

Consortium

The HE- FARM consortium is conformed in a multidisciplinary and complementary team including 14 partners from 6 nationalities, eleven farms and an external advisory board. Partners include:



OUR TECHNOLOGY

A set of technologies for prevention, monitoring, mitigation, recovery or training covering all channels will be developed in HE- FARM with the objective of improving biosecurity in farms.

These technologies will help to validate the Experimental Channel- resolved Biosecurity Assessment Methodology. The selected technologies include original new technologies for biosecurity that will be validated for the first time in this project, as well as, other existing technologies:



Integrated air-borne pathogen for Porcine Reproductive and Respiratory Syndrome (PRRS) and Avian Influenza (AI) smart sensors.



Sanitization by low-toxicity biocides and dynamic aggregation.



Low-toxicity insecticides and repellents and dynamic aggregation application and Environmental Friendly Insect and Arachnid barrier and prevention techniques.



Rapid Vehicle decontamination station.



Biosecure and Environmental-Friendly HVAC.



Biosecure and Environmental-Friendly Hall.



Portable Low-cost test-equipment for measuring microbiological metabolism.



Cold plasma water depuration.



Usage and training procedures and manuals.



At least other three Prevention, Monitoring, Mitigation, Recovery or Training technologies.



Healthy Environmental-Friendly and Resilient Farm to Fork

Funded by European Union





About He-Farm

In spite of the vast number of pathogens and diseases, the entry points for microorganisms into a farm or any other Farm to Fork facility are limited to just nine "transmission channels" or "transport routes."

Tracing or monitoring the transport of individual or a few microorganisms through a specific channel can yield valuable information about that channel and thus, on the effectiveness of transport of the entire group of microorganisms using that channel.

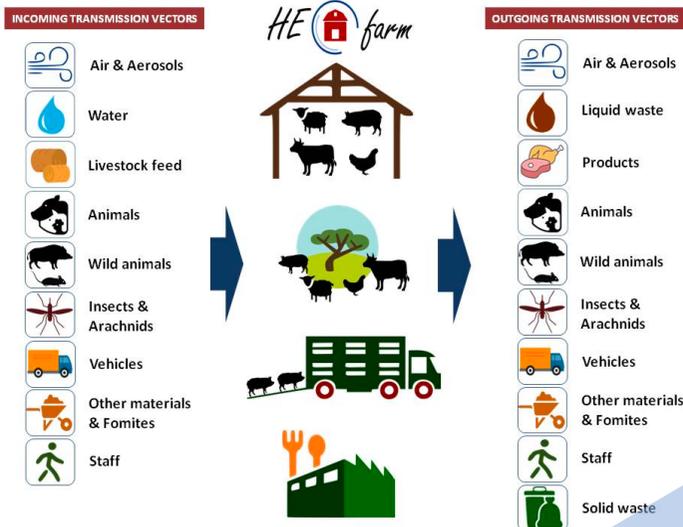
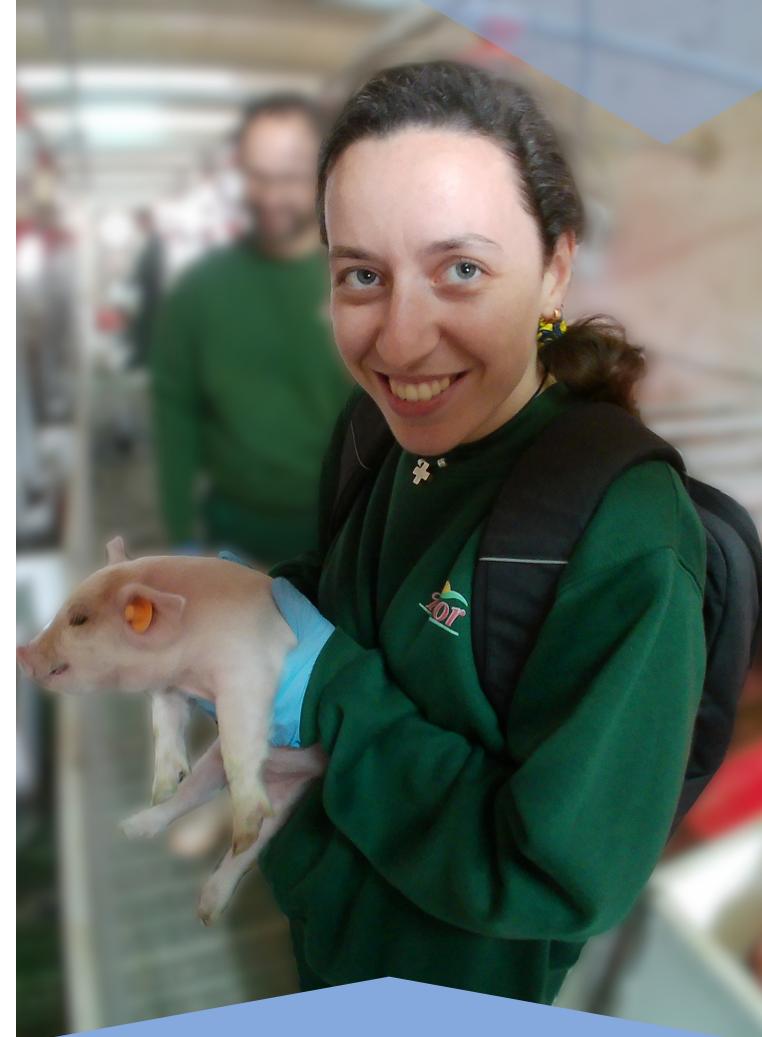
HE-FARM aims to develop and validate a methodology, based on experimental assays and tests in both laboratory and operational environments, to assess and predict biosecurity at the transport-channel level, while also advancing several disruptive novel technologies.

The HE-FARM project has the primary objective of developing a methodology to assess biosecurity in farms.

Additionally, the project aims to evaluate the efficacy of various mitigation measures and the advancement of novel technologies to enhance biosecurity in farms.

The methodology will be established through a combination of laboratory and field tests and will enable the prediction of biosecurity levels within specific transport channels.

Prototypes of innovative biosecurity technologies will undergo validation in operational environments, including cattle, pig, sheep, and chicken farms, as well as in a slaughterhouse and animal transport such as trucks.



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www.linkedin.com/company/he-farm



info@counterfog.eu



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