



# Partner Case Study: Bosch

**Rebecca Christiansen**

Americas Azure IoT Co-Sell Lead

Microsoft

**IoT** in Action



**BOSCH**

# DIGITAL TRACEABILITY IN SUSTAINABLE SUPPLY CHAIN MANAGEMENT



**Speaker : Srinivasulu Nasam**

General Manager – Centre of Excellence: Cloud and IoT

# Bosch



Including sales and service partners, Bosch's global manufacturing and sales network covers nearly every country in the world.

## Bosch Group

### Four business sectors



Mobility Solutions



Energy and Building Technology



Industrial Technology



Consumer Goods

We connect everyThing & everyThing becomes a service



Sensor



Software



Services

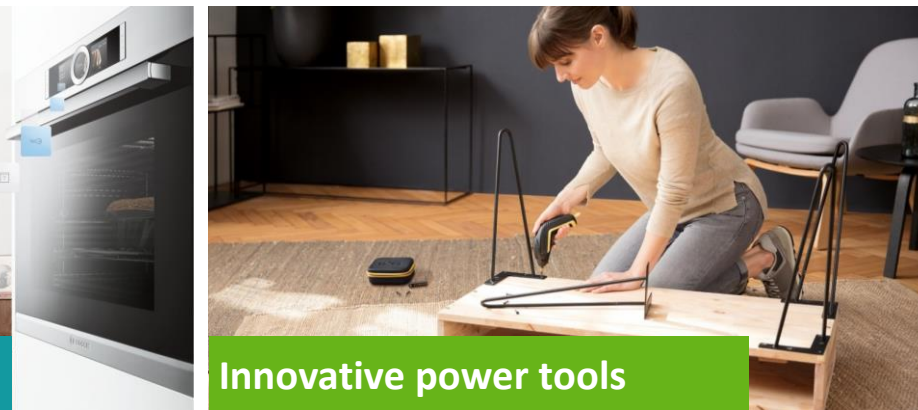
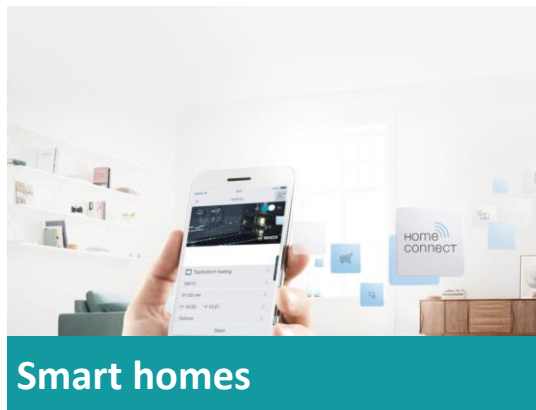
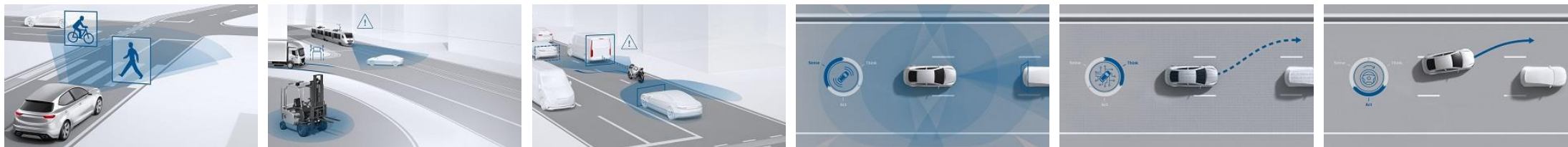




