



Business Motivation and Trends – Track and Trace

SAP Track and Trace Solutions

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Let's talk about



Business Drivers

- Local and International Regulation



- Quality condition monitoring – temperature, humidity...



- Security conditioning monitoring – Geo location / Geo fence



- Product genealogy for recalls, clinical trials...



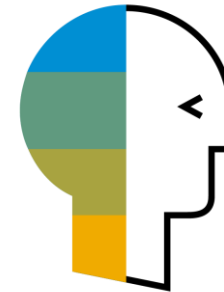
- Supply Chain Visibility



- Real time decision making

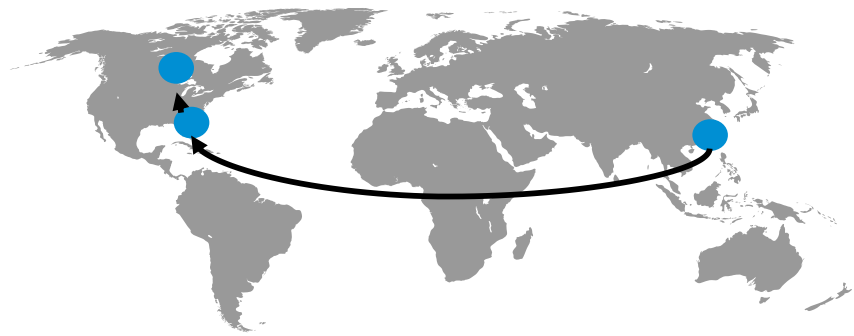
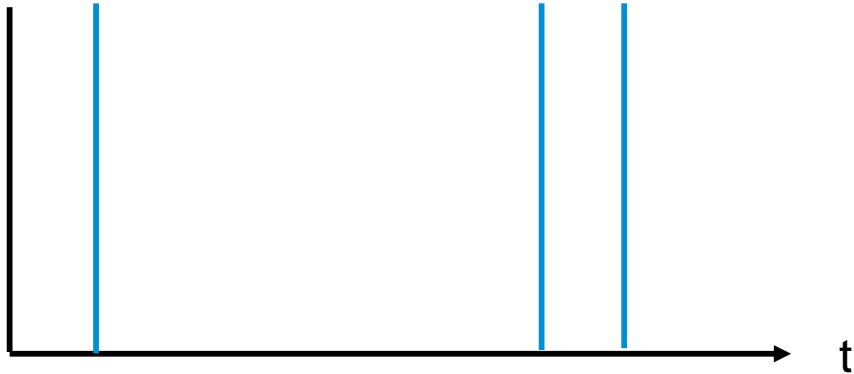


- Provide real time insights to customer



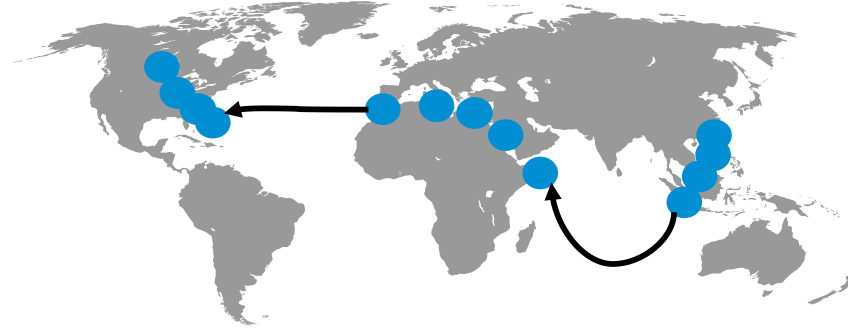
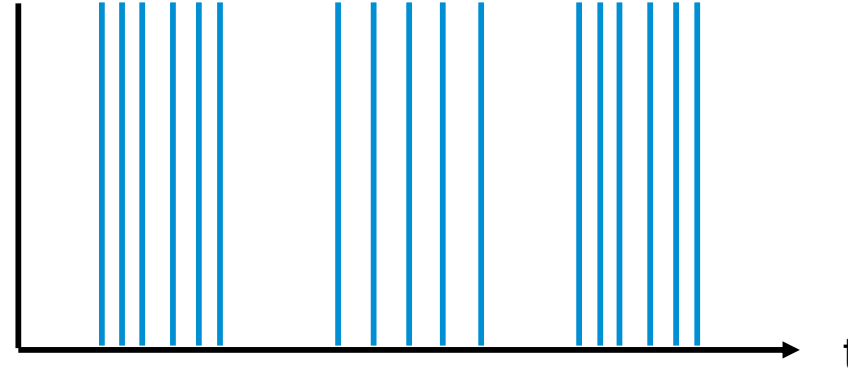
IOT – Creating a real time Supply Chain

