Counterfeit Analytics leveraging Blockchain

Example – Textile Client, Europe

Supply Chain Tags → **Transparency Codes** → **QR Codes**

Vendors are allowed to pick one of these options

Part of the audit compliance by the client to build trust with their online/offline clients
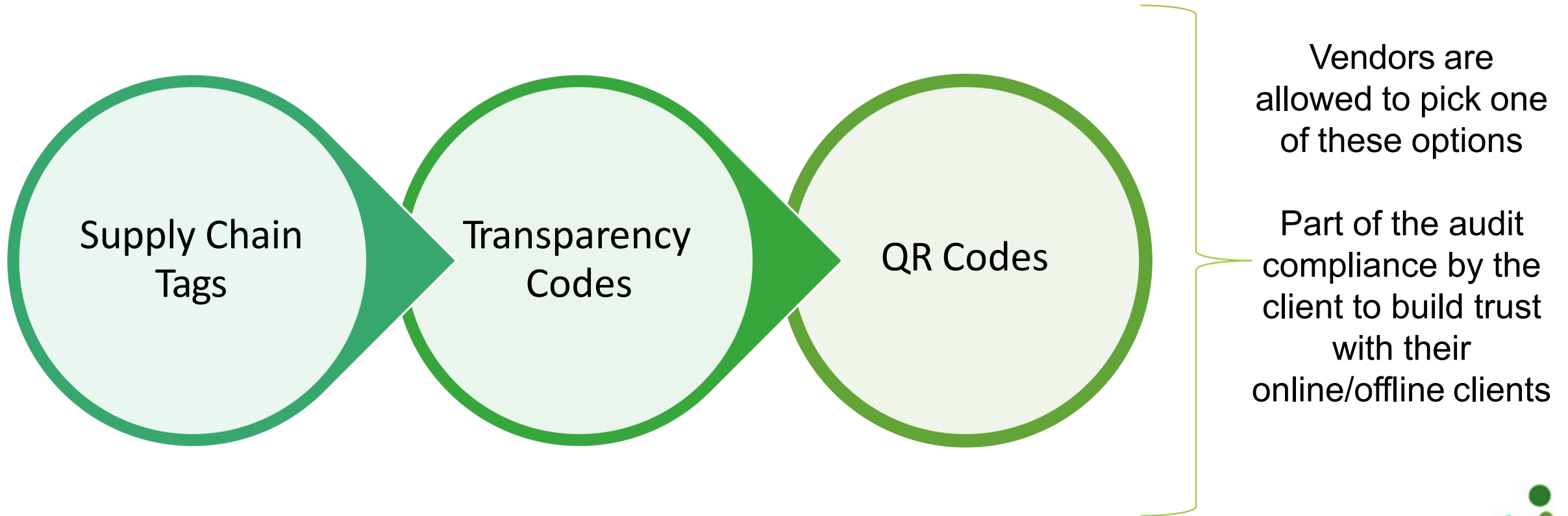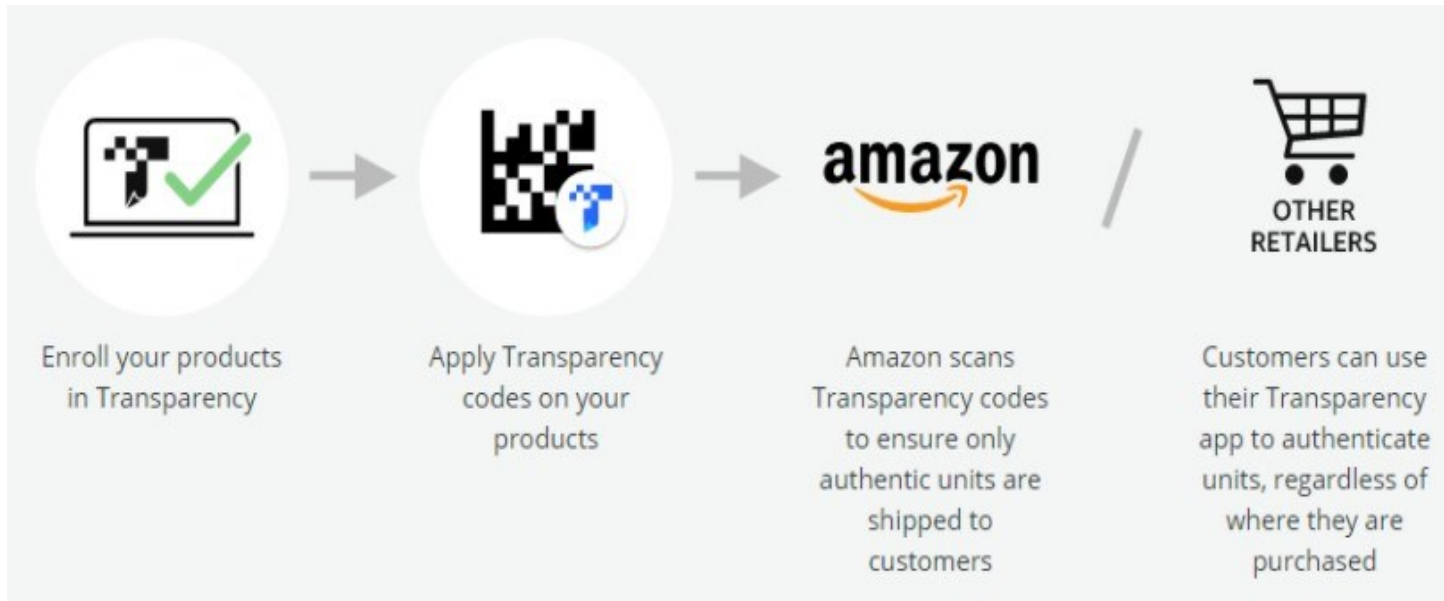
Example – Textile Client
Adopting Supply Chain Strategy to Detect Counterfeits
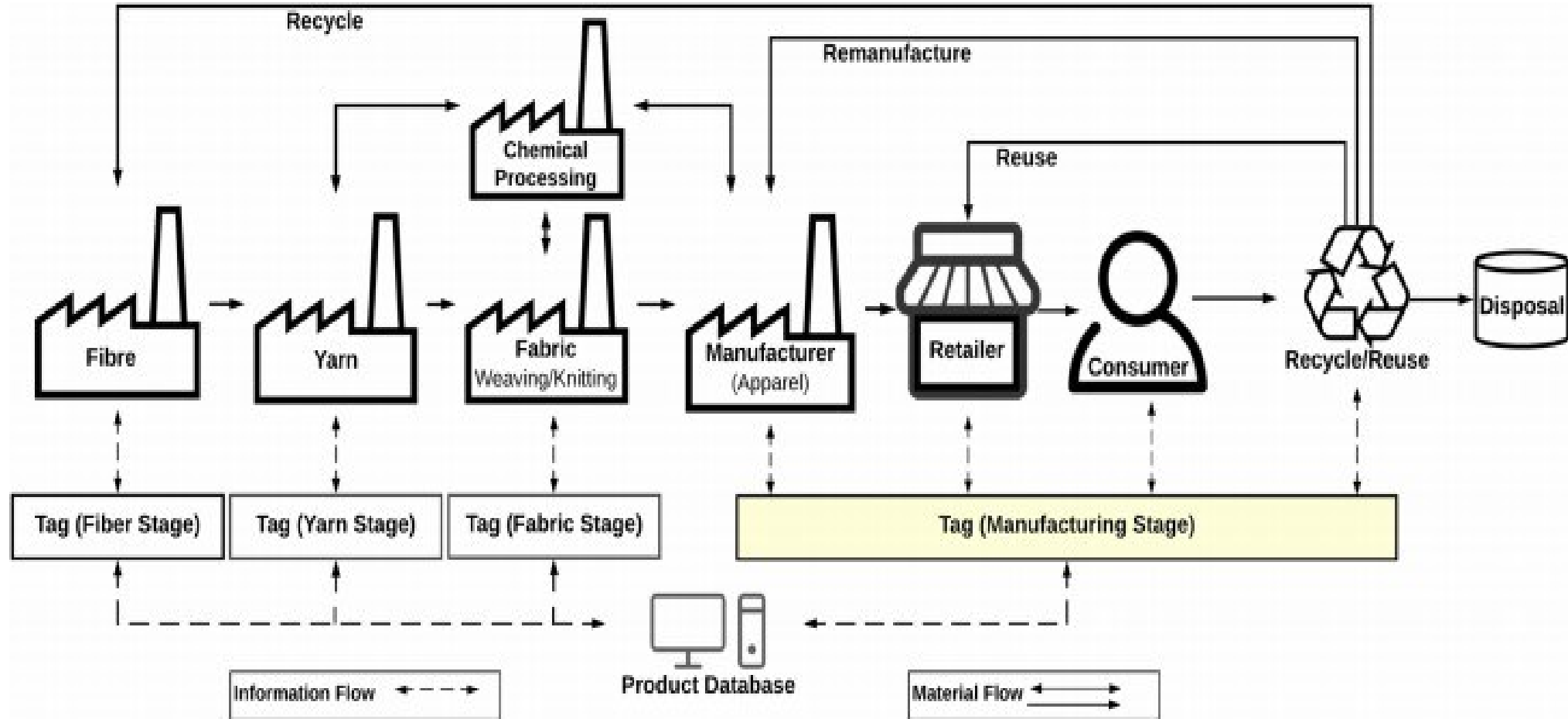
Example – Textile Client
Adopting Transparency Codes to Detect Counterfeits

