

Industry 4.0 - The Increasing Adoption of Automation & Smart Manufacturing'

Keith Thornhill Head of Food and Beverage UK & I

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UK Food & Beverage Industry Facts







Over 7000 Businesses 95% SME's

Largest UK Manufacturing sector £100bnTurnover 18% of the UK's Total Turnover





Consumer Expenditure £200Billion



Only 15% of the sector is automated to sufficient levels

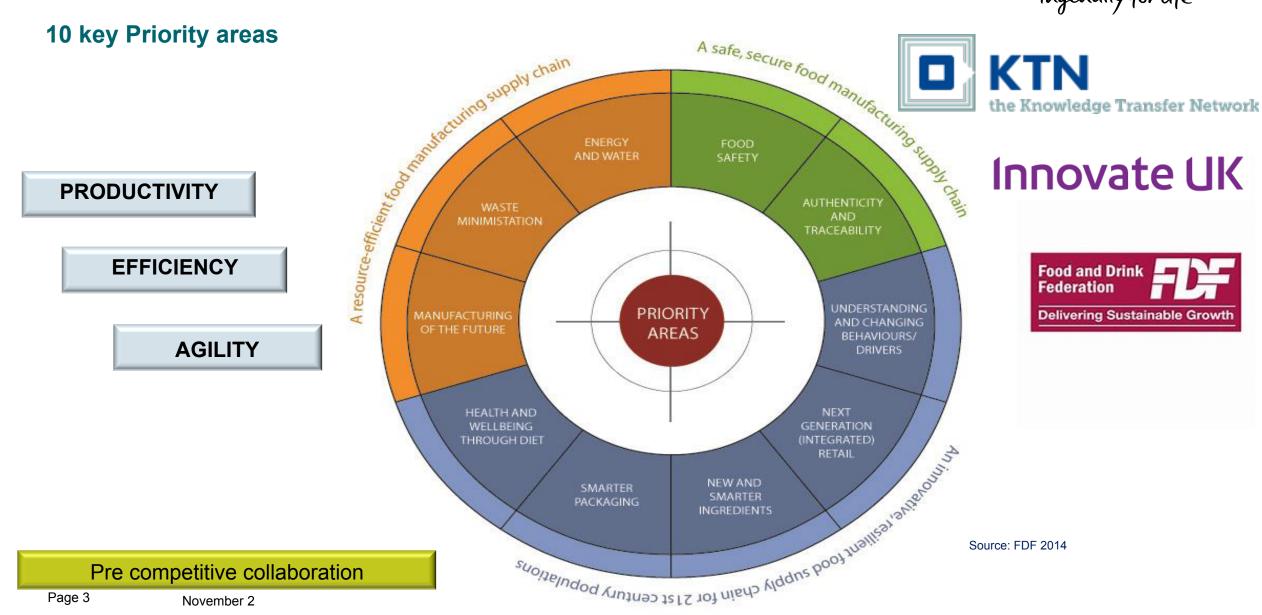


1.35Billion meals per week

Up to 400,000 Employees 16% of Total Manufacturing workforce 38% overseas workers

Sustainable Growth through Innovation





Increasing the sectors Productivity



	FOOD AND DRINK	VALUE LEVER DESCRIPTION	VALUE TO INDUSTRY (£ BN)			
		Revenue growth through new revenue streams	£3	£3.2		
		Cost reduction through digitally enabled R&D	£0	£0.5		
		Cost reduction through digitally enabled manufacturing and asset maintenance		£13.2		
	MADE Smarter	Cost reduction through digitally enabled supply chain management		£1.1		
		Cost reduction through automation of labour			£24.7	
http://industrialdigitalisation.org.uk		Cost reduction due to increase in resource efficiency			£13.2	
p.// II		Total value to industry	⊷£3	3.2 1	£55.8	

