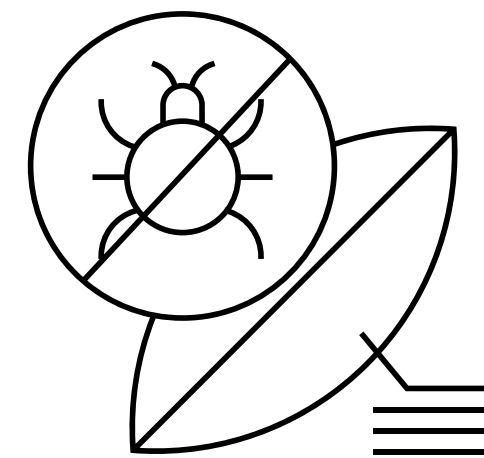
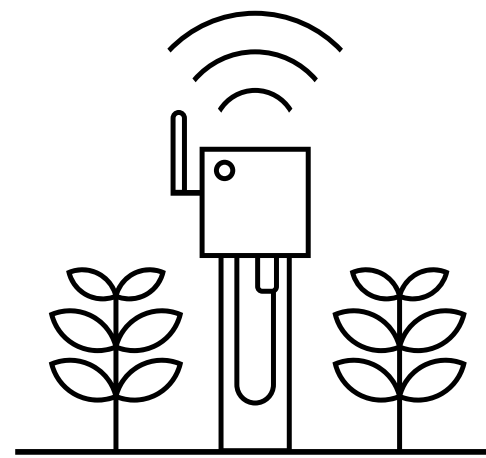


AGRITECH **F1.0** N

Plant. Grow. Innovate.



OCTOBER 9TH- OCTOBER 11TH 2020 VIRTUAL EVENT

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Europe
South Asia
United Kingdom





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Introduction

From the British Agricultural Revolution of the 18th century to playing a fundamental part in the Green Revolution of the 1960s and 70s, the UK is no stranger to agricultural innovation in evolving, growing and implementing revolutionary methods to increase productivity, drive efficiency and maximise yields.

With the termination of the EU's Common Agricultural Policy, new agricultural initiatives are driving and making it easier for the industry to embrace AgriTech, to enable innovation, and transform the agriculture, horticulture and forestry sectors.

There is now, and will continue to be, more opportunities for investment in the excellence of the UK AgriTech sector to grow new businesses and export overseas.



Programme



Day 1 - Friday 9th October

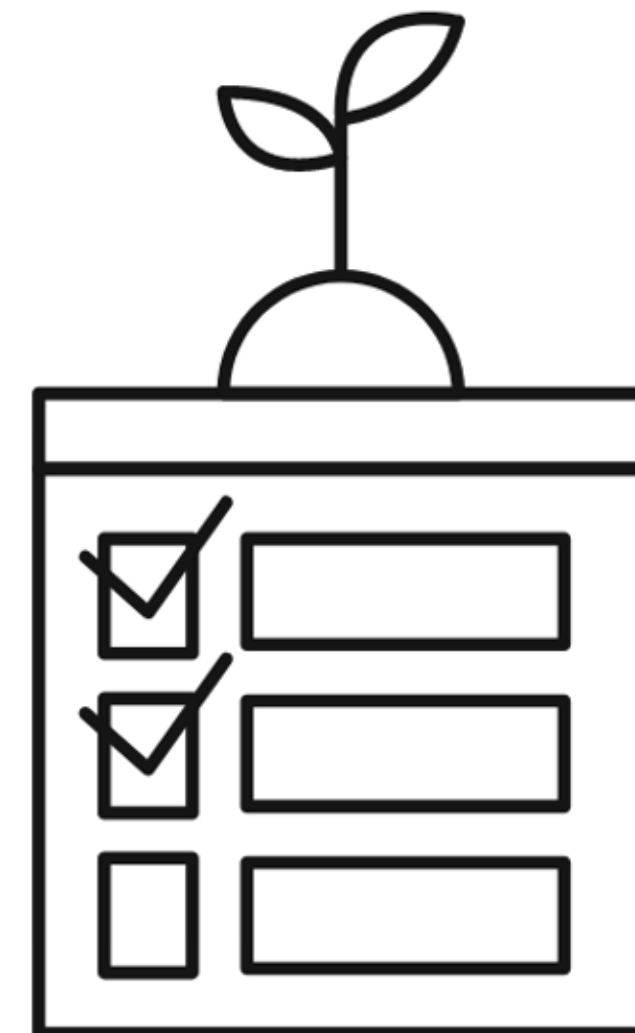
- 19:00 - Official Launch
- 19:30 - Final Team Formation
- 20:00 - Challenge Brief
- 20:30 - Intro to Judges & Mentors

