

Resilience of the UK Food System in a Global Context

FINAL CONFERENCE

■ Delegate guide



Friends House, London
7-8 December 2021



FRIENDS HOUSE FLOOR PLAN

2 SECOND FLOOR

- George Fox
- Margaret Fell
- Elizabeth Fry (1 and 2)
- William Penn (1 and 2)

1 FIRST FLOOR

- Marjorie Sykes
- Hilda Clark (1, 2 and 3)
- Abraham Darby
- Kathleen Lonsdale
- George Bradshaw
- Sarah Fell
- THE LIGHT The Light (Upper Level)
- Courtyard Balconies

G GROUND FLOOR

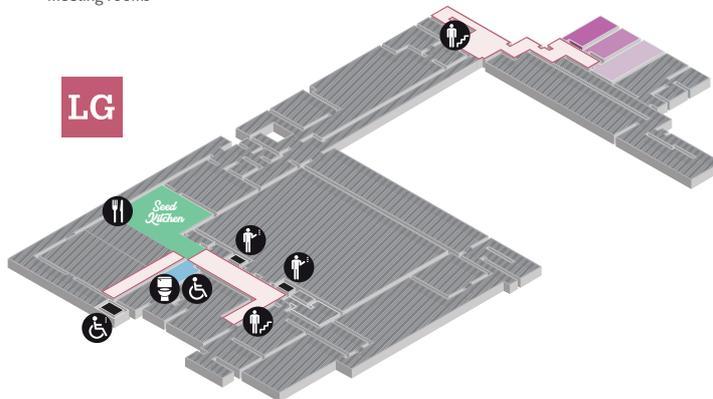
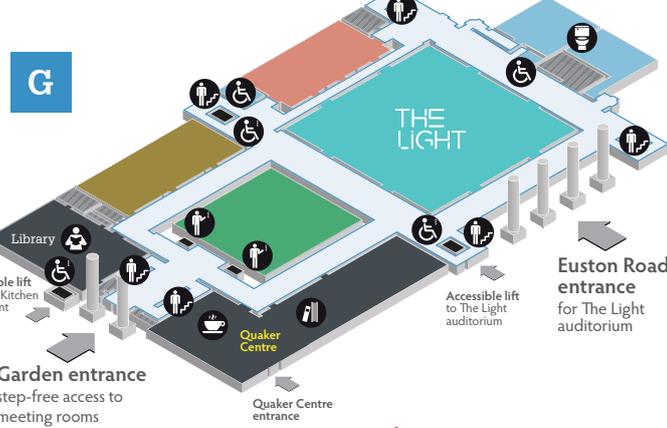
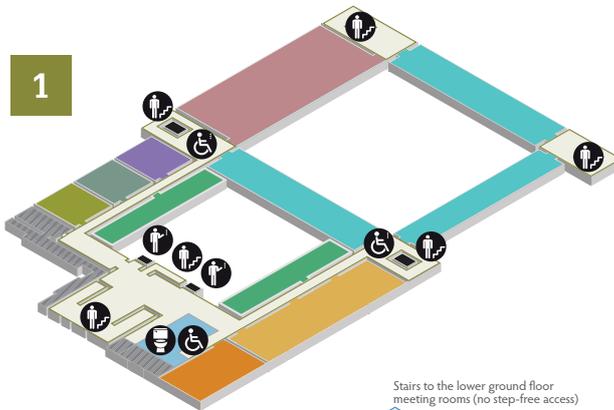
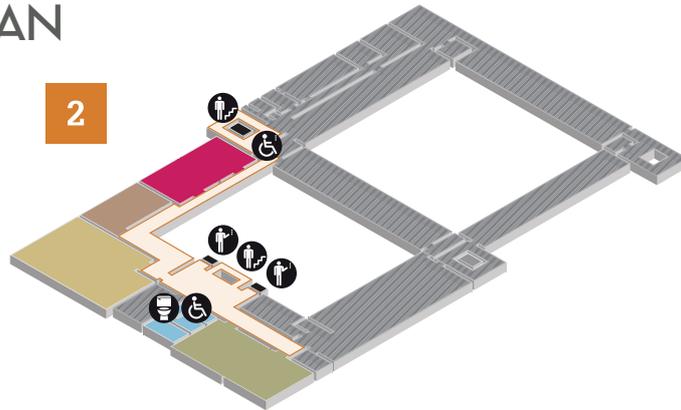
- Waldo Williams (1 and 2)
- Ada Salter (1, 2 and 3)
- THE LIGHT The Light
- Courtyard
- Quaker Centre Café and Bookshop

