

SIEMENS

Beyond Your Supply Chain



Supply Chain Planning



Supply Chain Execution



Supply Chain Visibility

Siemens Digital Logistics

At a glance





300 in-house digital logistics experts



Dedicated, broad-based **industry** savvy



Over **50** years of combined experience in logistics and supply chain management.



More than **750** customers from over **20** industries.



Global footprint in over **20** countries, part of a company with over **170** years of tradition



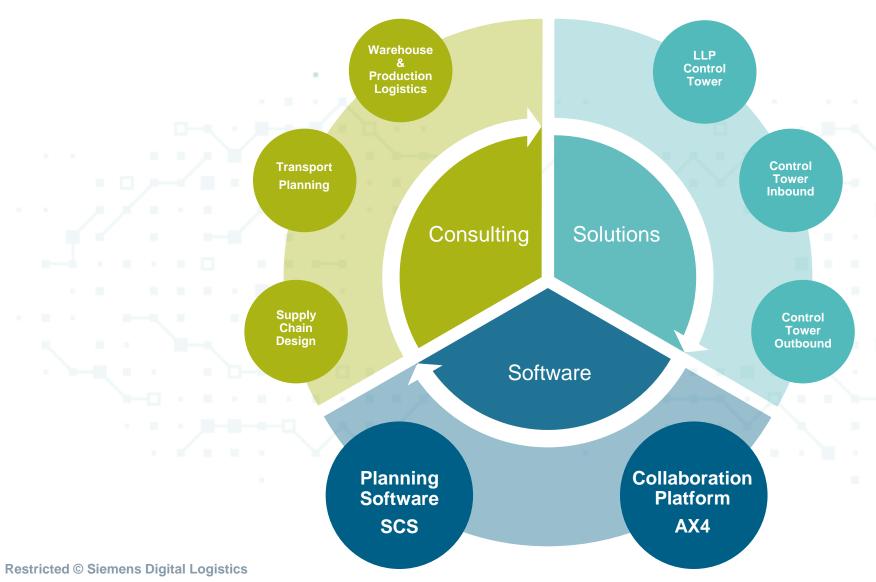
Customer

Audi, BASF, BAYER, BOSCH, Daimler, DB Cargo, DHL, dm-Drogeriemarkt

Products & Services

Overview





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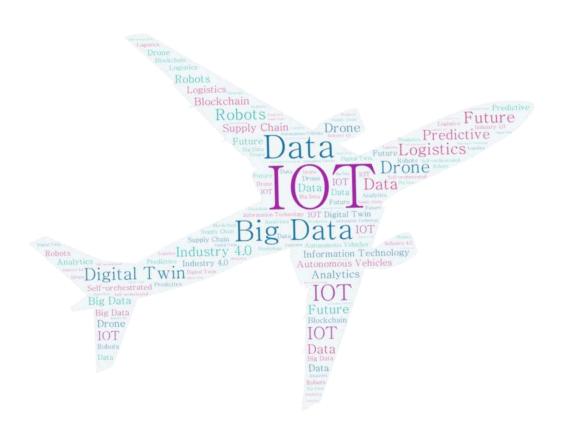
Introduction #ISC

Your Supply Chain is becoming more complex, administrative and tailormade – against minimal margins

Gartner foresees reducing costs, improving internal productivity, and increasing visibility by tailormade workflows and direct communication between production and logistics (digital Supply Chain) driving the market through 2022

Source - Gartner "Magic Quadrant for Transportation Management Systems" March 2017





Major developments

- Industrial Internet of Things
- Big Data and Analytics
- Digital Twins
- (Block-Chain)



There is still a lot of uncertainty about how Digital transformation will impact business

- ▶80% of Execs believe that digital technologies will disrupt their business over the next 12 months
- ▶ **75%** say that digital technology has already disrupted their business
- ▶ 26% of Execs say that their CEO sets a clear vision for digital in their business
- ▶ 25% say that they fully understand the potential of digital to change i.e. how to create and deliver value to the customer
- ▶ 15% feel they have the necessary people and skills to execute their digital strategy



Organisations have to change from single, siloed systems....

.... to networks of capabilities

Today Future

While today's enterprises are linearly organized and optimized within the boundaries of organizational and system silos...