Day 2 - Saturday 10th October

- 08:00 - Idea Keynote
- 08:30 - Idea Generation
- 09:00 - Hacking Begins
- 12:00 - First Checkpoint
- 13:00 - Hacking Continues
- 15:00 - Mini Coding/Marketing Challenge
- 18:00 - Second Checkpoint
- 19:00 - Workshop – How to Build a Personal Brand
- 20:00 - Hacking Continues

Day 3 - Sunday 11th October

- 09:00 - Workshop - Pitch Perfect
- 10:00 - Mentor Sessions
- 12:00 - Final Demos
- 15:00 - Jury Deliberation
- 16:00 - Winner Announcement
- 16:30 - End of Hackathon





INTRODUCING THIS YEAR'S **CHALLENGES**

#Agritechathon

The Challenges

In order to overcome the critical challenges that the UK agricultural industry faces and to ensure food security for an increasing population, companies and farmers, as well as their plants, need to be more innovative and resilient.

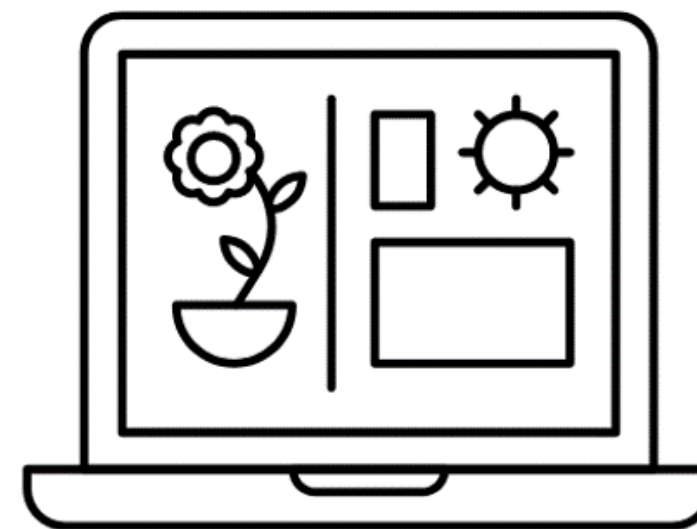
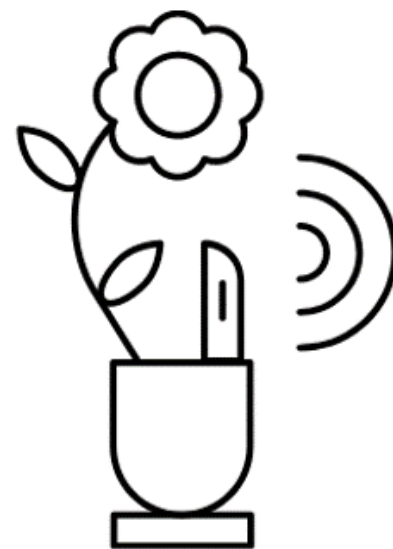
AgriTech Innovation On The Farm

Smart/Precision/Vertical Farming

3D Printing, AI, Automation, Data, Drones, IoT, Robotics & Satellites

Agri BioTech

Soil Productivity





CHALLENGE 1

AgriTech Innovation - Redefining one of the world's oldest sector with great ideas.

Intro

Innovation within AgriTech is an essential pillar in the protection of the Earth's natural resources. Technology at the heart of the agricultural sector will change the dynamics of the industry. Disruptive ideas are the keys to an industry growth and adaptation to its time and future needs.

A continuously evolving land needs a new strong foundation to re-structure the way produce is grown currently. The aim is to implement agricultural technology in production to improve yield, efficiency, waste reduction and the maximisation of profitability.

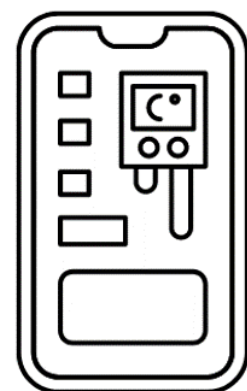
Challenge

How can we use and enhance technology with the aim of improving yield, efficiency, waste reduction and the maximisation of profitability?

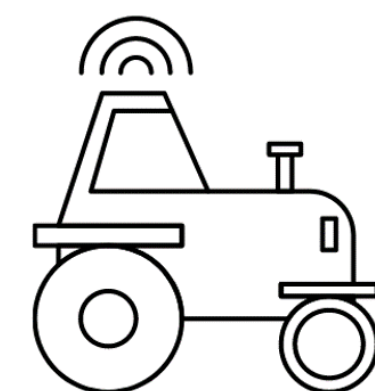
What products, services or applications can be implemented to improve various processes on the farm and in the digitalisation of the supply chain?