Business transactions and capture of track and trace data at some points



Updates from backend systems at origin, port and arrival

Augmented now with smart sensor (IoT)



Sensors transmitting with GSM

Technology Drivers

Cheap and affordable technology – **IOT, GPS, GSM**

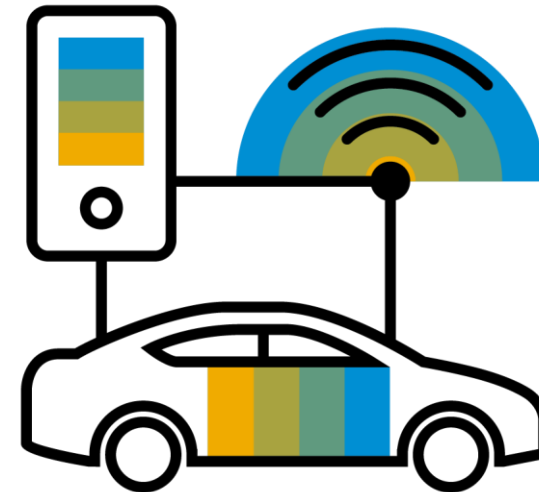
- Smart logistics units
- Uniquely identified and therefore discoverable “digital products”
- Real-time Sensing of location and other conditions

Accessible and secure data

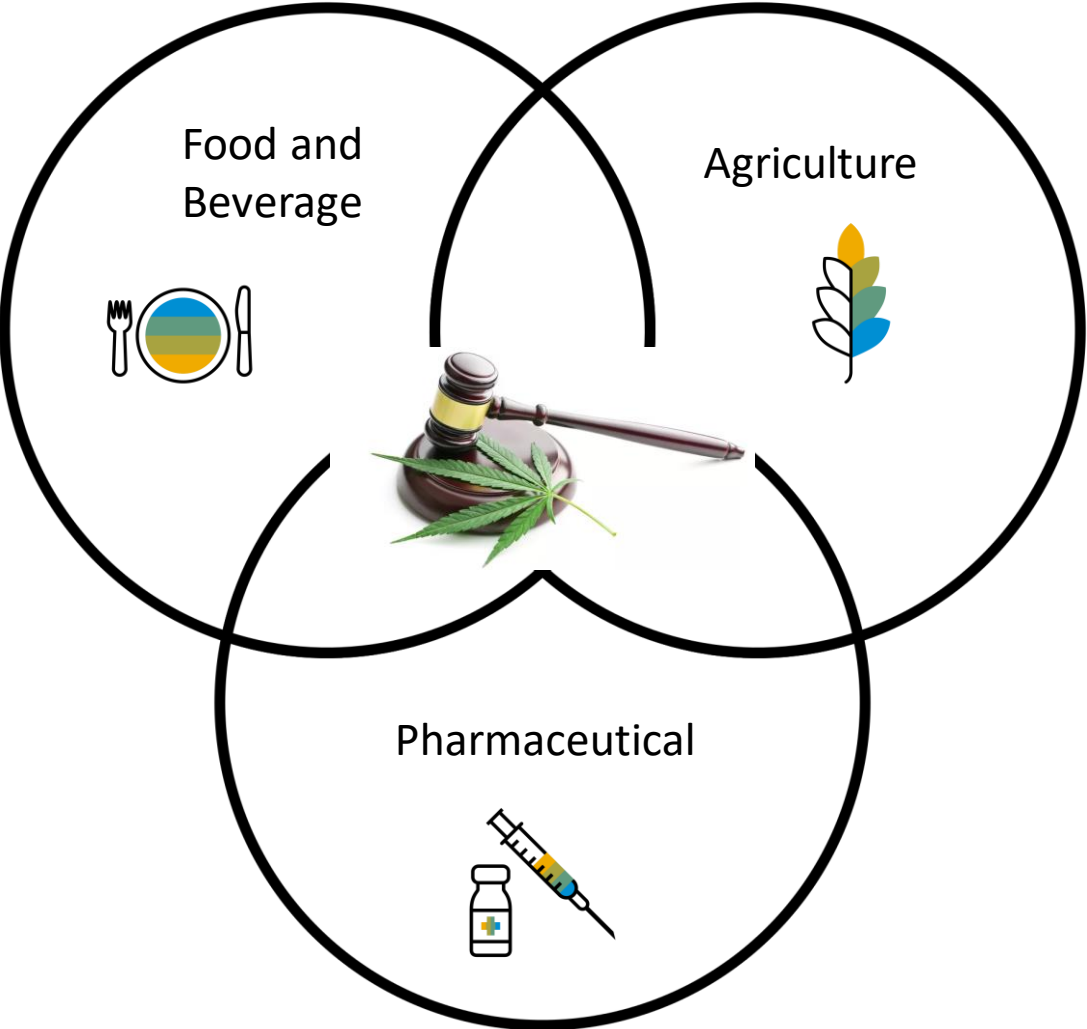
- Cloud solutions
- Blockchain
- Logistic Networks

