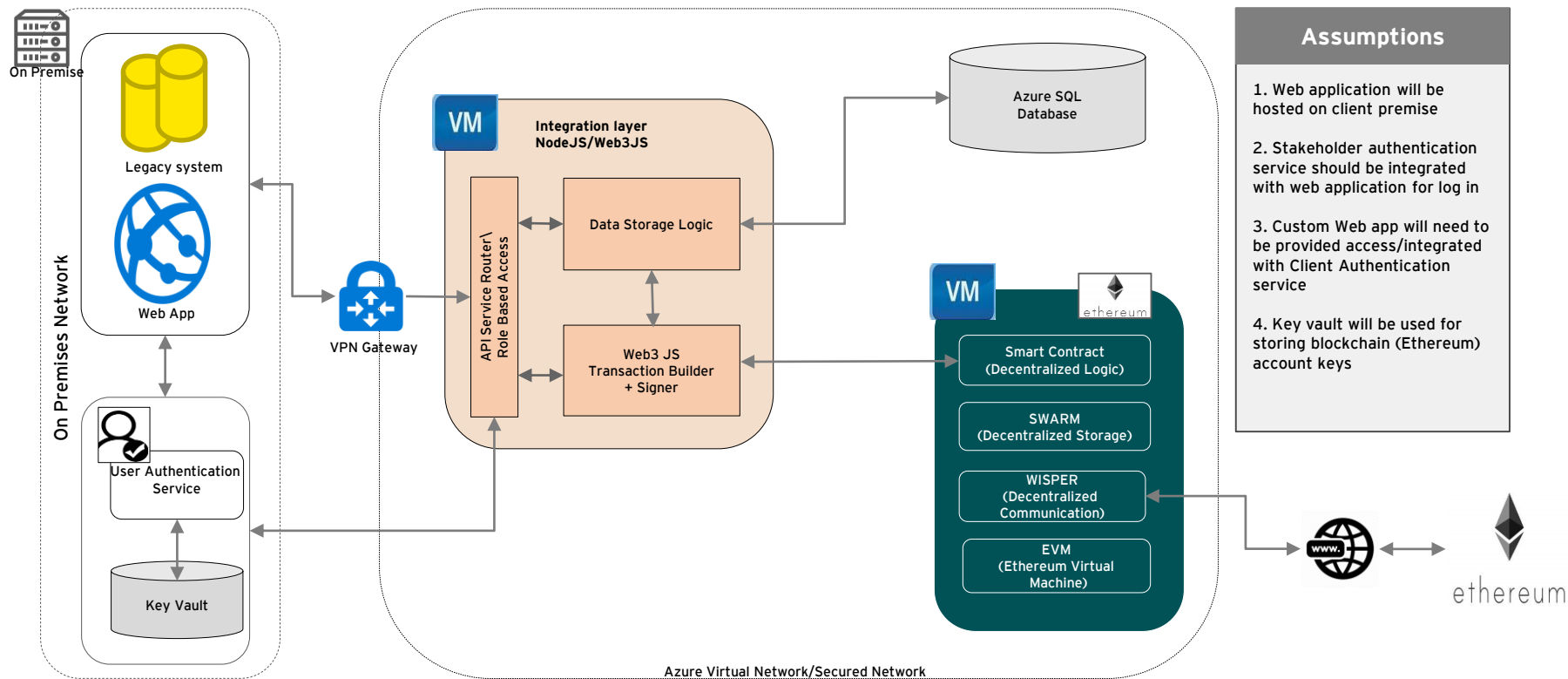




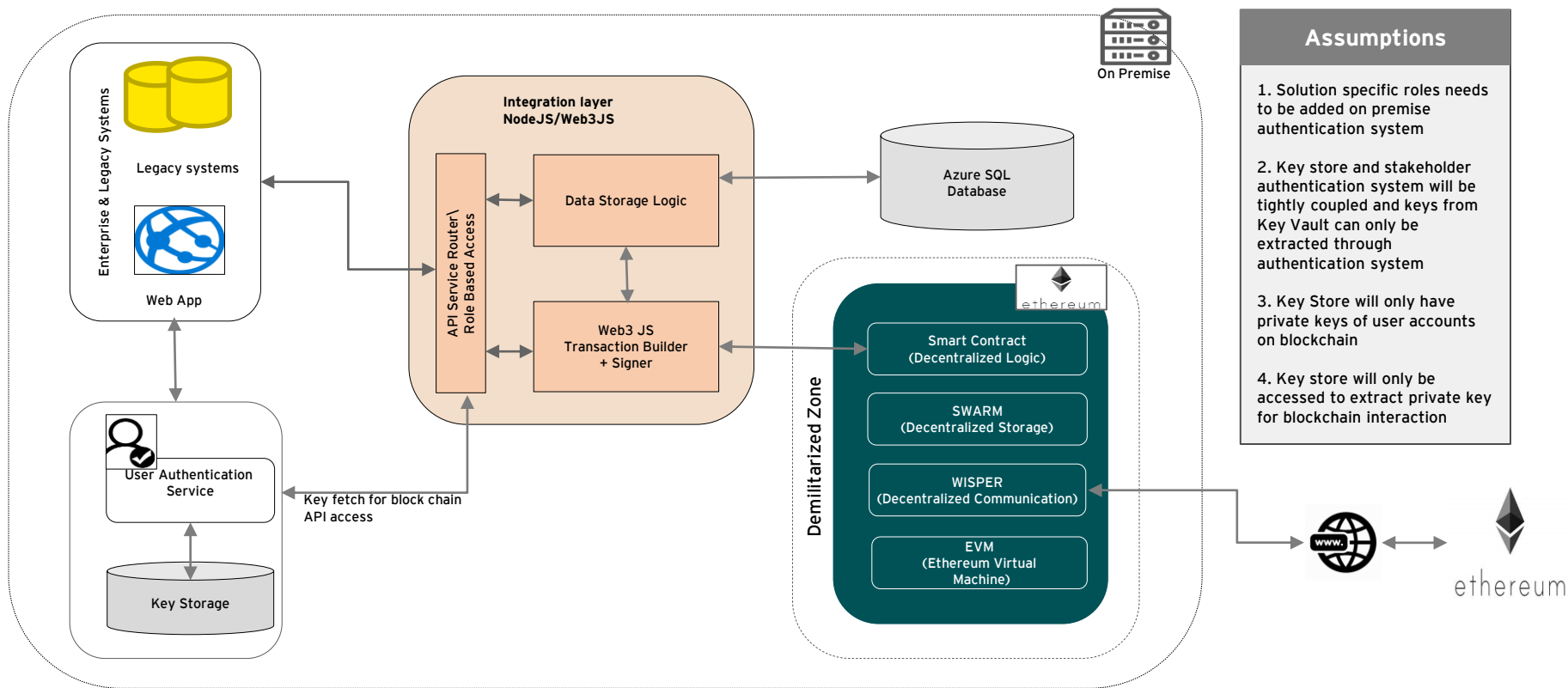
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# Deployment Models