How can we implement new techniques in the current agricultural sector in a sustainable way?

Solution Outcome



Create and plan a digital solution that is directed at providing a clear benefit for the agriculturalist, the crop or the consumer. This can take the form of a broad agricultural issue or a niche topic.



CHALLENGE 2

Agri BioTech - Disruptive ideas, combining biology and technology, to change our biodiversity



Intro

Biotechnology perfectly embodies the alliance between life science and the technologies from various other disciplines, such as Physics, Chemistry, and IT; and has created a significant impact in the agricultural industry over the years.

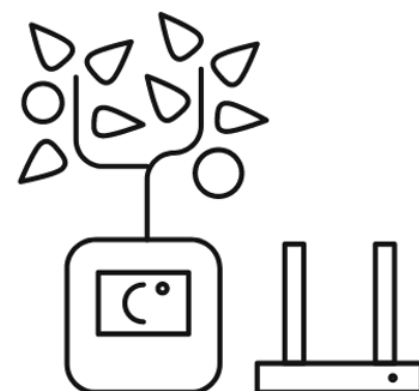
Its weight in the world economy doesn't cease to increase. By 2030, an estimated 50% of the world's agriculture would depend on it so... let's get hackin'!

Challenge

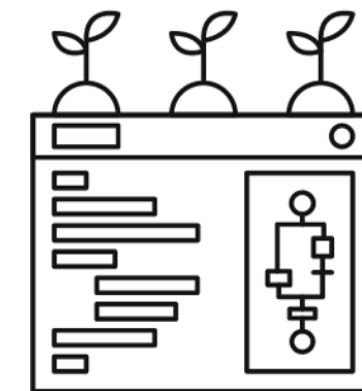
How can we further develop the scientific techniques used to improve plants, animals and microorganisms to provide farmers with the tools and disciplines that can increase production, make it cheaper and more manageable?

What can be done to continue using molecular science to build up natural resistances to certain diseases, whilst ensuring our safety?

Solution Outcome



Create and develop a model of a Biotech innovation that meets industry standards and can help farms stay sustainable.



CHALLENGE 3

Smart/Precision/Vertical Farming – 3D Printing, AI, Automation, Data, Drones, IoT, Robotics and Satellites



Intro

Smart Farming is laying the foundation for a “third green revolution”. Farmers have already begun employing some high tech farming techniques and technologies in order to improve the efficiency of their day-to-day work.

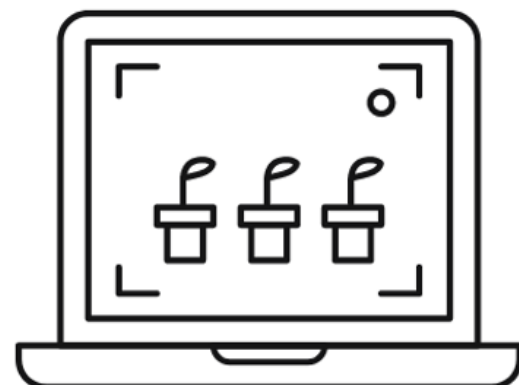
This type of high-tech farming is growing in importance due to the combination of the expanding global population, the increasing demand for higher crop yield, the need to use natural resources efficiently, the rising use and sophistication of technology and the increasing need for climate-smart agriculture. Smart agriculture and precision farming in the farming world are taking off and they need *you* to push the limits even further.

Challenge

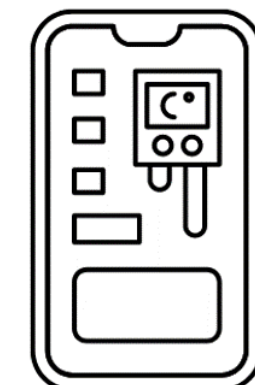
As the digital and connected world continue to expand with new and ongoing technological innovations, such as leveraging the cloud, big data, satellites, the Internet of Things (IoT), drones, 3D printing, artificial intelligence (AI), robotics and automation solutions; how can the agricultural industry further adopt these new technological advances to increase productivity and efficiency whilst protecting the environment?

By applying a holistic approach to agricultural innovation through adopting and combining smart technologies, what can we do to elevate a new generation of Smart Farming?

Solution Outcome



Using 3D Printing, AI, Automation, Data, Drones, IoT, Robotics and/or Satellites, plan and construct a way for farms to better manage and/or enhance their crops and yield.



CHALLENGE 4

Soil Productivity - Pushing innovative ideas into the ground... literally.



Intro

If our current farming techniques stay the same, 30 years from now, the UK will experience a “fundamental eradication of soil fertility”. Needless to say, healthy soil is essential and is now at the heart of the UK’s agricultural strategy.

