

WELCOME!

Horizon Europe Mission: A Soil Deal for Europe - Community Building Event

Housekeeping

- To avoid background noise all participants will be muted and cameras will be off.
- We will allow delegates to unmute themselves and share their cameras during the breakout rooms.
- Please use the chat to introduce yourself. Please note due to GDPR we cannot share the chat so capture what you need.
- Please also use the Q&A function to submit your questions.
- If you have any technical problems, please use the chat to seek advice from the host (Michael Foster)



PLEASE NOTE – THE WEBINAR IS BEING RECORDED

Agenda

Time (UK)	Session	Speakers
9.30	Introduction to the session and community e-platforms	Belen Rebollo, Innovate UK KTN
09:40	European and UK Soils Research and Innovation Capabilities	<ul style="list-style-type: none"> - European Commission; DG Agri: Annette Schneegans - BBSRC: Luke Williams - Rothamsted Research: Martin Broadley - Cranfield Soil, AgriFood and Biosciences: Jane Rickson - Agri-Food and Biosciences Institute (AFBI): Elaine Groom - FUNDECYT (NATI00NS Project): Concha Civantos
10:45	Panel discussion	Chair of panel: Helen Sweeney; Innovate UK
11:05	BREAK	
11:15	Soil Mission overview and upcoming opportunities	Helen Sweeney; Innovate UK
11:30	Q&A	Viola Hay, Innovate UK KTN
11:40	Breakout rooms:	<p>Main reception: Viola Hay and Michael Foster</p> <p>Room 1 Chair: Helen Sweeney, Innovate UK Room 2 Chair: Cathryn Lambourne, Innovate UK KTN Room 3 Chair: Catherine Holt, Innovate UK Room 4 Chair: Elaine Groom, AFBI Room 5: Anni Laihanen, UKRI</p> <ul style="list-style-type: none"> - Room 1: Spatial planning and subsoil - Room 2: Horticulture and Peat alternatives - Room 3: Digitalisation & soil pollution - Room 4: Living labs - Room 5: Communities
12:15	Closing remarks	Belen Rebollo/Helen Sweeney; Innovate UK
12:30		





Innovate UK KTN – European Programmes Activity and support



Belen Rebollo-Garcia
Knowledge Transfer Manager



Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.

Cross-Sector Expertise

Agrifood
Biotechnology
Chemistry
Creative Industries
Design
Digital
Electronics
Energy
Geospatial
Health
Industrial Maths
Infrastructure

Manufacturing
Materials
Photonics
Quantum
Robotics & AI
Security & Defence
Sensors
Space
Transport
Water



Innovate UK
KTN

Our Network



46,229
Unique
Organisations



72% Small
15% Medium
13% Large



234,478
innovators



Every university
in the UK

Our Outputs

66%

introduced by
KTN go on to
collaborate

42%

reach
outcomes
faster
(1-2 years)

60%

increased
investment in
R&D direct
result from
KTN
engagement

£100m

per year
increased
investment in
R&D



Innovate UK
KTN

Primary Delivery Partners

UK Government



Department for
Science, Innovation
& Technology



Department for
Business & Trade



Department for
Energy Security
& Net Zero



Department
for Culture
Media & Sport



Foreign &
Commonwealth
Office



UK Science
& Innovation
Network



Innovate UK
KTN



UKRI Innovate UK

Building the future economy

Plan for action for UK business innovation

inspire | involve | invest

2021–2025



- Future economy
- Growth at scale
- Global opportunities**
- Innovation ecosystem
- Government levers



- Science and
- Design
- Societal impact
- Innovation
- Equality
- Place and

Theme 3: Global opportunities

More and more countries are looking to science and innovation to build their economies and meet global challenges. There is a major opportunity for international co-operation on research and development and innovation that builds on our world-class science and research capabilities and industry strengths.

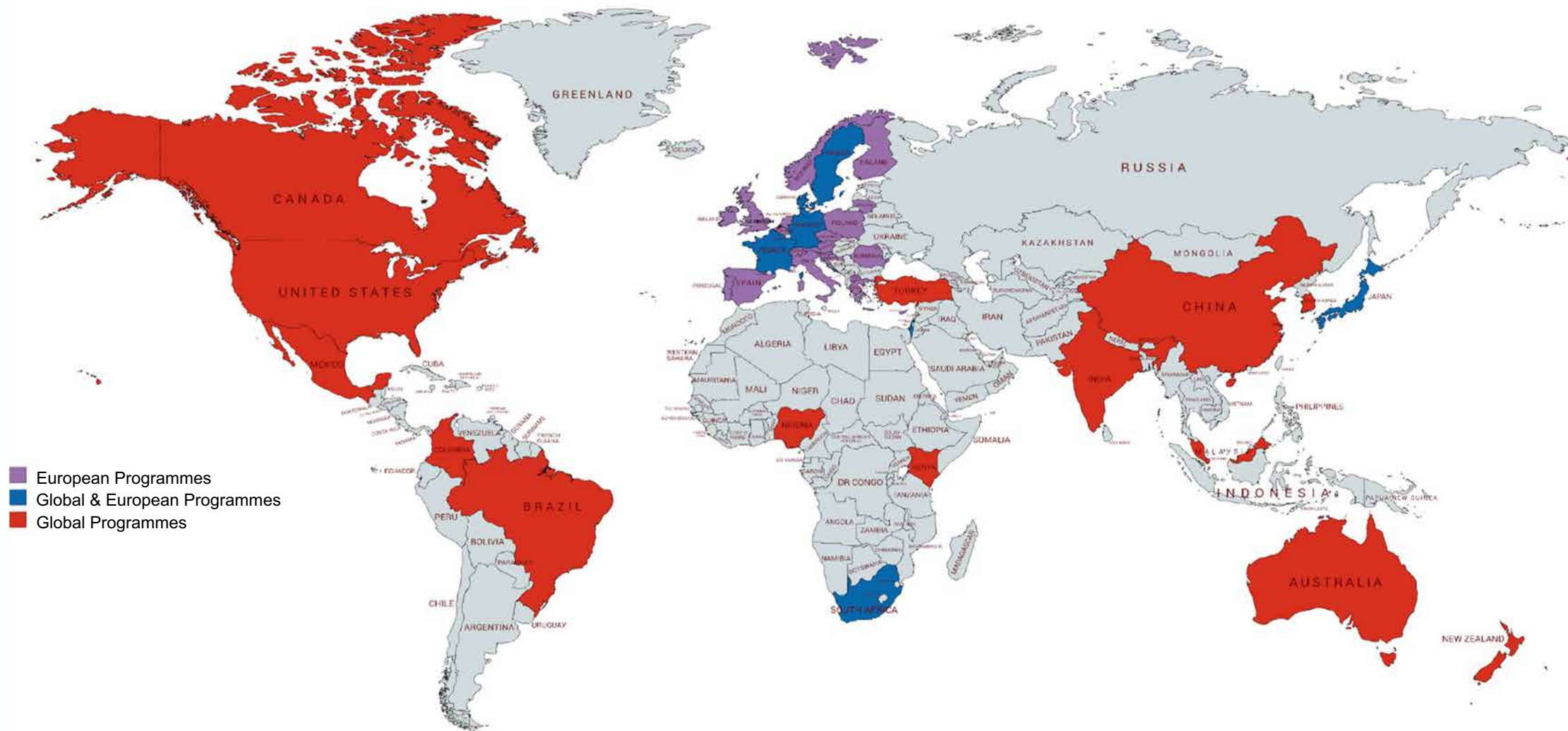


We connect **regional, national and global** innovation

Our **Global Alliance** programme drives international collaborations with governments, societies, enterprises, institutions and people from every corner of the globe.



Our Reach





Global Alliance: European Programmes

European Programmes Experts



Jane Watkins
Regional Lead



Viola Hay
Knowledge Transfer
Manager



Belen Rebollo
Knowledge Transfer
Manager

Find out more



@KTN_Global

Horizon Europe Hub

<https://ktn-uk.org/programme/european>



Innovate UK
KTN

Can the UK participate in Horizon Europe? YES!!!

The UK is a Candidate Associated Country

- Applicants should carry on working in their consortiums on the 2023 Work Programme Call topics.
- UK applicants should continue applying as beneficiaries and request EU budget at the proposal stage
- UK Horizon Europe Guarantee in place to support successful applicants if Association not in place at time of Grant Agreement





European and UK Soils Research and Innovation Capabilities



Helen Sweeney
Panel Chair - UK NCP





European and UK Soils Research and Innovation Capabilities

Annette Schneegans
European Commission
DG Agriculture & Rural Development





EUROPEAN UNION



EU MISSIONS

SOIL DEAL FOR EUROPE

100 living labs and lighthouses to lead the transition towards healthy soils by 2030

Annette Schneegans
Soil Mission Secretariat
DG Agriculture and Rural Development - European Commission

Community Building event Soil Mission, 01 March 2023

#EUmissions #HorizonEU #MissionSoil

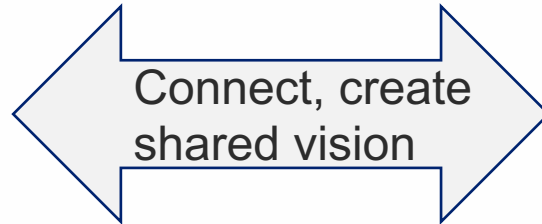




Missions: a new instrument under the R&I programme Horizon Europe (2021 – 2027) to address major societal challenges

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making.

Scientific curiosity, rationale and mindset



People's needs and aspirations



Adaptation to Climate Change

Cancer

Climate-neutral and Smart Cities

Restore our Ocean and Waters

Soil Deal for Europe

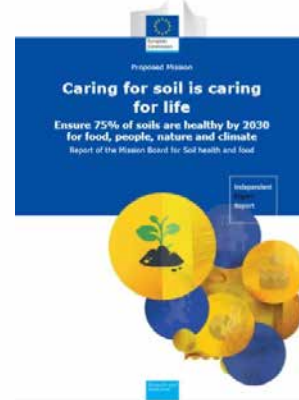




Co-creating the Soil Deal Mission

Mission Board “Soil health and food”

Chair	Vice-Chair					



R&I days 2020
the Mission Board hands over its report “Caring for soil is caring for life”



September 2019

until September 2020

September 2020

until June 2021

29 Sept 2021

R&I days 2019
creation of the Mission Board and the Mission Assembly Soil health and food

the Mission board prepares its recommendation for a mission with involvement of Member States, the Mission Assembly as well as stakeholders and citizens: more than 60 events to promote and co-create the mission all around Europe

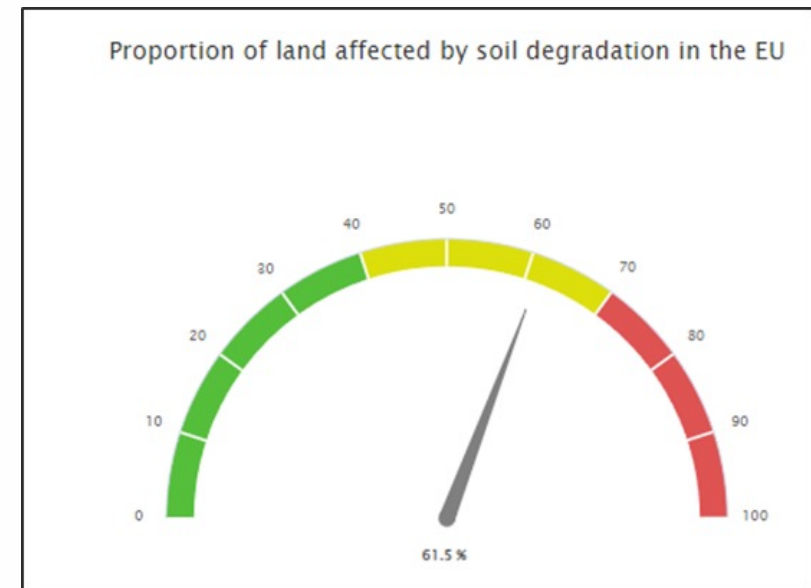
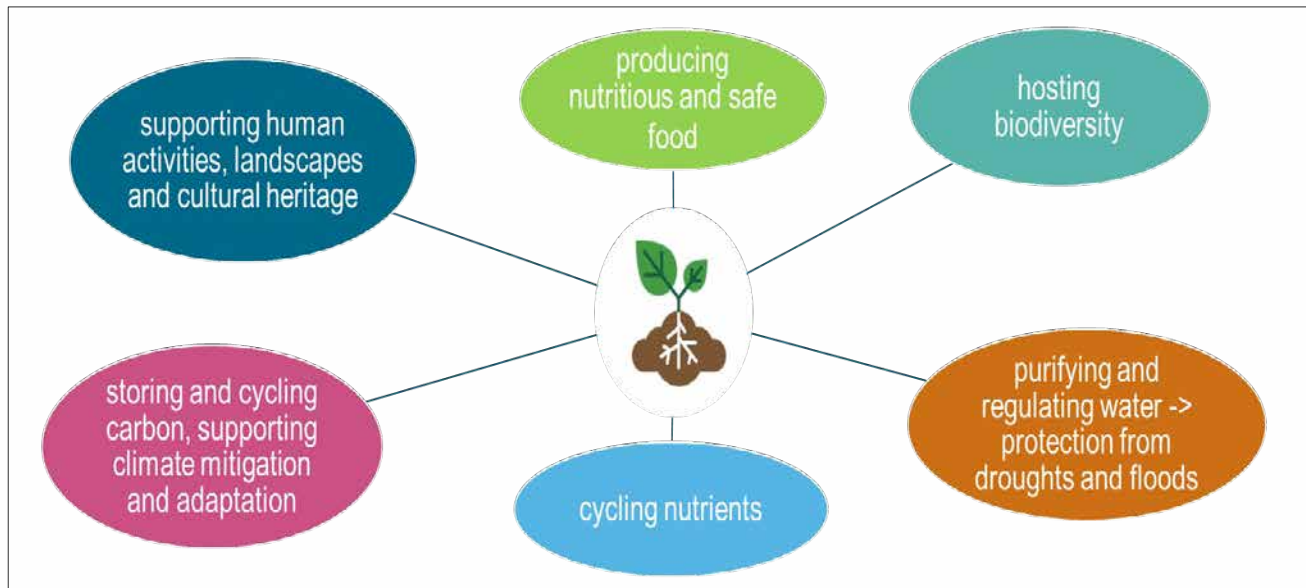
Commission services prepare the **mission implementation plan (IP)** with the advise of the Mission Board

Official launch of the missions through a **Commission Communication**



The soil mission's starting point (1)

- Healthy soils are the **basis for nutritious and safe food and other vital, interconnected ecosystem services.**
- According to Mission Board, **60-70% of soils in Europe can be considered as being unhealthy** due to current management practices, pollution, urbanisation and effects of climate change.



