Top tips for Agri Food Tech KE

Professor Simon Pearson
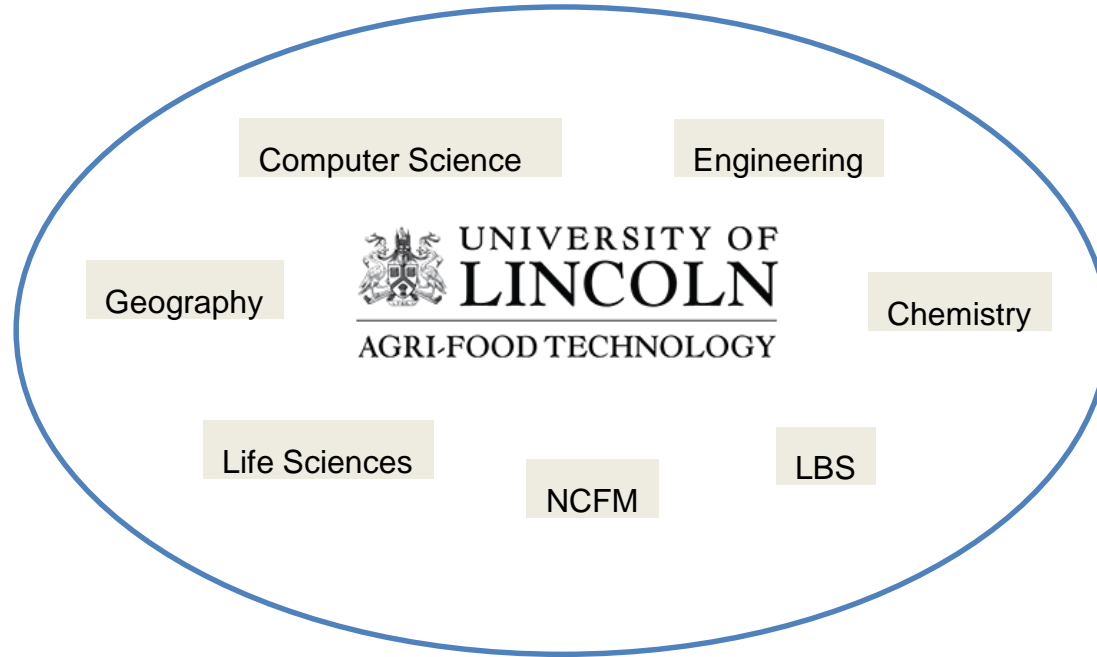## The University of Lincoln