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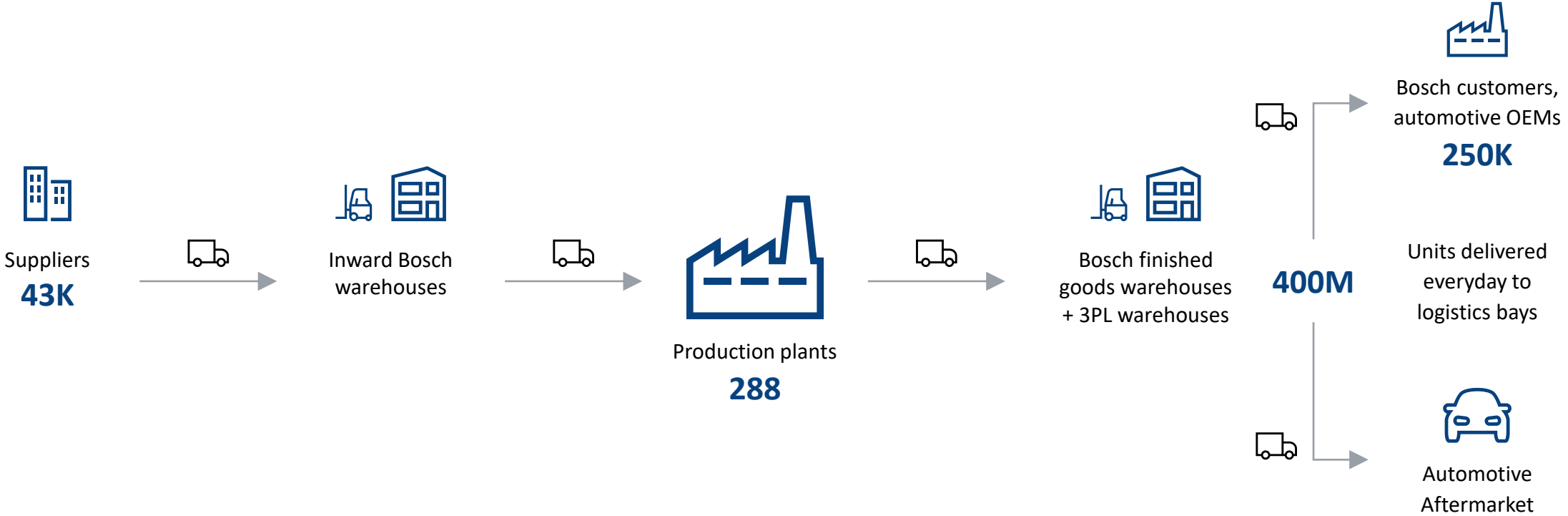
## Technology to enhance quality of life

### Driver assistance and automated mobility - Sense, think, act




# Bosch

## We are a globally operating company



 **100**  
Countries

 **42.1B**  
Purchasing volume

 **280**  
Manufacturing sites

 **800**  
Warehouses worldwide

# Optimizing a supply chain starts with traceability

\$1.5T

American businesses spend every years on shipping logistics, almost 8% of US GDP<sup>1</sup>

69%

Best-in-class businesses have on-line visibility into in-transit shipment status<sup>2</sup>

60%

Best-in-class businesses have end-to-end supply chain data, process, and distribution visibility for decision making<sup>3</sup>

