Agriculture, Al and Robotics

Professor Simon Pearson HonFRASE Director, Lincoln Institute of Agri-Food Technology The University of Lincoln





Queen's Anniversary Prize Winners!



University of Lincoln

Innovation in agri-food technology

Innovations in agri-food technology including the development of robotic systems in harvesting crops, use of AI to support farming businesses in accessing global markets, and education programmes supporting labour supply, leading to improved productivity, efficiency and sustainability in rural economies.

Dystopian or utopian agriculture?





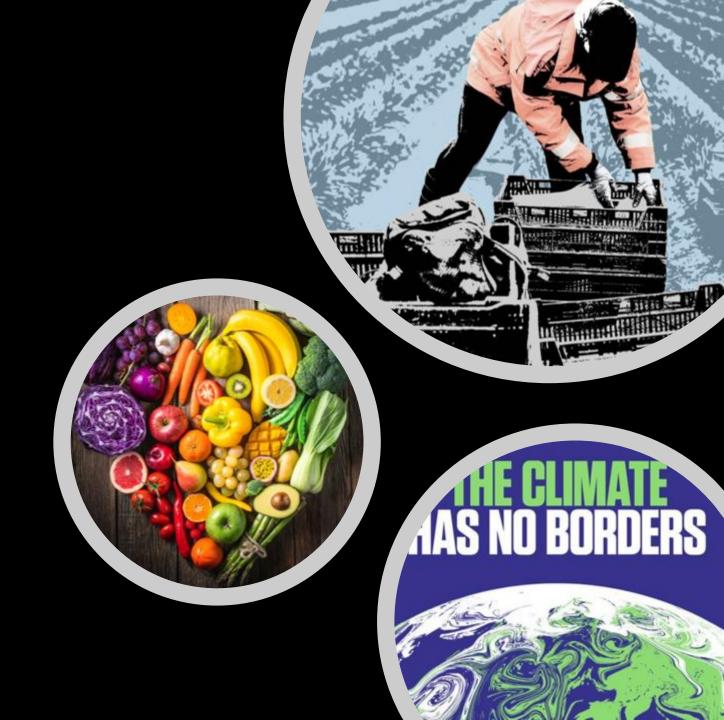
Watch out Gardeners Question time...

Chat GPT Question....

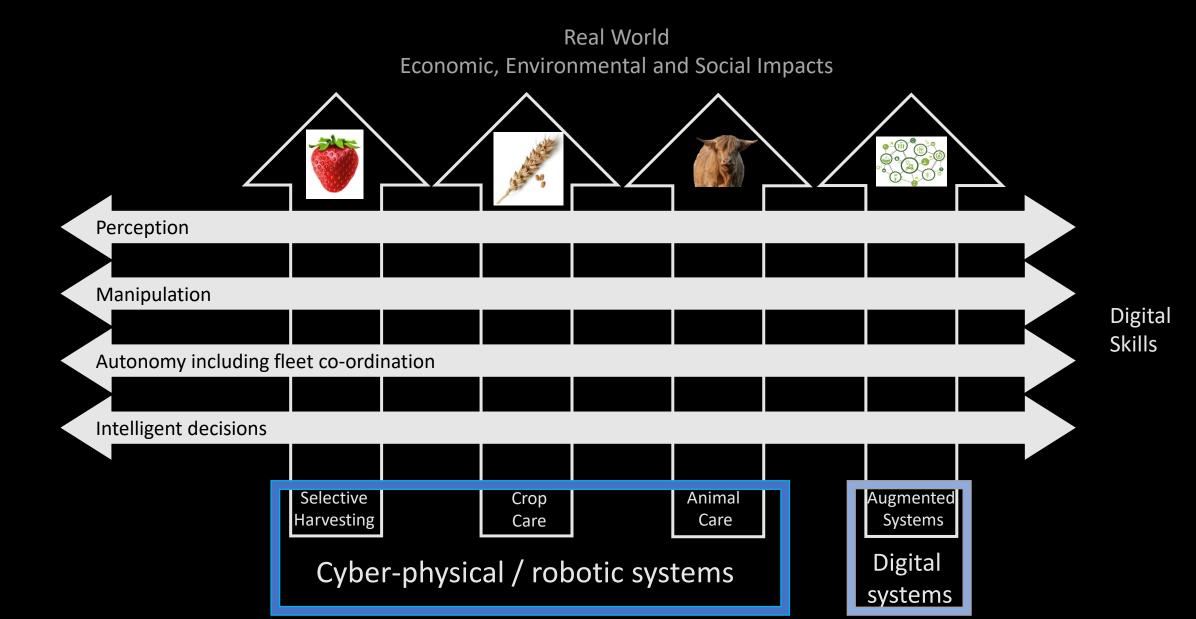
- Q. I have a grey mould on my strawberry, what is it? and how do I treat it?
- A. Grey mould on strawberries is most likely caused by a fungus called Botrytis cinerea. This fungus thrives in cool, damp conditions and can be a common problem in strawberries, especially if the weather is humid. Here's how you can identify and treat grey mould on your strawberries......