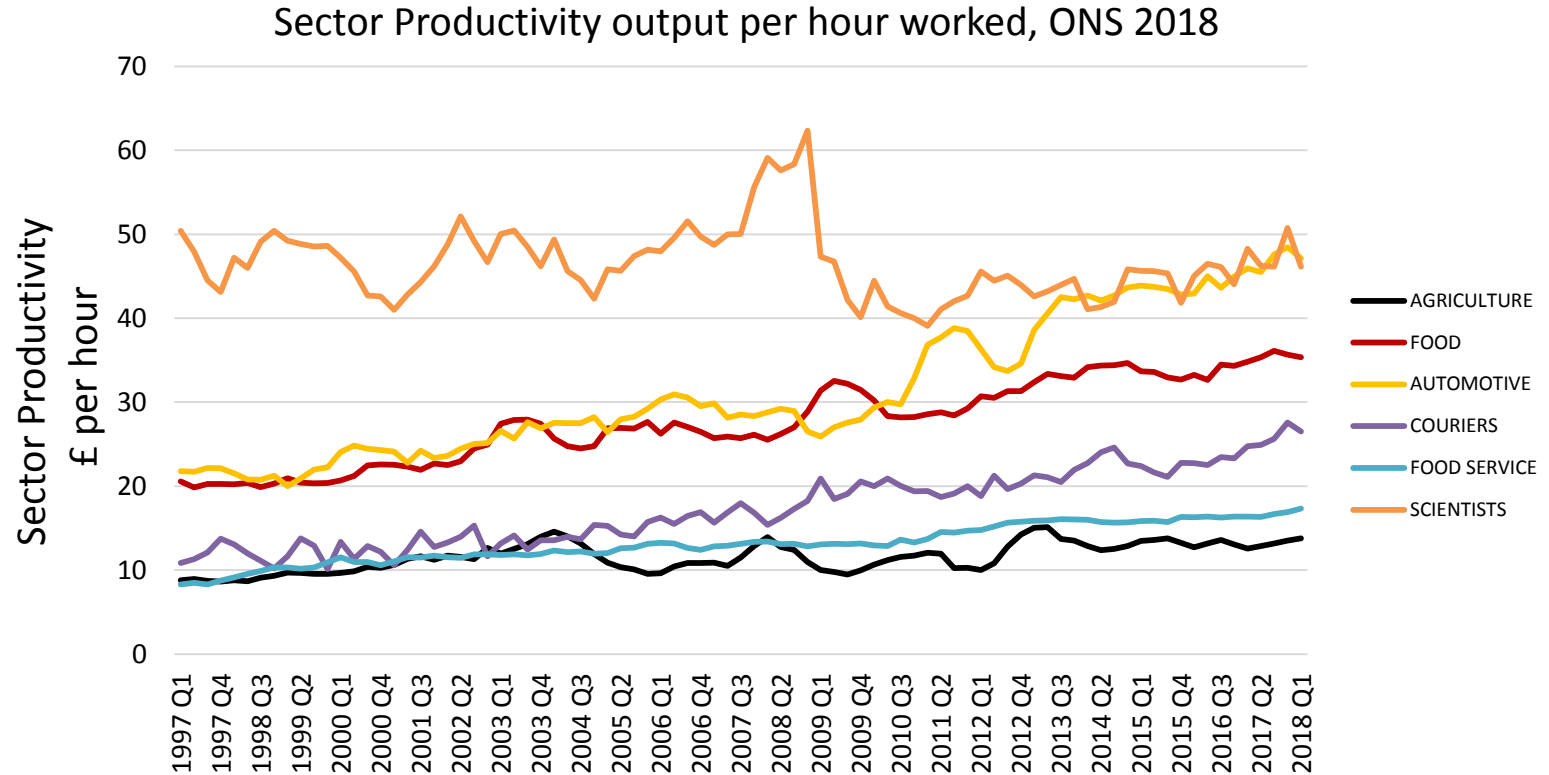# 1. Start with a clear plan and stick with it……

The Vision for LIAT

"A global centre for agri-food research, innovation and training, world ranked in 5 years"

"A cross disciplinary organisation that inter connects the University to key agri-food challenges, and delivers impact"

2. Work with an interdisciplinary team, with industry experience

3. Understand what industry wants

Sector Productivity output per hour worked, ONS 2018

3. Understand what industry wants

UK-RAS NETWORK
ROBOTICS & AUTONOMOUS SYSTEMS

Agricultural Robotics:
The Future of Robotic Agriculture

www.ukras.org

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4. Speak their language….size opportunity

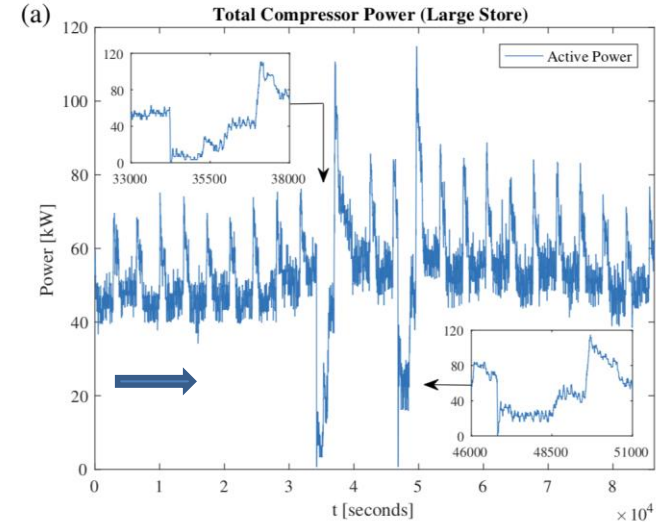**VALUE AT STAKE FOR THE FOOD AND DRINK INDUSTRY IS ESTIMATED TO BE £55.8BN BETWEEN 2017-2027**

