

Post-Covid Knowledge exchange in agriculture: Evaluating current practice and Co-designing a digital solution to connect farmers and the AKIS

&

Innovate UK

Project 83787

Defra Farming Innovation Pathways project Farm Performance Enhancement Partnerships – Farm-PEP FIP

www.farmpep.net

www.adas.uk

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Agenda

1

Introductions

- Farmpep.net business model & opportunities 4.
- 5. Farm-PEP FIP update & plans

2. Farmpep.net update & feedback

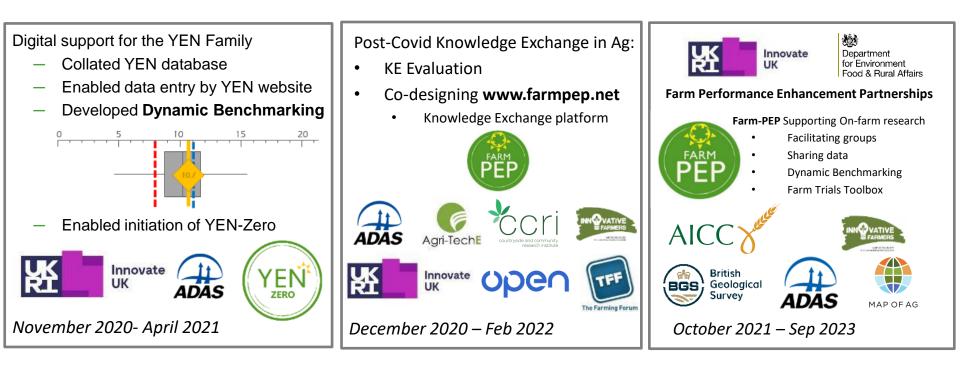
3. Farmpep.net engagement plans

- Communication Plans 6.
 - Cereals, Groundswell, Open Days, Norfolk show ... ٠
- 7. AOB & future meetings





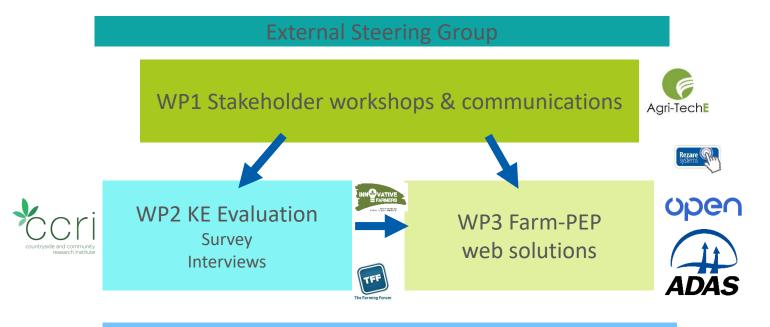
Innovate UK projects – supporting the YEN approach



YEN)) ('YEN

Original Covid19 Farm-PEP Project Structure





WP4 Exploitation

Challenge Statement



COVID-19 has changed knowledge exchange with a significant increase in the adoption of digital tools. While online delivery offers scale and convenience, farmers and KE practitioners can be overwhelmed by content volume, fail to translate information into useful knowledge, and suffer from online fatigue. They would like to be able to...

- Ensure information is authentic and reliable
- Filter out the noise and find what they want easily
- Choose from a variety of delivery and learning approaches
- Collaborate and interact effectively
- Engage at a level that recognises their digital skills and abilities
- Receive coaching and guidance for effective online delivery
- Work synergistically with face-to-face delivery

...so that robust information can be translated into practice change at scale, to enable the UK agriculture sector to realise increased productivity and profitability in a sustainable way

Consultees on the web solution... >90 orgs... >300 people



ADAS Agricology Agri-EPI Agri-techE AgritechUK Agri-food Charities Partnership Agrimetrics AHDB AIC AICC Alpha Investments (Luke Halsey) Anglia Water APPG Science & Technology in Agriculture Ask Valerie Barclays Eagle Labs BASE UK BASF Bayer BASIS BBSRC BBRO BGS

