

DIGITAL ENTERPRISE

Data Traceability

1 in 10

每年受污染的食物或飲料而生病的人

15%

出售的食品和飲料為仿冒品或是有風險的產品

€9.5M

因產品召回產生的直接成本

400,000

死亡

56%

的食品和飲料公司
每年至少產品召回
一次

€50-60M

每次產品召回對公司銷售和聲譽的影響

Tracking & Tracing的商業案例

提升客戶信任度

Transparency helps the consumer to make purchasing decisions



確保供應鏈安全性

Use Case: secure cooling chain

產品召回管理

Recall only the effected products as fast as possible



Tracking & Tracing的商業案例

提升產品品質

Golden Batch for highest quality and lowest production cost



符合法規



Food laws become stricter regarding genealogy

確保產品安全

Prevent counterfeit products



Tracking & Tracing

客戶的需求

生產品質

Recording and long term storage of the production data. Target: Prove the quality of the production process by reporting of:

- Process parameters
- Alarms
- Linkage to batches / order data

Tracking & Tracing

供應鏈安全性

Guarantee the quality and security of a product during its entire value chain – Traceability from the farm to the shelf by being able to report each step

- Truck loading
 - Warehouse storage
 - Delivery details
- Use Barcodes and RFID to identify products

生產履歷

Building up the history of a product by reporting

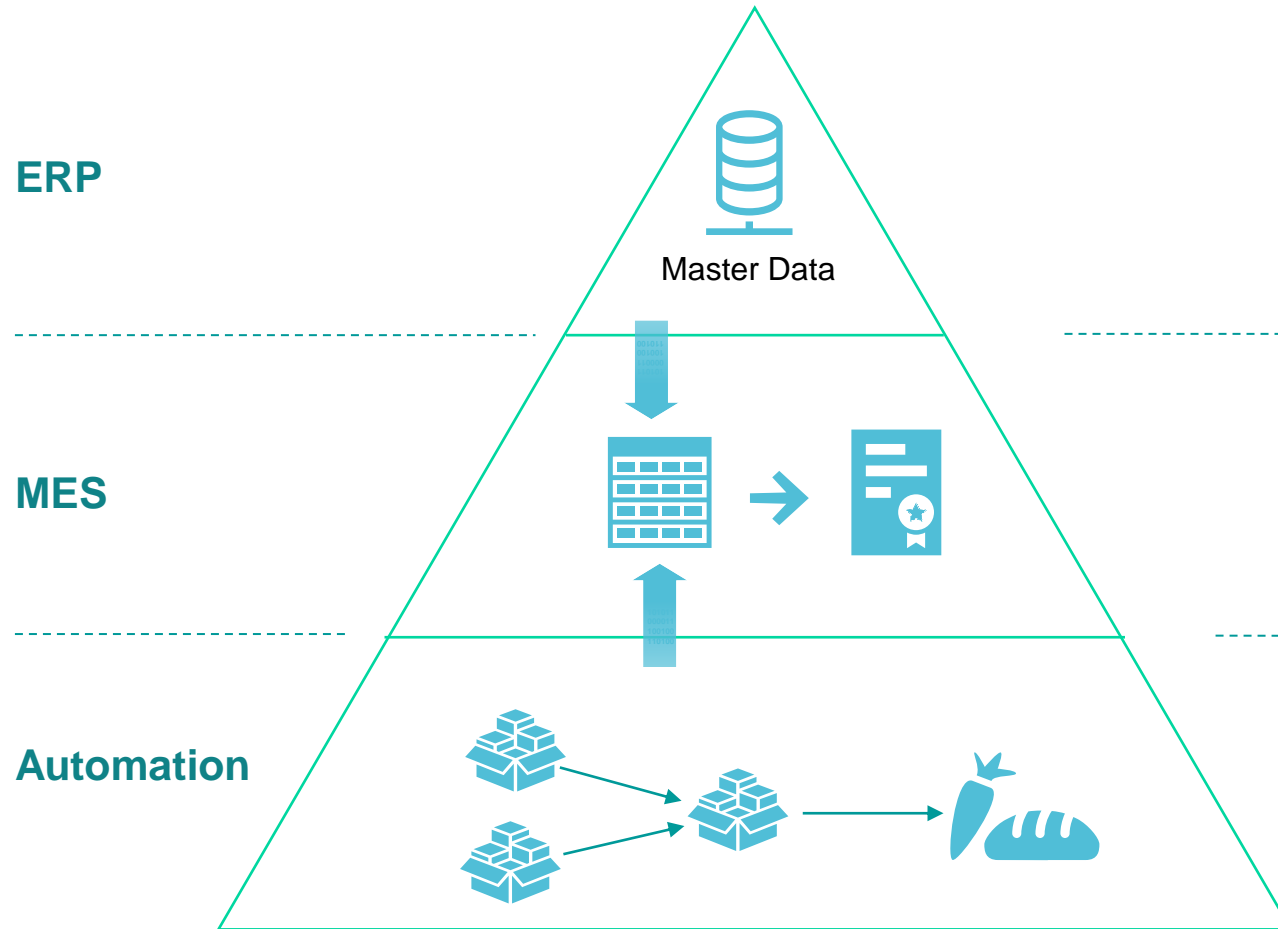
- Material consumptions
- Material transformations
- Material quality

