



## CHALLENGE

Genetic selection for improved feed efficiency is required for sustainable pig production but needs to take account of potential negative effects on animal health and welfare. Livestock production is moving towards an increased use of local feed resources and feedstuff co-products. This may require a different type of animal than those currently selected in intensive, high quality input – high output production systems.

## OBJECTIVES

This study aims to enhance sustainability of European pig production through improved feed efficiency on local diets and feedstuff co-products. The objectives are in support of sustainable intensification, i.e. improving efficiency and productive output while maintaining animal health and welfare.

## EXPECTED RESULTS

Feed efficiency and robustness traits in response to local pig diets and feedstuff co-products will be evaluated in experimental and commercial pigs. An environmental and social life cycle assessment analysis will be performed on the impacts of pig production as enhanced by transforming low quality feed. In addition, future sustainable pig production systems will be modelled.

## POTENTIAL IMPACT

Efficient use of resources will improve the productivity, resilience and competitiveness of European pig production. Environmental sustainability will be enhanced by transforming low quality, local feed resources and feedstuff co-products to meat. The goal is also to enhance animal welfare, breeding strategies and consumer acceptance of pig production and breeding practices.





## EUROPEAN RESEARCH AREA ON SUSTAINABLE ANIMAL PRODUCTION



### SUSPIG CONSORTIUM

Country	Consortiumpartners	Funded by
ES	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria Instituto Tecnológico Agrario	INIA
FR	Institut national de la recherche agronomique Institut du Porc	ANR
NO	Norges miljø- og biovitenskapelige universitet	RCN
SE	Swedish University of Agricultural Sciences	Formas
UK	Newcastle University	DEFRA
USA	Iowa State University	other
AU	University of New England	other



### RUNNING TIME

From October 1st 2017 to November 30th 2020.

### FUNDING



The research is funded as a part of the ERA-Net Cofund SusAn (grantnr 696231) through a virtual common pot model with EU top-up and received 956.000 €.

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