Driving Productivity for the Sector



The Food & Drink Sector Council



Food and Beverage Manufacturing



Productivity

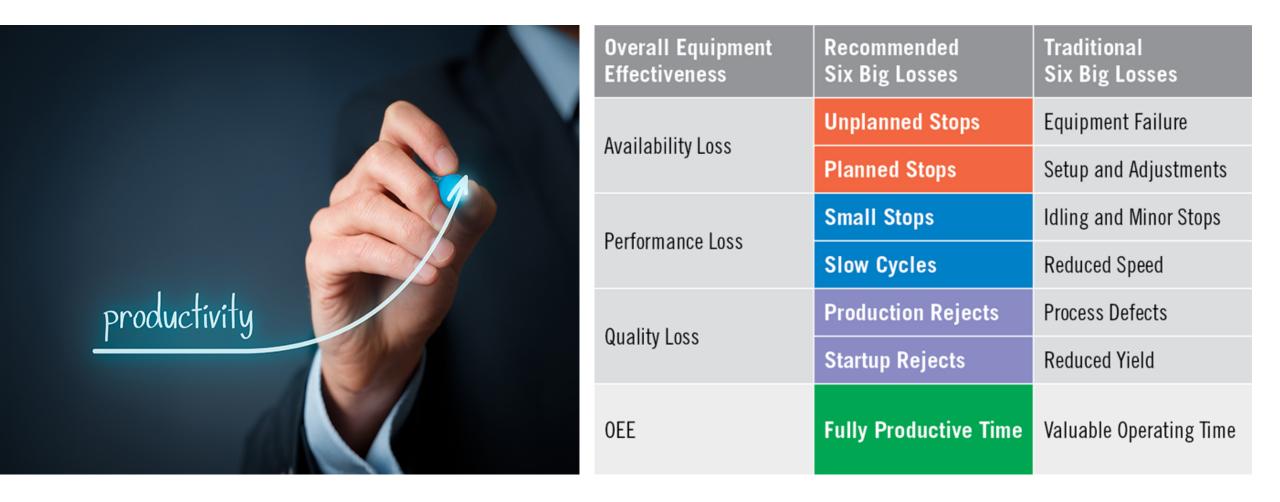
Efficiency

Agility

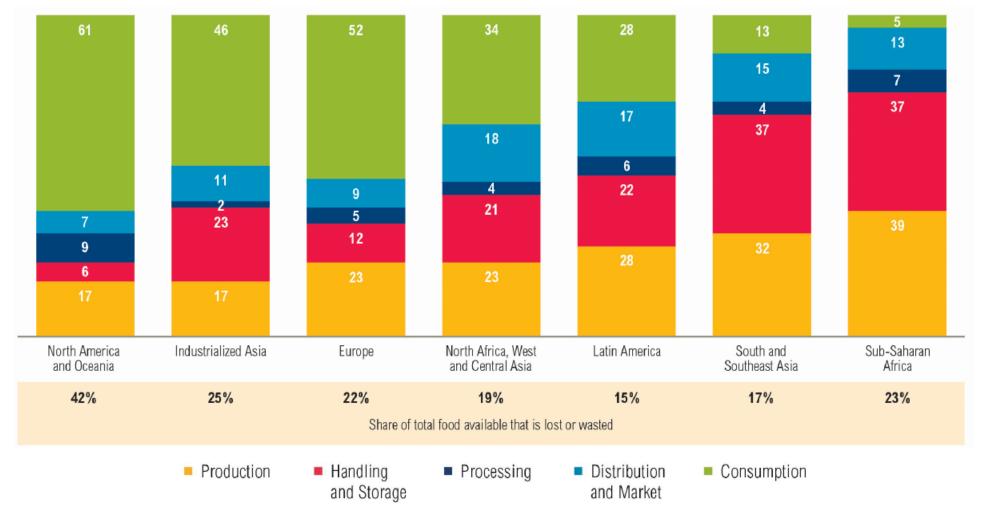


Productivity - OEE





Food Waste



Source: Food and Agriculture Organisation

Manufacturing Agility – Not for the Food and Drink Industry !



