

production **Evelien Biebaut (UGENT)**



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Horizon Europe

FARM2FORK Project Enhanced and cost-effective biosecurity in livestock

> 17 partners from 12 European countries

- Universities
- Private companies
- National animal health and agriculture authorities
- Biosecurity in livestock production
- > 5 million Euros

0

> 4 years (2023-2026)

Project time

34%



BIO≥



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Goal of BIOSECURE

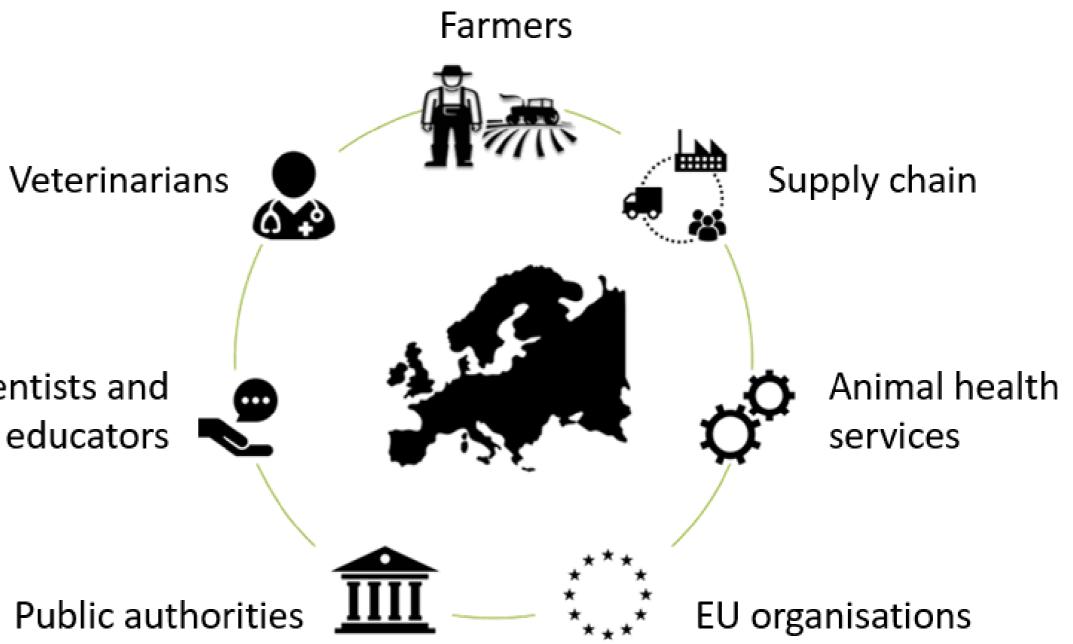
Improve the ability of decision-makers in livestock farming to understand, prioritise and implement evidence-based, cost effective, and sustainable biosecurity management systems in different livestock production chains.

> 5 main objective > 7 work packages

Scientists and

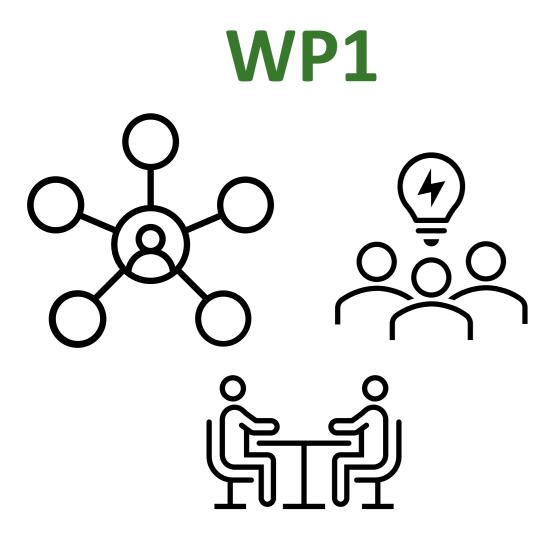


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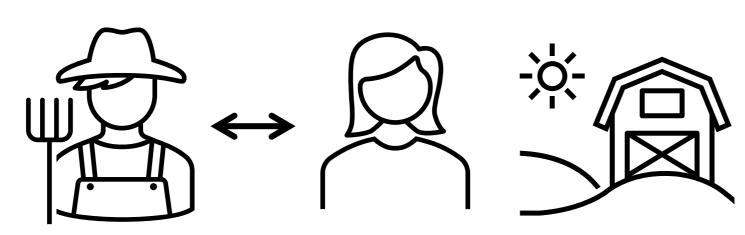