Enroll your products in Transparency → Apply Transparency codes on your products → Amazon scans Transparency codes to ensure only authentic units are shipped to customers / Customers can use their Transparency app to authenticate units, regardless of where they are purchased
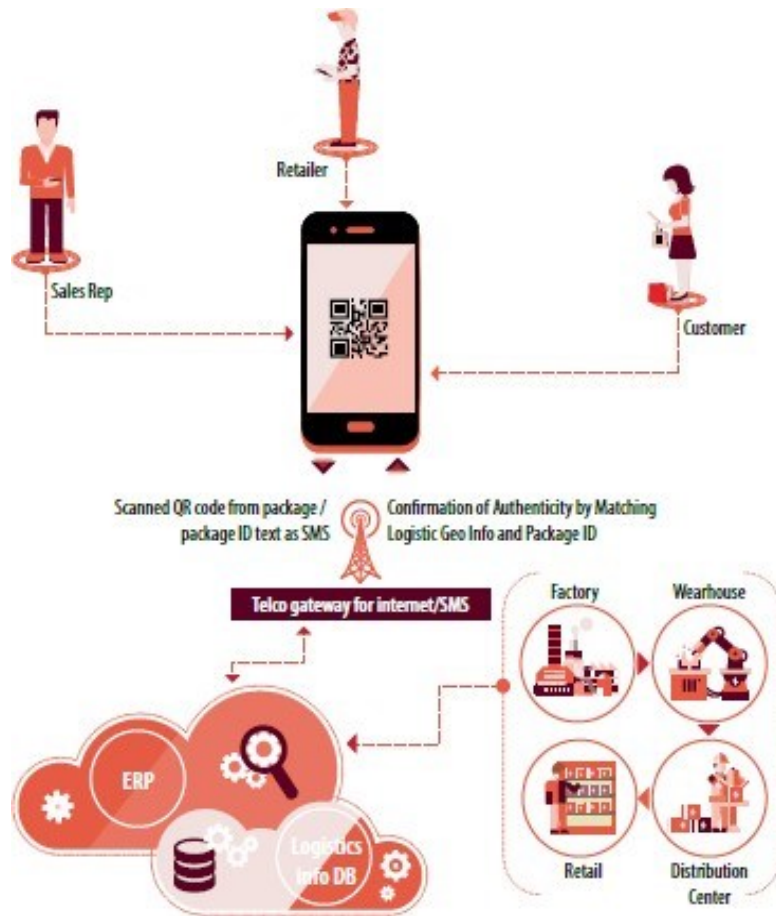
Transparency Codes offer more detailed product information that includes:

