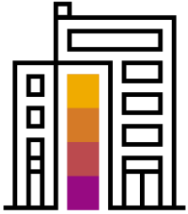




SAP® Innovation Awards 2020 Entry Pitch Deck

Transportation & Vehicle Tracking Solution (VTS) for Oil & Gas

Wipro Technologies



Company Information

Headquarters	Wipro Technologies, Bangalore, India
Industry	IT Services
Web site	www.wipro.com

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Oil & Gas Transportation & Vehicle Tracking Solution (VTS)

Wipro Technologies



Enabling real-time information on availability of vehicle for shipment planning, monitoring of bulk transportation of Hydrocarbons & their delivery to customer sites, automating shipment transactions & delivery completion can bring in higher efficiencies in the transportation planning & delivery processes and lead to higher customer satisfaction

Challenge

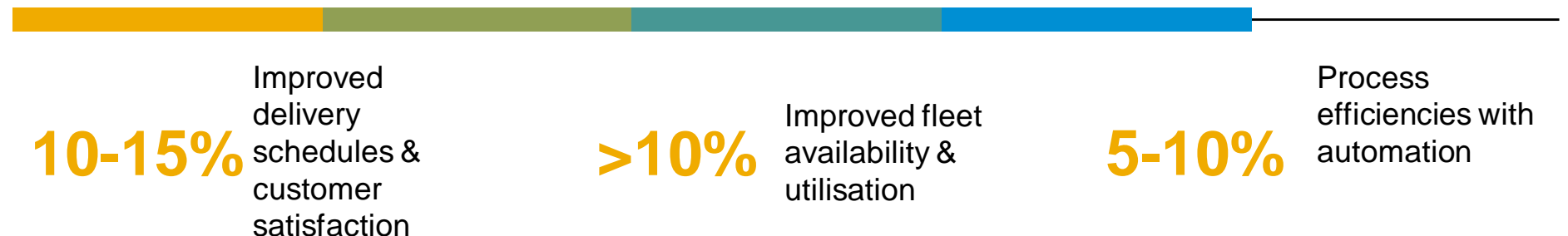
There is a demand for tracking Hydrocarbon transportation fleet in Oil & Gas industry. Lot of business bandwidth is wasted in tracking and monitoring the vehicles out for delivery until they report back at the Terminal for next Shipment & also in responding to customer queries when customers do not receive hydrocarbons as per ETA leading to reduced customer satisfaction

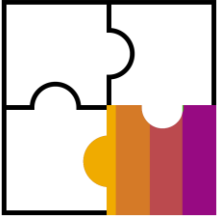
Solution

VTS solution enables real-time availability of vehicles for shipment planning, monitoring bulk transportation of Hydrocarbons & their delivery to customers, automating manual shipment & delivery transaction updates in ERP system, monitor vehicle health parameters & schedule maintenance cycles for optimum fleet utilization

Outcome

Improved customer experience with Real-time information on fleet & timely deliveries. Process efficiencies with automation of manual transaction updates. Improved fleet utilization with optimum maintenance schedules. Early warning of any buildup of hazardous conditions with the hydrocarbon storage tankers in transit





Participating Partner Information

Wipro Technologies

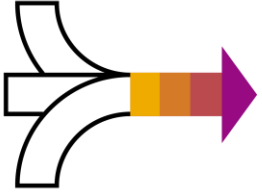
System Design & Integration



With the advent of IOT technologies, several Vehicle Tracking & Performance Monitoring Solutions are now available in the market. Enriching the SAP O&G Solution to cover this critical process helps in enabling real-time information on vehicle availability for shipment planning, monitoring the Shipment all through its lifecycle, & in timely delivery of Hydrocarbons to customer sites. The solution also aids in automating the load / delivery confirmations & set the appropriate shipment statuses real-time, so as to bring in efficiencies in the bulk transportation planning & delivery processes, thereby leading to higher customer satisfaction

Chandrasekhar Chebiyyam Competency Head, SAP Oil & Gas

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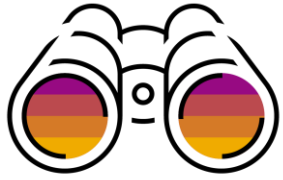
Business Challenges and Objectives

There is a demand for tracking Hydrocarbon transportation fleet in Oil & Gas industry. Lot of business bandwidth is wasted in tracking and monitoring the vehicles out for delivery & responding to customer queries when customers are not able to receive hydrocarbons as per ETA leading to reduced customer satisfaction

Subletting the task of tracking and tracing of vehicles to 3rd party agency adds to the delivery cost and introduces a dependency on the agency for achieving timely deliveries affecting customer satisfaction

Build a solution enabling real-time monitoring of bulk transportation of Hydrocarbons & their delivery to customers & automating shipment transactions can bring in efficiencies in the transportation planning & delivery processes and lead to higher customer satisfaction





Project or Use Case Details

O&G transportation & Vehicle tracking solution (VTS) will enable the following:

- a) Vehicle availability tracking for shipment scheduling & planning for timely loading/unloading at the terminals/depots
- b) Vehicle location tracking & geo-fencing during delivery to monitor customer deliveries, ETA, Delivery completion and any non-compliance to the published delivery route by the driver
- c) Integration of VTS solution to SAP, enabling automation of shipment & delivery document updates based on vehicle location tracking & hydrocarbon delivery at customer site.
- d) Real-time monitoring of hydrocarbon parameters within tanker like temperate, pressure, quantities/level, state of the material. VTS solution should be able to show timely alerts for any breaches to critical threshold storage parameters within the tanker
- e) Real-time monitoring of vehicle health & performance parameters.