產品安全性

Prevent counterfeit products by applying security mechanism and allowing validating source of the product

Tracking & Tracing

建立完整的產銷履歷



ERP

Master Data

MES

Automation

A system that:

- Manages the material master data (e.g. purchasing, storage, accounting, costing, sales and classification of materials)

A system that:

- Manages equipment and locations
- Has information about materials and qualities
- Has reporting capabilities

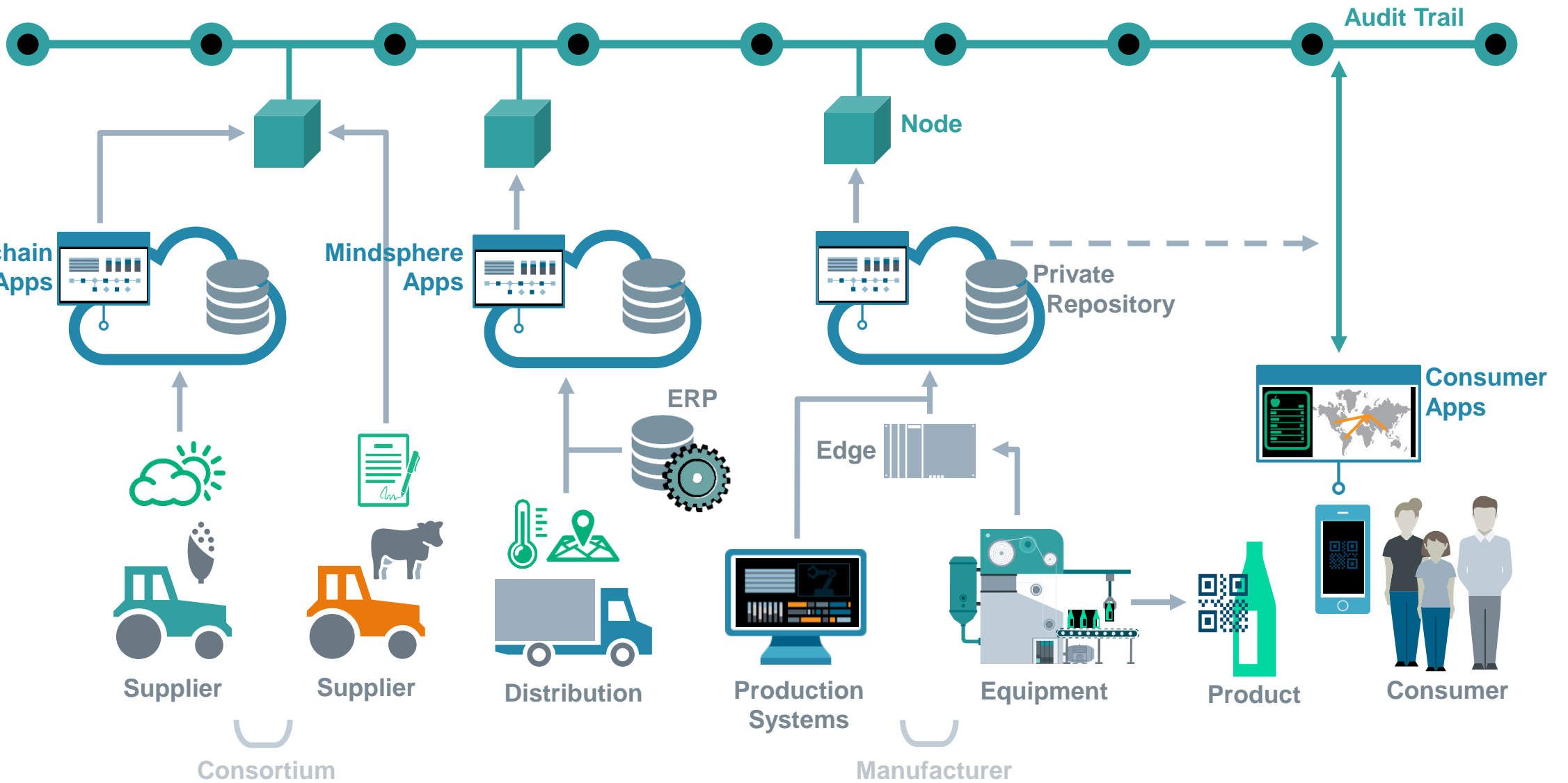
A system that:

