UKRI Population Health Improvement webinar

27 January 2023, 2-3pm

Agenda:

- Prof Nick Wareham, University of Cambridge
- Dr Andrew Crawford, MRC
- Prof Louise Dye, University of Leeds
- Q&A Panel
  - Prof Nick Wareham, Prof Louise Dye, Dr Philippa Hemmings (EPSRC), Dr Naomi Beaumont (ESRC) and Dr Catherine Moody (MRC)

Please post your questions in the Q&A section

Further information can be requested from **phiclusters@ukri.org**

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Securing better health, ageing and wellbeing

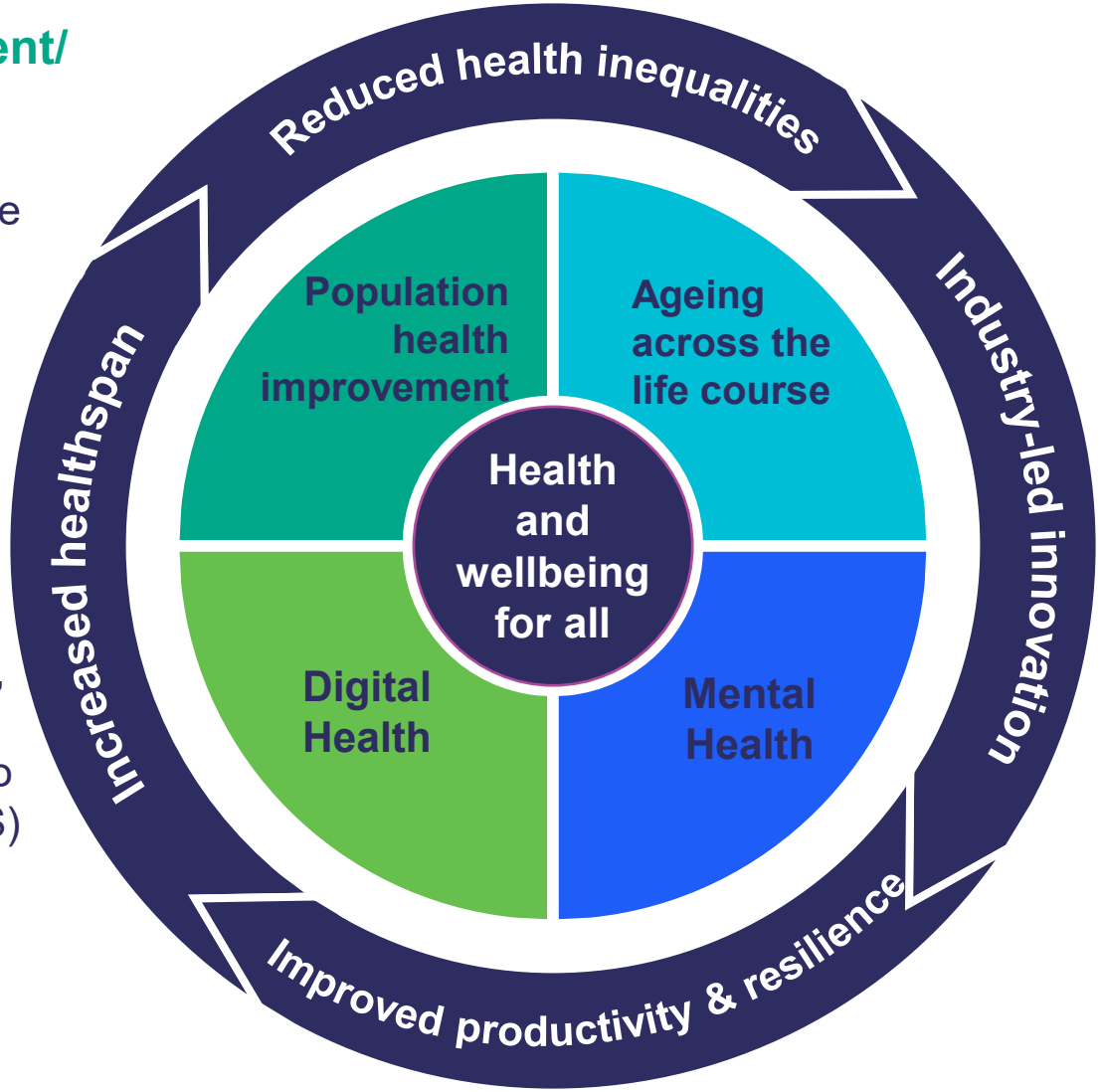
Advancing people's health and promoting wellbeing to maintain prosperous, productive and resilient communities throughout the UK and globally, supporting the UK Life Sciences Vision by addressing challenges around ageing, living with multiple conditions, mental health and health inequalities