Benefits and Outcomes

Business or Social

Solution will bring in efficiencies in the Hydrocarbon bulk transportation planning & delivery processes

Savings of cost incurred on subletting of vehicle tracking and monitoring to third parties

Improved customer experience with Real-time information on fleet location & Delivery ETAs

Real-time Fleet Health monitoring & upkeep with optimized maintenance schedules

IT

Automated logging of customer delivered quantities to serve as audit trails while reconciling with customer acknowledgement of delivered quantity

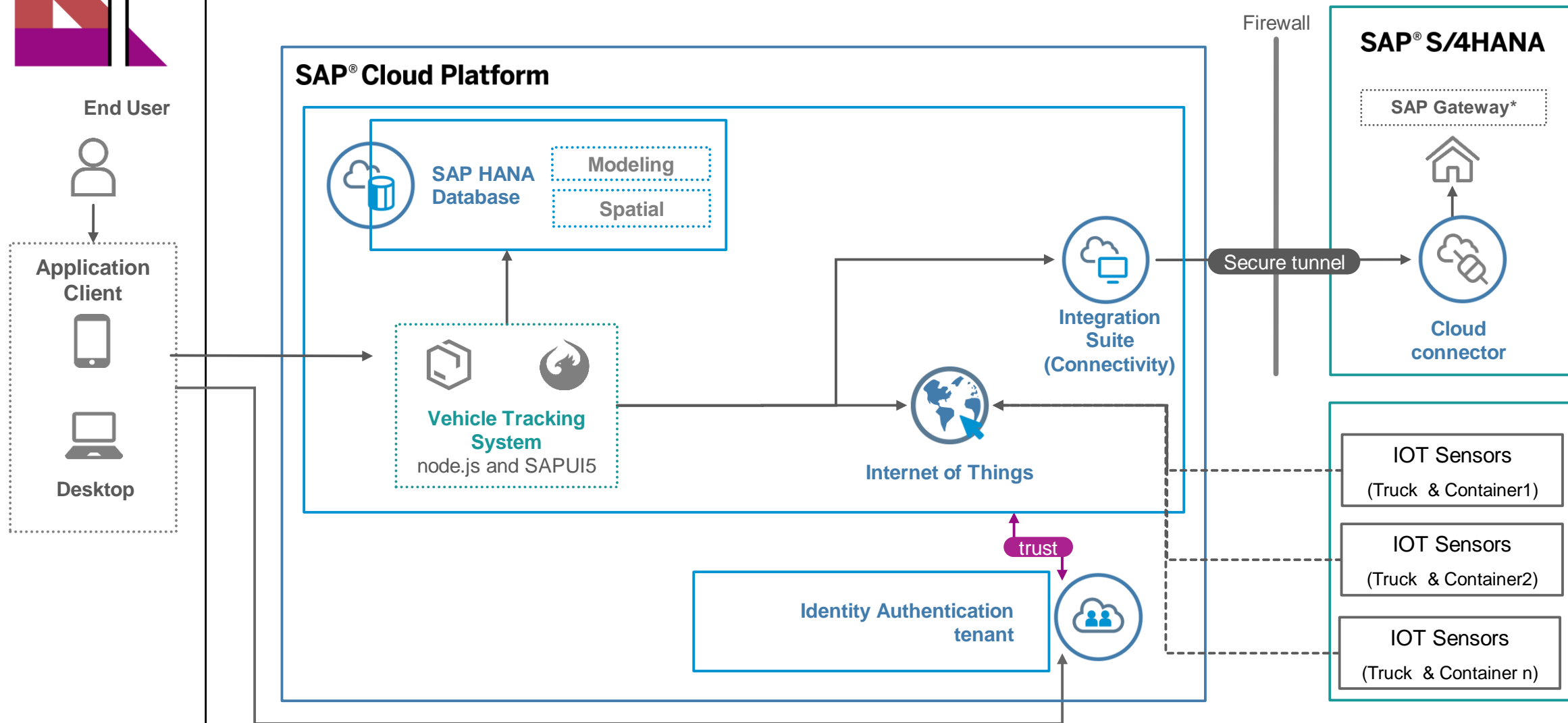
Automation of delivery & shipment document updates leading to lesser manual transactions & reduced cost

Human Empowerment

Real-time monitoring of critical hydrocarbon parameters within the storage tanker will provide early warning to the fleet supervisor & driver of any buildup of hazardous condition within the tanker



Architecture





Date

Number of users

SAP technologies used:

If you have used one of the services or support offerings from SAP Digital Business Services during the implementation or deployment phase, please select with ☒ one or more of the following offerings:

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Advanced Technologies

The following **advanced technologies** were part of the project.

Technology or use case	Yes or No	Contribution to project
1 3D printing		
2 Blockchain		
3 Internet of Things (IoT)	Yes	Real-time monitoring of Hydrocarbon transportation
4 Machine learning or AI		
5 Conversational AI		
6 Robotic process automation		
7 Data anonymization		
8 Augmented analytics		