Multi-actor network



Collecting existing information

WP4



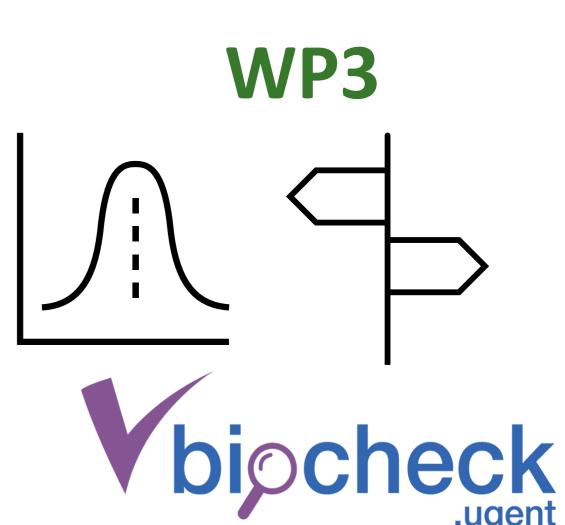
Field and experimental studies



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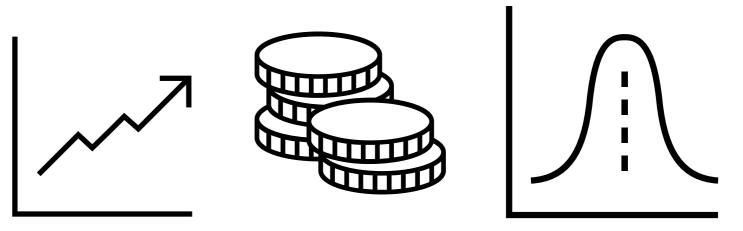
Work packages

