



The 7 biggest trends in automotive manufacturing

UK automotive industry output is set to increase to two million vehicles a year by 2021, challenging not just the capacity to produce, but to manage product assortment. What issues should be front-of-mind right now, to meet the future with confidence?

1 SMMT: The future of UK automotive manufacturing in 2025 and beyond, October 2015



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COMPONENT SUPPLY

1. SUPPLY CHAIN VISIBILITY – NOT IF, BUT WHEN

“Real time data allows real time root-cause analysis and action.”

Steve Beahm, Fiat Chrysler Automobiles

- Supply chain efficiency is all
- Visibility, the only way to manage the complexity
- Manage process time via just-in-time
- Incorporate full track and trace

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COMPONENT SUPPLY & IN FACTORY

2. ADAPTING BEST PRACTICE

“How does the industry adopt best practices of the factory of the future when it cannot necessarily justify or afford to invest in new factories?”

SMMT: The future of UK automotive manufacturing in 2025 and beyond

- Embrace new materials and models
- Operate sustainably
- Address people skills and standard operating procedures
- Automation and HMI (human machine interface) is central to meeting capacity needs

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IN FACTORY

3. IN-PLANT TECHNOLOGY AND INNOVATION DRIVES CHANGE

“As value chains shift and data eclipses horsepower, the industry’s basic business model could be transformed.”

McKinsey: A road map to the future for the auto industry

- Adoption of cyber-physical models such as IoT
- Cloud technologies and simplified big data
- Alignment of people, processes and technology via HMI
- Connectivity and integration throughout the supply chain

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IN FACTORY

4. FUTURE-PROOF WORKING

“As shared mobility solutions with shorter life cycles become more common, consumers will demand upgradability in privately used cars.”

McKinsey: Disruptive trends that will transform the auto industry

- Predicting capacity amid continual change
- Proactive upgrades
- Managing uncertainty
- Profit from shorter life cycles

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IN FACTORY & FINISHED GOODS

5. MANAGING RISK, REGULATION AND BRAND

“There are four disruptive technology-driven trends: diverse mobility, autonomous driving, electrification, and connectivity.”

McKinsey: Disruptive trends that will transform the auto industry

- Technology will manage recalls
- Risk of outsourcing intelligent and connected development
- Data-rich vehicles and hacking
- Fuel regulations will force change

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FINISHED GOODS

6. CUSTOMER DEMAND WILL DRIVE CHANGE

“Premium vehicles will account for 54% of production by 2020.”

SMMT: European Car and Light Commercial Vehicle Production Outlook suite

- Premium model production
- Build to order
- Managing product assortment
- Predictive maintenance

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BEYOND

7. CONNECTED VEHICLES DRIVE INTELLIGENT, ONE-TOUCH LOGISTICS

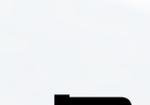
“The UK connected car market will be worth up to £51 billion annually by 2030.”

KPMG: Connected and Autonomous Vehicles – The UK Economic Opportunity

- Autonomous vehicles and radical product redesign
- Supply chain moves in-car
- Visibility from plant to smart port to user
- Automotive connectivity and cyber security

The Zebra factor

- Driving visibility
- Enabling efficient management of product assortment
- Saving time and money
- Optimising output and efficiency



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1 Find out more at www.zebra.com/tc8000

2 Find out more at www.zebra.com/tc51

3 White Paper: The advantages of multi-modal speech-directed solutions. Read the full WhitePaper [here](#)