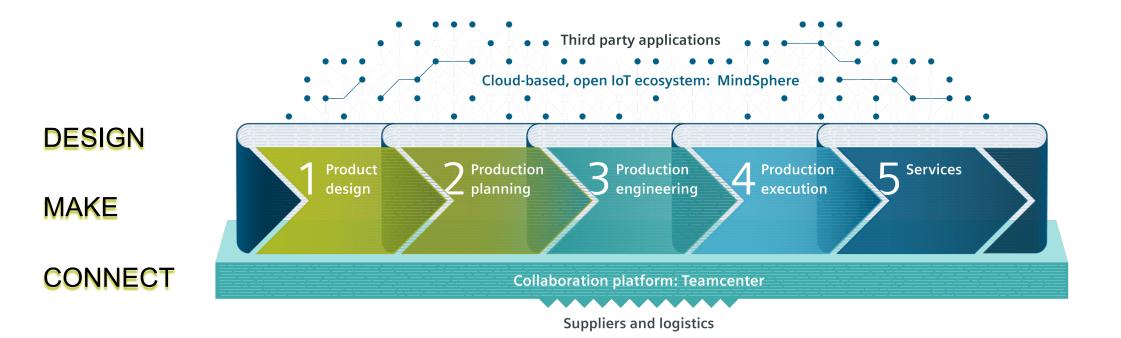
Diglia Isaion

changes everything

estricted © Siemens AG 2010



The Internet of Food Things



New Automated Processes



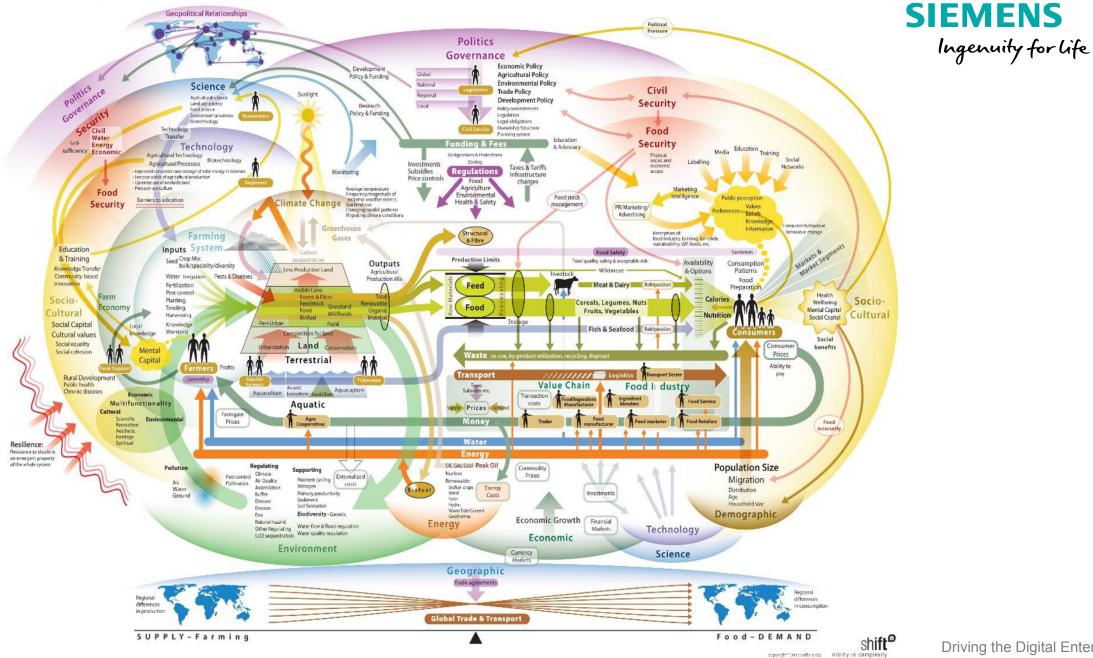


 Greater requirement for robotic picking, Packing and Plucking machinery

•Flexibility to work collaboratively around the clock

- Real time data monitoring
- Predicting the unpredictable

Collaborative Innovation



Thank you for your attention!



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