WP2



Quantifying biosecurity at farm level

WP5



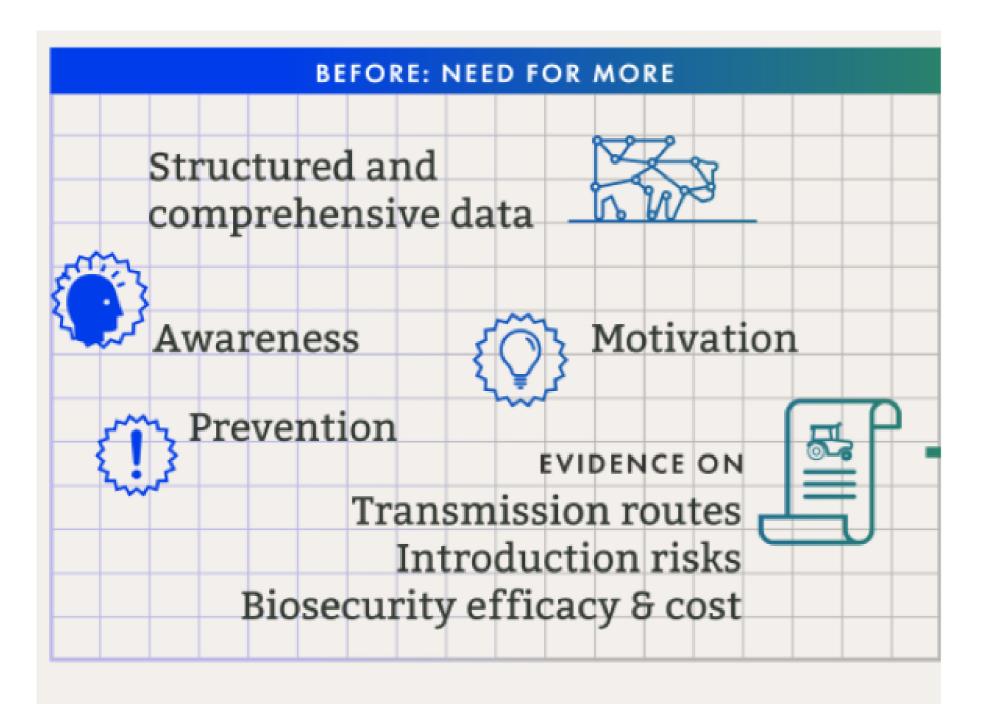
Socio-economic impact at sector level 4







Biosecurity-specific impact







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Impact of BIOSECURE

Analysis of complementary and conflicting effects of herd level biosecurity practices and animal welfare

How?

- Interviews workshops
- Online face-to-face
- Stakeholders
 (farmers: Sweden Spain Ireland)
- Welfare and biosecurity specialist
 - epidemiologists



Goal?

- Identify contradictions and barriers
- Identify possible solutions
- Identify critical control points



- Practical input for the field!
- Policy related communication

- > Two datasets were used in the study:
 - Biocheck.UGent commercial pig farms 2018 to 2023
 - >Assessing **biosecurity** on the farms

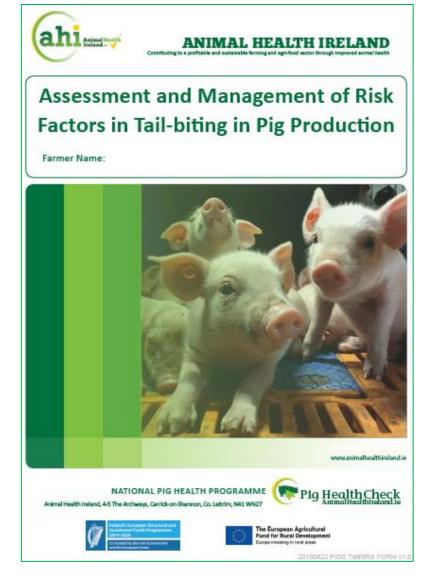
 Tail biting risk factors assessment protocol (developed in Ireland and based on the WebHAT tool) of commercial pig farms from 2019 to 2023 >Assessing the presence of tail biting risk factors



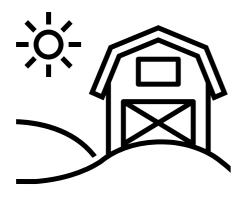
Association between animal welfare and biosecurity measures in intensive pig production in Ireland (Carla Gomes & Barbara Terezo)

- **BIOCHECK PIGS**





Records from the biosecurity and tail biting risk assessments were matched per farm - year covering: 2020 to 2023





783 record 366 farms

Two types of models were explored to test for associations:

- Linear mixed models: biosecurity scores as dependent variables
- Mixed effects logistic regression: presence or absence of risks for tail biting as dependent variables



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- Association between animal welfare and biosecurity measures in intensive pig production in Ireland (Carla Gomes & Barbara Terezo)

BIOSECURE: animal welfare BIO≥ SEC < URE ⊡

Main findings and conclusion

- **risk for animal welfare**, albeit that was not always the case.
- Animal welfare protocol used needs to be **improved/more training given** as most or the variability is some of the models is due to assessors.
- Other (more objective) ways of assessing animal welfare should be explored.



Association between animal welfare and biosecurity measures in intensive pig production in Ireland (Carla Gomes & Barbara Terezo)

• Mixed picture in terms of positive and negative associations between biosecurity and animal welfare. In most of the models an increase in biosecurity was associated with a decrease in the



- ➤ We are looking for participants in 1 online and/or 1 in-person meeting in 2025 or 2026.
- Participants will be selected to have a broad coverage in species and geographical origin
- > Workshops concern
 - \odot Identification of conflicts and solutions for animal welfare and biosecurity
 - Pigs poultry ruminants
- Travel expenses will be reimbursed if selected
 Contact: Tijs Tobias (<u>t.tobias@gddiergezondheid.nl</u>)



