From JRC EUSO Dashboard, 2023

<https://esdac.jrc.ec.europa.eu/esdacviewer/euso-dashboard>



Examples of soil health issues in Europe

2.8 million potential **contaminated sites** (only 24% inventoried) posing major health risks

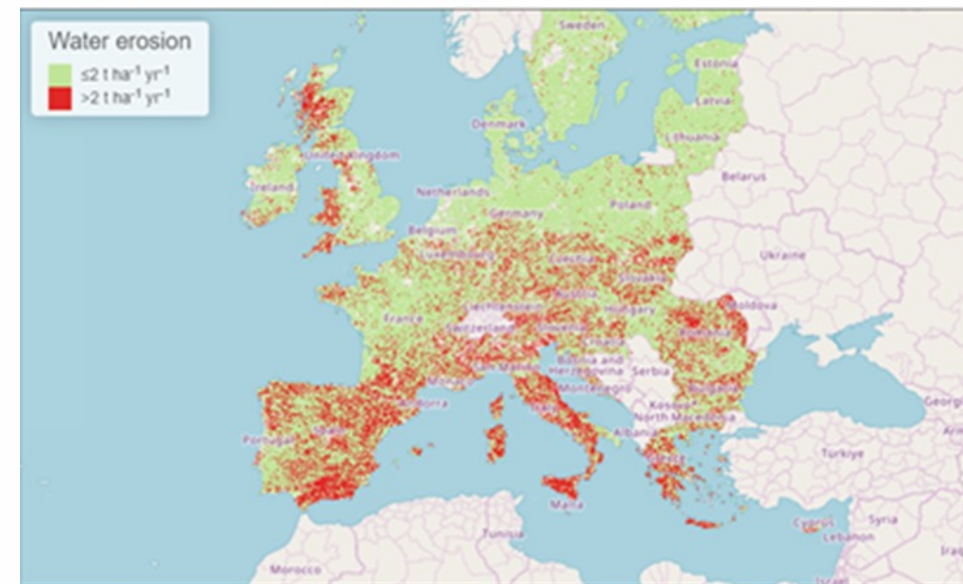
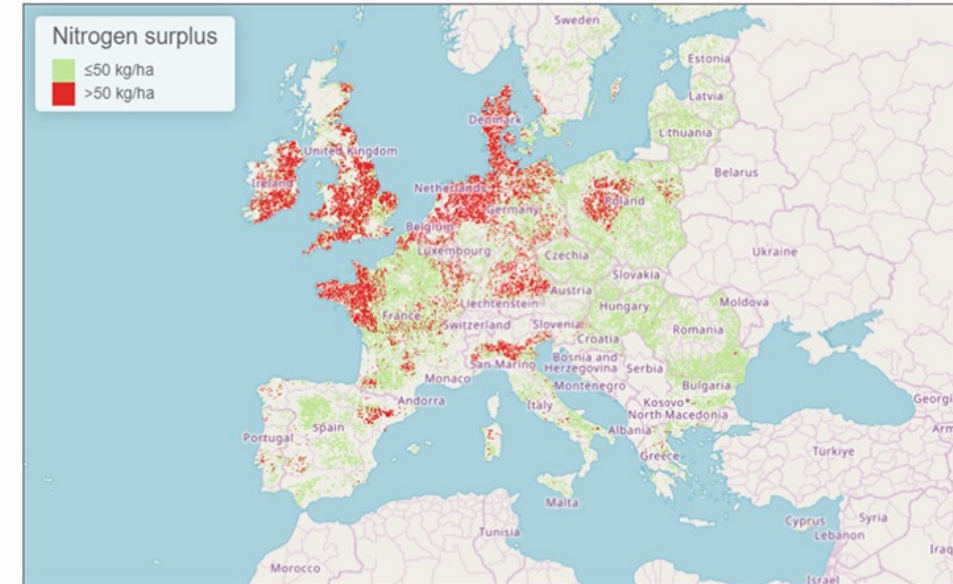
65-75% of agricultural soils with nutrient inputs at levels risking **eutrophication of soils and water** and affecting biodiversity

Cropland soils **losing carbon** at a rate of **0.5%** per year;

50% of peatlands drained and losing carbon – this is contributing to the climate crisis

24% of land with **unsustainable water erosion rates**

25% of land at High or Very High risk to **desertification** in Southern, Central and Eastern Europe in 2017





The soil mission's starting point (2)

- Knowledge regarding sustainable soil management is not sufficiently applied in practices; solutions for soil management need to be adapted to the local context – need
- Need to focus on place based innovations and pathways to address the **knowledge – practice divide**.
- Soil related knowledge, monitoring and policies focus to a large extent on **agricultural soils**. More knowledge and data needed to address soil health in **other land uses**.
- In the EU, **soil monitoring is not harmonised** or undertaken in a systematic way. Currently, only 6 or 7 Member States have active soil monitoring programmes.
- The **scale of soil contamination** is largely unknown.
- **Political and “business” attention increasingly turning to soils** - need to operationalise the concept of “healthy soils”



The Soil Deal mission supports the Green Deal and other commitments

Mission part of:

- Farm to Fork Strategy
- EU Biodiversity Strategy for 2030
- Climate Adaptation Strategy
- Forest Strategy
- Zero Pollution Action Plan for air, water and soil
- Organic Action Plan
- Long term vision for rural areas
- **EU Soil Strategy for 2030 and upcoming Soil health Law**
- **Communication on sustainable carbon cycles**
- Communication “Safeguarding food security and reinforcing the resilience of food systems”
- Communication “Ensuring availability and affordability of fertilisers”

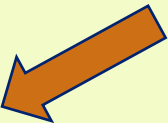
By 2030

- 25% of land under organic farming
- Reduce the overall use and risk of chemical pesticides by 50% and the use of more hazardous pesticides by 50%
- Reduce fertilizer use by at least 20%
- Reduce nutrient losses by at least 50%
- Reduce by 30% microplastics released into the environment
- Reduce net greenhouse gas (GHG) emissions by at least 55% compared to 1990 levels.

By 2035

- The EU should aim to reach climate neutrality in the land use, forestry & agriculture sectors – by 2050 fully climate neutral

By 2050

- All EU soil ecosystems are in healthy condition 
- No net land take
- Soil pollution should be reduced to levels not longer harmful



A supportive framework for soil protection in the EU

Policy framework:
“All soils are
healthy by 2050”



Soil monitoring
and data reservoir



Programme for research and innovation,
citizen engagement and outreach





Mission goal

100 living labs and lighthouses to lead the transition towards healthy soils by 2030



1. Reduce desertification



2. Conserve soil organic carbon stocks



3. Stop soil sealing and increase re-use of urban soils



4. Reduce soil pollution and enhance restoration

Specific objectives



5. Prevent erosion



6. Improve soil structure to enhance soil biodiversity



7. Reduce the EU global footprint on soils

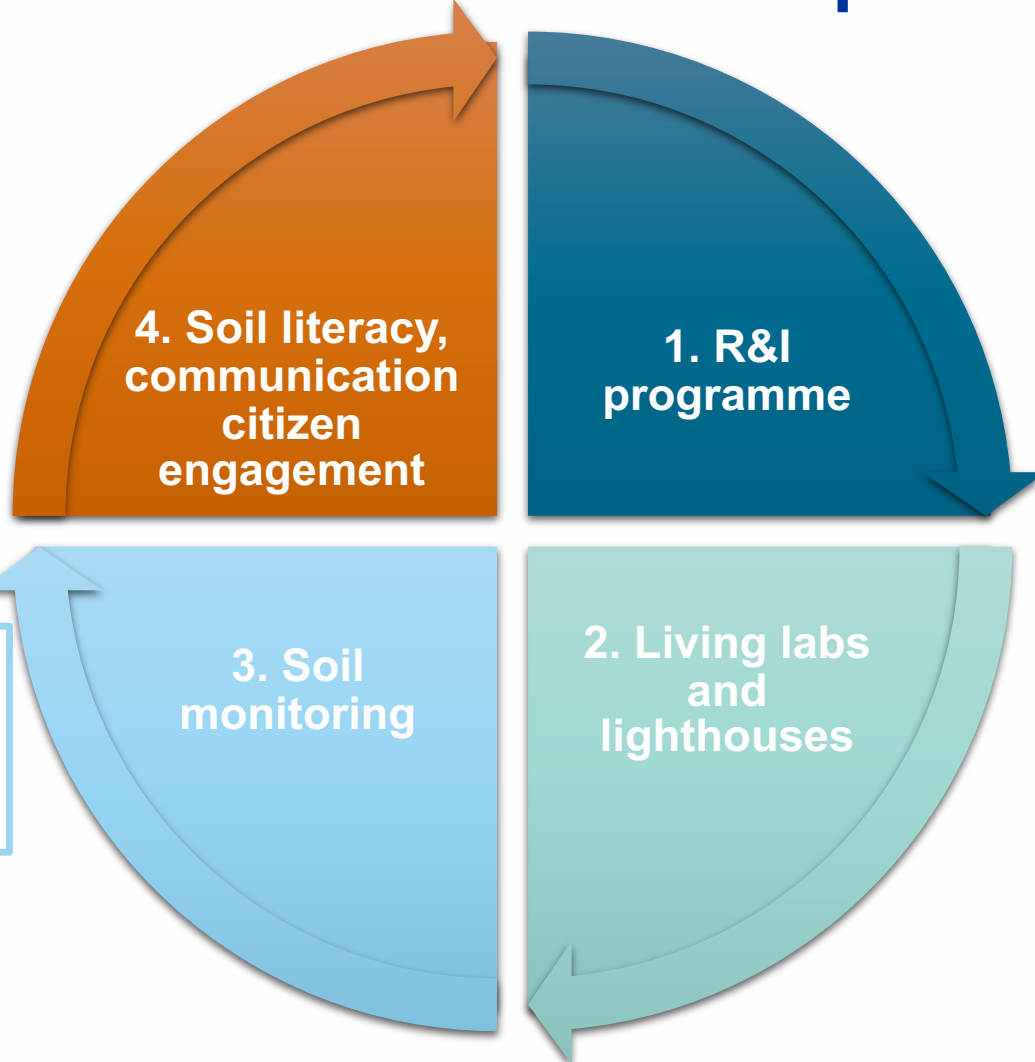


8. Improve soil literacy in society

Each specific objective is backed by **one or more quantified targets** and **measurable indicators**. Objectives apply to **all types of land use**.



How will the mission be implemented?



Communication, training and advise

Knowledge, data, technologies and infrastructures

Improving and harmonizing **soil health monitoring** across Europe;

A comprehensive **network of real-life sites** for co-creating, testing, demonstrating and upscaling of solutions

Co-implementation of mission by: researchers, land managers, regions, businesses, policy makers, citizens and **international partners**



Activities under the **four building blocks** to address **soil health** and the **drivers of soil health**



Update: The emerging landscape of Mission projects

WP 2023

Topics on e.g.

Living Labs, spatial planning, soil and cultural and creative industries

Opening of call: 17 January '23

Deadline for applications:
20 September 2023

Budget: 139 M€



WP 2022

Topics on e.g.

remediation strategies for contaminated sites, soil biodiversity, use of biowaste for soil improvement, carbon farming, soil literacy

Budget: 95 M€



WP 2021

Topics on e.g.

soil monitoring and soil health indicators, businesses models for soil health, link between soil health and food quality and safety, engagement of municipalities and regions

Budget: 67 M€








UK participation, e.g. in project AI4SoilHealth on soil monitoring:

- Pete Smith, University of Aberdeen
- David Robinson, UK Centre for Ecology and Hydrology
- Soil Association



What's new? What next?

- **Mission Implementation Platform up-and-running to**

-  build a **one-stop Mission shop** for external stakeholders
-  develop effective **Mission project portfolio** and a **project hub**
-  track Mission progress and establish a **Mission dashboard**
-  promote and **support of soil Mission communities across territories and sectors**
-  contribute to outreach e.g. through the **Mission's website** and **Mission Fair**

- **New Mission Board** is in place

- **Cluster event** of projects funded under the EU Mission 'A Soil Deal for Europe', 22-23 March 2023

- **Mission manifesto**

- **Objective:** non-legally binding document for stakeholders to express support for the Mission and gain visibility as soil ambassadors
- **Target:** **regional and local public authorities**, private sector organisations, individuals
- **When:** Launch event **18 April with European Regions Research and Innovation Network**



Examples of communication and outreach activities



250+ co-creation and engagement events since September 2019



Social media campaigns (#MissionSoil on-going)



Several articles, press releases, newsletters, 4 videos, 2 factsheets



2 Podcast episodes



Publications: soil health Results Pack / Report on communication and citizen engagement initiatives in line with Mission Soil



Interactive games for kids and adults, including composting training



Survey sent to **7000+** contacts across Europe and 2500+ contributions received

- [Factsheet Mission A Soil Deal for Europe](#)
- [Factsheet Mission A Soil Deal for Europe - Living Labs](#)
- [Projects results Pack Soil Health](#)
- [Video EU Mission “A Soil Deal for Europe”](#)
- [Video EU Mission ‘A Soil Deal for Europe’, the CAP and carbon farming](#)
- [Podcast episode Food for Europe - Ep. 15 Soils in danger: Europe fights back](#)
- [Social media campaign #MissionSoil: best practices to keep our soils healthy](#)

More resources in **Official webpage Mission A Soil Deal for Europe:** <http://ec.europa.eu/mission-soil>

Funding and tenders portal: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-12-missions_horizon-2023-2024_en.pdf



EUROPEAN UNION

EU MISSIONS

SOIL DEAL FOR EUROPE



For further information and questions please contact the mission secretariat:

AGRI-SOIL-MISSION-BOARD@ec.europa.eu

[#MissionSoil](#) [#EUmissions](#) [#HorizonEU](#)



