

The Challenge: food security & sustainability

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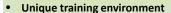


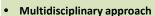


The Uniqueness of the Alliance in Addressing current Challenges



- Alliance of Top-Tier Universities and Institutes in the UK
- Unique combination of skills needed (plant pathology, veterinary sciences, agroecology, climate change science, agricultural economics and social sciences)











Alliance Strengths



- Crop Protection (Rothamsted, Bristol, Exeter)
- Crop Breeding (Rothamsted and Bristol)
- Soil Protection and Management (Rothamsted, Bristol, Exeter)
- Water Management (Rothamsted, Bristol, Exeter)
- Ecosystem Services (Rothamsted, Bristol, Exeter)
- Climate Change (Rothamsted, Bristol, Exeter)







Our work on crops is underpinned by:

Food Security + Land Research Alliance

- Molecular plant pathology research at Exeter
- Plant molecular biology at Bristol
- Long-term experimental data, sample Archive and eRA database at Rothamsted







This is further enhanced by:

Food Security + Land Research Alliance

- Animal sciences at The Bristol Veterinary School
- Rural social science and humanities spread across Politics, Human Geography, History & English, and the Business School at Exeter
- The Farm Platform at North Wyke







Our Challenge

Food Security + Land Research Alliance

- Ensuring global food security one of the biggest challenges facing humanity.
- It can only be achieved by dramatic increases in food availability across the world.
- Requires fundamental research in plant and animal science, sustainable agriculture, land use and ecosystem services.
- Must utilise social science and the humanities in addressing issues of sustainable production and consumption.



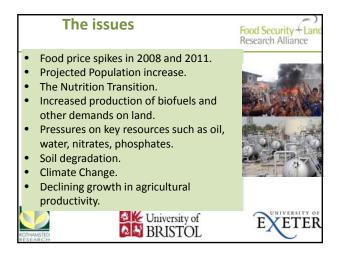




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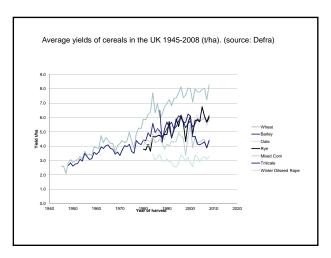
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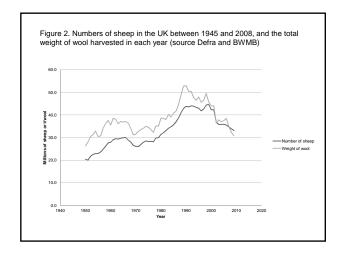
Winter, Michael, 20/10/2011

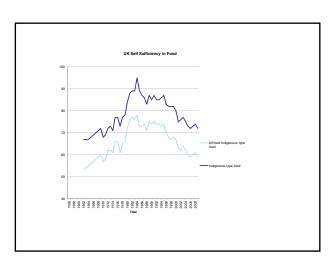


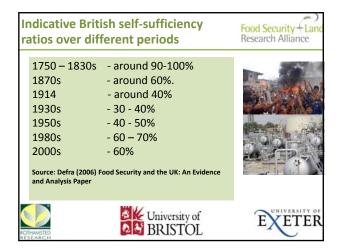


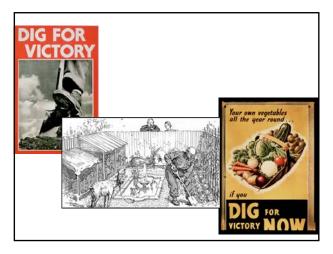


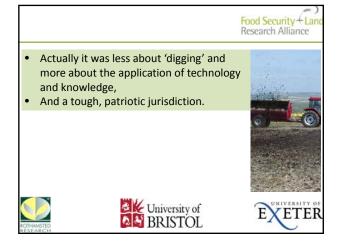


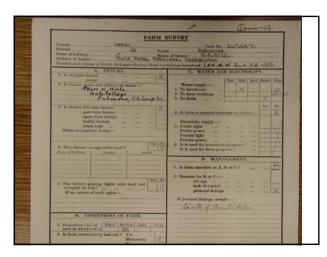


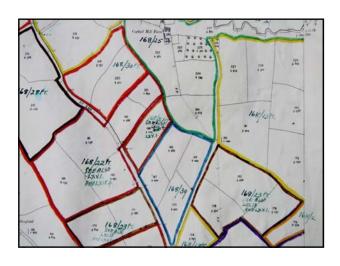




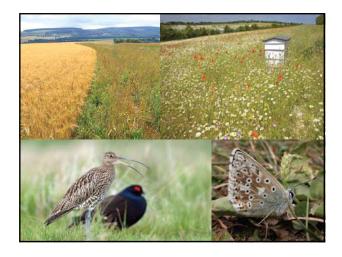


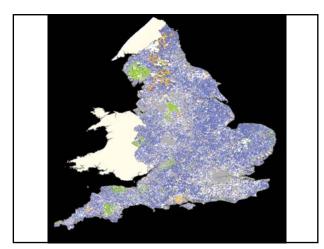












Ouestion marks over a new productivism in the UK 'Obvious' technological solutions, such as genetic modification, remain contested. Organic farming on the backfoot but deeply rooted in our agri-politics. The recognition of the importance of Ecosytem Services to human wellbeing. Our land occupancy arrangements. University of EVENTER University of EVENTER University of EVENTER University of EVENTER OUR Security Lange Research Alliance

Where now? Food Security + Lar Research Alliance 'Sustainable intensification' is the new mantra – dismissed by some as an oxymorn and embraced by others seeking 'smart solutions'. To me there is no alternative to 'SI' maximising production that does not compromise the environment on some land and maximising other ecosystem services on other land. We won't be going back to 'Dig for Victory' but we do need farmers and scientists to EXETER work together again in common cause to face the challenges