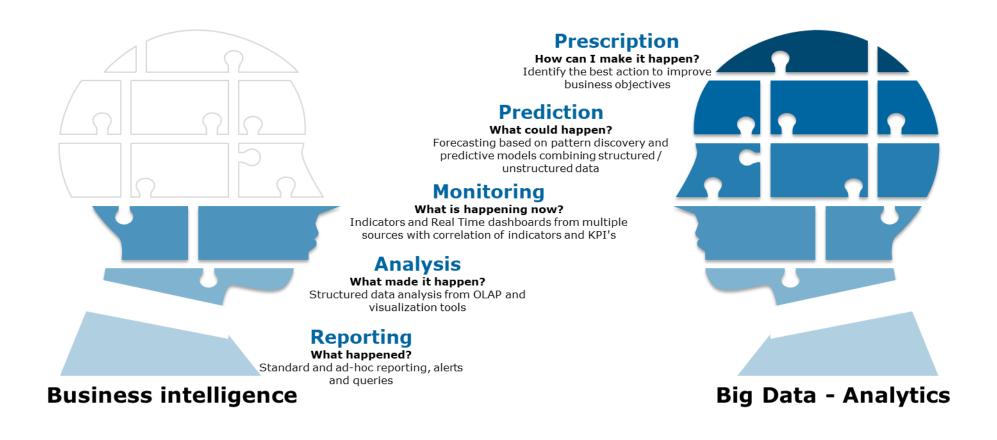






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The path from Business Intelligence to Big Data





Building Blocks – Needed Capabilities

Monitoring the supply chain in real-time (close to real-time)

"SEE"

Real-time insights

"ACT"

Predictive analytics

Predicting possible disruptions (history & external data sources)

"PREVENT"

Planning capabilities incl. scenario modeling and impact analysis

"OPTIMIZE"

Respond planning

Artificial Intelligence

Automated decision making through machine learning

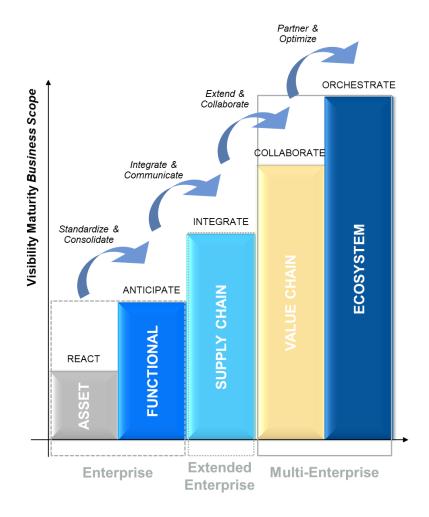
"AUTOMATE"

Source: "Supply Chain Visibility: The Journey Has Just Begun", Christian Tietze, Gartner Analyst

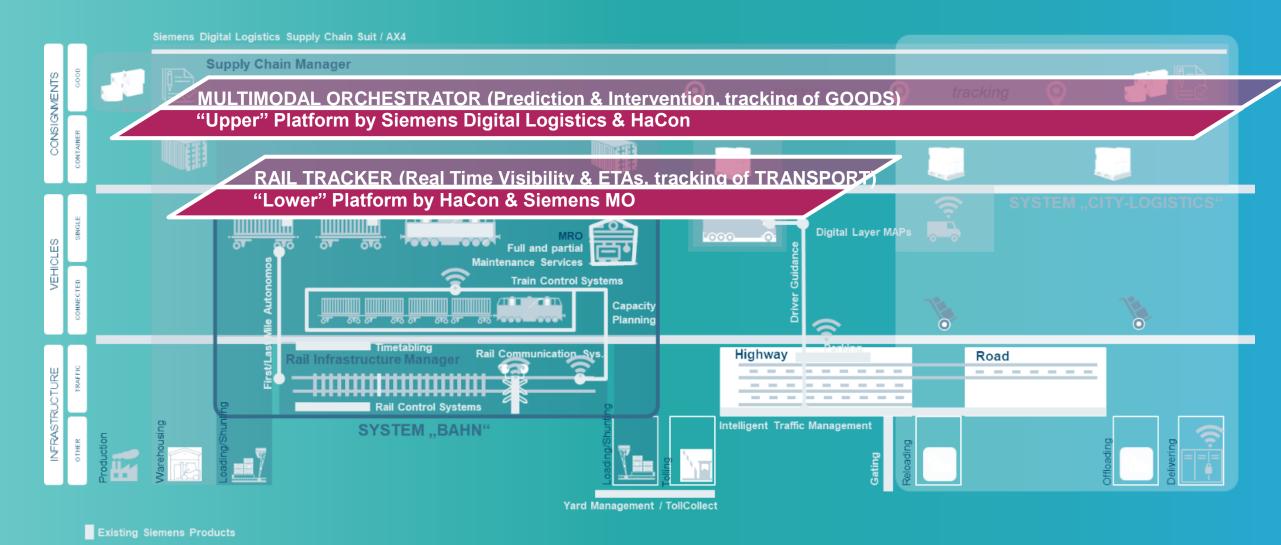
Market

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Gartner View on SC Visibility