LG LOWER GROUND FLOOR

- Bayard Rustin
- Lucretia Mott
- John Woolman
- Seed Kitchen Seed Kitchen

KEY

-  Toilets
-  Accessible Toilets
-  Stairs
-  Lifts
-  Accessible Lift
-  Restaurant
-  Café
-  Bookshop
-  Library



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Welcome

Thank you for attending the final conference for the 'Resilience of the UK Food System in a Global Context' (GFS FSR) Programme. At a time when food insecurity is in the headlines and a government response to the National Food Strategy is on the horizon, the theme of this event – how to enhance food system resilience – feels timely.

The event is designed to bring together stakeholders from a great many areas of the food system to share learnings and reflections from the Programme, discuss the Programme messages and collaborate on how to operationalise resilience concepts. Our aim is to amplify the impact of the research findings by connecting with those who have the potential to take these learnings back into the food system.

I would like to thank all our speakers, whose insights and reflections will be valuable for consolidating our understanding of how to enhance food system resilience.

The OECD CRP National Viewpoints Day was originally planned to take place on Thursday 9 December. Due to the Covid-19 situation, we have postponed this day until spring 2022. We hope that many of you will be able to join us next year when we welcome leading scientists from

around 12 other OECD countries to critique the UK programme's work and add insights on food system resilience from their own national perspectives.

The conference is sponsored by the OECD's Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems. We are grateful for the Programme's support.

On behalf of the 13 Projects in the 'Resilience of the UK Food System in a Global Context' Programme, and the Programme coordination team, I would also like to take the opportunity to thank the Global Food Security (GFS) Secretariat and representatives from the funding agencies for their support over the past five years. I hope this event succeeds in distilling the valuable insights from this five-year interdisciplinary Programme.

I very much hope you find the conference enjoyable and informative.

John Ingram
Coordination team leader,
GFS FSR Programme

We would be grateful if you would complete a simple conference evaluation questionnaire for our conference sponsor.

Use the QR code or access the form at <https://forms.office.com/r/p55jUXXctG>

The results are valuable in helping the OECD Co-operative Research Programme: Sustainable Agricultural and Food Systems (CRP) maintain high standards of conference sponsorship.



Tuesday 7 December 2021

George Fox room

10.00	<i>Registration and refreshments</i>
10.30	Introduction – Riaz Bhunoo, Global Food Security Programme
10.35	Rationale for GFS FSR programme – Riaz Bhunoo
10.45	GFS FSR Programme: Key outcomes – John Ingram, GFS FSR
11.00	Learning and reflections from the Programme <ul style="list-style-type: none"> • Lisa Collins, University of Leeds • Bethan Mead, University of Liverpool • Andrew Griffiths, Nestlé
11.20	Table discussions: Learning and reflections from the Programme
12.10	Table feedback
12.30	Challenges for future research (virtual) – Guy Poppy, Transforming the UK Food System for Healthy People and a Healthy Environment SPF Programme
13.00	<i>Lunch and networking</i>
14.00	Table discussions: challenges for future food system resilience research
14.50	<i>Refreshments</i>
15.05	Table feedback
15.45	Reflections on the Programme from a funder perspective Graeme Beale, Scottish Government
15.55	Closing comments – Riaz Bhunoo
16.00	<i>Close</i>