European and UK Soils Research and Innovation Capabilities

Luke Williams
Senior Portfolio Manager
BBSRC





Biotechnology and
Biological Sciences
Research Council

UK Soils Research Landscape

Dr Luke Williams

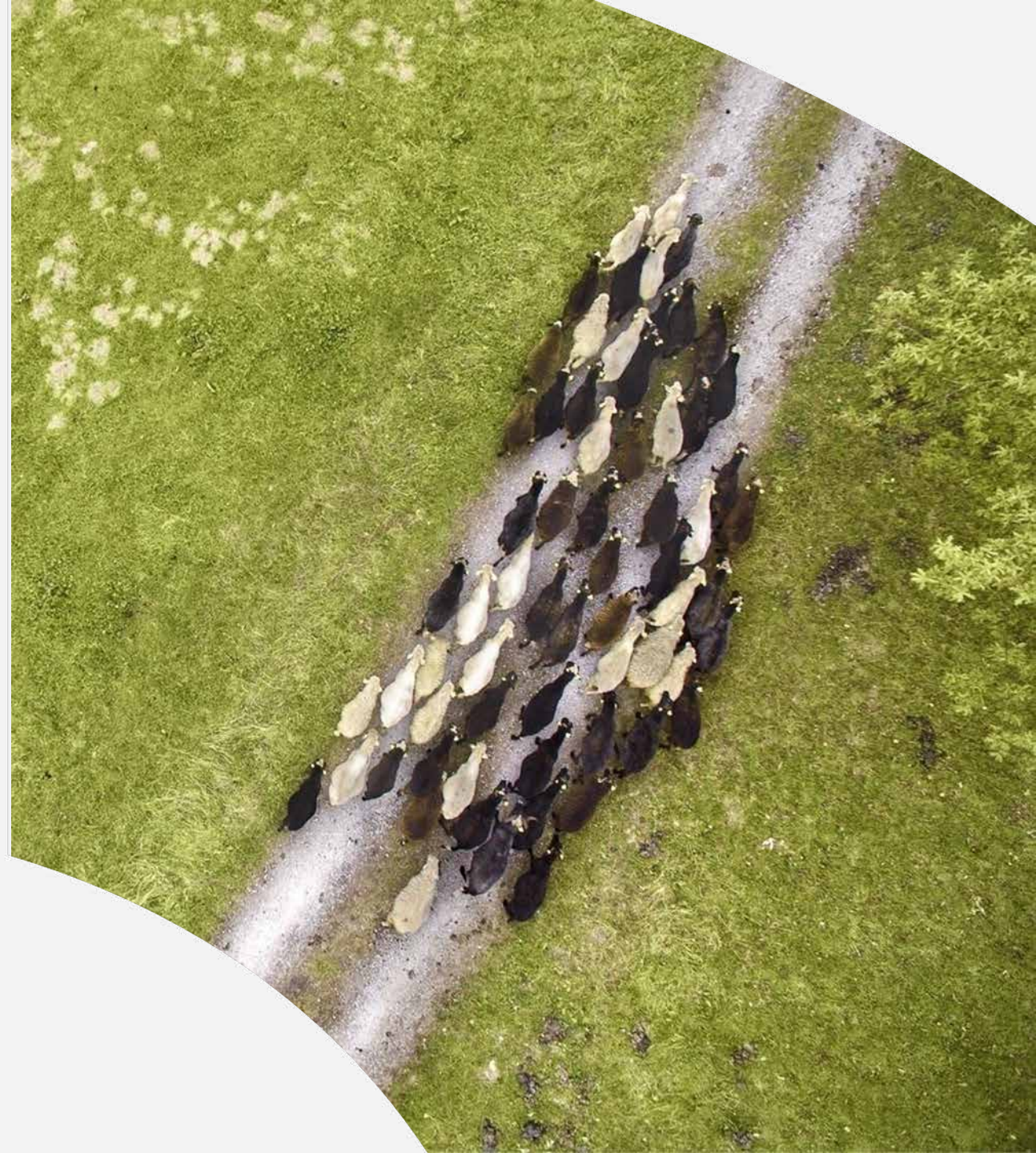
Senior Portfolio Manager, Soils and Agrisystems

luke.williams@bbsrc.ukri.org



Agenda

- 1** Brief outline of UK Research and Innovation
- 2** Research for different purposes
- 3** UK Soil Research and the Soil Mission
- 4** Upcoming Funding



UK Research and Innovation

We work with the government to invest over £7 billion a year in research and innovation by partnering with academia and industry to make the impossible, possible. Through the UK's nine leading academic and industrial funding councils, we create **knowledge with impact**.



**UK Research
and Innovation**

Future priorities



Research for different purposes

Discovery

Responsive Mode

Pushing the Frontiers

Interdisciplinary
Responsive Mode

Strategic

Soils Training and
Research Studentships

Signals in the Soil

European Joint
Programme SOIL

Molecules to
Landscapes

Institute

Institute Strategic
Programmes

National Capability

Policy

Building a Green
Future

Strategic Priorities
Fund

Previously funded work

Together, we are UKRI AgriFood4NetZero Network+

Bringing together key research leaders and stakeholders, their organisations and networks, our mission is to shape the next decade of research to support and drive the agrifood system's progress towards net zero. As a Network+, we're taking a co-development approach to engage scientists and stakeholders to progress and prioritise UKRI and other research. We've assembled – and continue to strengthen – a formidable team that combines systems-level expertise with comprehensive coverage of all key specialisms.

Our reach, like our expertise and coverage, is broad and deep. Stakeholders extend across government departments, devolved administrations and their agencies, NGOs, innovation bodies, the agrifood industry, and farming and fishery groups across the UK.

We want you to join us. To play your vital part, by adding your voice, your specialist expertise.

[Join our Network+](#)



<https://www.agrifood4netzero.net/>

Soil can be found in many different places

Centre in climate change and health

Apply for funding to establish a centre in climate change and health.

This centre will be a world-leading centre of excellence that carries out interdisciplinary, cutting-edge and impactful research to address major challenges at the interface of climate and health research.

You must be based at a UK research organisation eligible for UK Research and Innovation (UKRI) funding.

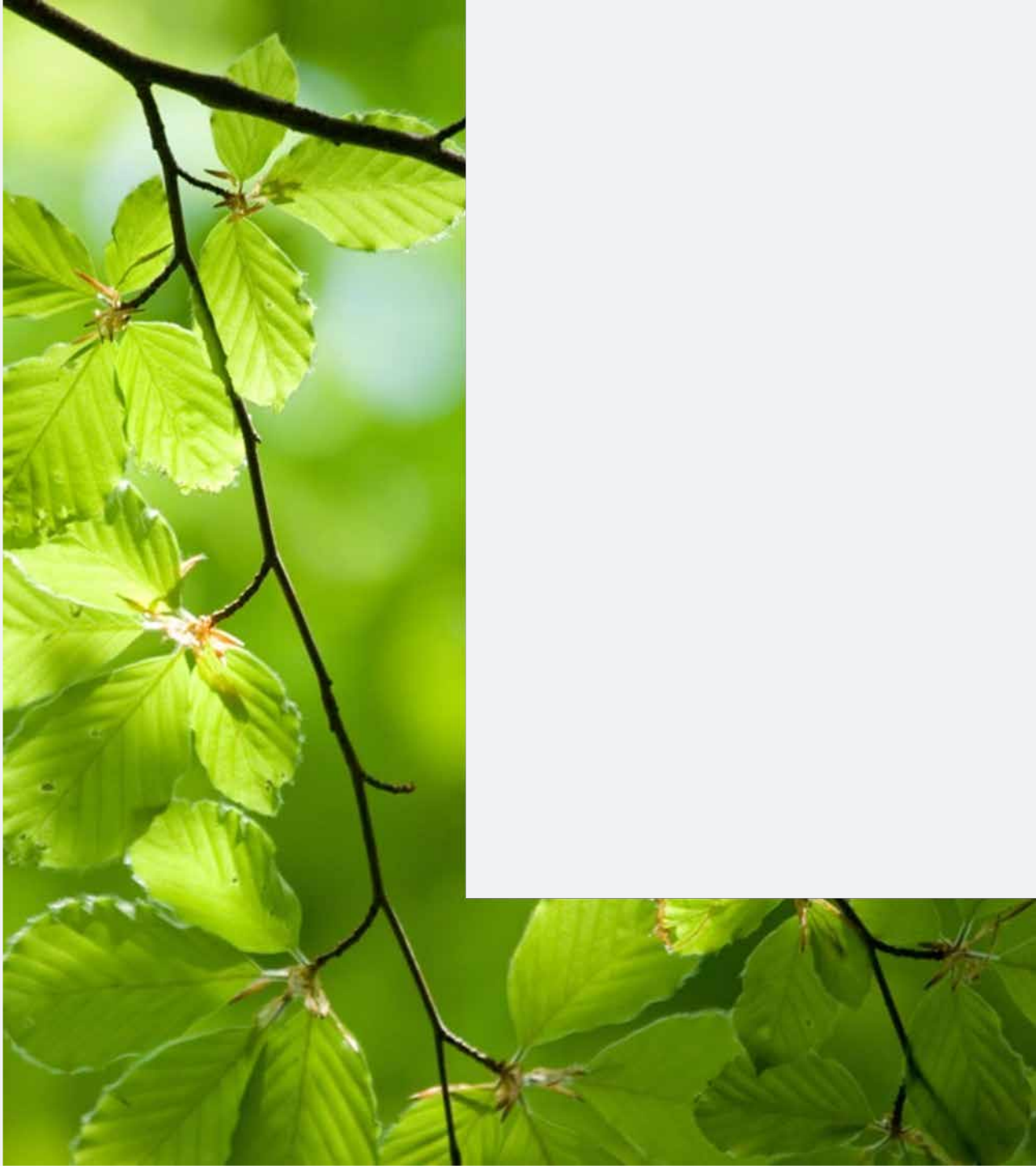
We will fund all justified costs associated with international co-investigators and co-investigators from UK business, civil society or government bodies at 100% FEC. However, these combined costs must not exceed 30% of the full 100% FEC cost of the grant.

UK Soil Research and the Soil Mission

Soil Mission	UKRI Funding
Discovering the subsoil	Signals in the Soil
Soil pollution processes	Molecules to Landscapes
Onsite digital technologies	Signals in the Soil
Innovations to prevent and combat desertification	Landscape Decisions SPF
Soil friendly practices in horticulture	Landscape Decisions SPF
Soils in spatial planning	Landscape Decisions SPF
Back to earth – bringing communities and citizens closer to soil	Green Transition Ecosystems (AHRC)
Co-creating solutions for soil health in Living Labs	AgZero+
Carbon farming in living labs	AgZero+

Building a Green Future

Accelerating the UK's transition to a secure and prosperous green economy by 2050. Partnering with UK Government departments, business and internationally, we will build on our existing £800m p.a. portfolio, to fast-track development of solutions necessary for meeting UK NetZero targets, through strategic cross-UKRI investments, keeping the UK at the forefront of the green industrial revolution.





Biotechnology and
Biological Sciences
Research Council

Thank you

luke.williams@bbsrc.ukri.org



BBSRC



@BBSRC



BBSRCmedia



European and UK Soils Research and Innovation Capabilities



Martin Broadley
Science Director
Rothamsted Research





Horizon Europe Mission: A Soil Deal for Europe - Community Building Event [1st March 2023]

Professor Martin R. Broadley
Director, Sustainable Soils & Crops
Rothamsted Research

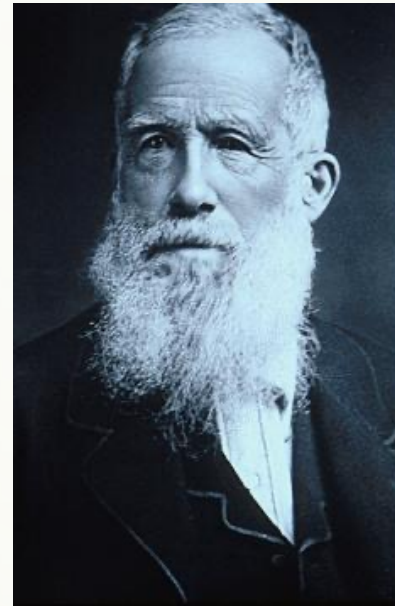
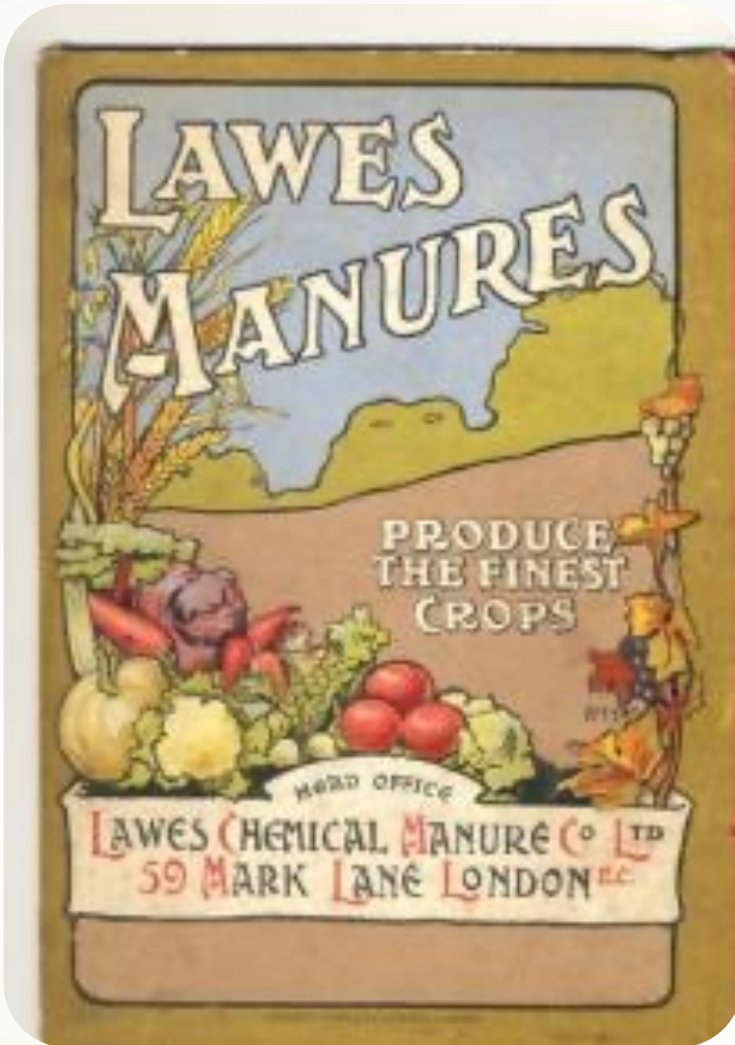