BOFIN (Tom Allen-Stevens) **Burleigh Dodds Publishing** Camgrain **Catchment Based Approach** CEIA CEH CHAP CIEL **Conservation Evidence** Defra Farlham Institute Eureka / EU Farmbook Farming Community Network Farming Connect Fieldmargin FUN Food & Farming Futures Forestry Commission` FWAG Geoff Dodson GWCT Groundswell

Hillsgreen HSBC Hartbury College Hutchinsons **Innovation for Agriculture** Innovate UK / UKRI **Innovative Farmers** James Wallace JP Dorgan Julian Little Keith Norman KTN Land Management 2.0 LEAF Lincoln University Mike Abram National Library for Agrifood Natural England Nature Friendly Farming Network NatureScot NFU NIAB

NRM PGRO Practical Farm Ideas RAU **Richard Whitlock** Rivers Trust (Alex Adam) **Rothamsted** Satellite Application Catapult Simon Ward Soil Association Exchange SRUC Syngenta The Farming Forum The Greatest Online Agricultural Show Table The Ad Plain TIAH TMAF University of Reading Wageningen - Ask Valerie WebinAg What Works for Agriculture Yara

FarmPEP.net online





Yield

"Connecting across Agriculture"

~400 people registered so far

- >100 organisations
- ~200 Topic Pages
- ~130 Group Pages
- ~190 Posts

What do you think of it?

(Brutal honesty please!)

farm trials, carbon calculators, decision support...)

What is FarmPEP?

Connecting across agriculture

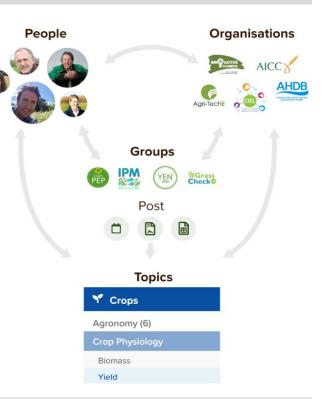
- "Yellow Pages" & LinkedIn for ag •
- Farmers, advisors, industry, research, supply chain, • policy & public
- All organisations, projects, networks ... •
- Useful resources, websites, events... ٠

Synthesised summaries of Topics

- Wikipedia style summaries written by Stewards •
- Best Practice & 'What Works' •

Place to form groups & develop ideas

Access digital tools (data exchange, benchmarking,





What FarmPEP is not

A discussion forum

- The Farming Forum does that
- A library or repository
 - National Library for Agrifood does that

A news site

- (though possibly could combine with F&FF newsletters?)
- A duplicate or replacement of useful resources like AHDB, Agricology, Farming Connect ...
 - Make links & connections, not duplicates

Not really designed for threads or timelines

• More a Wikipedia stye knowledge base



... FarmPEP supports the ecosystem



Business Model



- Site is always free to all individuals
- Ultimately Organisations pay to be on the site ... starting January 2023?
 - But only once we have proved value
 - Keep fees modest £100 £1000 depending on size of org
 - Clear that fees are to support the management and development of the PEP community
 - eg Enable synthesis summaries of Topics to be improved for priority areas
 - Market size is >1000 orgs across agriculture
 - Looking to cover costs of ~£50k / year to employ a manager

Additional funding sources



- Seek sponsorship to draft Wikipedia style summaries by subject areas (need to be independent)
 - Charities? Tesco/Waitrose/Sainsbury's/ASDA/M&S? Banks? WWF? Government? UKRI?
 - Water companies
 - AHDB, linking to website resources?
- Possible developments aligned to What Works centre
 - Could change name to suit (we've kept branding deliberately neutral)
- Proposal to Defra Farming Innovation Programme with The Farming Forum, NLAF & Agtech Centres
 - Embedding AI and pushing native content ... with advertising
- Possibly monetise future newsletters of whats new on the site, with paid-for slots from BASF etc
- Future licensing of access to digital tools through the site
 - Data Exchange, Benchmarking, Farm Trials tool, Carbon Calculators...
- Other ideas?

Driving Engagement



Focusing on knowledge providers first, rather than farmers

• ... chicken & egg

Universities, institutes, companies, charities... open & free to all

How to get farmers engaged?