It is important to understand that the extent of visibility, depth of understanding and resolution capabilities vary considerably with supply chain organizational maturity As Siemens family together with our "sister" HaCon and the complete Siemens Mobility spectrum, we have the best capability to provide two open platforms for the key building blocks

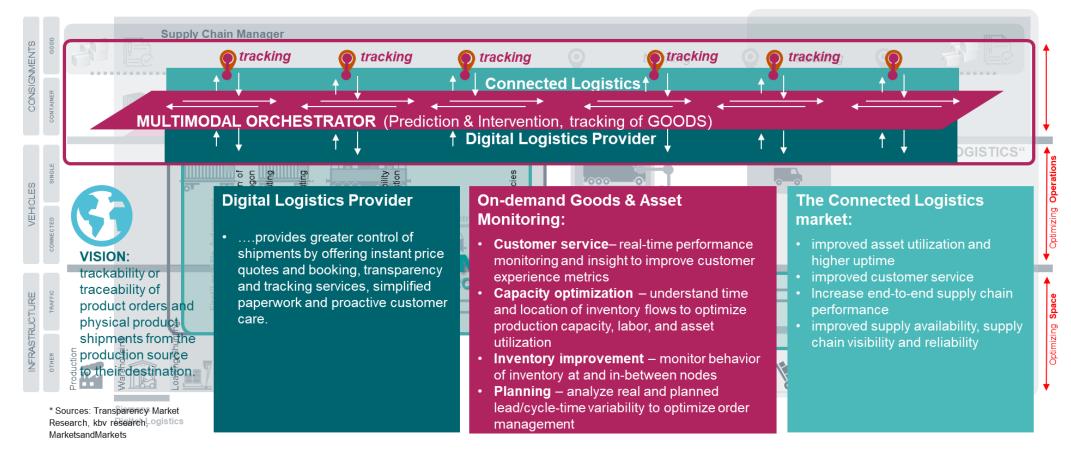


Vision

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Siemens Digital Logistics as Multimodal Orchestrator

Siemens Digital Logistics (SDL) is already today with its various project implementation the data orchestrator between various collaboration partners in logistics (e.g. shipper customers, suppliers, logistic service providers) and various transport modes. In the future SDL aims to orchestrate all business partners in a network-of-network approach to enable with its offering intelligent decisions in Supply Chain Management based on Logistics IoT, Analytics & AI.



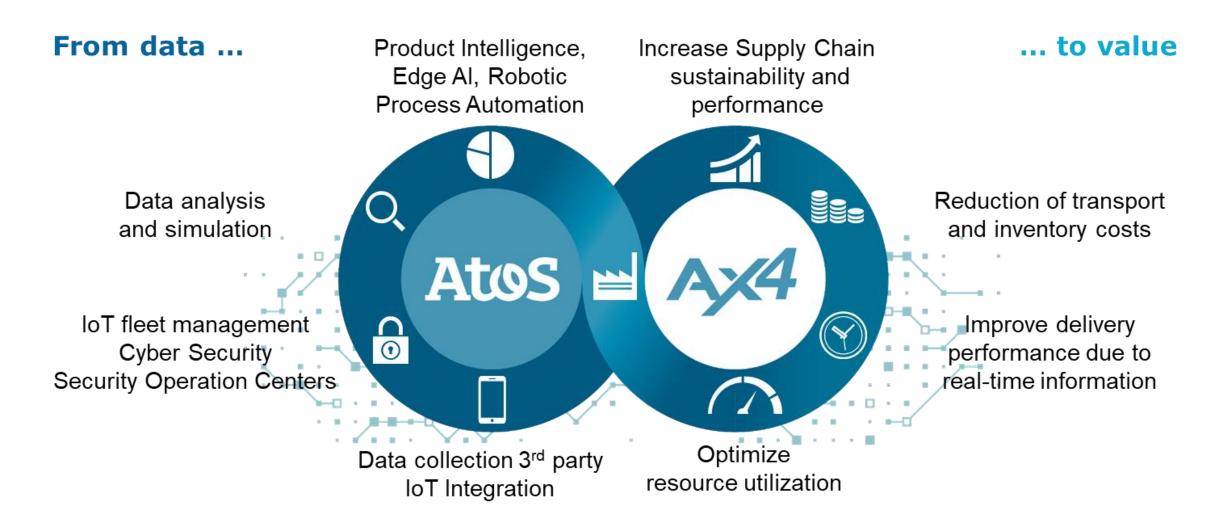
Intelligent Supply Chain – Vision of Planning & Execution SIEMENS Customer **Value Chain** Customer **Production** Sales Supplier **Procurement** Customer **Value Chain KPI** Data **Outbound Logistics Inbound Logistics Production** Logistics **Value Chain KPI** Detect Anomalies - Realtime Process Prediction Find Solutions: Analyze, Simulate, Solve Problems Control Create visibility & communicate solutions with collaboration partners