# Bosch

## Market and supply chain challenges we faced



**1,000**  
unique parts

**17**  
OE customers

**18,000**  
dealers

**21**  
warehouses

**550,000**  
SKUs / month


**126,000**  
inventory buffer

**4** logistics  
service providers


**25,000**  
trips / month

**20%**  
premium freight trips

**\$** High penalties charged due to standstills in JIT production

 Skewed inventory levels reduce efficiency and increase holding costs

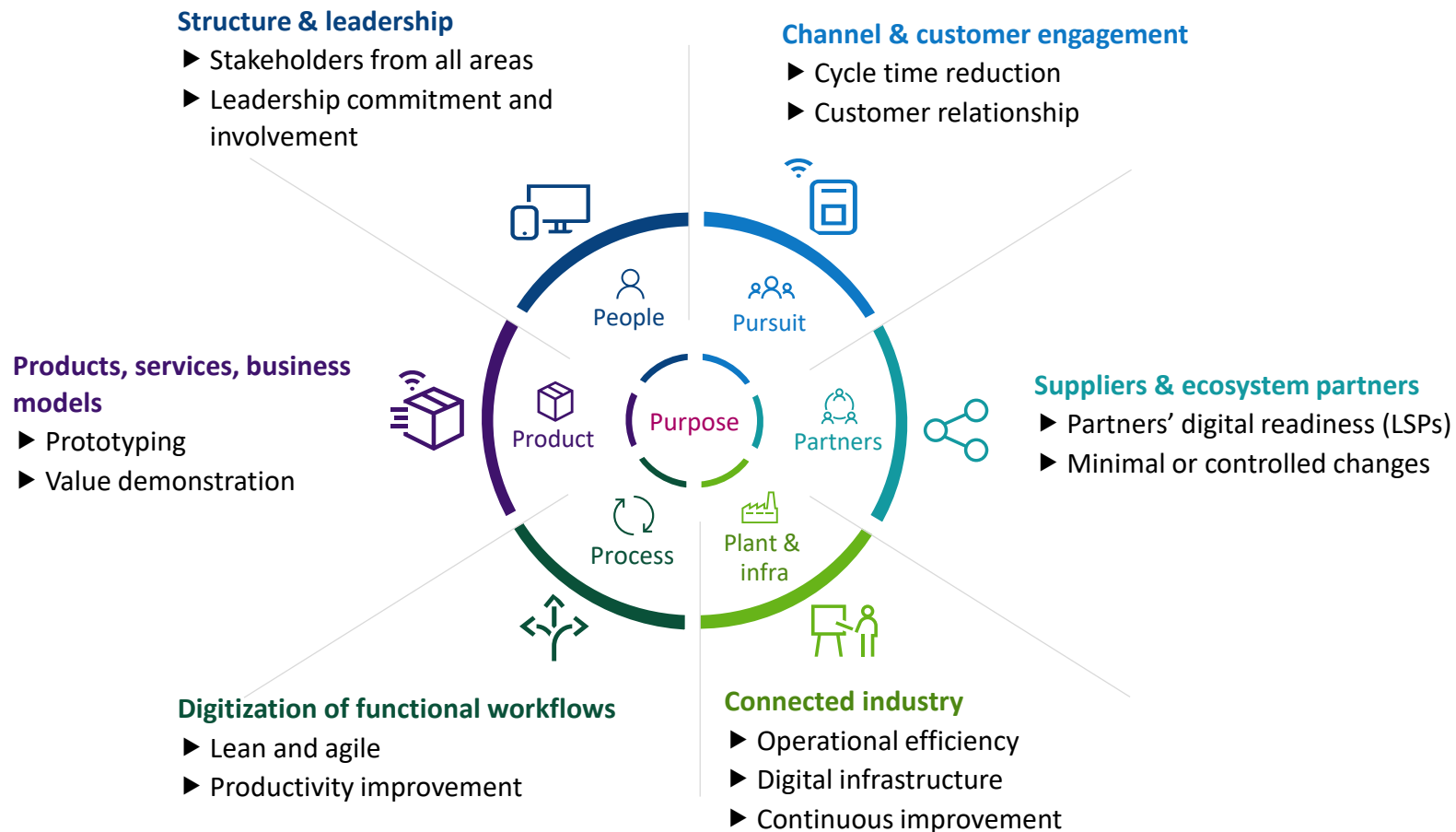
**\$** High costs sustained in loss of bins every year

 Lack of visibility and limited capability to locate parts



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## #JumpStartDigital



### Purpose:

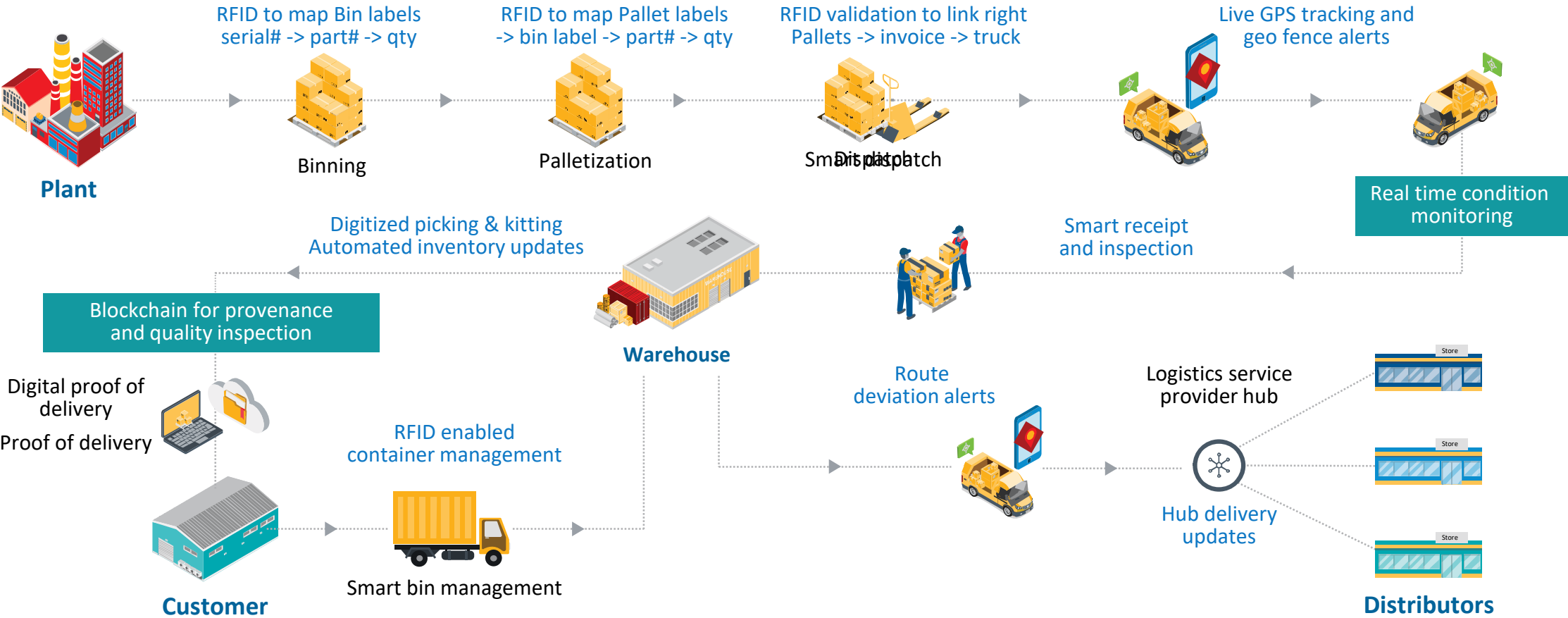
Ensure delivery of right parts in the right quantity at the right time, Every time!