**ROTHAMSTED
RESEARCH**



Rothamsted Experimental Station est. 1843

- Developed our understanding of plant nutrition
- Produced the world's first commercial chemical fertilisers



Sir John Bennet Lawes

1814–1900

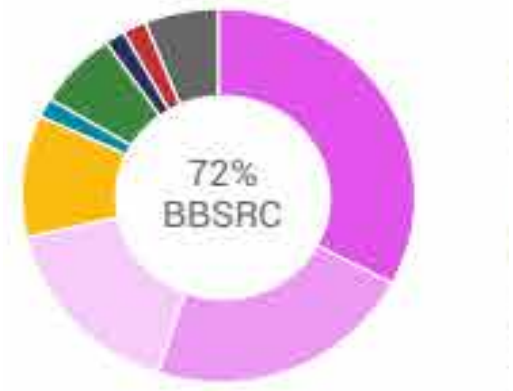


Sir Joseph Henry Gilbert

1817–1901

Rothamsted today:

One of 8 BBSRC core-funded institutes, providing National Capability and expertise in a strategically key area



- BBSRC**
- BBSRC Strategic
- BBSRC Capital
- BBSRC Other
- Non BBSRC**
- UKRI/other UK public sector
- EU
- Industry
- Trusts, foundations, charities
- Other – research
- Non-research

- **>400 people >35 nationalities**
+ collaborations in over 50 countries
- **>300 publications per year**
in peer-reviewed scientific journals
- **2 campuses + 2 field trial site**
830 ha of field environment
- **~£32m turnover**
10-15% of this from industry
- **Rothamsted Enterprises Ltd (REL)**
>30 tenant companies



Soil Sciences: Key Research Leads



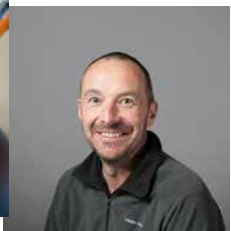
Soil Microbiology

Ian Clark
Tim Mauchline
Vanessa Nessner Kavamura



Soil Physics

Hannah Cooper
Xiaoxian Zhang



Net Zero & Resilient Farming

Soil Systems

Laura Cardenas
Alice Milne
Andy Neal
Martin Blackwell



Soil C/Biogeochemistry

Marcelo Galdos
Steve McGrath

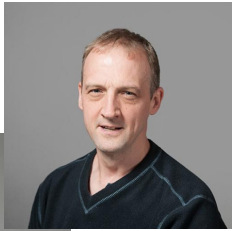


Soil Fertility / Crop Nutrition

Martin Broadley
Stephan Haefele
Edward Joy
Grace Kangara

Agronomy/Long-Term Experiments

Andy Gregory
Jon Storkey



Protecting Crops & the Environment

Institute Strategic Programmes (ISPs)



Growing Health



Delivering Sustainable Wheat



Resilient Farming Futures

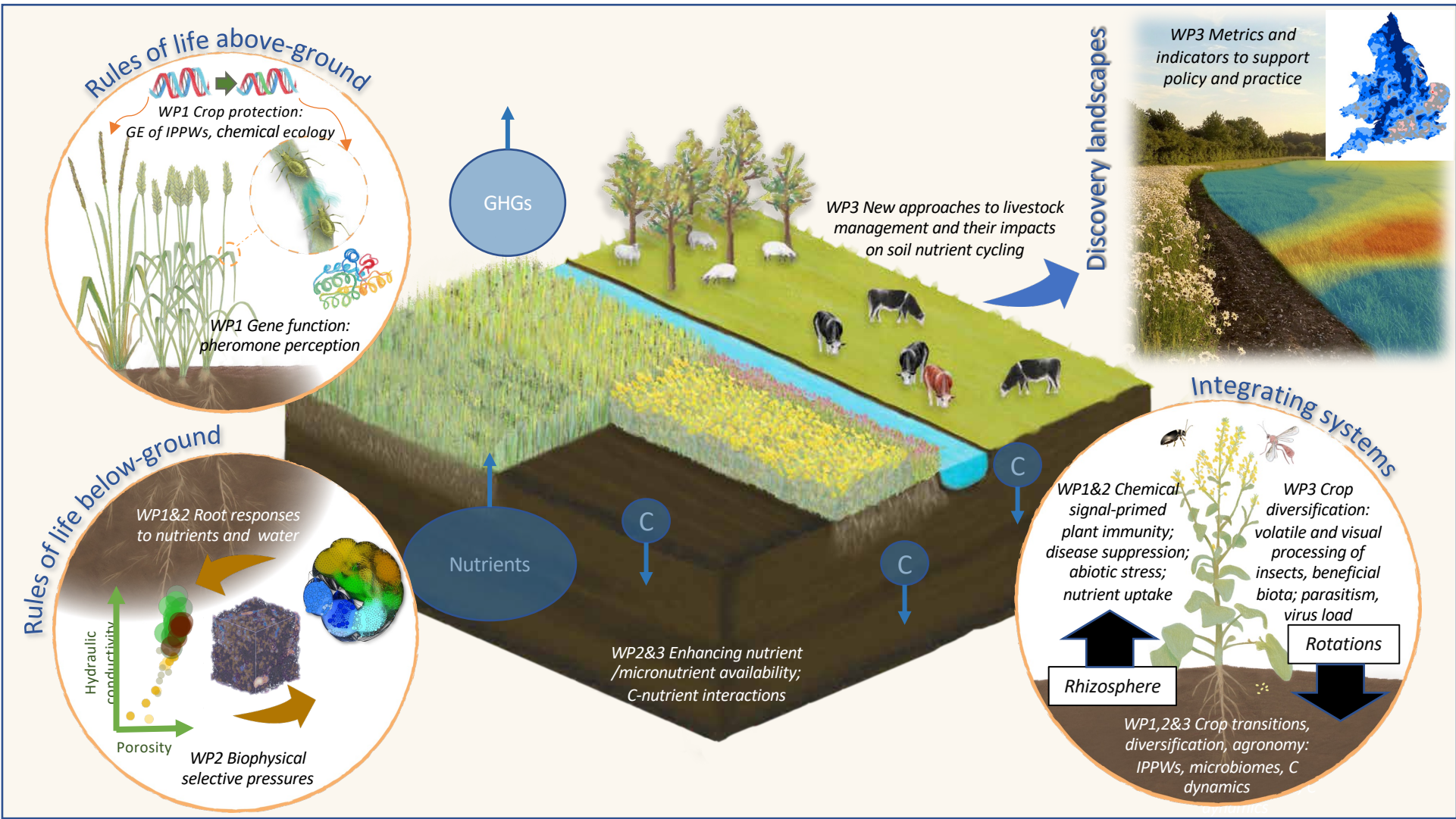


AgZero+

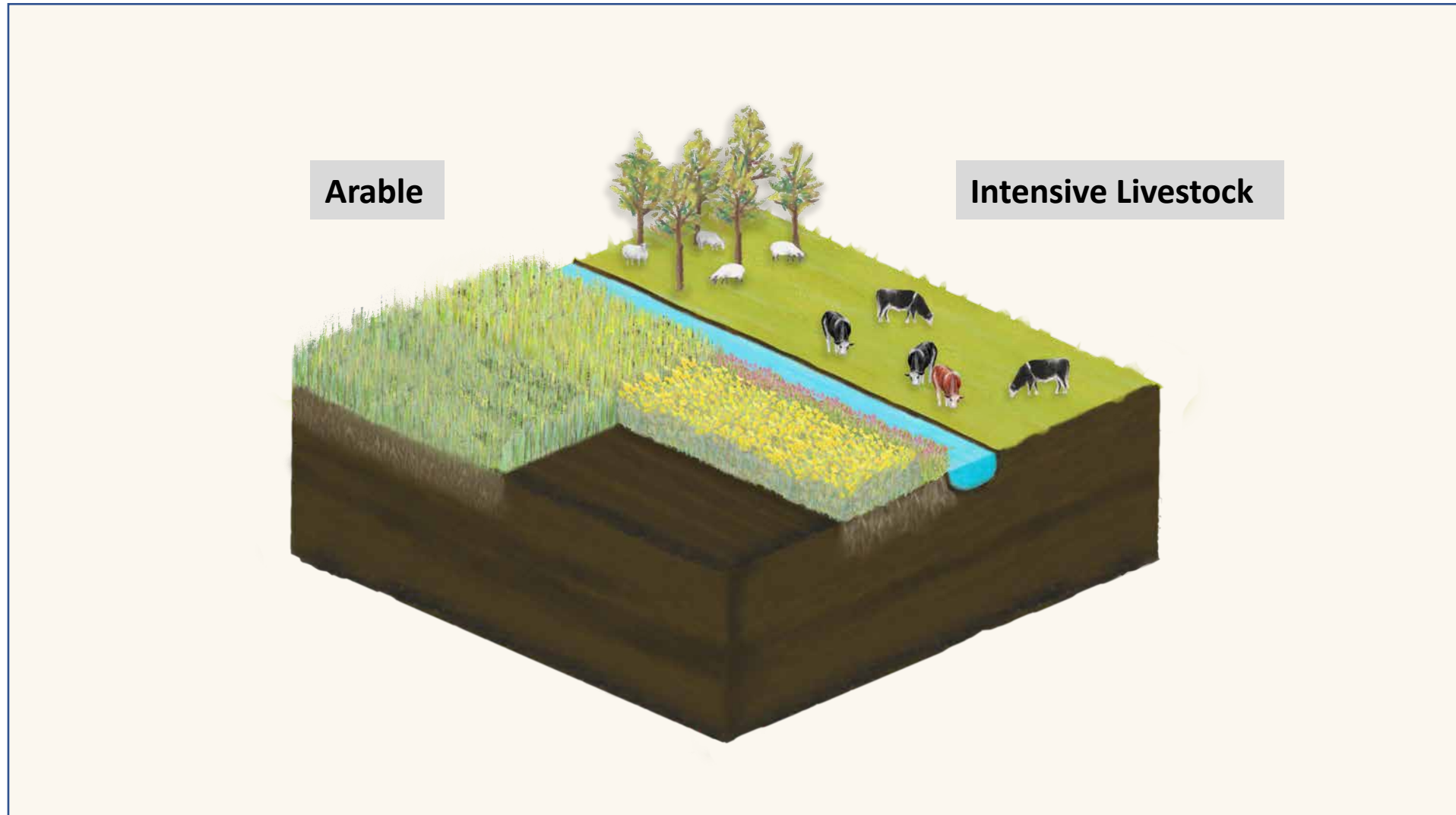


Green Engineering

Growing Health ISP: 1-health ambitions



Growing Health ISP: field platforms



Growing Health ISP: arable platforms



Large-Scale Rotation Experiment (+new arable rotations, LTEs ...), Harpenden

Growing Health ISP: grazing platforms



Silvo-pasture systems; stocking/restricted grazing systems, North Wyke



Transformation for sustainable nutrient supply and management

HORIZON-CL6-2022-ZEROPOLLUTION-01-03: EU—China international cooperation on nature—based solutions for nutrient management in agriculture



Dr Martin Blackwell

Overall objective:

To develop and test innovative **Nature Based Solution (NBS)** practices and pathways that contribute to a socio-ecological transformation of existing intensive agricultural systems towards an increasingly sustainable nutrient management system.

Partners:

University of Hohenheim, Germany
Wageningen University, Netherlands
Aarhus University, Denmark
Szechenyi Istvan University, Hungary
Plan4all, Czech Republic
Rothamsted Research, UK
Research Institute of Organic Agriculture, Switzerland
Chinese Academy of Agricultural Sciences, China



Start date: December 2022

End date: November 2026 (4 years)

Overall value: €6 million

Nature based solutions include:

Novel crop rotations

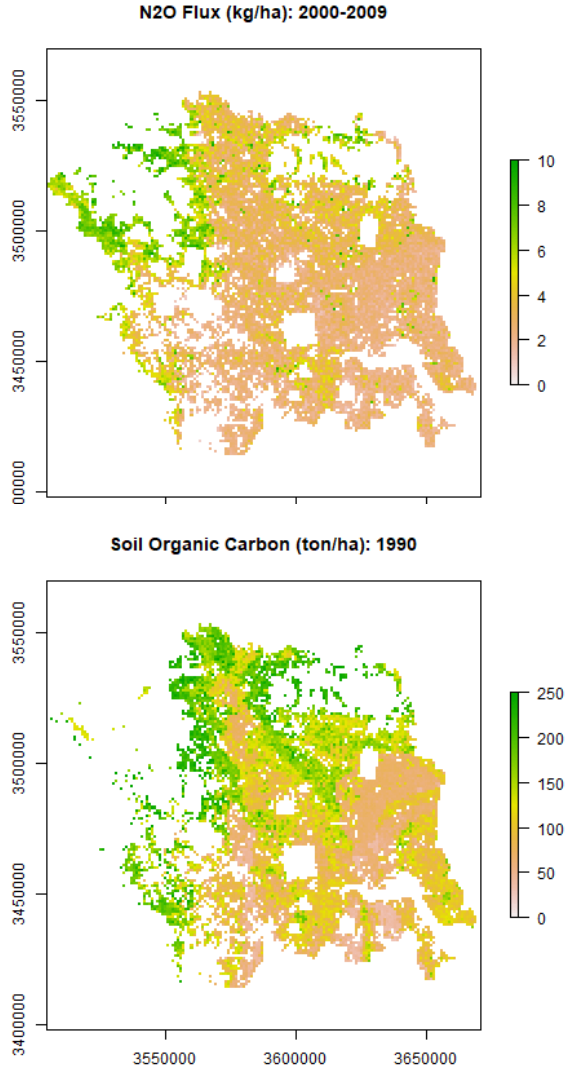
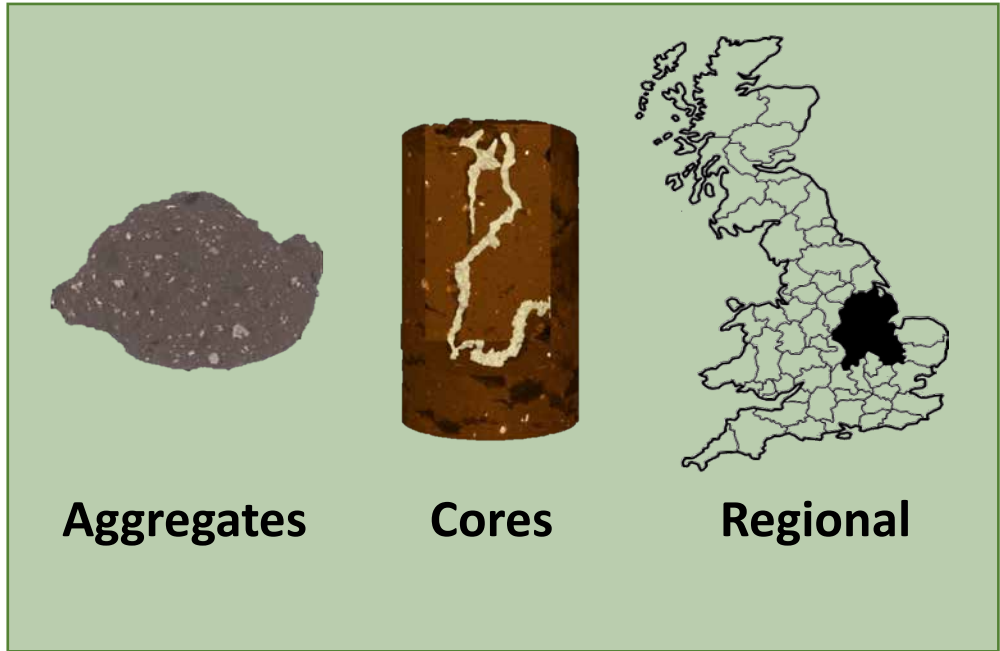
Manure management