Innovation in Industry 4.0

Collect all data from raw materials at batch level to all parameters in the production process (machine and human) to improve product quality



What is the challenge?



Track and Trace scenarios in Supply Chain

Raw material



Production



Supply



Distribution



Customer



Traceability from crop to product – batch, genealogy

Traceability in production from raw material and batch to package and serial number

Track and trace of logistics transactions, for: regulatory reporting, inventory visibility, and customer satisfaction

Track and trace of conditioning monitoring for product quality and safety

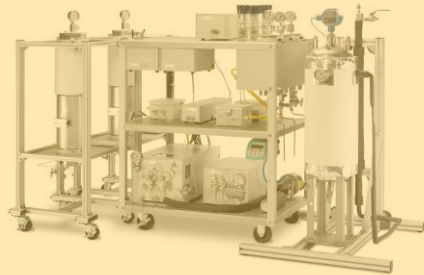
Track and trace store/customer inventory for future planning or recall

Track and Trace scenarios in Supply Chain

Raw material



Production



Traceability from crop to product - batch genealogy

Traceability in production from raw material and batch to package and serial number

Collect data during Crop growth
Collect data during Production
Collect data during transport



Collect data from stores
Collect data from clients
Collect data from Clinical trials

Customer



Track and trace store/customer inventory for future planning or recall

Track and Trace scenarios in Supply Chain

Raw material



Production



Supply



Distribution



Customer



Technological Layer

Industry solution for agriculture

MES system

Track and trace solutions

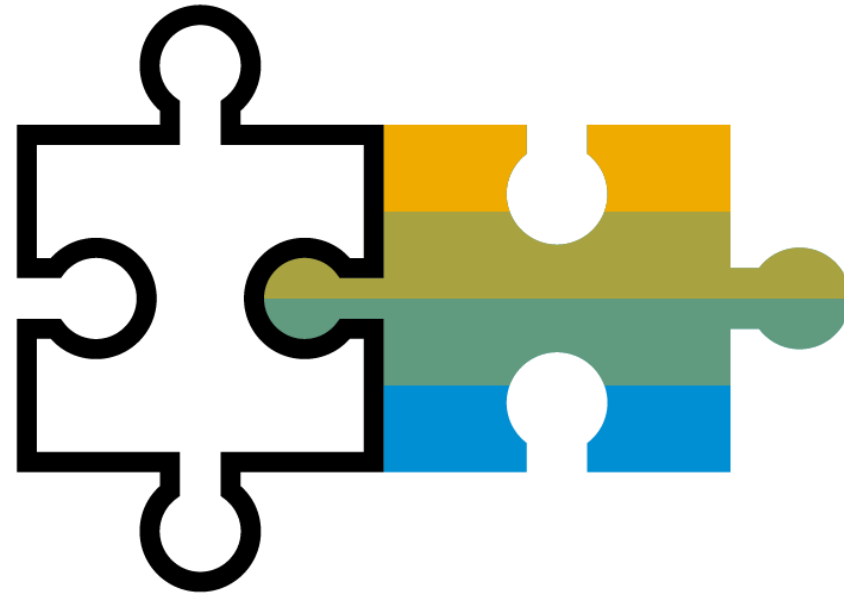
Complementary solution for genealogy and compliance

Innovative ERP

support new business modules and complex supply chain process

Where is the Magic?

Smart
business
process



Advanced
technology

What if?