Wednesday 8 December 2021

The Light

10.00	<i>Registration, exhibition space and refreshments</i>
10.30	Introduction – Ben Reynolds, Sustain
10.35	UN Food Systems Summit Track 5 'Resilience' (recorded) Saleemul Huq, ICCCAD
10.50	Introduction to workshop sessions – John Ingram, GFS FSR
11.00	Programme Messages workshops 01 [The Light] 02 [Ada Salter] 03 [Waldo Williams]
11.45	<i>Groups move to Food Resilience Concepts workshops</i>
11.50	Food Resilience Concepts workshops 04 [The Light] 05 [Ada Salter] 06 [Waldo Williams]
12.30	<i>Lunch and exhibition space</i>
13.30	Reflections from Global Food Security Programme Harriet Trewin, GFS Programme Coordination Group
13.45	Futures thinking in Defra – Dan McGonigle, Defra
14.05	<i>Groups move to Food System Resilience in Practice workshops</i>
14.10	Food System Resilience in Practice workshops 07 [The Light] 08 [Ada Salter] 09 [Waldo Williams]
14.50	<i>Refreshments and networking</i>
15.20	Resilience applications across KTN (virtual) – Simon Baty, KTN
15.40	Strengthening Agricultural Resilience in the Face of Multiple Risks (virtual) – Jerome Mounsey, OECD Agriculture & Trade
16.00	Closing comments – Ben Reynolds
16.15	<i>Close</i>

Resilience of the UK Food System in a Global Context

Participants

Alan Hayes	Future Space
Alisdair Wotherspoon	Food Standards Agency (retired)
Andre Vasconcelos	Global Canopy
Angelina Sanderson Bellamy	University of West of England
Ann Bruce	University of Edinburgh
Annabel de Frece	SOAS, University of London
Bob Doherty	University of York
Charlotte Maguire	Local Government Association
Dan Bebber	University of Exeter
David Barling	University of Hertfordshire
David Burton	Natural England
David Edwards	WWF-UK
Emma Keller	Nestlé UK & Ireland
Fiona Steel	Good Food Oxfordshire
Heather Alford	UKRI
Helen Sweeney	Innovate UK
James Comer	Defra
Jennifer Gunn	LEP Network
Jess Davies	Lancaster University
Kathryn Miller	Innovate UK
Kirsty Forber	Lancaster University
Kristen Guida	London Climate Change Partnership
Lee Ann Jackson	OECD
Liam Weeks	Greater London Authority

Lisa Norton	UK Centre for Ecology and Hydrology
Louise Whatford	Royal Veterinary College
Luca Panzone	Newcastle University
Luke Williams	UKRI – BBSRC
Mark Corbett	Food and Drink Federation
Michael Christov	London Borough of Waltham Forest
Nan-Hua Nadja Yang	University of Oxford
Paula Almiron	EIT Food North West
Peter Alexander	University of Edinburgh
Philip Hambling	NFU
Rachel Ward	Exponent International
Rebecca Kanter	University of Chile
Ruth Thomas	WBCSD
Sal Burgess	Defra
Sarah Newport	UKRI - NERC
Shane Rothwell	Lancaster University
Simon Kerley	UKRI - NERC
Simon Shaw	Sustain
Siwan Gwyndaf	Welsh Government
Sofia Parente	Sustain
Tim Lang	City, University of London
Tom Breeze	University of Reading
Tony Heron	University of York

Speakers

■ Andrew Griffiths, Head of Value Chain Sustainability, Nestlé UK&I

Andy Griffiths is Head of Value Chain Sustainability for Nestlé's UK&I businesses, responsible for the development and delivery of the Environmental Sustainability strategy both within the operation and across the value chain. He has worked for Nestlé UK&I for over 20 years, originally in operational and engineering roles. He is both a chartered environmentalist and IEMA fellow, as well as a chartered engineer (IET). He co-developed the LENs (Landscape Enterprise Network model) with 3Keel, to enable effective shared interest investment, at scale, into the regeneration of multifunctional landscapes.

■ Anna Turrell, Head of Environment, Tesco

Anna Turrell is Head of Environment at Tesco, where she is responsible for the Company's climate change agenda, as well as other areas including sustainable agriculture, forests, marine and the Company's partnership with WWF. Prior to joining Tesco, she was Head of Sustainability for Nestlé UK & Ireland, where she led the development and roll out of an integrated sustainability strategy across the multi-category business. Whilst at Nestlé, She was seconded to the Swiss HQ to manage Nestlé's global human rights due diligence programme, and was instrumental in the development and publication of Nestlé's global plastics and packaging commitments.