- Target key influencers
- Discussing with TAP & Hillsgreen

Focus building resources/dicussion in a few areas to create communities:

- Nutrients & fertiliser YEN-Nutrition
- Net Zero YEN-Zero
- Biostimulants
- Agritech
- Soil health
- ELMs Woodland...

Communication Plans



Started to share publicly to get feedback

• twitter, Linkedin

Ag Shows

• Cereals, Groundswell, Norfolk Show

Emails to ADAS lists, AgritechE members

- Innovative Farmers
- Food & Farming Futures
- AIC & AICC?

Press release in Summer to start targeting farmers

Do we need a proper marketing campaign?

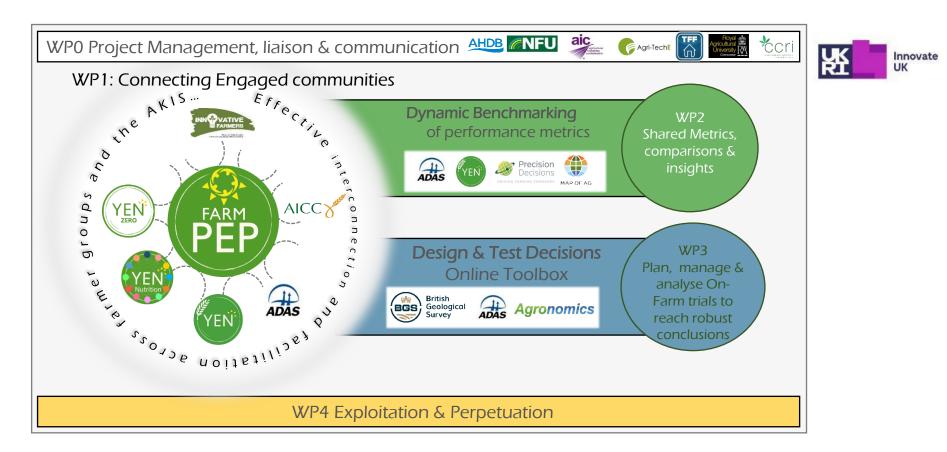




Builds from Farm-PEP platform to enable farm-centric R&D:

- Supporting Groups of farmers, advisors, researchers and industry
- Tools to enable data sharing and 'Dynamic Benchmarking
- Tools to support on-farm trials mapping and spatial analysis

Farm-PEP – Performance Enhancement Partnerships











Sharing & connecting farming information and knowledge

www.farmpep.net

Co-designing Knowledge Exchange web platform

Content connected by Topics

Stewarded Topic summaries

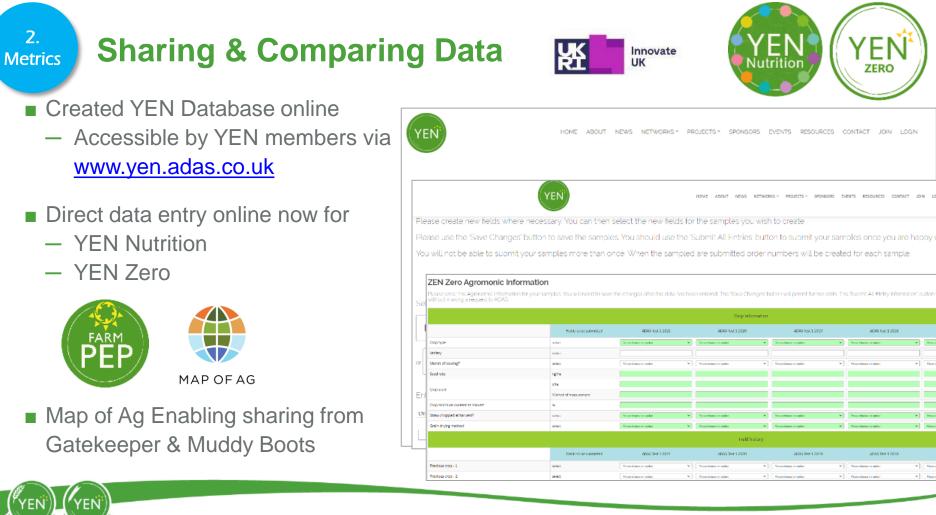
Connect Projects, People & Organisations

