Mid-term Seminar

Improving pig system performance through a whole system approach (PigSys)

Partners Univ. Kassel, **DE**; SEGES, **DK**; LLU, **LV**; SLU, **SE**; UNEW, **UK**; IFIP & INRA, **FR**

Problem(s) addressed in the project

Animal welfare and performance; Data handling and fusion (big data management); Resource and energy demands in pig production; Production management and climate control on pig farms; Life Cycle Impact Assessment; Emission, waste and carbon footprint

Objectives

- Development of a centralised decision support system (DSS);
- Development of an integrative system model
- Development of animal-based environmental control system
- LCA and LCCA
- Stakeholder engagement

Interim research findings

Core architecture of the data warehouse is functional
Appropriate models was developed to link animal and building performance based on data from the involved partners´;
Machine vision monitoring is functional; Technical solutions for cooling of pigs was tested; LCA frameworks with the ability to evaluate pig production systems are functional;
Stakeholders have been informed and involved in the project

Future research and activities

- Integrating farm data recording systems to the warehouse system
- Development of sensors fusion and integration of animal welfare into the climate control system
- Economic analysis of existing frameworks
- Develoment and circulation of training materials for the involved farmers and technology providers

Funding

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

PIGS

PigSys

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http://pigsys.eu/