Restricted © Siemens Digital Logistics

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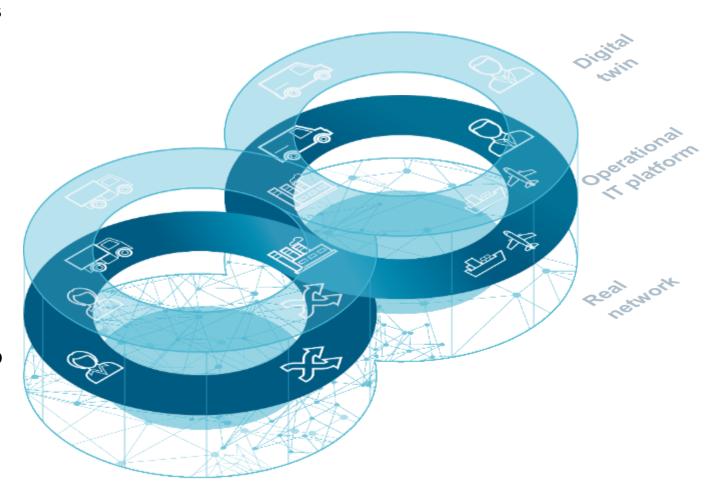
Siemens – AtoS Collaboration

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- Integrate all partners and systems in your supply chain network
- Deliver real-time data for transparent processes and effortless collaboration
- Offer a complete "digital twin" model of your supply chain for planning and simulation
- Identify potential for optimization based on innovative algorithms and consulting expertise
- Support planning and decision-making processes using both planning data and actual data
- Use of IoT technologies (Siemens MindSphere) for integrating machine and production data into logistics processes
- Development of predictive logistics through the use of artificial intelligence (here Atos Codex)