- Provides information about movements and transformation of materials

Blockchain

Mindsphere

Internet-of-Things





Blockchain

Secure data storage and sync



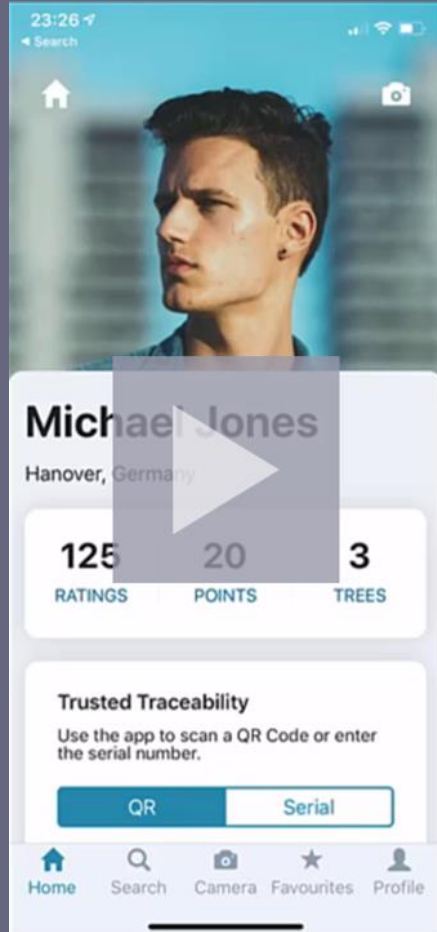
MindSphere

Blockchain management and analytics



Internet of Things

Data creation and collection



Traceability and Insights

Unique Consumer Experiences

Deliver trust and transparency to consumers

Unique user experiences created with low-code application platform allowing easy personalization of UX and aggregation of data. Provide consumers with the data to backup marketing claims and information about the end-to-end traceability of the product they are wanting to purchase.

Trusted Traceability, Mendix

Thank You!

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