Nutrient management Decision

Support Systems (DSS)

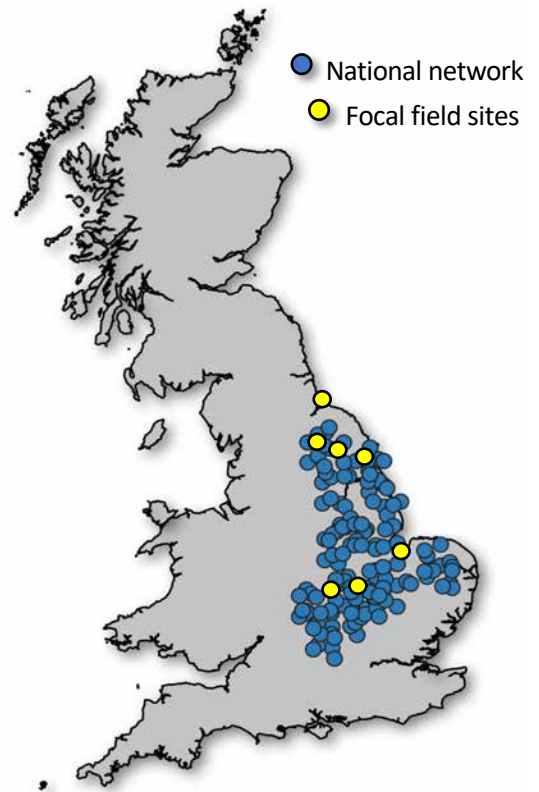
Novel/recycled fertilisers

Soil Sciences: Scales & Sensors



Soil Sciences: Co-Development

Sustainable weed management...



Black Grass Resistance Initiative Network of ~70 farmers has enabled us to capture a valuable time series on the impacts of environment and management on resistance evolution. Engagement with farmers has also influenced treatments explored in our experiments.

Impacts of diversification and regenerative agriculture on soil health and pests and beneficials...



Min-/zero-till
**Notts-Leics min-till farmer group,
BASE farmer network**



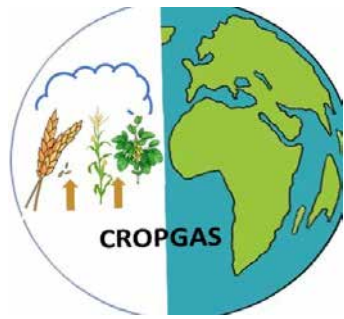
Cereal/cover crop rotations, under sowing
**Honeydale Farm, Cotswolds,
BASF farmer network**



Alley cropping, silvo-arable,
Wakelyns Farm, Suffolk



Grazed herbal rotation leys,
Erth Barton Farm, Cornwall



CropGas: The effect of conservation agriculture interventions on greenhouse gas emissions



Dr Laura Cardenas

Partners:

- Ireland: UCD
- Malawi: LUANAR
- Poland: Poznan, Fargo
- South Africa: U Free State
- UK:
 - ✓ Rothamsted Research
 - ✓ U Nottingham
 - ✓ British Geological Survey
- Zambia: U Zambia
- Zimbabwe: U Zimbabwe

Activities include:

- Use existing experiments in the UK, Ireland, and Poland that include locally relevant zero/min till and crop rotation interventions with conventional cultivation comparisons
- Use existing experiments in South Africa, Zambia, Zimbabwe and Malawi which compare conventional management of a maize crop with zero/min till and residue retention combined with other CA interventions (e.g. intercropping)
- Install field instrumentation to measure soil GHG emissions and soil parameters for plots across all sites with good temporal resolution
- INCREASE CAPACITY in developing countries that can be extended to other countries
- Develop CS emission factors for crop rotations and assess mitigation strategies



Training Malawi, December 2022



Hypothesis workshop, June 2022



IN RESPONSE TO:

EXPRO+ ESA AO/1-11144/22/1-EF FOR AGRICULTURE SCIENCE PRECURSORS

PRIME CONTRACTOR UNIVERSITY OF TWENTE - ITC

SUB CONTRACTORS NATIONAL RESEARCH COUNCIL OF ITALY

ROTHAMSTED RESEARCH

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

UNIVERSITY OF MILANO BICOCCA

UNIVERSITY
OF TWENTE.



National Research
Council of Italy

LMU

LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

UNIVERSITA'
DEGLI STUDI
DI MILANO
BICOCCA

ROTHAMSTED
RESEARCH

Earth Observation for estimating and predicting crop nutrients (EO4Nutri)



Dr Stephan Haefele



Dr Alice Milne

Innovative scientific solutions that bring together the capabilities of various Earth Observation (EO) data through novel methods and approaches to estimate and predict the nutrient content of soil, crop canopy, and harvested crops for global staple grains: maize, rice, sorghum, teff and wheat

ID	WP Name	WP Manager	Organization
WP0	Project Management	M. Belgiu	ITC
WP1	Scientific requirement consolidation	M. Belgiu	ITC
WP2	Dataset collection	G. Candiani	CNR-IREA
WP3	Development and validation	M. Marshall	ITC
WP4	Agriculture Science Precursors Experimental Dataset Generation	M. Marshall	ITC
WP5	Advancing Earth System Science	M. Rossini	UniMIB
WP6	Transferring science into solutions for society	S. Haefele	RRes
WP7	Science agenda and five years scientific roadmap	M. Belgiu	ITC
WP8	Promotion and Coordination	M. Belgiu	ITC

RRes: Open for Collaborations!



1. **HORIZON-MISS-2023-SOIL-01-01: Discovering the subsoil**
2. **HORIZON-MISS-2023-SOIL-01-02: Soil pollution processes – modelling/inclusion in digital decision-support tools**
3. **HORIZON-MISS-2023-SOIL-01-03: Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition**
4. HORIZON-MISS-2023-SOIL-01-04: Innovations to prevent and combat desertification
5. HORIZON-MISS-2023-SOIL-01-05: Soil-friendly practices in horticulture, including alternative growing media
6. **HORIZON-MISS-2023-SOIL-01-06: Soils in spatial planning**
7. **HORIZON-MISS-2023-SOIL-01-07: Back to earth: bringing communities and citizens closer to soil**
8. **HORIZON-MISS-2023-SOIL-01-08: Co-creating solutions for soil health in Living Labs**
9. **HORIZON-MISS-2023-SOIL-01-09: Carbon farming in living labs**



European and UK Soils Research and Innovation Capabilities



Jane Rickson
Prof. of Soil Erosion & Conservation
Cranfield University



InnovateUK
KTN



**Horizon Europe Mission:
A Soil Deal for Europe**

Soils Research and Innovation Capabilities at Cranfield University

**Jane Rickson, FIAGR, CENV
Professor of Soil Erosion and Conservation**

**Centre for Soil, Agrifood and Biosciences
School of Water, Energy and Environment
Cranfield University
United Kingdom**





Cranfield soils expertise and capability



Prof Guy Kirk
Soil Systems



Prof Wilfred Otten
Soil Biophysics



Prof Jim Harris
Soil biology



Prof Jane Rickson
Soil degradation and conservation



Dr Rob Simmons
Reader,
Sustainable soil management



Dr Ruben Sakrabani
Assoc. Prof, *Soil Chemistry*



Dr Jack Hannam
Senior Fellow,
Pedology



Dr Nick Girkin
Lecturer, *Plant/Soil Systems*



Dr Mark Pawlett
Senior Research Fellow, *Soil Microbiology*



Dr Dan Evans
Research Fellow,
Soil management



Dr Lynda Deeks
Research Fellow,
Soil Science, NERC KE Fellow



Dr Ben Ingram
Research Fellow,
Modelling Metal Contamination of Rice Supplies in Asia

Dr Toby Waine, *Lecturer, Remote Sensing*

Dr Daniel Simms, *Research Fellow in Remote Sensing & GIS*

Prof Ron Corstanje, *Senior Lecturer, Environmental Informatics*

Prof Steve Hallett, *Senior Research Fellow, Soil Resource Informatics*

Dr Fady Mohareb, *Lecturer, Bioinformatics*

Dr Miguel Gabarron Galeote, *KTP Associate, Soil Systems Modeller*

Dr Joanna Zawadzka, *Research Assistant, Pedometrics*

Prof Jerry Knox, *Water Resources and Climate Adaptation*

Prof Tim Hess, *Water Management*

River Restoration Centre

Prof Andrew Thompson, *Molecular Plant Science*

Dr Sofia Kourmpetli, *Lecturer, Plant Sciences*

Dr Maria Anastasiadi, *Research Fellow, Plant Biochemistry*

Dr Pedro De Almeida, *Research Fellow, Plant Molecular Genetics*

Dr Michail Giannitsopoulos, *Research Fellow, Bioeconomic modelling*

Dr Paul Burgess *Crop Physiology/Agroforestry*

Prof Leon Terry, *Post harvest biology*

Prof Naresh Magan, *Mycology*

Dr Angel Medina Vaya, *Senior Lecturer, Food Mycology*

Dr Maria del Carmen Alamar Gavidia, *Research Fellow, Postharvest Bioscience*

+ New academic appointments in Soils, Agricultural Engineering, Bioinformatics and Mycology

The National Soil Map and Inventory

Soils properties vary

- Texture
- Stoniness
- Organic content
- Depth to rock
- Mineralogy
- Permeability
- Natural drainage
- Consolidation
- Acidity

Hiraethog (B.Adams) Denbigh (B.Adams)



Cegin (B.Adams)



Wilcocks



National Soil Map and Soil Inventory

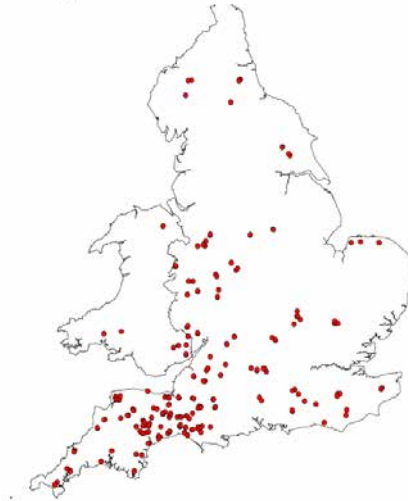
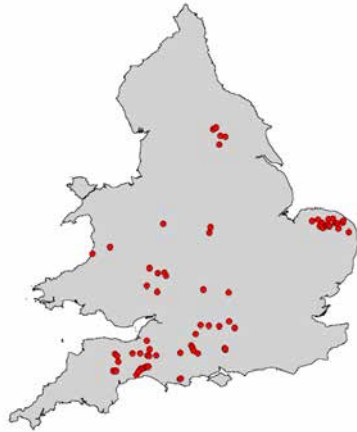
- Product of > 200 years of field work
- 747 Soil Series (soil types)
- 306 Soil Associations (soil types occurring together)

www.landis.org.uk

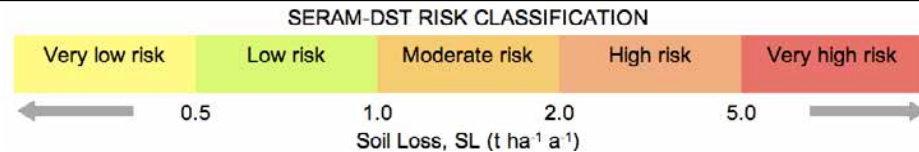
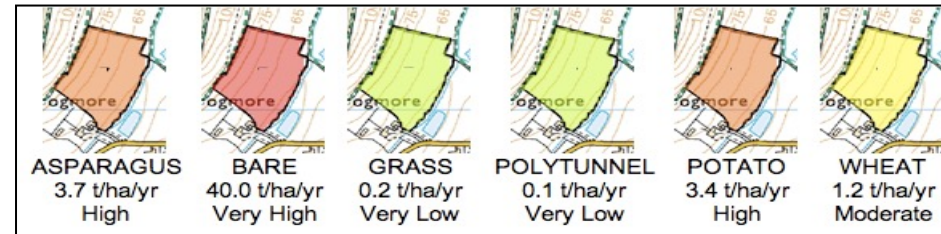
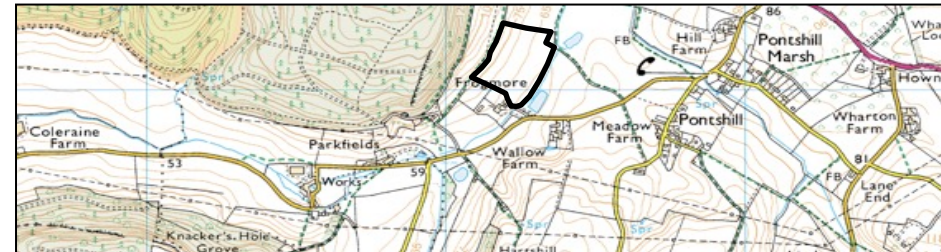
Soil degradation threats: soil erosion research



Laboratory experiments



Field erosion surveys



Modelling: soil erosion risk classes

Total costs of soil degradation in England and Wales (£ million per year)
(From Graves et al. (2011)) Prices adjusted for inflation, 2022

£ million per year	Ecosystem service						Total	
	Provisioning	Regulating services				Cultural		
	Agricultural production	Flooding	Water quality	GHG emissions	Other		Central estimate	%
Soil erosion	54	88	81	12	?	?	235	14%
Compaction	270	216	95	68	?	?	648	39%
Loss of organic matter	3	?	?	743	?	?	745	45%
Contamination	?	?	?	?	34*	?	34*	2%
Loss of soil biota	?	?	?	?	?	?	?	0%
Soil sealing	?	?	?	?	?	?	?	0%
TOTAL	327	304	176	822	34	?	1,662 m	100%
%	20%	18%	11%	49%	2%		100%	

* cost of regulation to protect soils from contamination ? = Estimates not available at national scale

From Graves, A.R., Morris, J., Deeks, L.K., Rickson, R.J., Kibblewhite, M.G., Harris, J.A., Farewell, T.S. and Truckell, I. (2015) 'The total costs of soil degradation in England and Wales', Ecological Economics, 119, pp. 399–413.