Population Health Improvement/ health inequalities

- Challenge-led network and capacity building to progress the development of systems-level interventions
- Centre for climate change and health

Digital Health

- Underpinning support (HDRUK, Digital Health Hubs)
- Functional genomics initiative to link population genetics (GWAS) and mechanistic research to progress identification of novel targets



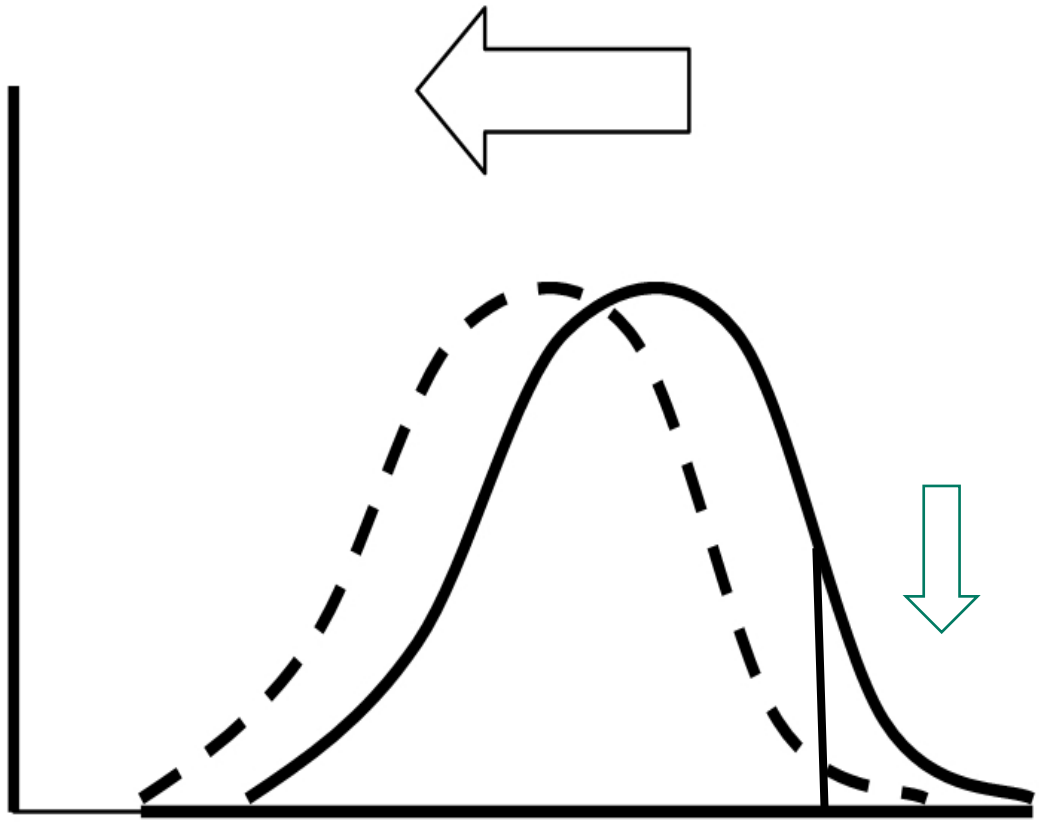
Ageing throughout life

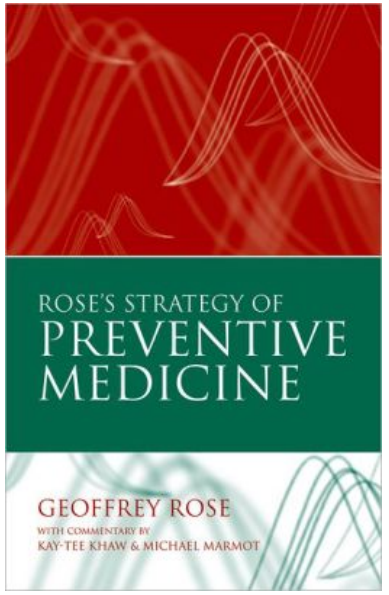
Interdisciplinary research proposals, co-ordination, and models to advance understanding of intrinsic and extrinsic factors that influence ageing trajectories and advance development of interventions that promote healthy ageing and resilience to multiple diseases