VALUE LEVER DESCRIPTION	VALUE TO INDUSTRY (£ BN)	VALUE TO INDIVIDUALS	VALUE TO SOCIETY
Revenue growth through new revenue streams	£3.2	• £2,266 saving per household due to improved waste management • 25% increase in product satisfaction related to customisation of products	• 32 million tCO₂e reduction throughout the food supply chain in 2027[1], due to more efficient production processes and reduction of waste. This represents a 29% reduction in overall food emissions in the UK • 17.6 mn tonnes of food waste reduced over the next decade • An estimated 27,370 injuries avoided over the next decade from implementation of digital technologies • Potential to reduce the number of food poisoning cases by up to 4.5m through better traceability in the supply chain and monitoring of shelf life
Cost reduction through digitally enabled R&D	£0.5		
Cost reduction through digitally enabled manufacturing and asset maintenance	£13.2		
Cost reduction through digitally enabled supply chain management	£1.1		
Cost reduction through automation of labour	£24.7		
Cost reduction due to increase in resource efficiency	£13.2		
Total value to industry	← £3.2 £55.8		

1) Reduction of emissions is not presented as a cumulative figure, rather as the reduction saving potential in 2027

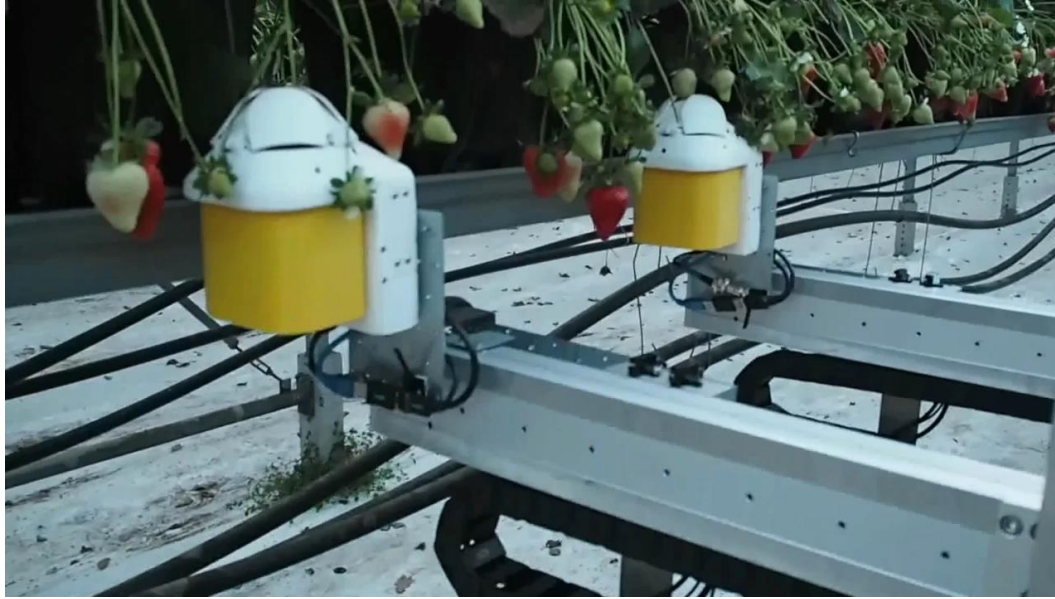UNIVERSITY OF
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5. Deliver: Internet of Things Platforms

Food refrigeration and IoT

5. Deliver: Robotics

5. Deliver: Artificial Intelligence

Spot the locust….Deep Learning now as accurate as humans

6. Network, Network and Network