

PigSys – Improving pig system performance through a whole system approach

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1ST SusAn COFUNDED Projects Seminar
23-24 November 2017, Bilboa (BC, ES)

EUROPEAN RESEARCH AREA ON SUSTAINABLE ANIMAL PRODUCTION

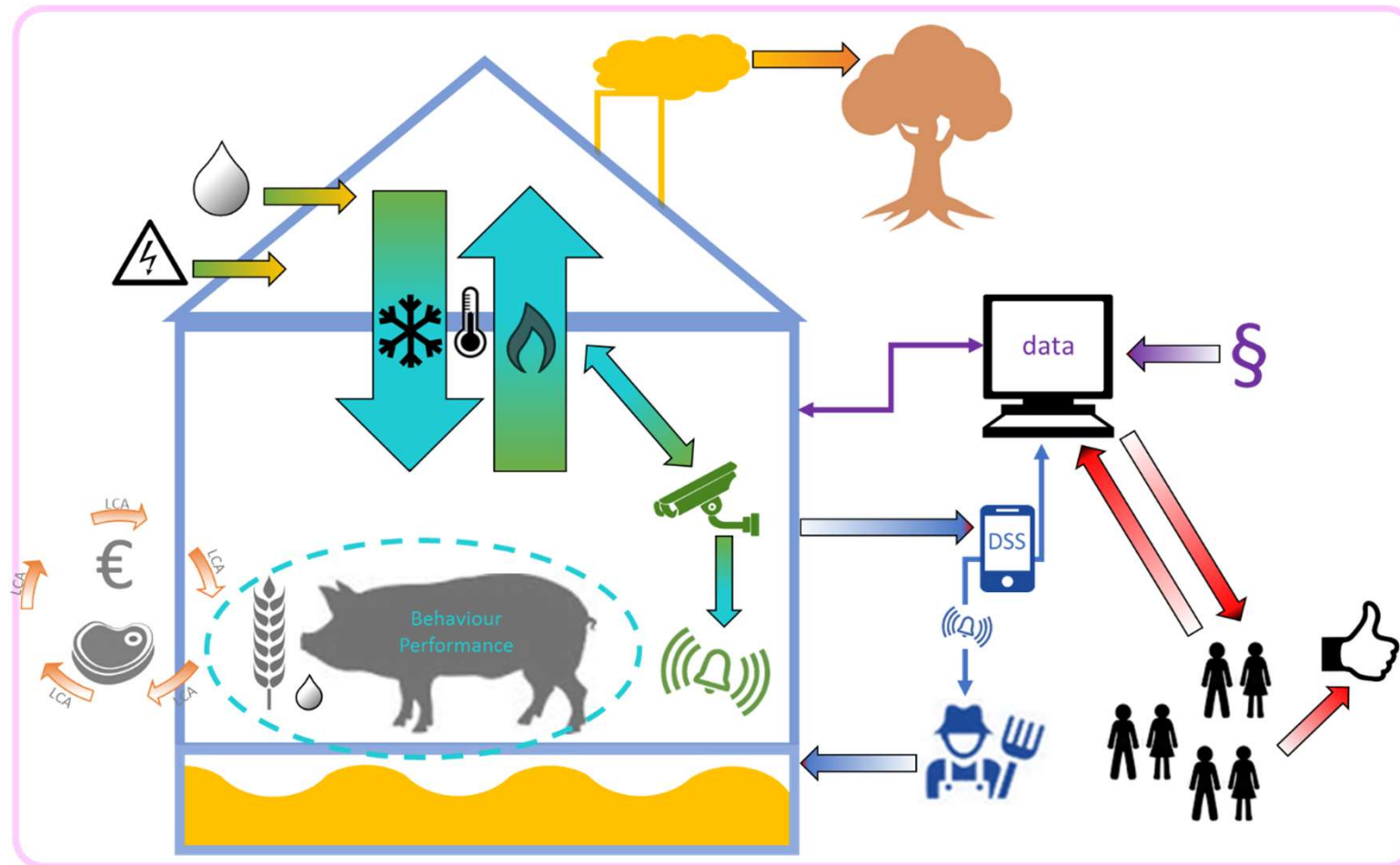


The ERA-net Cofund SusAn is funded by European Union's Horizon 2020 Research and Innovation programme under grant agreement n° 696231