Launching spring 2022 -free to individuals, organisations pay

> Complete the survey on line to sign-up www.farmpep.net



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	Crops
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	Recommended Context
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Dynamic Benchmarking Metrics

Prototype developed for yield & grain nutrients – N, P, K, Mg, Mn



- Available to past YEN Members at www.yen.adas.co.uk
 - select your data & filter comparisons by region, soil type, crop type & Year
- Now developing for range of metrics & filters
 - Will add 2021 data

2.

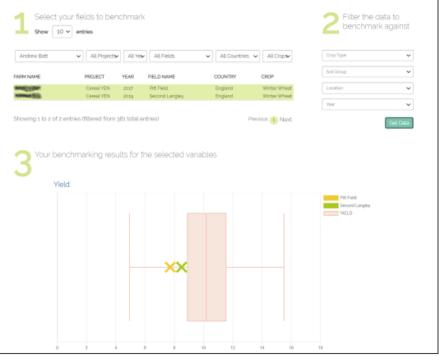
- What metrics would you like to see?
- Try it out and feedback to us ... yen@adas.co.uk

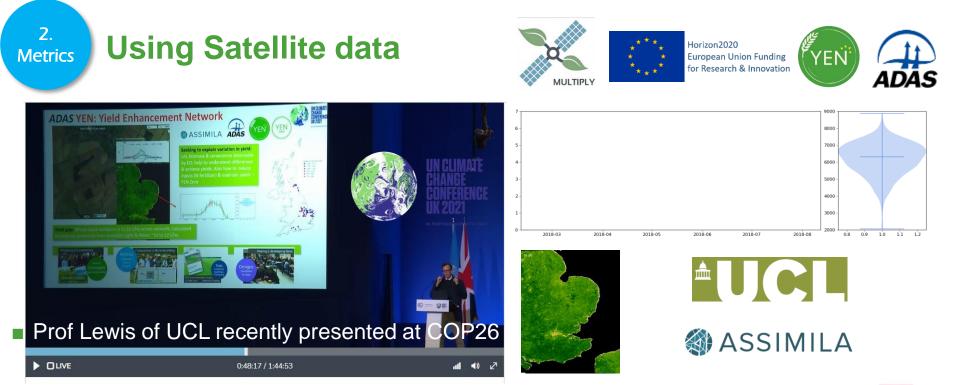




YEN Dynamic Benchmarking

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New UKSA project with Assimila to operationalise crop metrics from satellite data

- Aiming to provide data to YEN 2021 entrants via Dynamic Benchmarking
- Get involved in Crop Monitoring Club

YEN



Facilitating Groups to develop & share Ideas

- Develop best practice for farmer & advisors working together in groups
- Get involved

VEN

3.

Ideas

- Nutrition Clubs
- Soil Carbon Clubs

 Possible opportunities for farmer-led Defra projects from June 2022

Department for Environment Food & Rural Affairs







Rigorous on-farm testing

British

Survey

BGS

Geological

FAR⊵

4.

Tests

Agronomics

GUIDE TO FAR

Agronomics Line Trials

adas.co.uk/services/agronomics/

Agronomics

2013-2017

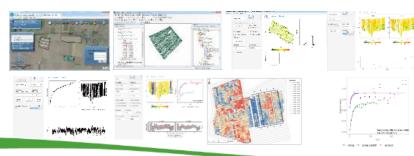
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Technology Strategy Boar

Harvesting

AG Space

- ADAS Agronomics approach enables robust statistical analyses of on farm trials
 - now conduct over 200 Line Trials
 ... using farmers yield map data
- Develop Farm Trials Tools to help farmers, advisors & groups set up their own tials



Marchant, Rudolph, Roques, Kindred, Gillingham, Welham, Coleman & Sylvester-Bradley., 2018. Establishing the precision and robustness of farmers crop experiments. *Field Crops Research*. **230**, 31-45