Mental Health

- New mental health platform to co-coordinate cohort investments and enhance and broaden phenotyping to speed up discovery of markers and targets for detection and intervention

Population health improvement and high risk individual-level approaches





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The agency of different interventions and inequality

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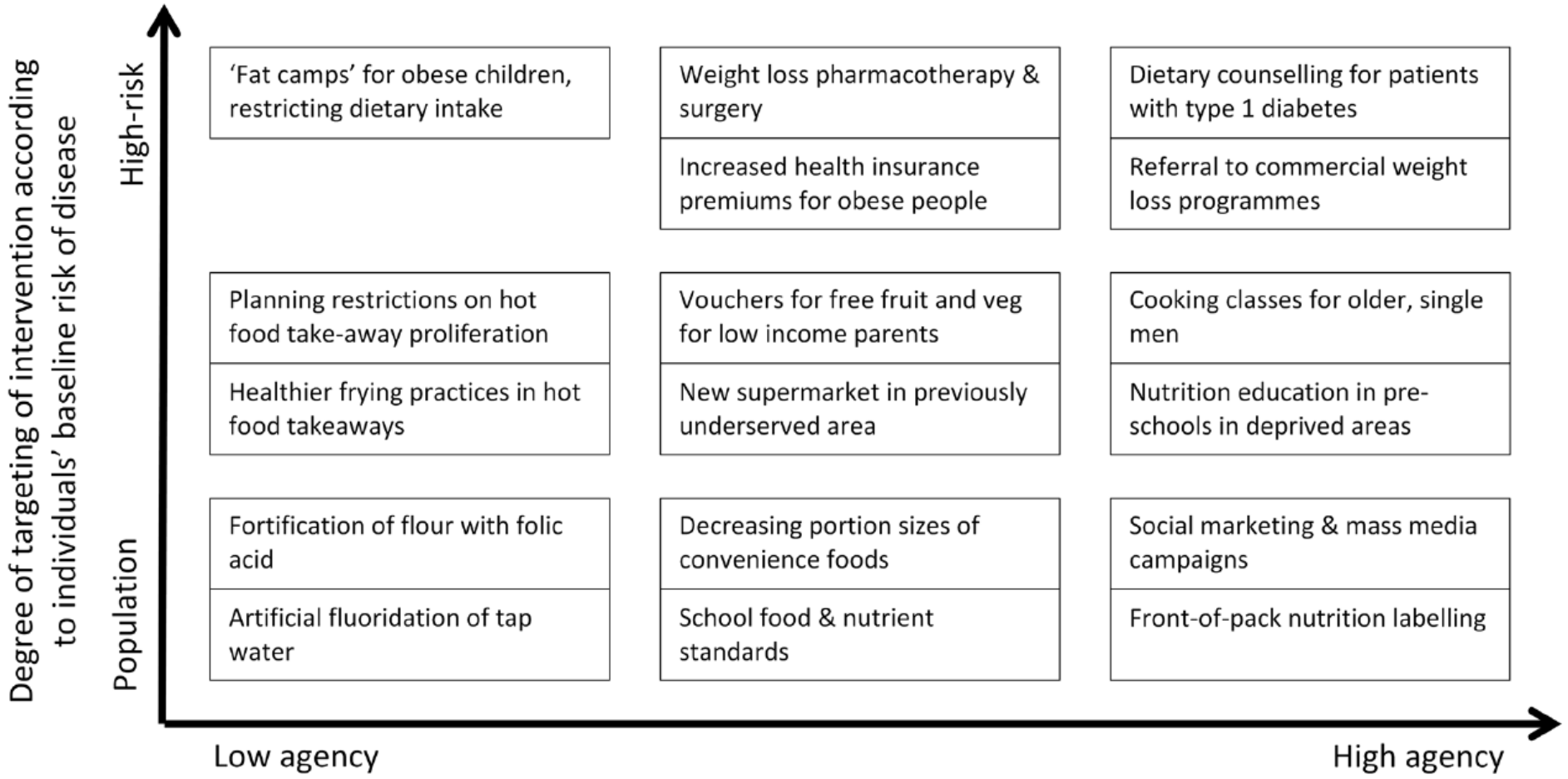
Source: Adams et al, PLOS Med 2016

