



SAP Innovation Awards 2019 Entry Pitch Deck

Trusted Goods Consumer Dialogue

Capgemini



<https://vimeo.com/314690251>

Password - CGTrustedGoods

Trusted Goods Consumer Dialogue

Capgemini



“Quote”

From Farm to Retail;
Trust your food!

Challenge

Food Processing and Agri industries face a lot of issues in certifying the provenance of the raw material/foods products arriving from different locations with multiple partners involved in the supply chain. The end consumer also does not have a clue on how and when the harvesting was done.

Solution

Capgemini's Trusted Goods, leverages Leonardo IoT, Blockchain and AI technologies to track and register each and every event and handshake between multiple partners and integrating multiple ERP systems in a central SAP Cloud Platform hub to allow and run a smooth supply chain.

Outcome

A central portal build using SAP Cloud Platform and leveraging Leonardo Technologies given a holistic view of complete supply chain for the Seller while also allowing end consumer at the retail to interact with a BoT and verify Food Parameters recorded in the Blockchain.

50% reduction in acceptance
of food products not fit for use

50% increase in shelf-life

Significant improvements in
Farming and Harvesting
qualities and technique



Partner Information

Capgemini
Owner



From Farm to Retail; Trust your Food!





Business Challenge & Objectives

Food Processing and Agri industries face a lot of issues in certifying the provenance of the raw material/foods products arriving from different locations with multiple partners involved in the supply chain. The end consumer also does not have a clue on how and when the harvesting was done. Due to involvement of multiple personas, it is really difficult to hold someone responsible for the sales losses the final seller may incur.

Our solution, Trusted Goods is an outcome of the design thinking workshops we had internally and along with some customers involved in Food and Agri business. With this we are trying to address the issues in the Supply Chain using multiple SAP Leonardo Technologies and integrating the complete supply chain in a central cockpit developed using SAP Cloud Platform.



Project / Use Case Details

- End-to-End Supply chain monitoring with Food quality measures
- Every node/partner in the chain records an event in the Blockchain(Hyperledger Fabric)
- Integrated with on premise S/4HANA for transaction postings
- Integrated with Recast.AI to give end-customer history on the go
- Get detailed travel history maps with the use Internet of Things
- Secured and Encrypted information in Blockchain from Farmer, Carrier, Reseller & Seller.
- Simple UX with key KPIs for better visibility



Benefits and Outcomes

Business / Social

- Strong Trust between multiple partners involved in the supply chain
- End Customer/Consumer gets more insights into the Products