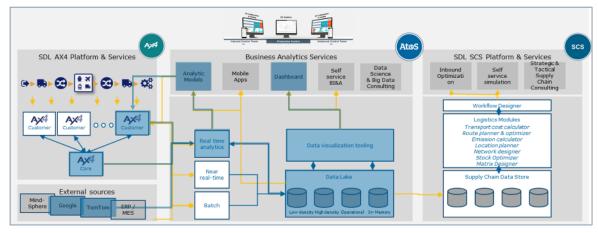


Product Overview

Use Cases



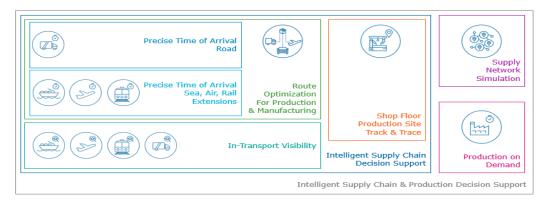
Integration with Siemens AX4 and SCS



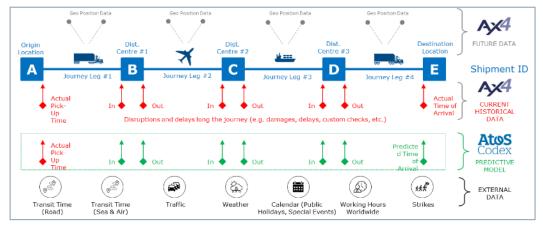
AtoS



Integrated Analytics Packages



Complex Logistic Equations into Analytics



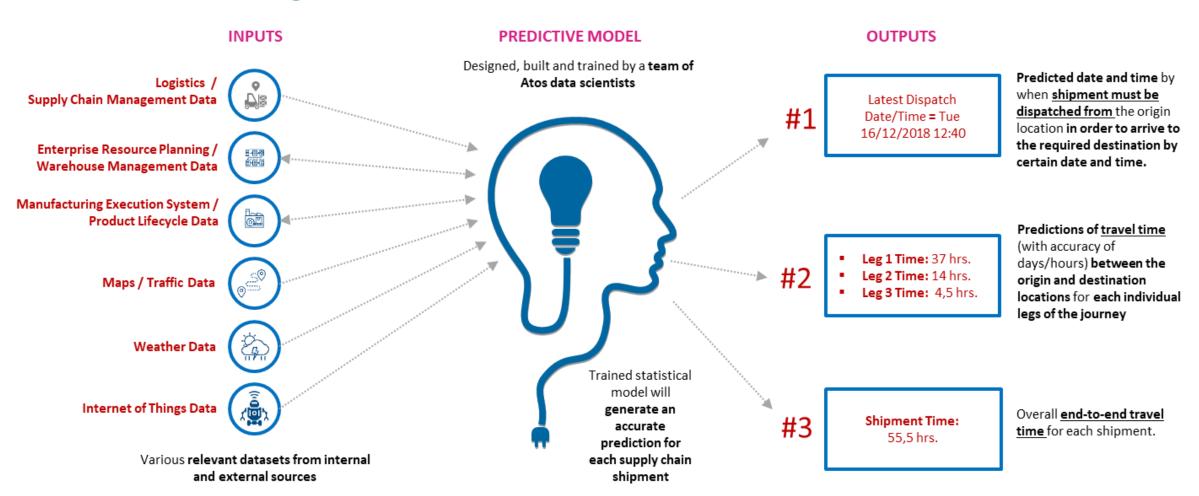
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Use Case Inbound Automotive#ISC



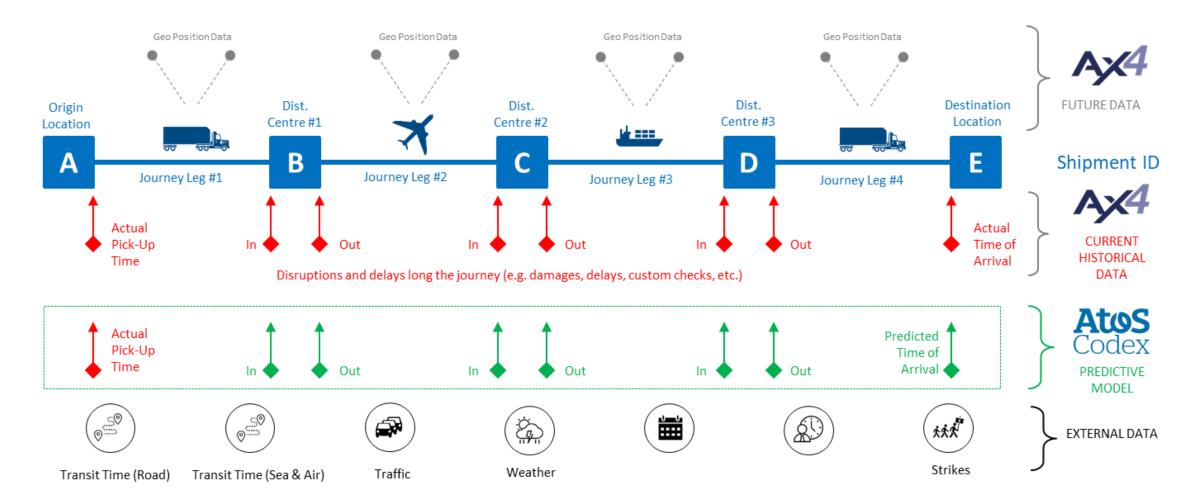
Intelligent Supply Chain PTA Model Training

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Intelligent Supply Chain PTA Model Training

