



## Mid-term Seminar

# Phosphorus efficiency in *Gallus gallus* and *Sus scrofa* (PEGaSus)

**Partners** Leibniz-FBN/Dummerstorf, **DE**; AFBI/Belfast, **UK**; AU/Aarhus, **DK**; SEI/Stockholm, **SE**; UCSC/Piacenza, **IT**

## Problem addressed in the project

Phosphorus (P) is an essential element with finite commercial limits. The balance of the P cycle in farming systems is crucial to achieving sustainable and resilient livestock production

## Objectives

- Evaluation of the impact of alternative P farm management strategies using a bio-economic model
- Animal experiments to assess various feeding strategies and alternative P sources for pigs and poultry
- Technical, governance and policy strategies to minimize P overloading of soil/runoff and enrichment in aquatic systems

## Interim research findings

- Moderate genetic contribution on mineral homeostasis
- Bio-economic working model set up for pig and poultry farms
- Governance for sustainable P use is still lacking within EU

## Future research and activities:

- Lab experiments to characterize genetic, molecular and physiological factors of efficient P utilization
- Quantification of the P reuse potential (waste streams)
- Simulation of alternative policy measures for controlling P use and runoff from farms

## Funding



## PIGS/CHICKEN



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 696231