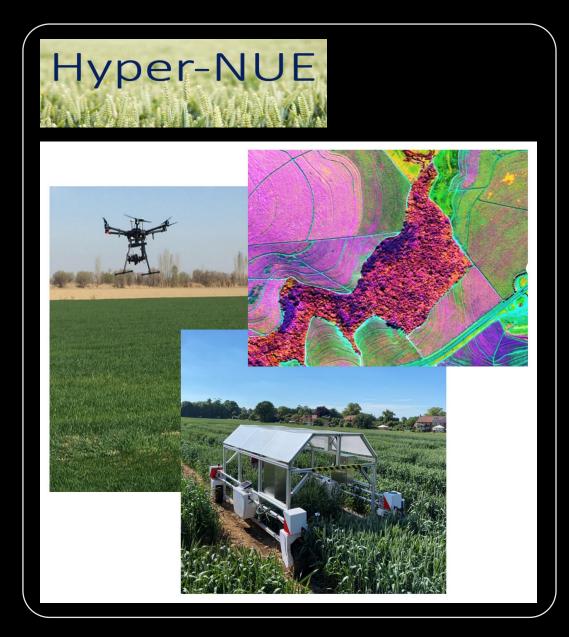
So much for Dystopia... The world is changing and fast...where can robotics and Al help?

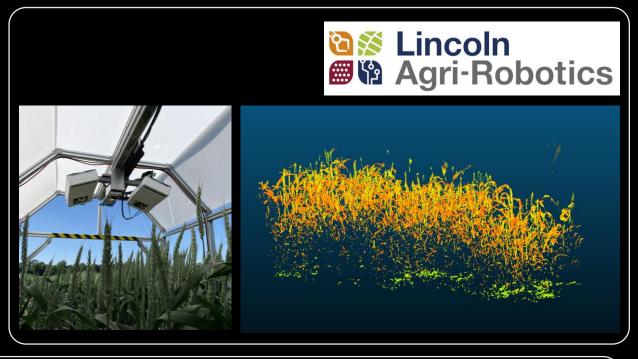


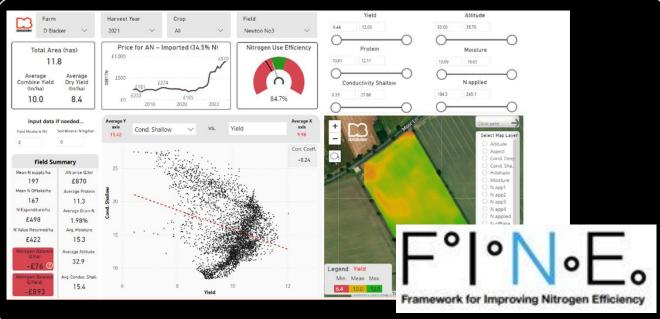
Agriculture operates within the physical world...



Increased focus on crops...







THEHOUSE

Artificial Intelligence Should Make Us Rethink Our Skilled Migration Policy

Comment from George Eustace

A student of agriculture...



Ellamo A



George Eustice MP

4 min read 30 June

We must use the advent of AI to update our outdated view of "skilled" work, as the current policy is leading to labour shortages and fuelling inflation.

"Developing a strawberry picking robot more complex than building one to catch a cricket ball"



Technology alone is not the panacea





Independent report

Automation in horticulture review

Published 27 July 2022

Recommendation 1: Defra should consider pursuing a long-term Seasonal Workers Scheme for edible and ornamental horticulture starting in 2022

Recommendation 2: Defra should consider convening a consortium that brings together UK government departments, horticulture industry and technology companies to drive significant adoption of available and proven technologies by growers

Recommendation 3: Defra should consider launching a robotic crop harvester mission to fast-track innovative research and development of systems currently in the 'valley of death'

Green shoots..... Starting signs of adoption on farms......







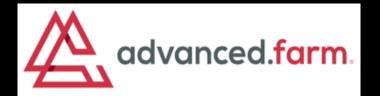
British innovators and top investors announced for Global Investment Summit













We can contribute.....EPSRC PBIAA















Will the robots take over......Artificial General Intelligence (AGI)?







What the robot thinks...a General Election is coming

Final word...a robot...! Will they take over in 5 years?

"While automation and robotics will continue to play an increasing role in agriculture, it will likely be a gradual process, and it may take more than five years for them to significantly transform the industry. Farmers and agricultural businesses will adopt these technologies as they become more practical, cost-effective, and well-suited to their specific needs. Human labour will likely remain an integral part of agriculture, complementing automation to improve efficiency and productivity."