Challenges

- Need for increase of resource efficiency
- Need for reduction of emissions
- High level of animal welfare is not secured
 - Lack of linkage between animal performance and other production factors
 - Standard climate settings do not incorporate animal status
 - Simple temperature set point
 - In rare occasions NH_3 , CO_2
- Need for adaption to climate change
 - Increase of extreme weather conditions
- **Data ownership and safety**
 - Usually owned by technology providers
 - Big Data requires cloud storage and processing

Goal/Objective

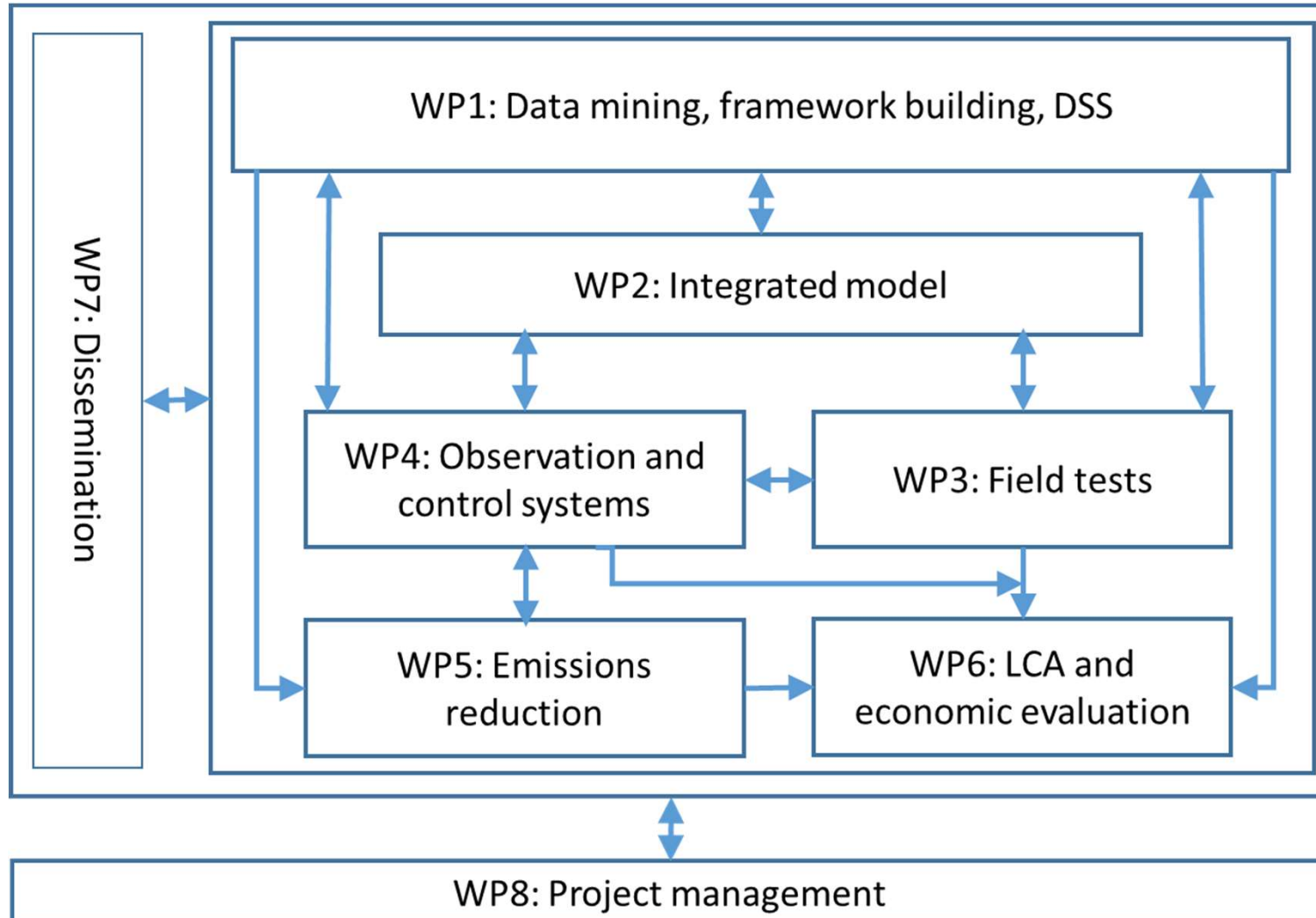




Consortium



Research Approach



Potential Impact

- Increased production performance
 - Increased resource efficiency
 - Decreased system emissions
 - Increased animal performance and welfare
- Marketable products
 - Unified data management system
 - Decision support system
 - Integrated animal-building models
 - Measurement and control systems