P7 framework

# Bosch

## String it all together, an integrated value chain



# Trac360 – Azure platform for traceability

## Over a period of two years

### Harnessing Azure services

Enable granular tracking of goods, carriers, and processes across the supply chain



<b>02</b> Plants	<b>05</b> Warehouses	<b>17</b> OEMs	
<b>1000</b> Parts	<b>12M</b> SKUs	<b>25000</b> Trips	<b>18000</b> Dealers



**100%** On-time delivery since rollout



**10%** Reduction in warehouse inventory

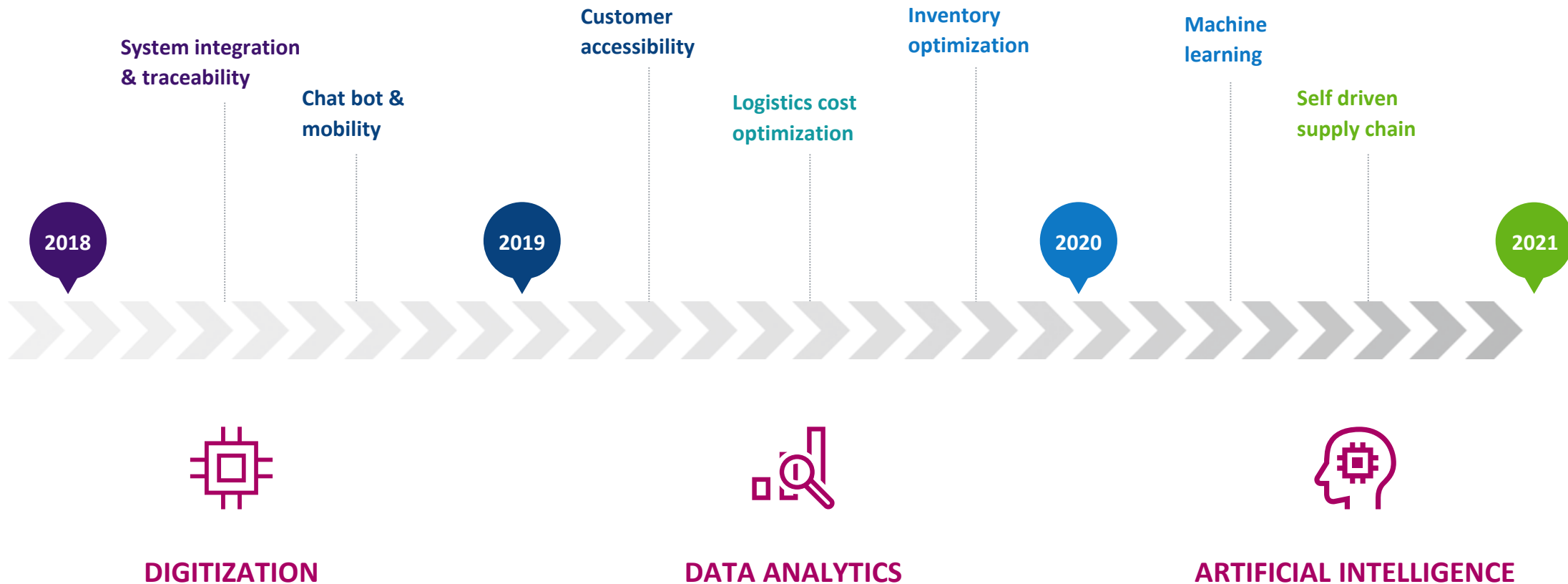


**30%** Reduction in premium freight expenditure



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## Trac360 continues to evolve





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## Bosch Trac360 Platform



Bosch Trac360 is an innovative IoT platform to enable customers to track and smartly manage the shipment of their parts and products in real-time, using integrated technologies.