The agency of different interventions and inequality



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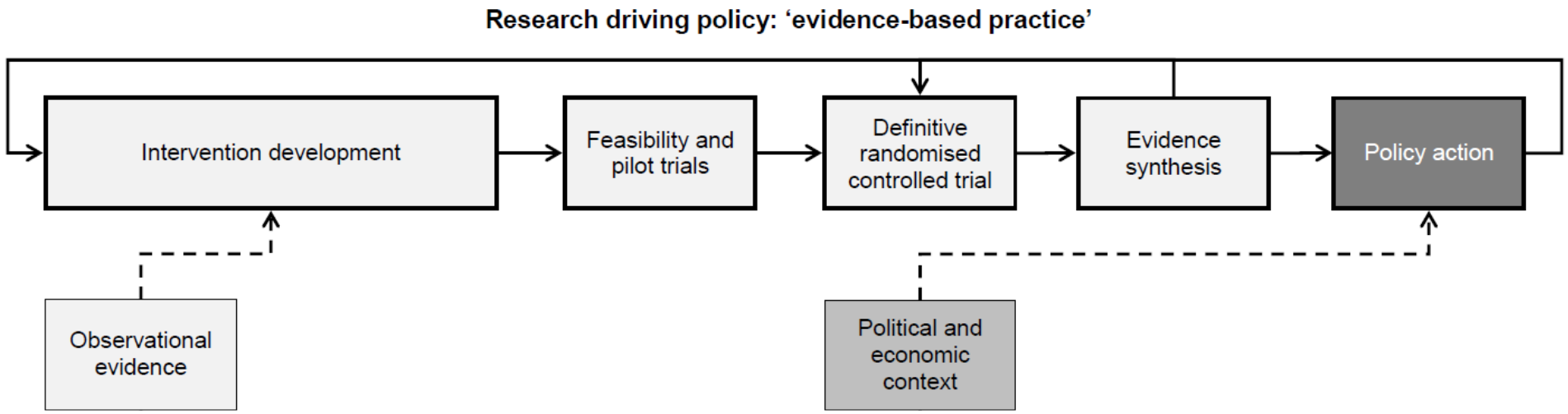
Source: Adams et al, PLOS Med 2016

Different pathways for intervention development and evaluation



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Source: Ogilvie et al, JECH 2020

Integrated research for Population Health Improvement

Methods for identifying potential population-level interventions

Methods development for evidence synthesis

Natural experiments

Public Health Modelling

Better data

Determinants of health
- surveys, routine data, cohorts
- consumer data
- natural experiments

- Network of clusters
- Data landscape review
- Training opportunities
- Evidence synthesis
- Intervention development

Underpinning population health research → Evidence synthesis and Public Health Modelling → Potential population-level interventions → Intervention → Evaluation → Population Health Improvement

Built environment | Behavioural & cultural insights | Health inequalities | Climate change