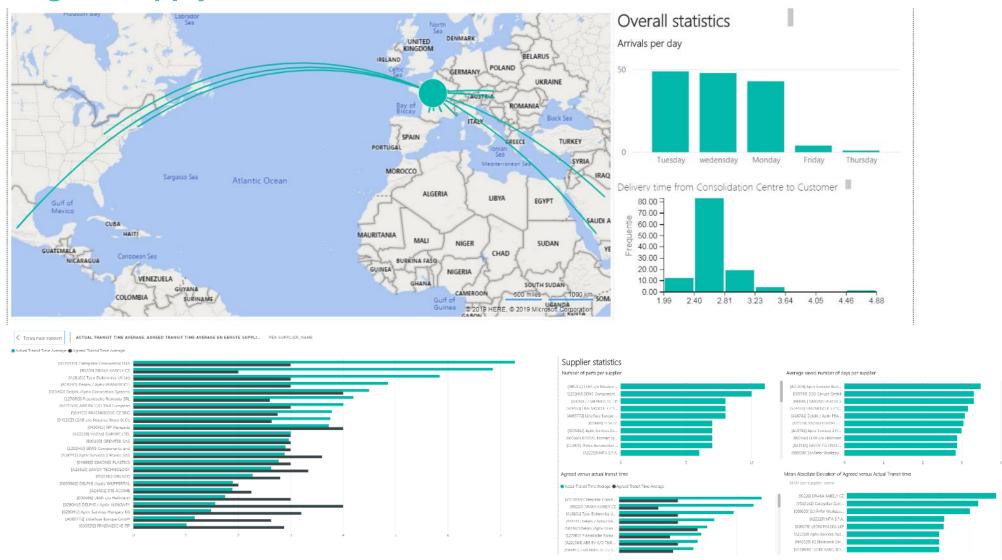
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Atos



Intelligent Supply Chain Dashboard

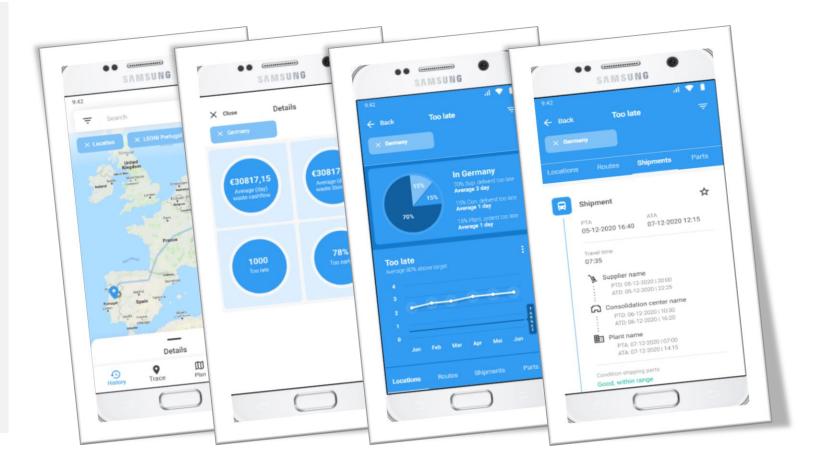




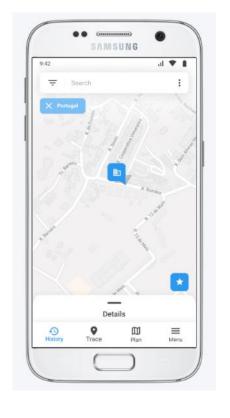


Smart App: Improve Insights via Mobile App (under development)

- Forecast Precise Time of Arrival that can be used to plan inbound, warehouse and production processes
- Calculate Latest Departure Time of shipment to save warehouse costs, but assure production is not hindered
- Track Part Numbers on shipments to support last minute decisions like changeover or maintenance

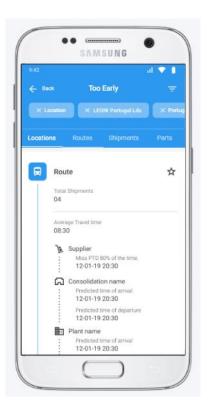


AtoS Intelligent Supply Chain Mobile Apps (based on AX4 LEONI PoV)



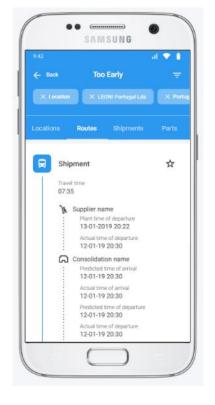




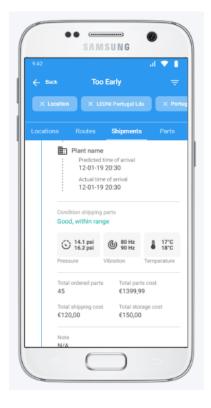


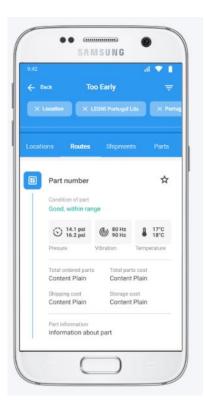
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Thanks for your attention!

Uwe Schumacher, VP Business Development, Siemens Digital Logistics