 - Monitoring of animal behaviour
 - Improved environmental control

Potential Impact cont'ed

- Deeper understanding of co-dependencies
 - Animal - Environmental Conditions – Sustainability
 - Deep learning
- Increased awareness around data issues
- Increase of profitability
- Improvement of public perception

Stakeholders and Expectations

- Farmers
 - Access to historical and new production data
 - Co-development of systems
 - DSS
 - Models
 - Test of control systems
- Technology providers
 - Advice on implementation
- Associations
 - Dissemination of results to the members
 - Advice on needs of the market
- Consumers





U N I K A S S E L
V E R S I T Ä T

ERA-NET SusAn project

pigsys.eu



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IMPROVING PIG SYSTEM PERFORMANCE THROUGH A WHOLE SYSTEM APPROACH

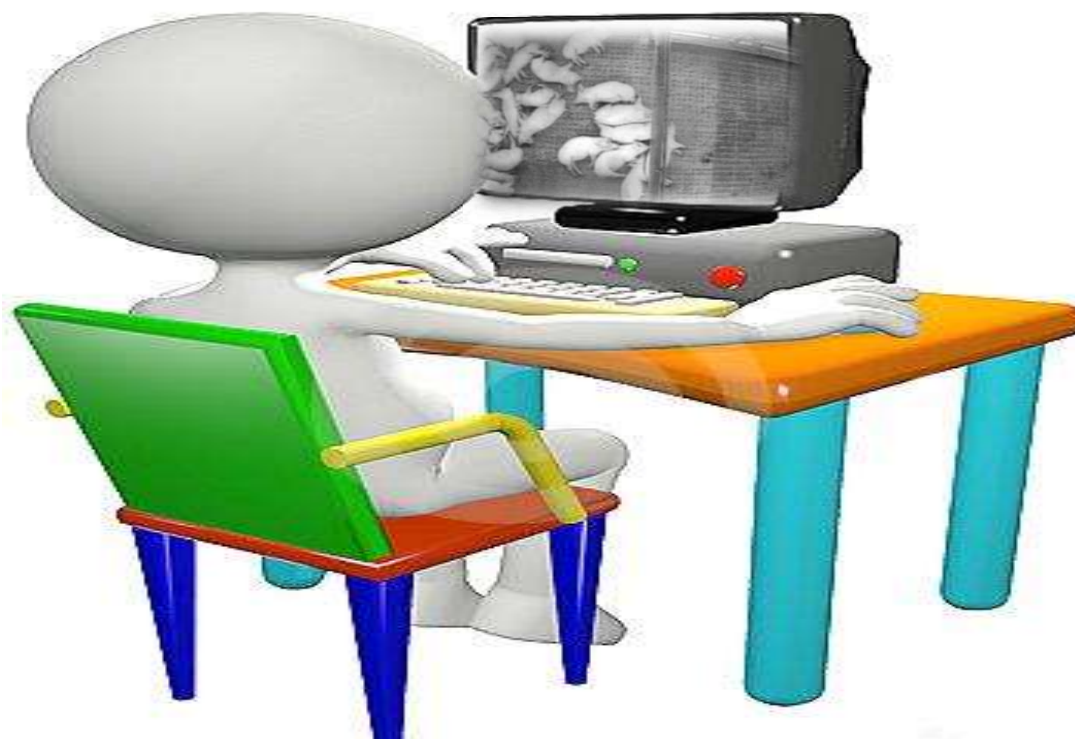
PROJECT SUMMARY

PARTNERS



ERA-NET **SUSAN**

Thank You!



Questions?

