SOA22
Assess the economic and societal burden of selected priority diseases and production diseases
(OO9 Action 1)

Priority area	Operational objective
Socio-economic aspects	To develop an integrated approach on animal health and welfare including socio-economic aspects
Key words	**Partner participation**
Economic, societal burden, decision-making, cost-benefit, farm and policy level, sustainability	ANSES, AU, CIRAD, DTU, EFSA, IZSLT, NVI, SLU, SSI, SVA, UAB, UCPH, UNIPD, SURREY, WU

Project summary

This EU project assesses the broad societal impacts of animal diseases on welfare, public health, and the environment. It aims to support better decision-making by evaluating the costs and benefits of disease prevention, enhancing the sustainability of the EU livestock industry through improved health and welfare practices.

Project objectives

- To extend bio-economic simulation models into bio-burden models for estimating economic and other societal burdens of priority and production diseases
- To estimate the economic consequences of selected diseases for which estimates of disease costs are not well established
- To develop a framework to enable socio-economic evaluations regarding different surveillance and mitigation options to prevent specific diseases from establishing and spread in and between animal holdings or to the human population
- To analyze the economics of management practices and prevention measures to control priority and production diseases
- To model and assess economic and environmental effects of health problems and their prevention

Outcomes and impacts

- A description of a dynamic, stochastic, and mechanistic bio-burden model that can be used to evaluate the effect of disease on economics, animal welfare, use of antimicrobials, environment, and public health
- Short list of available data sources and models to be used as basis for quantification of the burden of disease in production animals
- A report including the results presenting the monitoring and evaluation framework for optimal resource allocation during an outbreak and tracking of disease spread for priority diseases. (UCPH; M12).
- Report documenting a herd simulation model analysis of the effect of dairy cows' metabolic diseases on enteric methane emission and economy (AU; M12).
- Contribution to EU research goals: Advancing European leadership in animal health, welfare, and food safety.
- Safer food for consumers: Promoting sustainable and responsible food production practices.