■ Ben Reynolds, Deputy CEO, Sustain: the alliance for better food and farming

Since joining Sustain in 2004, Ben Reynolds has helped launch the Food Power network and was a founding member of the Sustainable Food Cities network. Most recently he came up with the 50 Fountains Challenge (run in partnership with Refill), born out of the Sugar Smart campaign which he developed with the Jamie Oliver Food Foundation. He worked with Jamie Oliver's team to get the government to adopt a sugary drinks tax, and set up the award-winning Children's Health Fund which piloted the levy with restaurants.

■ Bethan Mead, Research Fellow, University of Liverpool

Dr Bethan Mead is a Research Fellow working with the Appetite and Obesity research group in the Department of Psychological Sciences, University of Liverpool. Her work takes a psychological and food systems approach to exploring perceptions and barriers to acceptance of urban grown food and alternative proteins in consumers and stakeholders. She was previously a Postdoctoral Research Associate with the GFS FSR Rurban Revolution project. Her research focussed on how urban agriculture (rurbanisation) impacts health and diet. Prior to this, she completed her PhD at the University of Liverpool (2017), focussing on the role of hedonic hunger and responses to food cues in weight loss.

■ Dan McGonigle, Head of Systems, Innovation and Futures, Defra

Daniel McGonigle works at the science-policy interface on agriculture and the environment at Defra, the UK government department responsible for policy and regulations on environmental, food and rural issues. He has been at Defra since May 2019. His previous role was at Bioversity International, where he was responsible for the organisation's research on Enhancing Productivity and Resilience in Farms, Forests and Rural Landscapes.

Speakers

■ Graeme Beale, Head of RESAS Strategic Research Programme, Scottish Government

Dr Graeme Beale is the Scottish Government's Head of the Strategic Research Programme (SRP) in the Rural and Environmental Science and Analytical Service (RESAS). His responsibilities include the SRP and the five Centres of Expertise for the RESAS portfolio. He is a Senior Principal Social Researcher, and has experience leading teams of quantitative and qualitative researchers, scientists and statisticians on rural communities, agricultural, and land reform issues. Prior to RESAS he worked in Transport Scotland and SG Housing.

■ Guy Poppy, Programme Director, Transforming the UK Food System

Professor Guy Poppy served as the Food Standards Agency (FSA)'s Chief Scientific Adviser from 2014 to 2020. He also continues with his research in global food security at the University of Southampton, where he is Professor of Ecology and directs Interdisciplinary Research as the Associate Vice President. He was appointed Companion of the Order of Bath (CB) in the Queen's Birthday Honours 2021. After completing his term of six years at the FSA, Guy has become the Programme Director for the SPF Food systems programme.

■ Harriet Trewin, Head of Bioscience for Sustainable Agriculture, BBSRC

Dr Harriet Trewin is head of strategy for Sustainable Agriculture and Food within BBSRC. The Sustainable Agriculture and Food team work with key stakeholders across academia, industry and policy to support research, capabilities and skills that enhance the sustainability and resilience of our agri-food system, as well as a transition to net zero. Her background prior to joining BBSRC was in plant sciences and she spent several years working in industry. She is the Chair of Global Food Security's Programme Coordination Group, which is responsible for coordinating activities and maintaining awareness of links with other relevant programmes.

■ Ian Noble, Senior Director, Mondelēz International

Dr Ian Noble leads Research, Analytical and Productivity in Mondelēz R&D. He is committed to creating and strengthening the technologies our Food System requires to deliver greater productivity, economic growth and sustainability. He has worked across Europe, Asia and North America with Unilever, PepsiCo and Mondelēz. He is a member of external advisory boards including: Future Food Beacon at Nottingham University, ISCF-MADE SMARTER, chair of the the UK Food Sector KTN and is a Fellow of the Royal Academy of Engineering.

■ Jerome Mounsey, Agricultural Policy Analyst, OECD

Jerome Mounsey is an experienced agricultural policy analyst, with a strong background in agriculture & food sustainability issues. Before joining OECD, he worked for FAO in Rome (2008-2011), DG-CLIMA in the European Commission (2014-2017) and as Irelands Agricultural Attaché to France. He also has extensive experience in international climate change negotiations, including as part to the EU negotiation team at COP21 in Paris. He is currently working on agricultural resilience issues with OECD.