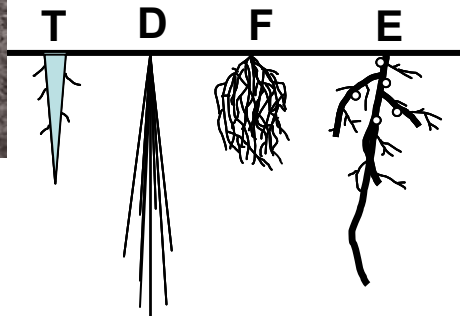
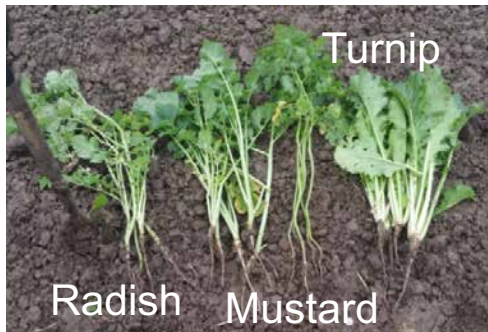
N.B. Total costs of soil erosion in Scotland = £50 million per annum (2019 costs)

Innovative soil management research

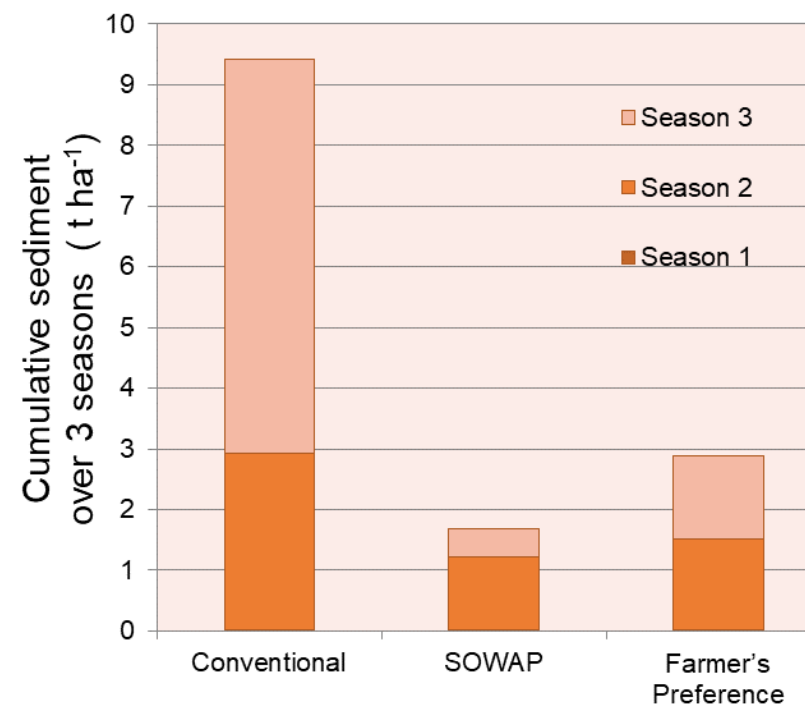
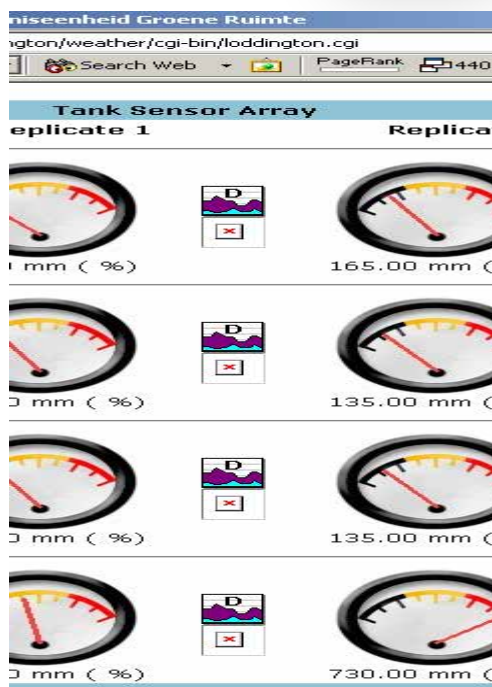
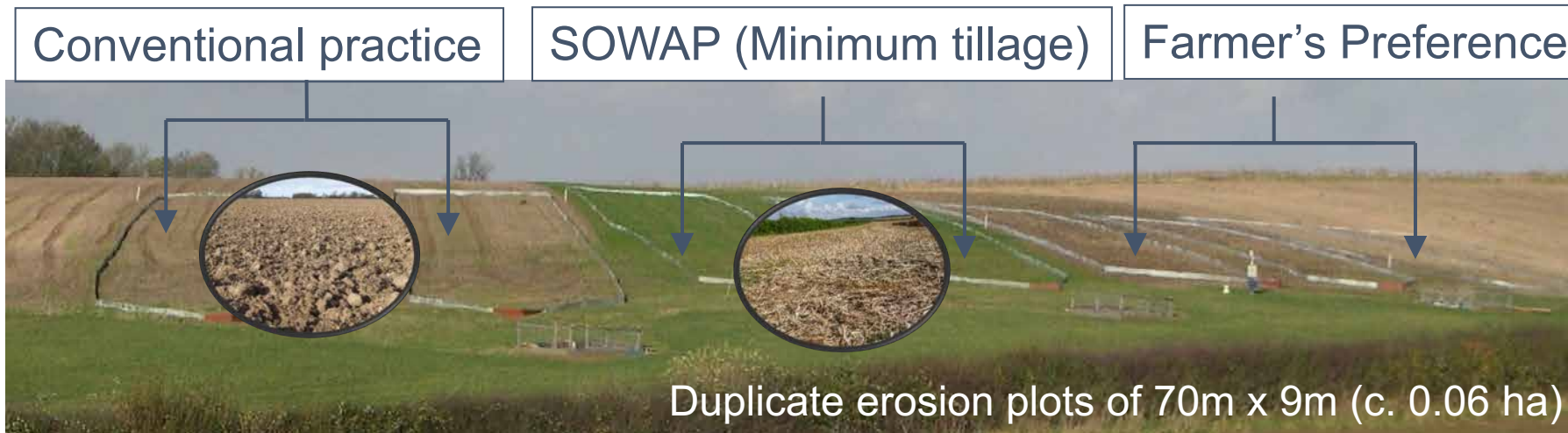


Applied soils research at Cranfield

- Cultivations and tillage practices
- Cover cropping
- Soil (organic) amendments
- Field engineering
- Erosion control products



Soil management research: Soil and Water Protection in Northern Europe (SOWAP)





CHAP Soil Health Facility



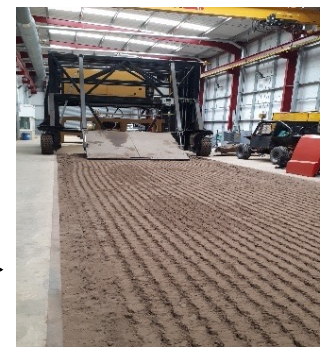
1. Soil preparation



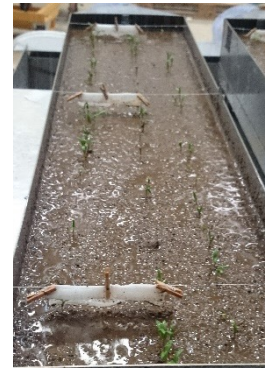
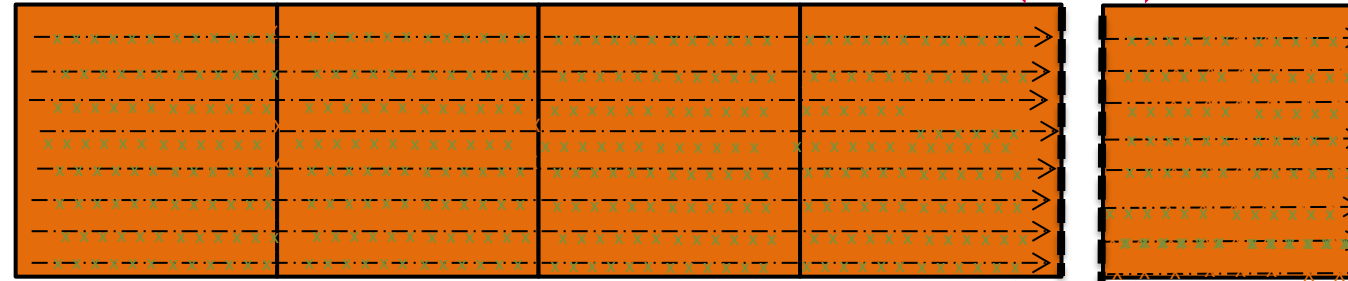
2. Soil lysimeters joined before cultivations

3. Tillage / cultivations / drilling

Tillage / cultivations ----->
Seeds drilled x x x x x



4. Soil lysimeters separated after tillage and drilling



6. Lysimeters + soil erosion trays returned to growth rooms / glasshouse throughout season



5. Lysimeters to glasshouse



7. Rainfall simulation



8. Crops grown to maturity in lysimeters and soil trays



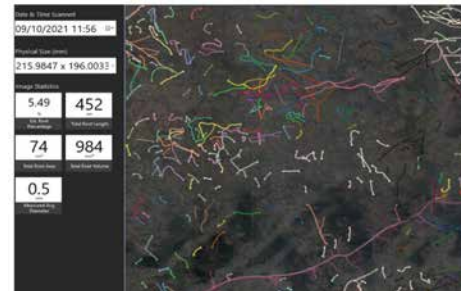
9. Post harvest, lysimeters returned for next season's soil preparation





Innovative soils research

Initial and final measurements of **soil health**



Soil parameter

Soil texture
Penetration resistance (in-situ - continuous depth)
Infiltration rate (in-situ using ring infiltrometer)
Surface (micro)topography
Bulk density
Aggregate size distribution (including stone content)
Total N
KCl extractable N
Total C
Soil organic matter (loss on ignition)
pH
Total P
Available P
Total K
Available K
Available Magnesium
Sulphur
GHG emissions using AgriEPI kit + chambers
CO ₂ respiration
Microbial biomass
Earthworms (in-situ)

**Horizon Europe Mission:
A Soil Deal for Europe**

**European and UK Soils
Research and Innovation Capabilities**



Thank you for your attention

**Jane Rickson, FIAgrE, C.Env.
Professor of Soil Erosion and Conservation
Cranfield University
United Kingdom**





European and UK Soils Research and Innovation Capabilities



Elaine Groom
Northern Ireland NCP Cluster 6
Agri-Food & Biosciences Institute



EU Soil Mission

Soil Health in N. Ireland:

Preparing for a
regional Living Lab



Dr Elaine Groom

NI Contact Point Cluster 6

March 2023

afbini.gov.uk



About Agri-Food and BioSciences Institute

A Public Research Institute funded by NI Department of Agriculture Environment and Rural Affairs (DAERA)

- Staff complement: ~650 FTE permanent staff
- Operates across a wide breadth of scientific expertise, protecting animal, plant and human health and enhancing the natural and marine environment.
- Provides research, demonstration, analytical and diagnostic services, and scientific advice to the agri-food industry
- Supports policy development and statutory testing, surveillance, emergency response.



1. Newforge Lane, Belfast (HQ, Research Laboratories)
2. Stormont, Veterinary Sciences
3. Crossnacreevy, Plant Testing Station
4. Hillsborough Research Farm
5. Loughgall Research Farm
6. Omagh, Veterinary Laboratory
7. Bushmills, River Bush Salmon Station
8. Research Vessel Corystes

Role:

- A regional contact point for Horizon Europe (CL6)
- Based in AFBI

A screenshot of the Horizon Europe website. The header includes the logo 'HORIZON SCIENCE | INDUSTRY | SOCIETY', the handle '@HORIZONEUROPE', and a search bar. The navigation menu includes 'HOME', 'HORIZON EUROPE', 'NEWS & EVENTS', 'SUPPORT AVAILABLE IN NI', and 'COLLABORATION'. Below this is a 'Support Contacts' section with three profiles: Grainne Lennon (North-South), Elaine Groom (Agri-Food, Bioeconomy and Environment), and Claire Griffin (EIC UK National Contact Point). Each profile includes a photo, name, role, and contact information (email and phone number), along with a 'Read More...' link.