✓ Manufacturing date
✓ Manufacturing place
✓ Expiration date
✓ Ingredients/materials used

Example – Textile Client
Adopting QR Codes to Detect Counterfeits

➢ OEMs can print unique QR codes on labels for their products and product packages. This QR code will contain digital information about the specific product that includes part / product name, model number, factory of manufacture, date of manufacture and batch #.

➢ This label will be displayed on the outer package of the SKU so that it is easily accessible for scan by a customer or sales representative.

➢ At the manufacturing end, the ERP system will hold these product details along with a history of transactions to enable tracking of the product along the distribution chain.
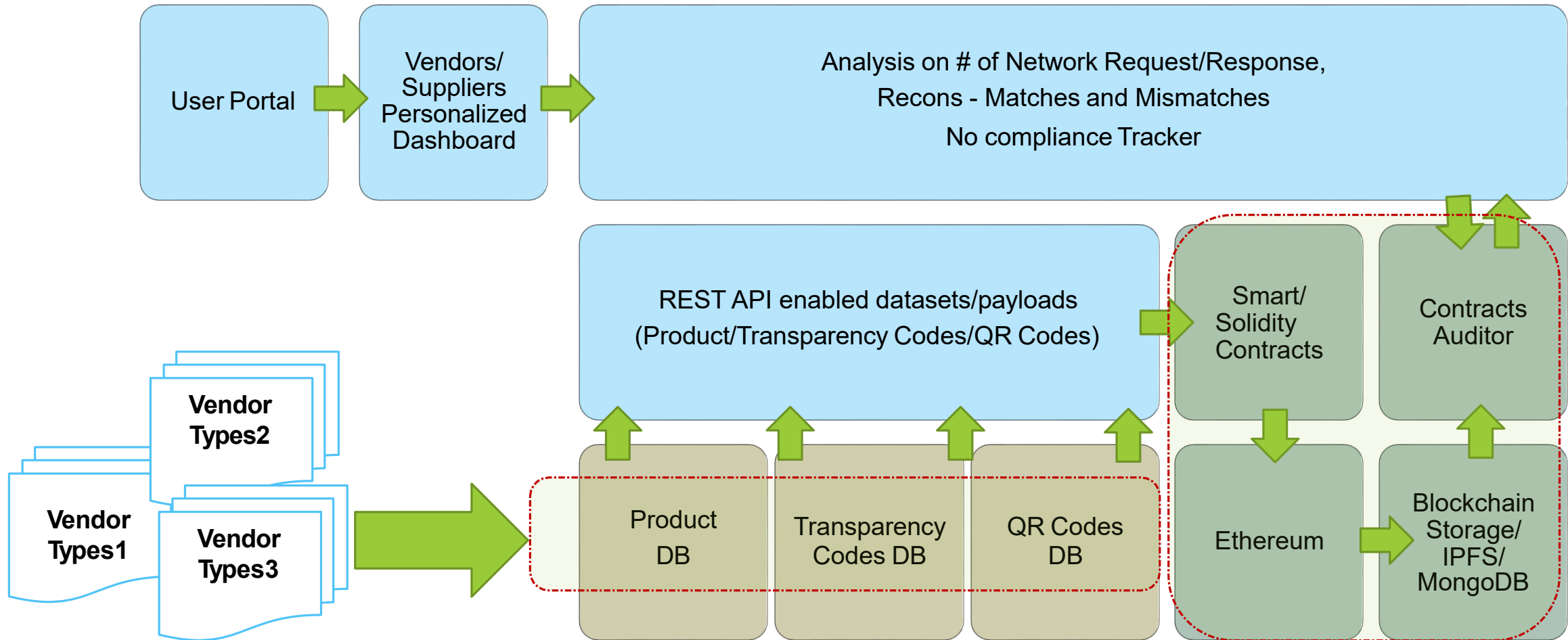
Linking to a Blockchain
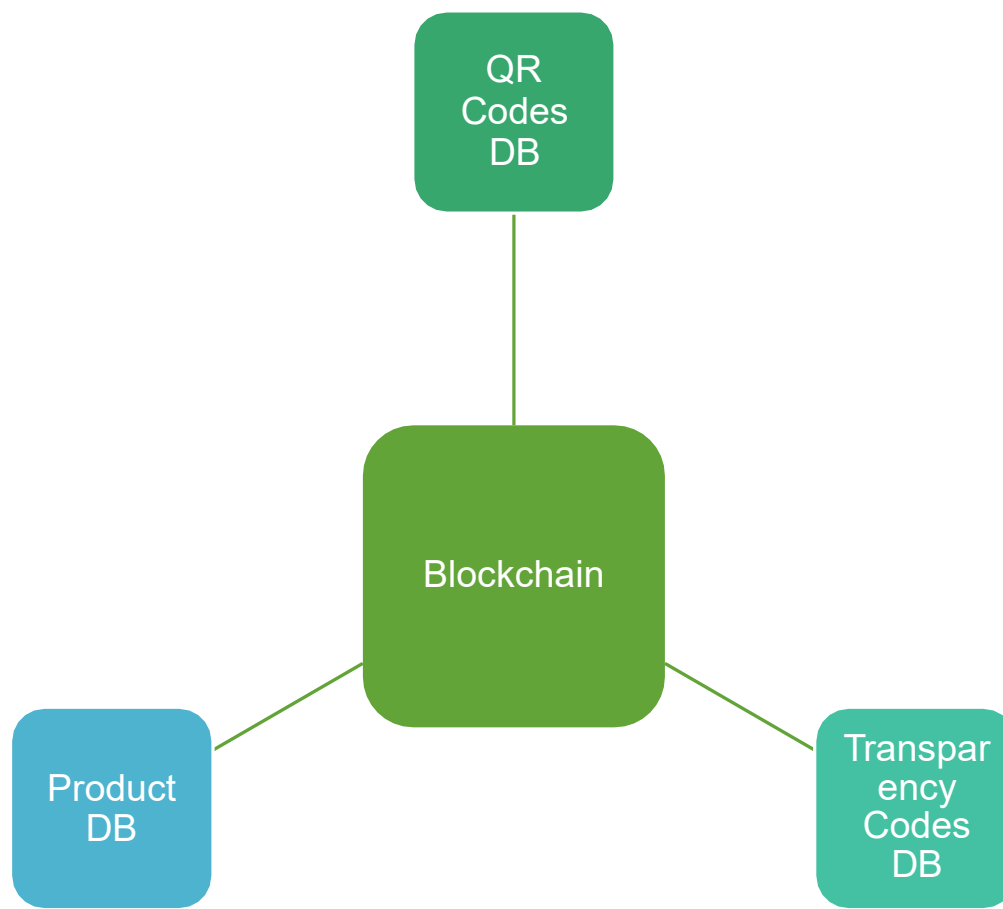
Functional Stack

| Vendors/Suppliers Data | Blockchain Components | Non - Blockchain Components |

User Portal → **Vendors/ Suppliers Personalized Dashboard** → **Analysis on # of Network Request/Response, Recons - Matches and Mismatches No compliance Tracker**

REST API enabled datasets/payloads (Product/Transparency Codes/QR Codes)

Vendor Types1

Vendor Types2

Vendor Types3

Product DB

Transparency Codes DB

QR Codes DB

Smart/ Solidity Contracts

Contracts Auditor

Ethereum

Blockchain Storage/ IPFS/ MongoDB

Thank You

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