

# The Role of Phosphorus in the Resilience and Sustainability of the UK Food System

**Aim:** Refocus P use in the UK food system to safeguard future food and water security

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- Understanding P dynamics of the food system
- Understanding catchment resilience to P pressures
- Measures for P sustainability and resilience



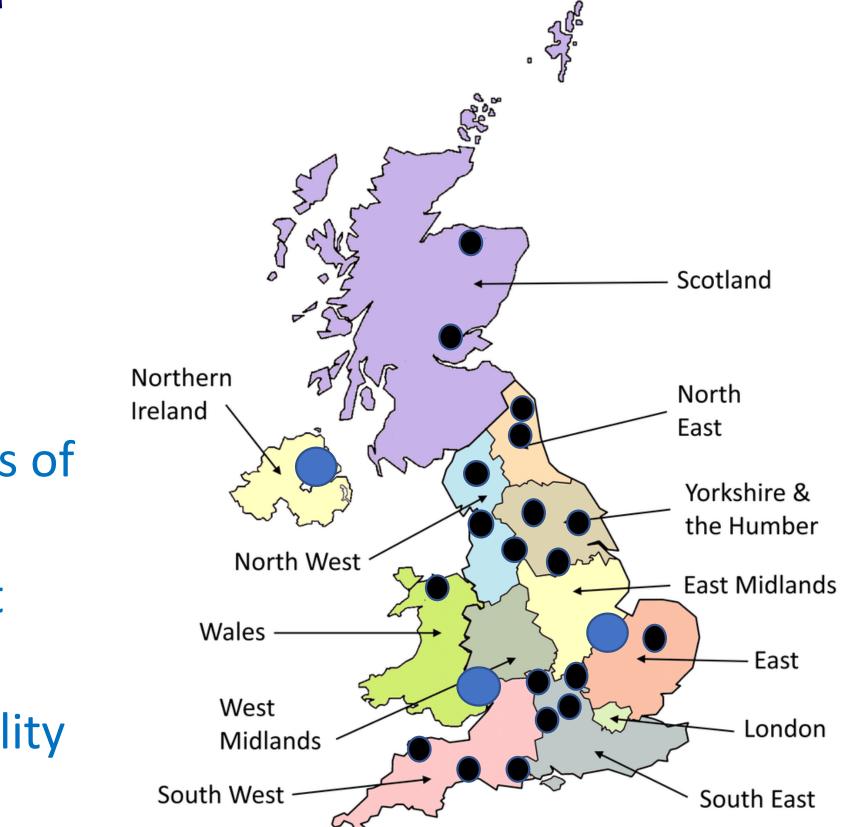


Shaping Society

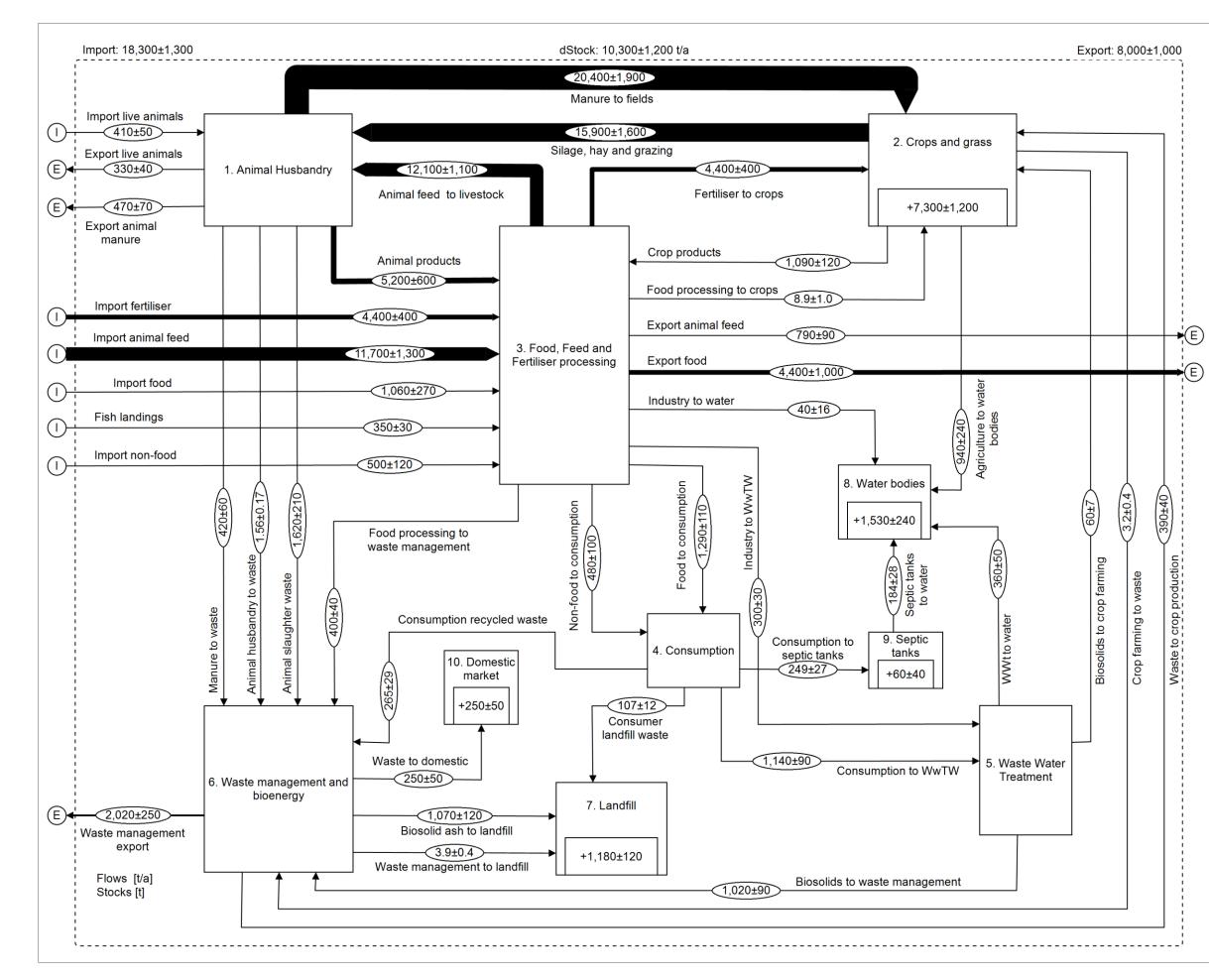
bioscience for the future







## Phosphorus in the Northern Ireland Food System



Phosphorus Substance Flow Analysis (SFA)

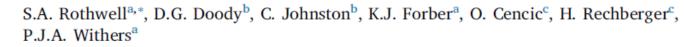


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Full length article

Phosphorus stocks and flows in an intensive livestock dominated food system



#### **Technical report**

Phosphorus Stock and Flows in the Northern Ireland Food System





Donnacha G. Doody, Shane A. Rothwell, Julia Martin Ortega, Christopher Johnston, Áine Anderson, Murat Okumah, Christopher Lyon, Erin Sherry, Paul J. A. Withers.

https://www.afbini.gov.uk/sites/afbini.gov.uk/files/publi cations/RePhoKUs%20report%20October%202020x.pdf

YouTube video highlighting the stakeholder engagement process https://www.youtube.com/watch?v=YiYDWf\_6ZHk

### Stakeholder Workshop





### Further project outputs....

- Catchment buffering capacity
- Catchment phosphorus balances
- Assessment of Legacy P potential of catchment soils
- Catchment stakeholder adaptive capacity
- Regional (NUTS 1) phosphorus balance
- Phosphorus Substance Flow Analysis for the UK food system
- Phosphorus vulnerability and sustainability assessment for the UK food system and identify priorities for a National Phosphorus Adaptation Strategy

More information about the RePhoKUs project and links to all our outputs can be found on our website http://wp.lancs.ac.uk/rephokus/







WHY IS PHOSPHORUS IMPORTANT?

out phosphorus, we cannot produce for