PigSys



IMPROVING PIG SYSTEM PERFORMANCE THROUGH A WHOLE SYSTEM APPROACH

CHALLENGE.

Current EU pig production has suboptimal resource utilisation, resulting in unnecessarily high emissions and wastes. At the same time, animal welfare is of increasing concern, farmers are struggling to maintain economic competitiveness and the public image of the sector is poor.

OBJECTIVES

PigSys will address these issues by the adoption of a multidisciplinary, system level approach to pig production systems. A model of mass and energy flows and Decision Support system, as well as novel building climate control systems, will be developed to underpin sustainable improvement in system performance and increase animal welfare

EXPECTED RESULTS

A whole system model of energy and mass flows and decision support system will be provided, as well as measurement and control devices for improved barn climate control and animal welfare. Other outputs include 'big data' to support barn and control system design, sound LCA and LCCA, increased animal welfare and performance, and increased sustainability of production through increased resource efficiency. The goal is also to reduce emissions, waste and carbon footprint, and improve the public perception of the sector. In addition, decreased production costs will increase the competitiveness of the sector.

POTENTIAL IMPACT

By taking a cross-scale, multi-disciplinary approach, the project will ensure that all aspects relevant for the development of sustainable, socially acceptable and economically viable pig production systems are adequately addressed.







EUROPEAN RESEARCH AREA ON SUSTAINABLE ANIMAL PRODUCTION



PIGSYS CONSORTIUM

Country	Consortiumpartners	Funded by
DE	University of Kassel	BMEL
	Thuringian State Institute for Agriculture	
DK	SEGES Pig Research Centre	DAFA
FR	French Institute for Agricultural Research	ANR
	Institut du Porc	
LV	Latvia University of Agriculture	VIAA
SE	Swedish University of Agricultural Sciences	Formas
UK	Newcastle University	DEFRA

RUNNING TIME

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