Timeline

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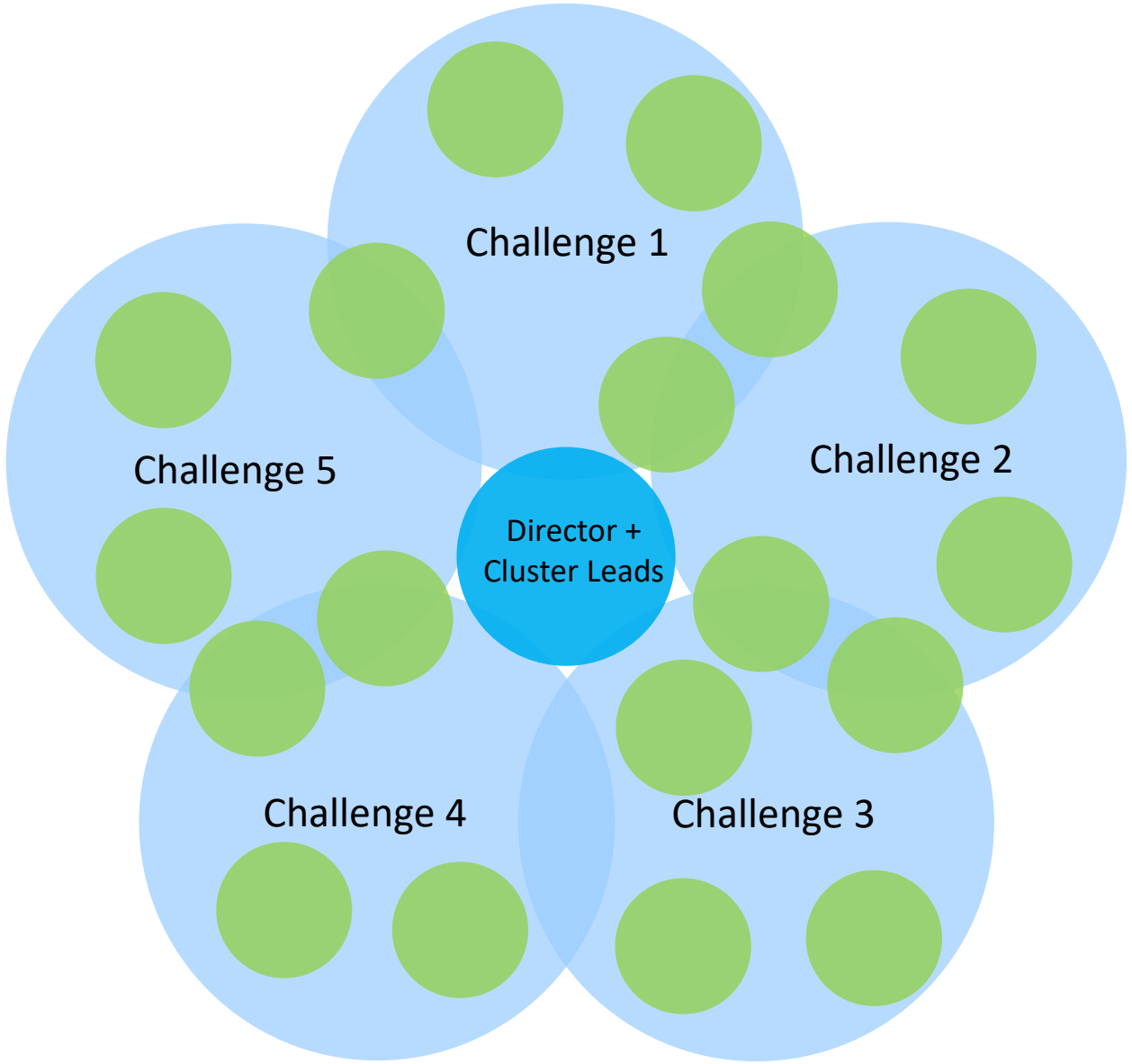
PHI Network of Challenge-led Clusters



Cluster Investment

Coordination Hub

Expertise

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Framing Transforming UK Food Systems activities by the four ‘Dimbleby’ themes

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Things to consider

- Need common language & understanding of each others methods and approaches
- Innovative training within clusters and across clusters e.g. systems thinking methods
- Doesn’t need to be conventional training - can be “outside the box”
- Can cost for methodologists/specific expertise
- Looking for novel groupings and innovation e.g. ME/CFS
- Early- and mid-career researchers are encouraged within each cluster - develop and ensure capacity building
- Encourage external partners e.g. local authorities, other funders, companies & other partners

Getting started

- UKRI will support an online platform to encourage networking of those wishing to form/join a cluster
  - Add bullets about your expertise and interests in relation to this call
- List of participants registered today and at upcoming workshops will be made available
- Try to coalesce your cluster around strengths and expertise – types of problems and interests
- Can then have online open discussion and/or then take development of cluster into own space and organise own calls/invite people
- Be open - be inclusive – form new grouping to really shape PHI via this exciting initiative

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Questions?

More information contact: **phiclusters@ukri.org**