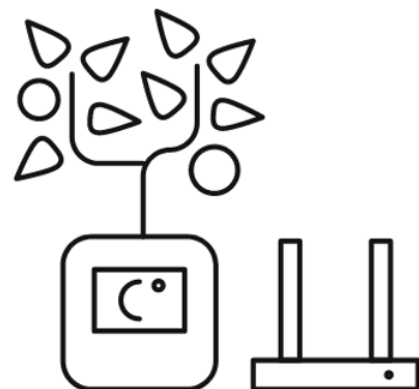
From Soil Mitigation Techniques to Soil Data Analytics, soil management and its productivity are the key to save, protect, maintain and build our most vital asset - soil.

Challenge

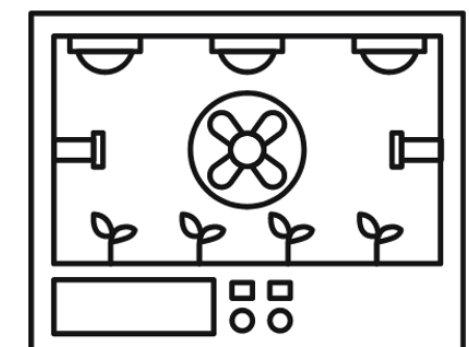
Being one of the core essences of the Earth's fertility, how can we protect, improve and enhance our current usage of soil management?

What technology and processes can aide decisions and management regarding tillage, fertilization, crop rotation, plant disease, irrigation, and drainage, as well as exploring the development and evolution of hydroponics?

Solution Outcome



Being one of the core essences of the Earth's fertility, how can we protect, improve and enhance our current usage of soil management?



PRIZES

TH.0 is supporting and offering the opportunity to empower agriculture. Each category will have its winning team with access to a variety of additional prizes to help support their project.

The overall top three all-category winners will receive a cash prize from our TH.0 incubator fund to develop your projects of:



All teams and participants will receive an event pack and goody bags to promote their involvement in TH.0's AgriTech 2020 virtual hackathon.

Each category will have its winning team with access to a variety of additional prizes to help support their project. The additional prizes consist of:

- Guaranteed entry into next year's SHAKE Climate Change Entrepreneurship Programme - donated from **Rothamsted Research**.
- Free hot desk space in our new Russell Innovation building for 3 months - donated from **Rothamsted Research**.
- Farmers Weekly Web Plus Subscription for each winning member for a full year - donated from **Farmers Weekly**
- Three month membership of Barn4 including two free desks within the new building, our full business support package, networking opportunities, access at members' rates to the laboratory and specialist facilities on our Park Farm site - donated from **NIAB**.

*Currecntly being finalised

JUDGES



Sarah Landry



Managing Director
TH.0 UK

Dr Juno McKee



Director
NIAB Ventures

Prof Angela Karp



Director & CEO
Rothamsted Enterprises &
Research

Helen Dundas



Sector Lead for AgriTech
The University of Edinburgh
& The Roslin Institute

Damian Malins



Venturing Projects Director
Fera Science

Karl Schneider



Editor & Publishing Director
Farmers Weekly

Tom Jenkins



Deputy Director
ISCF Transforming Food
Production Programme -
UK Research and Innovation

Dr Kate Pressland



Programme Manager
Innovative Farmers -
Soil Association

JUDGES



TBC



Position Reserved For AIC
(Agricultural Industries
Confederation)

Steve McLean



Head of Agriculture Sourcing
M&S Food Group

Robert Ward



CEO & Founder
ForwardFood.Tech

Dr Louise Sutherland



Director of Ceres Agri-Tech
Knowledge Exchange
Partnership & University of
Cambridge Enterprise

TBC



To be confirmed

TBC



To be confirmed

TBC



To be confirmed

TBC



To be confirmed

KEYNOTE SPEAKERS



Dr Helen Ferrier



Chief Science & Regulatory
Affairs Adviser
National Farmers Union

Prof Angela Karp



Director & CEO
Rothamsted Enterprises &
Research

TBC



To be confirmed

TBC



To be confirmed

TBC



To be confirmed

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To be confirmed

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To be confirmed

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To be confirmed

CLIENTS



SUPPORTERS



PARTNERS



Contact & Details

LinkedIn

<https://www.linkedin.com/company/th.o>

Slack

<https://app.slack.com/client/T014AE9EWF3/browse-channels>

Telegram

<https://t.me/THVirtualHackathon>

For Full Details

<https://www.thpoint0.io/rules/>

To learn more

<https://www.thpoint0.io/faqs/>

***Live Youtube and Zoom streams to be added*



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