Speakers

■ Lisa Collins, Professor of Animal Science, University of Leeds

Professor Lisa Collins is a Professor of Animal Science, N8 Agrifood Chair in Agricultural Systems, Head of the School of Biology, Academic Director of the National Pig Centre, and Director of the Smart Agri-Systems research initiative at the University of Leeds. Her research focuses on the development and application of smarter agricultural systems through multi-disciplinary approaches including technology development, systems modelling and data analytics. She is PI on the GFS FSR Project PigSustain.

■ Patrick Holden, Founding Director, Sustainable Food Trust

Patrick Holden is the founding director of the Sustainable Food Trust, working internationally to accelerate the transition towards more sustainable food systems. After studying biodynamic agriculture at Emerson College, he established a mixed community farm in Wales in 1973, producing at various times: wheat for flour production sold locally, carrots and milk from an 85 cow Ayrshire dairy herd, now made into a single farm cheddar style cheese by his son Sam. He was the founding chairman of British Organic Farmers in 1982, before joining the Soil Association, where he worked for nearly 20 years.

■ Riaz Bhunoo, Director of the GFS Programme, UKRI

Dr Riaz Bhunoo provides strategic leadership to the Global Food Security (GFS) programme and drives forward cross-stakeholder, interdisciplinary activities in partnership with the UK public funders of food security research. He has worked at BBSRC (who formally lead on the multi-partner programme) since 2005, and has undertaken secondments to the RCUK Executive Directorate to work on cross-Council research coordination and policy, and the Gates Foundation to work on Grand Challenge Explorations. He is a strong advocate of interdisciplinary working to tackle the biggest challenges facing society.

■ Saleemul Huq, Director, International Centre for Climate Change and Development (ICCCAD)

Professor Saleemul Huq is the Director of the International Centre for Climate Change and Development (ICCCAD) and Professor at the Independent University Bangladesh (IUB) as well as Associate of the International Institute on Environment and Development (IIED) in the United Kingdom as well as the Chair of the Expert Advisory Group for the Climate Vulnerable Forum (CVF) and also Senior Adviser on Locally Led Adaptation with Global Centre on Adaptation (GCA) headquartered in the Netherlands. He is an expert in adaptation to climate change in the most vulnerable developing countries and has been a lead author of the third, fourth and fifth assessment reports of the Intergovernmental Panel on Climate Change (IPCC) and he also advises the Least Developed Countries (LDC) group in the United Nations Framework Convention on Climate Change (UNFCCC).

Speakers

■ Simon Baty, Knowledge Transfer Manager – Food, KTN

Simon Baty has more than seven years of experience helping food manufacturers innovate from salt, fat and sugar replacers to side stream valorisation, both with start-ups and global companies. Before his innovation roles, he worked in business development creating bespoke and new ways to ensure food safety. Earlier in his career, he managed a business unit in the animal feed sector.

■ Sue Davies, Head of Consumer Protection and Food Policy, Which?

Sue Davies is the Chief Policy Adviser at Which?, the UK consumer organisation, where her responsibilities include food policy. She represents consumer interests on a range of national and international committees and working groups which have included the UK Advisory Committee on the Microbiological Safety of Food, Public Health Responsibility Deal and the EU Platform on Diet, Physical Activity and Health. She is also the Chair of the European Food Safety Authority's Management Board in a personal capacity. She was the EU Co-chair of the Transatlantic Consumer Dialogue Food Group, a policy forum for EU and US consumer organisations, for over 10 years and has represented consumer interests in discussions on international food standards.