Grainne Lennon
North-South
Grainne is responsible for Horizon Europe at IntertradeIreland in her role as International Funding and Collaborations Broker. As such Grainne ...
✉ grainne.lennon@intertradeireland.com
☎ 0044 (0) 28 3083 4163 or 078 3366 8774
[Read More...](#)

Elaine Groom
Agri-Food, Bioeconomy and Environment
Elaine is the Northern Ireland Contact Point covering the areas of Food, Bioeconomy, Natural Resources, Agriculture and the Environment (Cluster) ...
✉ elaine.groom@afbini.gov.uk
☎ 028 9025 5078 & 07769 188940
[Read More...](#)

Claire Griffin
EIC UK National Contact Point
Claire Griffin is the UK National Contact Point for European Innovation Council (EIC) and is happy to help, support and ...
✉ Claire.Griffin@uk.ukri.org
☎ +44 7517 830086
[Read More...](#)

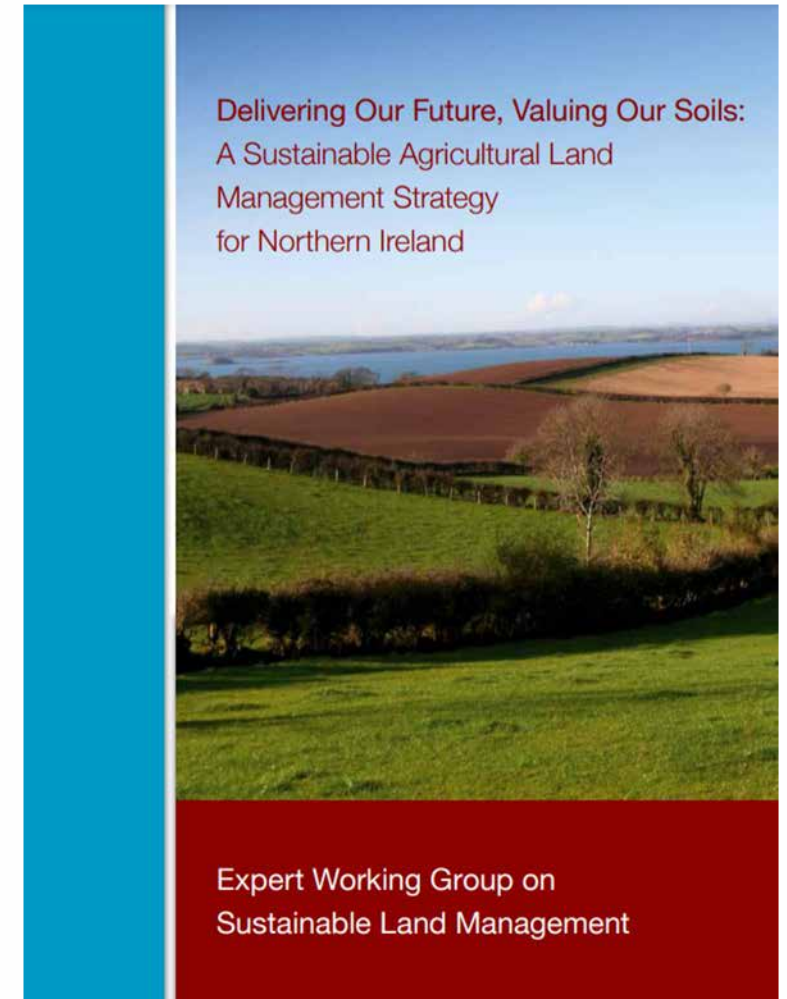
Contact details:

www.horizoneuropeni.com



Northern Ireland's journey towards soil health

- Agriculture - vital part of the NI economy
 - Uses more than 75% of total NI land area
 - NI is 6% of UK land area but produces 10-15% of UK agricultural products from livestock
- Land Management - DAERA Policy Development
 - Independent Expert Working Group on Sustainable Land Management
 - Report (2016) *"Delivering Our Future, Valuing Our Soils: A Sustainable Agricultural Land Management Strategy for Northern Ireland"*
 - Annex (2018): *"Making Ammonia Visible"*
 - H2020 EJP Soil Project (2020-2025)
 - Northern Ireland Soil Nutrient Health Scheme (2022-2026)



EJP SOIL: Towards climate-smart sustainable management of agricultural soils

A European Joint Programme COFUND on Agricultural Soil Management

- €80M COFUND, commenced February 2020;
- duration 60 months
- The EJP will boost soil research
 - in particular on agricultural soil management and its contribution to climate change mitigation and adaptation.
- Develop a sustainable framework for an integrated community of research groups working on related aspects of agricultural soil management.

[Website: https://ejpsoil.eu/](https://ejpsoil.eu/)



EJP SOIL has received funding from the European Union's Horizon 2020 research and innovation programme: Grant agreement No 862695



EJP Soil - Overarching challenges : Ambitions

Scientific Level

- 5 year roadmap
- New knowledge on management options that are climate-smart sustainable soil
- New knowledge on SOC sequestration
- Scientific underpinning on policy

Operational Level

- Strengthen the scientific community alignment, implementation of research, training and capacity building
- Harmonized soil information system
- Improved reporting on soil (carbon, soil degradation, biodiversity)

Policy Level

- Evidence based recommendations for policy makers
- Science policy practitioners dialog

Societal Level

- Raise awareness on soils their challenges, their management
- Improve science – stakeholders dialog, participation and co-construction

AFBI – EJP Soil Activity

- **Task 2.4.5: Stock take study and recommendations for harmonizing methodologies for fertilization guidelines across regions (Task Leader)**
- **Example Internal Research Projects:**
- CarboSeq - How much soil organic carbon (SOC) can be sequestered in European soils?
- SensRes - Sensor data for downscaling digital soil maps to higher resolution
- MIXROOT-C - Are mixed species systems fostering below ground C inputs and C sequestration?

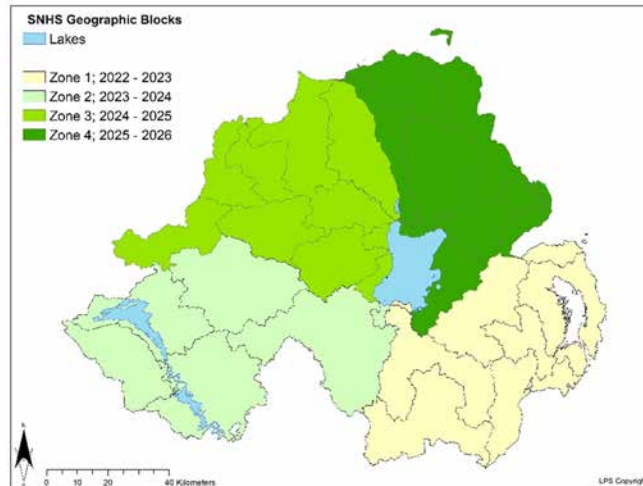
- EJP Soil Newsletter [sign-up](#)
- Annual Science Days & General Meeting 2023 - [Click to register!](#)
- Call for papers - [EJP SOIL Special Issue](#)
- Webinar 30 March on spring calls: [Visiting scientists & Access to infrastructure](#)
- New EJP SOIL projects [strengthening international cooperation](#)



- [About National Stakeholders and Hubs](#)
- Become a stakeholder – [sign-up](#)
- UK National Hub – Webpage

NI Soil Nutrient Health Scheme

- Cost to DAERA £37million; Duration: 2022-2026
- AFBI, with partners Ulster University & University of Leeds
- Sampling approximately 650,000 fields in four geographic zones
- Will allow farmers to optimize the application of nutrients, increasing profitability and reducing nutrient losses for environmental benefit



AFBI_Soils @AfbiSoils · Feb 17

The Soil Nutrient Health Scheme reached its 100k milestone of fields sampled to date in you can watch the short clip from John Mercer's farm in Dromara, Co Down. [#SNHS_NI](#) [#soiltesting](#) [#soilhealth](#) [#soilscience](#) [#carboncaptureSNHS_NI](#) [@daera_ni](#) [@DAERAPermSec](#) [@DiscoverCAFRE](#) [@AFBI_NI](#)

BBC Newsline @bbcnewsline · Feb 16

There are seven hundred thousand fields in Northern Ireland - and in four years time all of them will have been tested for their soil quality. It's part of an important scheme that will help farmers to receive payments in the future.



NI Soil Baseline

FARMERS receive:

Soil Status Assessment

- Soil sampling
- Soil analysis
- Mapping
- Recommendations

Carbon Stock Estimates

- Soil C
- Above Ground Biomass

Mitigating Impact on Water

- Runoff risk mapping
- HSA/CSA

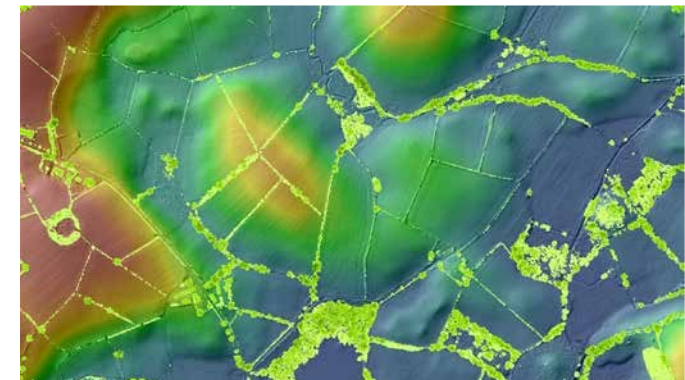
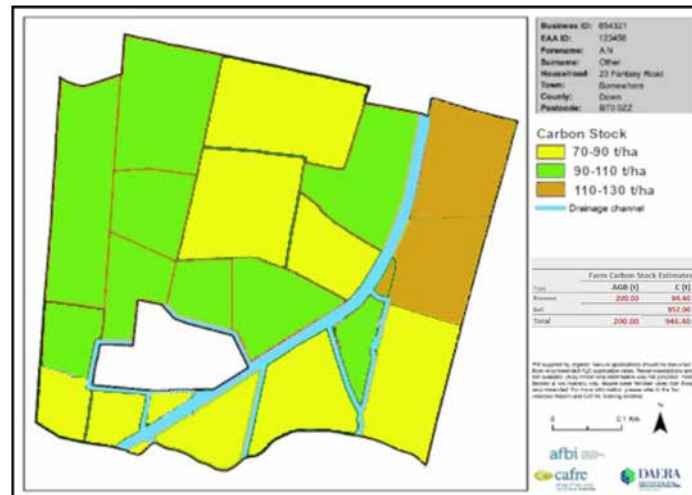
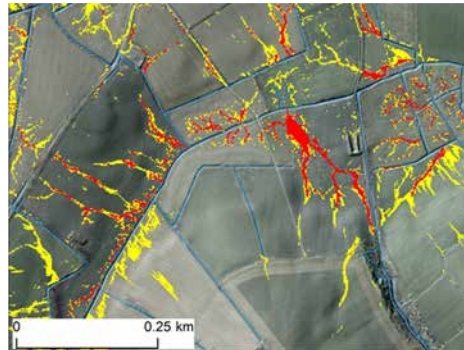
NMP training (CAFRE)

Near M. Dalghe Region, RID 69666, Sector 3627

ID	Field(s)	Area	Mg	P	K	S	Ca	LOI	pH	Recommendations				Indices		LC	NC	EIS Code	
										Line t/ha*	S†	P	K	Mg	P				K
21.23456	1/234/567/8	1.38	89	3.4	138	3.4	3.4	10	5.7	3.75	0	25	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	0.98	155	3.2	109	3.2	3.2	10	5.7	3.75	0	25	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	1.67	144	9.3	126	9.3	9.3	11	5.7	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	4.09	101	6.8	121	6.8	6.8	11	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.25	162	10.4	204	10.4	10.4	10	5.4	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	2.58	134	8.9	148	8.9	8.9	10	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	2.34	113	4.9	155	4.9	4.9	11	5.7	3.75	0	25	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	2.22	151	3.3	130	3.3	3.3	11	5.7	3.75	0	25	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.45	138	3.4	120	3.4	3.4	10	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.70	134	6.8	147	6.8	6.8	10	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.43	136	3.2	123	3.2	3.2	11	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.45	110	5.6	131	5.6	5.6	11	5.9	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.18	113	7.5	139	7.5	7.5	10	5.8	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	1.22	151	5.6	142	5.6	5.6	10	5.6	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.45	124	5.7	135	5.7	5.7	11	5.7	3.75	0	0	0	0	0	0	G	G	AS81
21.23456	1/234/567/8	3.01	118	3.0	128	3.0	3.0	11	5.3	3.75	0	25	0	0	0	0	G	G	AS81

Analysis for: P, K, pH, Mg, Ca, S, LOI (7.5cm grassland/15cm arable)

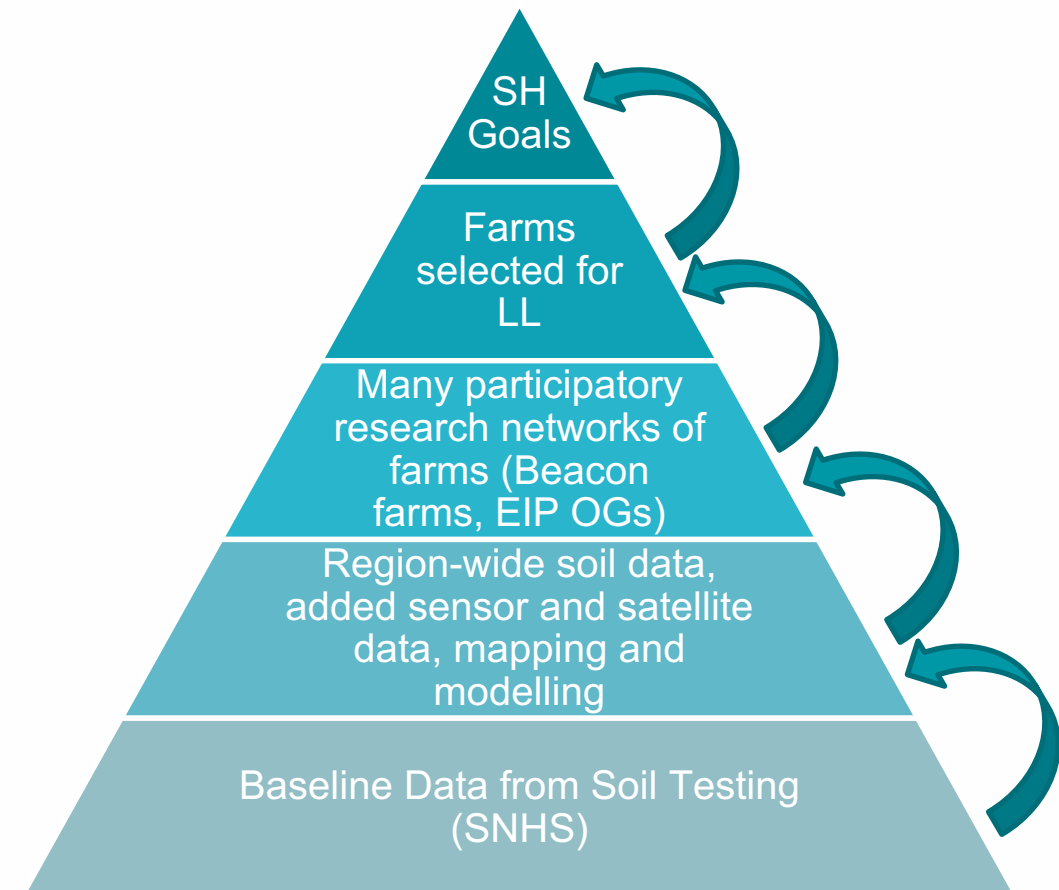
Results & Recommendations based on last/next crop entry



NI Soil Nutrient Health Scheme – Research Component

- Soil carbon in actively farmed soils - Quantification of baseline stocks – soil biogeochemistry
- Carbon in above ground biomass
 - LULUCF budgets - 100,000km+ hedgerows, small woodlands and single trees not currently contributing to the C inventory
- Basaltic soils - Improved measurement of available P – preventing over-fertilisation
- Water Catchments (AFBI, UU) - Run-off maps
- Behavioural change (Leeds, AFBI) - Assessing farmers' awareness of soil testing benefits, and impacts based on real-time data

A Northern Ireland Soil Health Living Lab





European and UK Soils Research and Innovation Capabilities

Concha Civantos
Project Advisor – NATI00NS Project
FUNDECYT Foundation





nati00ns.eu

Supporting the soil deal for Europe across national communities

Concha Civantos
NATI00NS project
FUNDECYT-PCTEX



Funded by
the European Union

NATI00NS Partners

NATI00NS partners and Advisory Board members include different stakeholders: from multidisciplinary academic partners to EU umbrella organisations representing specific groups, like farmers, public authorities, Living Labs, industry and business, multi-actor organisations and NGOs.