# Logical Architecture - Azure Stack



# Logical Architecture - On Premise setup

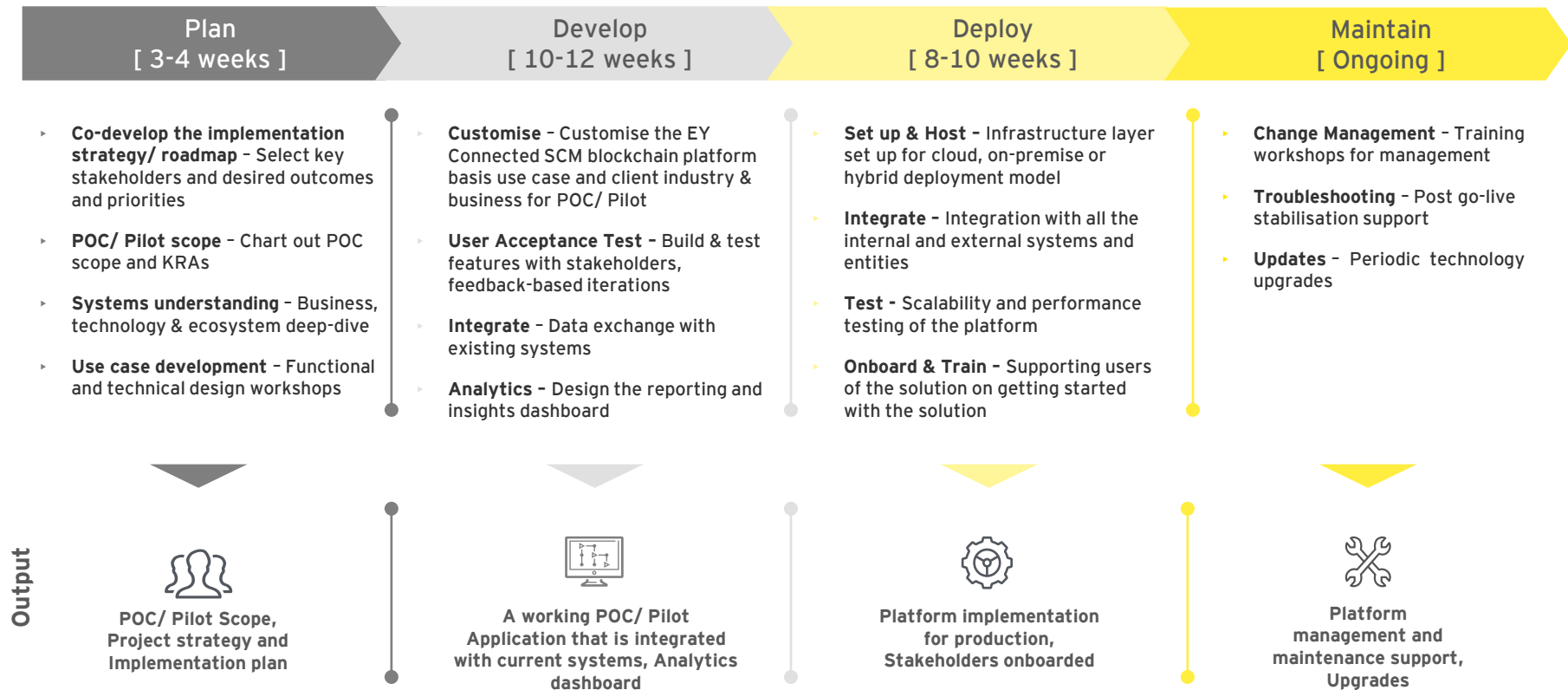




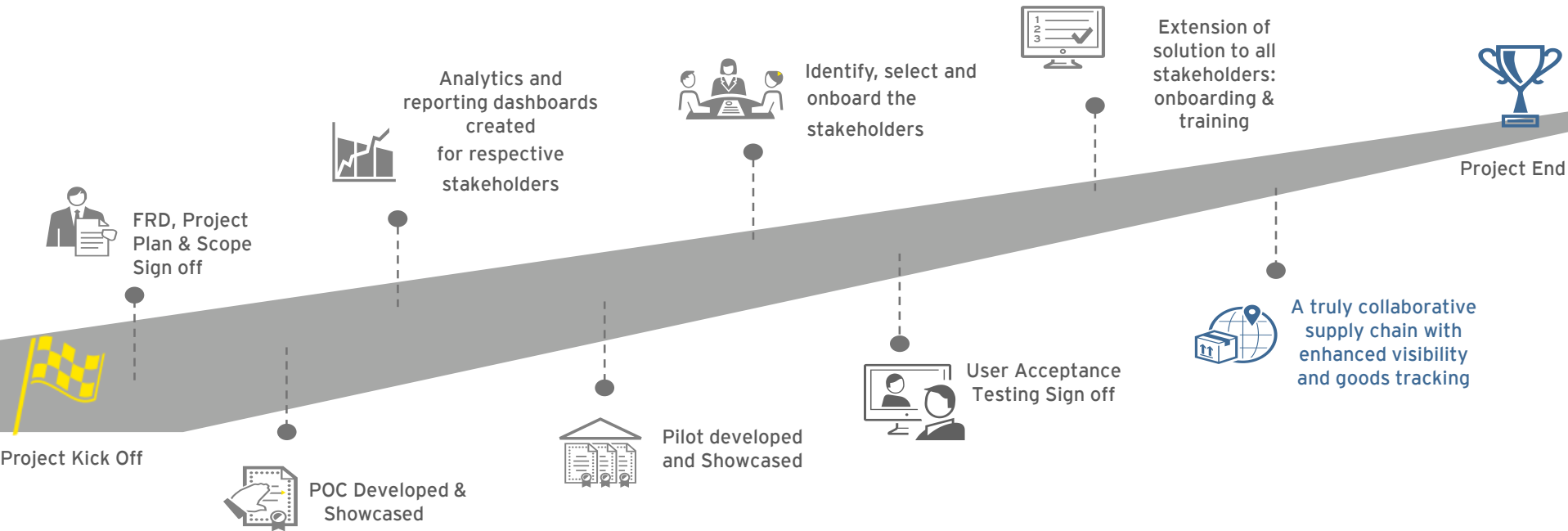
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# Implementation Road Map

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



# Key Milestones in the Implementation Roadmap





An aerial night photograph of a city, likely Tokyo, featuring a prominent multi-lane highway with long-exposure light trails from vehicles. The city is densely packed with buildings, and a body of water is visible in the distance. Overlaid on the image are several glowing white arcs that connect various points across the city, suggesting a network or data flow. A large, semi-transparent yellow rectangle is positioned on the left side of the image.

# EY Credentials



An aerial night view of a city, likely New York City, with a network of glowing white lines connecting various points across the skyline. The lines form a complex web, suggesting a global or digital network. The city lights are visible in the background, and the overall tone is dark and futuristic.

# Thank You