Conference coordination team, University of Oxford

- Anna Obernoster
- Eleanor O'Kane
- Estelle Paulus
- John Ingram
- Maddy Diment
- Monika Zurek
- Roger Sykes
- Saher Hasnain

Submitted publication from the GFS FSR Programme

Enhancing food system resilience: Applying a multi-dimensional concept to transform food system outcomes

Programme-level paper invited by
Annual Review of Environment and Resources
Impact Factor > 11

- 10,000 words, 147 references
- Submitted Oct 2021
- Under review for 2022 volume
- All Project PIs and several team members contributed



Monika Zurek, John Ingram, Angelina Sanderson Bellamy, Conor Goold, Christopher Lyon, Peter Alexander, Andrew Barnes, Daniel P. Bebber, Tom D. Breeze, Ann Bruce, Lisa M. Collins, Jessica Davies, Bob Doherty, Jonathan Ensor, Sofia C. Franco, Andrea Gatto, Tim Hess, Chrysa Lamprinopoulou, Lingxuan Liu, Magnus Merkle, Lisa Norton, Tom Oliver, Jeff Ollerton, Simon Potts, Mark S. Reed, Chloe Sutcliffe and Paul Withers

Abstract

Food systems need to be made more resilient for society to better cope with further risks from shocks and stresses, such as the COVID-19 pandemic or climate change. However, food system resilience has multiple dimensions. We draw on 'food system' and 'resilience' concepts and review resilience framings of different communities.

We present four questions to frame food system resilience (resilience of what? to what? from who's perspective? and over what time period?), and three approaches to enhancing

resilience ('robustness', 'recovery' and 'reorientation'; the three 'Rs'). We note that reorienting societal views of what constitutes 'better' (i.e. transformed) food system outcomes is a key to enhancing resilience, and that transforming food system outcomes requires adapting food system activities.

New approaches to including different food system actors' perceptions and goals are needed to build food systems that are better positioned to address the short- and long-term challenges of the future.

What is food system resilience?

Food system resilience is the system's capacity to deliver desired outcomes when exposed to stresses and shocks.

Enhancing resilience of a food system can be achieved in three ways:

■ Robustness

The ability of the food system to resist disruptions to current outcomes by preventing shocks and stress impacting food system activities. Examples include food system actors adopting more heat-tolerant crops and more diverse farming systems, taking actions to ensure there is sufficient natural habitat to support pollinators, or a food processor or retailer having multiple supply chains.

■ Recovery

The ability of the food system to return to prior outcomes following disruption (bounce back). Examples include system actors taking out insurance to re-instate crops or physical infrastructure, or using smart technologies to re-stock grocery supply and delivery following a temporary shortage.

■ Re-orientation

The ability of food system to deliver acceptable alternative outcomes before or following disruption (bounce forward). Examples include accepting diets based on a wider range of agricultural products thereby spreading risk, or incentivising food supply chains to transform outcomes of health, environment and enterprise.

Aiming for any of these three ways requires re-organisation, i.e. making changes in how the system operates. This is termed 'adaptation'; food system actors adapt their activities (the 'what we do': farming, processing retailing, etc) to maintain, or to be able to return to, or to

transform the outcomes (the 'what we get': food supply, livelihoods, ecosystem services, etc).

'Adaptation' therefore refers to changing the food system activities. 'Transformation' refers to changing the food system outcomes. Activities do not spontaneously change but do so in response to a change in a driver. This could be, for instance, a new regulation, a period of extreme weather or a new set of trading arrangements. This change in driver(s) will lead to adapting from method 1 to method 2 in response to the new set of conditions. Similarly, outcomes do not spontaneously transform but as a result of adapting activities. Hence, aiming for transformed food system outcomes requires adapting food system activities which will be in response to changed food system drivers.

■ Why does food system resilience matter?

Our diets are highly varied and we expect a wide range of foodstuffs all year round. Environmental, biological, economic, social and geopolitical shocks and stresses already act as disrupting drivers to make the UK food system vulnerable to disruption.

As the UK imports around half of its food, changes in trade arrangements due to EU-exit coupled with the shock (and now stress) of Covid-19 are further, major disrupting drivers. We need to enhance the resilience of our food system. The challenge is to determine how best to do this.

Resilience of the UK Food System in a Global Context

The Resilience of the UK Food System in a Global Context (GFS-FSR) was launched in 2016 by the Global Food Security Programme (GFS), the UK's cross government programme on food security research.



The Programme has been funded by UK Research and Innovation's Biotechnology and Biological Sciences Research Council (BBSRC), Economic and Social Research Council (ESRC), Natural Environment Research Council (NERC) and the Scottish Government.



The Programme's final conference is sponsored by the OECD's Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems.



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