Animal Data Analytics







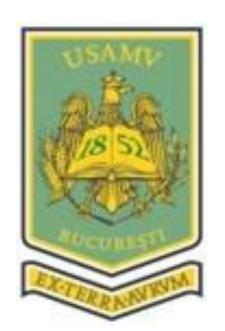
ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA



Our partners











COPENHAGEN







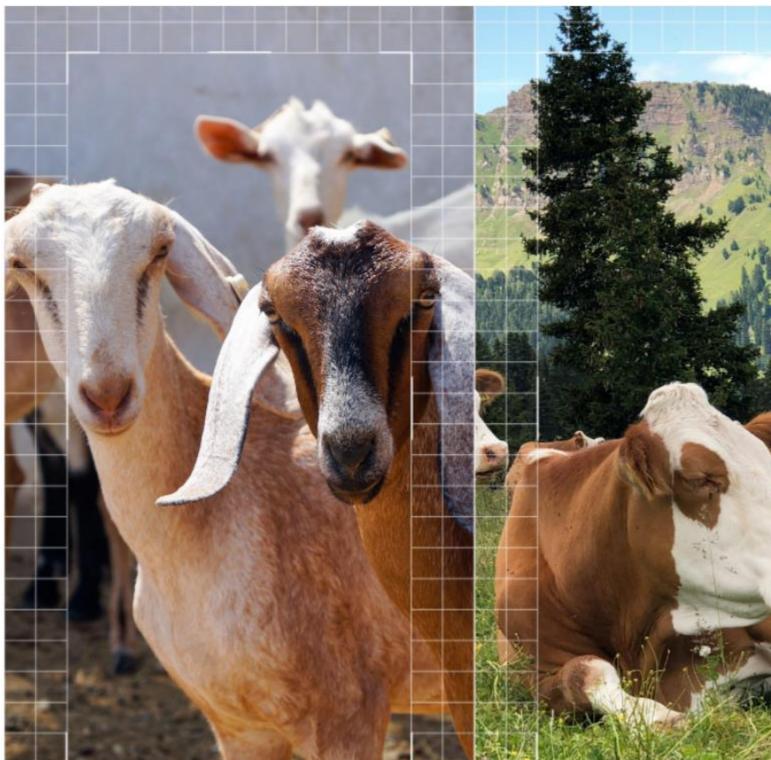
More BIOSECURE information







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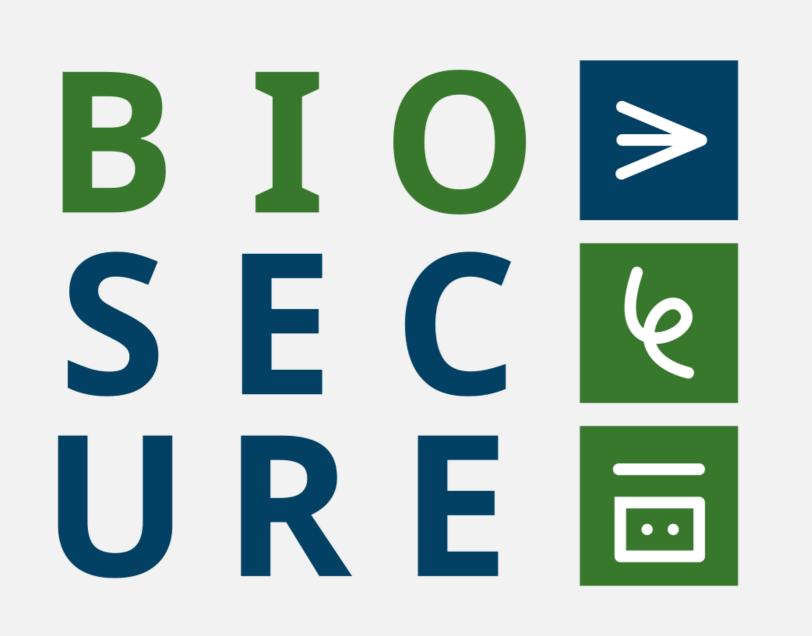


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Scan me!

Supporting livestock farming decision-makers in implementing evidencebased, cost-effective, and sustainable biosecurity management



Thank you! Any questions?



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