IT

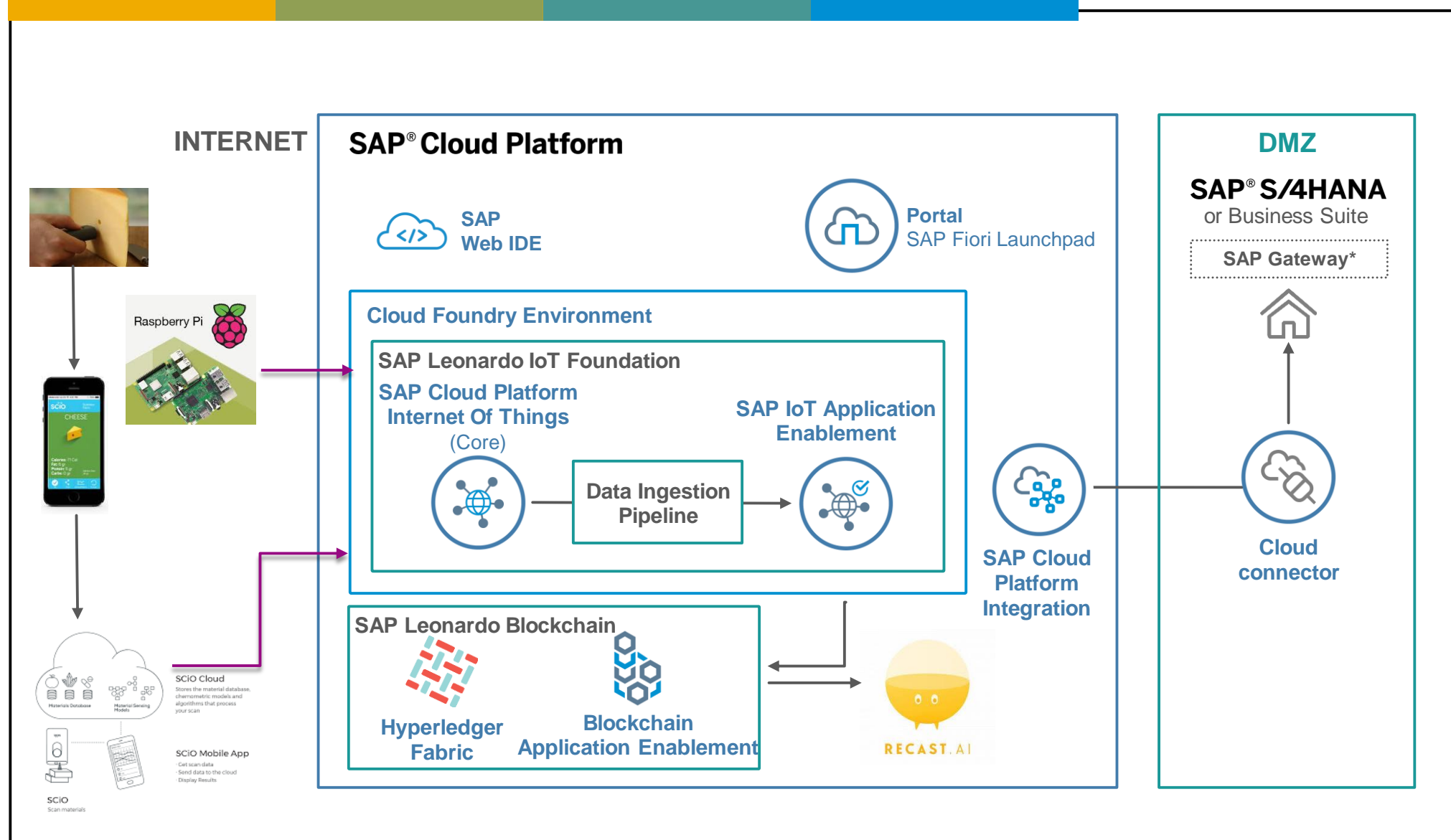
- Central Hub integrating all parties/personas
- Central monitor for all events

Human Empowerment

- Food producer leverages highly powerful technologies in the farms
- Has less wastage/rejection of products



Architecture





Deployment

Date of Deployment or POC: NA

Number of live users: NA

SAP Technologies Used:

SAP Cloud Platform	POC
SAP Leonardo IoT	POC
SAP Leonardo Blockchain	POC
SAP Recast.AI	POC
SAP Cloud Platform Integration	POC
SAP S4HANA Logistics	POC

Server Processor: NA

Linux Distribution: NA



Emerging Technologies and Use Cases

The following Emerging Technologies and use-cases are part of the project and describe the contribution

	Technology or Use Case	Yes/No	Contribution to Project
1.	Machine Learning / Artificial Intelligence	Yes	SAP Conversational AI for end customer interface
2.	IoT	Yes	Live tracking of containers to monitor Temperature and Humidity
3.	3D printing		
4.	Blockchain	Yes	To record each and every handshake between different parties in the supply chain
5.	API Economy / Integrate the Intelligent Enterprise	Yes	CPI used to integrate S4HANA On premise
6.	Cloud Native / Event Based Architectures	No	
7.	Extending the digital core with SAP CP / ABAP in SAP CP	Yes	SAP Cloud Platform based UI used as central cockpit for complete supply chain
8.	SAP Leonardo Application (extending SAP application, using Industry Innovation Kits or result of Design Thinking workshop)	No	