	Engagement events	Inform, engage & promote. 43 countries (EU MS + AC), national language
	Matchmaking – national	Facilitate creation of local LL. Online and along engagement events
	Factsheets & E-learning	Inform & train. LL, open call, types of LL peculiarity
	Helpdesk & FAQ	Support. Online, addressing all questions on LL creation
	Webinars LL methodology	Train. How to set up, develop and enlarge a LL.
	Coaching	Support. Available in local language, appointed mentors.
	Thematic events & webinars	Inform, train & engage. Different themes for specific land uses.
	Matchmaking – International & thematic	Facilitate creation of partnerships of LLs. Online and along thematic events



Individual Coaching Sessions

- For confidential, individual coaching sessions, please contact: Elaine Groom (elaine.groom@afbini.gov.uk) from the Agri-Food and Biosciences Institute



Matchmaking Sessions (will be open soon)

- B2Match Platform for continuous networking
<https://nati00ns.eu/matchmaking-opportunities>



Newsletter:

- Subscribe here: <https://nati00ns.eu/#newsletter> , and stay tuned!

nati00ns.eu



Join the Community



nati00ns.eu



@nati00ns



nati00ns

Contact

Details

NATI00NS Project

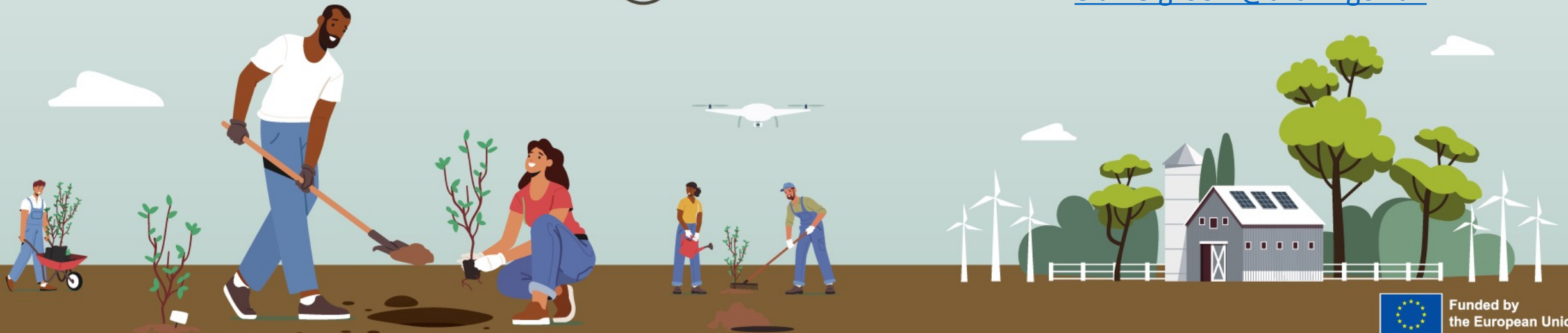
Concha Civantos

concha.civantos@fundecyt-pctex.es

NATI00NS Mentor for UK

Elaine Groom

elaine.groom@afbini.gov.uk



Funded by
the European Union



Any Questions?



European and UK Soils Research and Innovation Capabilities

Panel Discussion



Helen Sweeney
Panel Chair
UK National Contact Point



BREAK



Option of watching UKRI video on experiences from Horizon 2020 and Horizon Europe UK grantees

https://www.youtube.com/watch?v=gdxHQ_7VRFg&list=PLkjB0VcEI5P_zFLV2oKywwXzZ4Vz2l8Zu





Soil Mission Overview and upcoming opportunities



Helen Sweeney
Panel Chair
UK National Contact Point



Innovate
UK

Overview of Call Topics



The Windsor Framework



The UK is a Candidate Associated Country

- Applicants should carry on working with their consortiums on the 2023 Work Programme Call Topics.
- UK applicants should continue applying as beneficiaries and request EU budget at the proposal stage
- If Association not in place at time of Grant Agreement the [UK Horizon Europe Guarantee](#) in place to support successful UK applicants
- [FAQ on UK's eligibility for collaborative projects in Horizon Europe](#)

Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment



EUROPEAN UNION

EU MISSIONS
SOIL DEAL FOR EUROPE

Horizon Europe R&I Missions Linking EU's research and innovation to major societal needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines 5 missions areas:

- Adaptation to Climate Change
- Cancer
- Climate-neutral and Smart Cities
- Restore our Ocean and Waters
- Soil Deal for Europe

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[EC Missions Info Day 18th January Recording](#)



Goal of the Mission: **100 living labs and lighthouses to lead the transition towards healthy soils by 2030**

1. Reduce **desertification**

2. Conserve **soil organic carbon stocks**

3. Stop **soil sealing** and increase re-use of **urban soils**

4. Reduce **soil pollution** and enhance **restoration**

Specific objectives



5. Prevent **erosion**

6. Improve soil structure to enhance **soil biodiversity**

7. Reduce the **EU global footprint on soils**

8. Improve **soil literacy** in society

Each specific objective is backed by **one or more quantified targets** and **measurable indicators**.
Objectives apply to **all types of land use**.

Soil Call Topics in 2023 Missions Work Programme

Call Topic Reference	Title	Action	Budget € / No of Projects
MISS-2023-SOIL-01-01	Discovering the subsoil.	RIA	12 / 2
MISS-2023-SOIL-01-02	Soil pollution processes – modelling and inclusion in advanced digital decision-support tools.	RIA	14 / 2
MISS-2023-SOIL-01-03	Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition.	IA	6 / 2
MISS-2023-SOIL-01-04	Innovations to prevent and combat desertification.	IA	14 / 2
MISS-2023-SOIL-01-05	Soil-friendly practices in horticulture, including alternative growing media.	IA	13 / 2

Soil Call Topics in 2023

Calls are open until 20th September 2023

Call Topic Reference	Title	Action	Budget € / No of Projects
MISS-2023-SOIL-01-06	Soils in spatial planning.	RIA	7 / 1
MISS-2023-SOIL-01-07	Back to earth: bringing communities and citizens closer to soil.	CSA	6 / 1
MISS-2023-SOIL-01-08	Co-creating solutions for soil health in Living Labs.	RIA	36 / 3
MISS-2023-SOIL-01-09	Carbon farming in Living Labs.	RIA	12 / 1
MISS-2023-CLIMA-OCEAN-SOIL-01-01	Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale.	IA	15 / 1
MISS-2023-OCEAN-SOIL-01-01	Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin.	IA	16 / 2

Breakout Rooms

Room 1: Spatial Planning and Subsoil

Room 2: Horticulture and Peat Alternatives

Room 3: Digitalisation and Soil Pollution

Room 4: Living Labs

Room 5: Communities



Any Questions?



Breakout Rooms



Breakout Rooms

- Room 1: Spatial planning and subsoil

Helen Sweeney
UK National Contact Point



- Room 2: Horticulture and Peat alternatives

Cathryn Lambourne
Innovate UK KTN



- Room 3: Digitalisation & soil pollution

Catherine Holt
UK National Contact Point



- Room 4: Living labs

Elaine Groom
AFBI



- Room 5: Communities

Anni Laihanen
UK National Contact Point



InnovateUK
KTN

How does it work?

- About 30 minutes for Breakout room discussions.
- You select which breakout room you'd like to join.
- You can move around and go to more than one breakout room.
- Facilitated discussion on selected topics relevant to the Soil Mission call themes.
- Opportunity for networking and engaging in new collaborations.
- If you drop out, you can join the webinar again in the main room and we can help you join breakout rooms of interest to you.



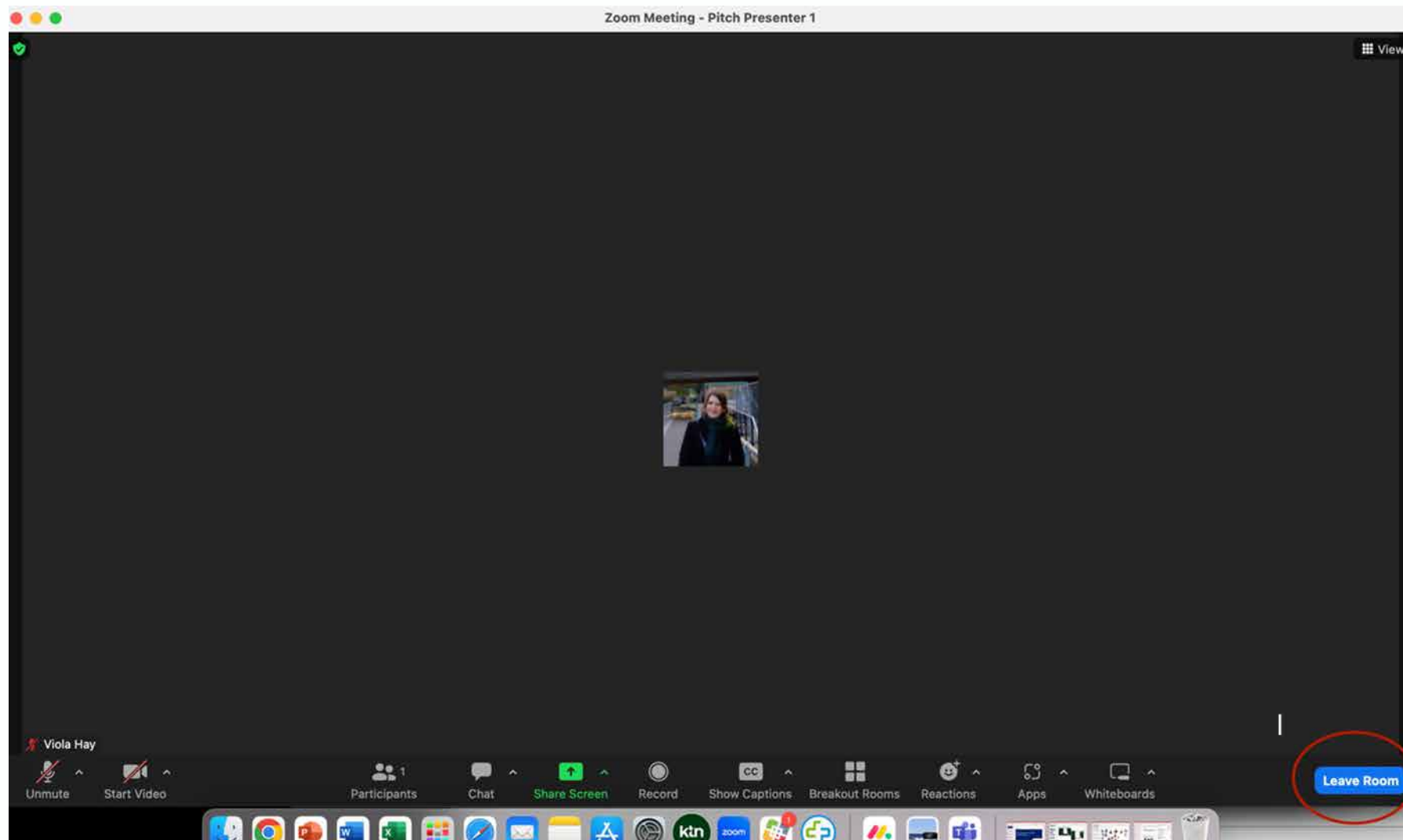
PLEASE NOTE: BREAKOUT ROOMS ARE NOT BEING RECORDED.

How to JOIN a breakout room

The screenshot displays the Zoom meeting interface with a central panel for breakout rooms. The panel is titled "Rooms(12)" and "Participants(0)". It lists 12 breakout rooms, each with a "Join" button. The "Join" button for the first room, "Pitch Presenter 1", is circled in red. At the bottom of the panel, there are "Broadcast" and "Close All Rooms" buttons. The bottom toolbar of the Zoom client is visible, with the "Breakout Rooms" icon circled in red. Other icons in the toolbar include Unmute, Start Video, Security, Participants, Chat, Share Screen, Polls/Quizzes, Record, Show Captions, Reactions, Apps, Whiteboards, and End.

Room Name	Participants	Action
Pitch Presenter 1	0	Join
Pitch Presenter 2	0	Join
Pitch Presenter 3	0	Join
Pitch Presenter 4	0	Join
Pitch Presenter 5	0	Join
Pitch Presenter 6	0	Join
Pitch Presenter 7	0	Join
Pitch Presenter 8	0	Join
SIN Team	0	Join
Conall McGinley	0	Join
Hydrogen Innovation Network	0	Join
Room 12	0	Join

How to LEAVE a breakout room





Key Messages

Breakout rooms Summary

- Strengths and capabilities in the area
- Ideas for better engaging with our EU partners
- Their interest in the Soil Deal for Europe Mission Call Topics
- Examples of current projects they are involved in
- Examples of current collaborations with researchers/organisations in other countries



Horizon Europe

Horizon Europe is an opportunity for all types of UK organisations (including businesses and academia) to get funding for research and innovation. For UK businesses this is an opportunity to collaborate with partners with the right expertise to expand markets and accelerate innovation across Europe and internationally.



Programmes related to European Programmes

[View all our programmes →](#)



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UK Horizon Europe Hub <https://ktn-uk.org/programme/european/>

Horizon Europe Webinar Series:

- 6 December 2022 – Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

<https://eufunding.ukri.org/subscribe>



Global Alliance Newsletter - December 2022 edition

Printed on 15/12/2022



Innovate UK KTN Global Alliance Newsletter

<https://ktn-uk.org/news/global-alliance-newsletter-december-2022-edition/>

