

Supply chain digitisation: improving efficiency, agility and customer experience

Supply chains all over the world are joining the digital movement.

With the advent of technological advancements, a new interest is developing for innovative solutions to be integrated into daily operations, to solve some of the everyday problems manufacturers face.

From inconsistent forecasting to lack of transparency, unorderly flow to siloed autonomy; the supply chain is subject to a host of challenges with the potential to disrupt, delay, and ultimately lose customers.



businesses report that organisational siloes and legacy systems were the

top impediments¹



say that the number of entities in the supply chain has increased in

the past 3 years²



agree that discrepancies between supply

chain entities

have increased³

Traditional supply chains are evolving toward a more connected, smart, and highly efficient ecosystem.

Digitising has the potential to increase visibility as well as agility, and enable businesses to anticipate problems ahead of time. A proactive response ultimately means that businesses can answer customer demand quicker, and is a major area of focus for businesses across the manufacturing spectrum:

Automotive (20%) and Electronics (14%) have the largest share of digital champions. Consumer goods (6%), Industrial manufacturing (6%) and Process industries (6%) are lagging significantly behind.4

The 8 key elements of supply chain digitisation

Manufacturers that can coherently piece 8 eight elements together can expect to realise significant benefits; from improved flexibility, efficiency and customer service, to reduced operating costs.



Integrated planning and execution - by seamlessly connecting all parties involved, businesses can manage unplanned disruption, and cut costs through process automation and execution.



Logistics visibility - Constantly updated and reliable transportation information can reduce workloads and improve customer satisfaction.



Efficient spare parts management - dramatically reduce spare parts inventories and costs. Customers will experience greater uptime for critical equipment, since issues are anticipated and parts arrive much quicker.



Advanced and prescriptive supply chain analytics can provide decision making support to supply chain managers, even acting autonomously on simple decisions to actively modify the supply chain.



Procurement 4.0 - digitising procurement can significantly alter the talent and tools needed and transform the the procurement function leading to lower costs and faster delivery throughout the chain.



improve safety and efficiency by automating all warehousing activity.



robotic innovations will increase roles in transporting goods; resulting in faster and more reliable deliveries, reduced labour costs, human error, and emissions.



determined, companies must implement key capabilities to execute including: processes, organisation and skills, performance management, partnering, and technology.

Revenue and cost saving potential Using the 8 key elements as a guide to better connecting their supply chains, manufacturers

can improve efficiencies - translating into higher sales volume and cost savings:

supply chains can expect efficiency gains of 4.1% annually, boosting revenue by 2.9% a year⁵

Companies with highly digitised

organisations is outpacing nonintegrated companies by 20%6

Revenue at "fully integrated"



by more than 9%, market valuation by more than 12%, and profitability by over 26%7 UK manufacturers expect to

Companies embracing digital

strategies are boosting revenue

solutions by 2023

digital content, services and

double income from

The main aim of digitising the supply chain is to create transparency for all

parties involved.

Time gains

It not only results in cost saving, but it also enables businesses to respond

quicker in real time and speed up

processes across the chain; ultimately improving the customer experience.



increases just in time sourcing and reduces order-tostock¹⁰

chain digitisation



decentralised warehousing in order to shorten delivery times¹¹

expect digitisation

to lead to more



using all-virtual design, reducing time to market by more than **50%**12

recent airframes

logistics and inventory management. Information exchanged rapidly also boosts the agility of the entire chain, enabling much closer integration with customers.

Big Data benefits

Integrating data across the entire supply chain can significantly reduce delivery lead times, and optimise

72% of businesses say that 45% expect to see big data is capable of delivering improvements in batch strong improvement effects in

52% supply chain managers see clear reductions in outbound inventory through Big Data analytics14

the supply chain over the next

three years¹³

player



43% expect to see reduced supply chain management risk through Big Data analytics¹⁶

size optimisation through

Big Data analytics¹⁵

Technology as a key

of supply chain

technologies are driving digital trends for supply chain transformation.

New solutions are developing at a

From cloud services and sensors to

Big Data and nanotech, advancing

industry on multiple fronts:

fast-pace, disrupting the manufacturing

Today's supply chains are multi-faceted and extremely complex. While digitisation is no easy feat, manufacturers who want to compete on a global scale and secure future success must start implementing

these changes now. Those that get there first will gain a competitive edge in the race to Industry 4.0, unlocking many opportunities along the way to realise new business models and potential revenue streams.

professionals are investing in Big Data technology - ahead of cloud-

73%

based apps at 63%, IOT at 54%, blockchain at

65%

of supply chain

from supply chain

digitisation in the

to see strong

next 3 years²¹

supports local and international companies in retail, wholesale distribution, manufacturing and service with their digital transformation journey. The foundation for this is Microsoft Dynamics 365: A complete platform of CRM, ERP, Office 365 and BI software. HSO takes care of the implementation, optimisation and 24/7 support of these cloud solutions. HSO

times¹⁹ 51%, and machine learning at 46%¹⁸

45%

of supply chain

managers see

ePlatforms

as playing a

their supply

80% executives driver of



and data to offer significant, high, or very high potential for improvements²⁰

+80%

of supply chain

the integration

of IT systems

managers expect



consider digital manufacturing and design to be a critical competitiveness²²



implementing autonomous robots as a top priority between 2017 and 2020²³

¹Air Cargo News ² ⁸ ³MPO ⁴PWC ⁵Strategy & PWC ⁶Cerasis ⁷IRMS 360 ⁸PWC ⁹CapGemini ¹⁰Cerasis ¹¹At Kearney ¹²McKinsey ^{13,14,15 & 16}At Kearney

¹⁷Cerasis ¹⁸Supply Chain Digital ^{19,20 & 21}At Kearney ²²Forbes ²³Cerasis



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