



















Organic pig production in mixed free-range systems: the ROAM-FREE project

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Robust animals in sustainable mixed free-range systems













2025





Roam-Free project



















Introduction: Roam-Free partners















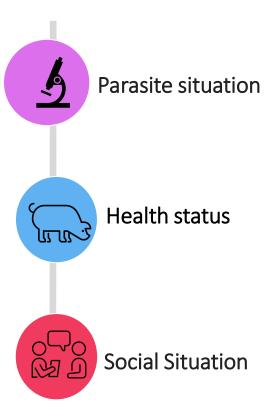






Introduction: Aim

- Give value to free-range pig farming
- Evaluating the **health status** of animals















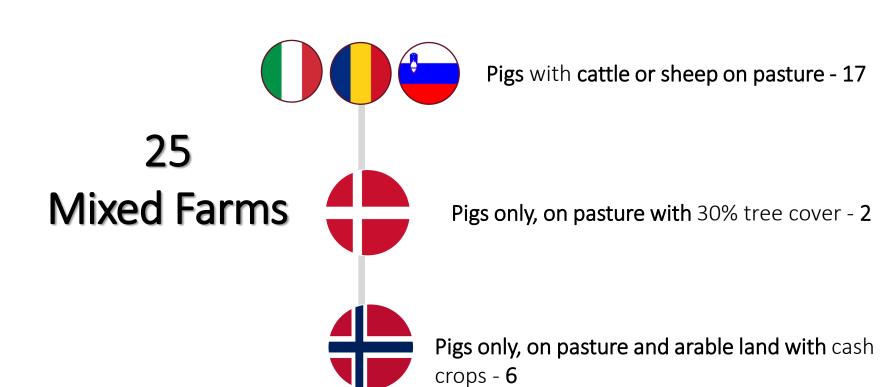








Materials and Methods: FARMS























Materials and Methods: PARASITIES



Total samples: 927



Mac Master technique

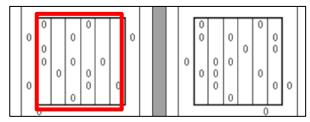


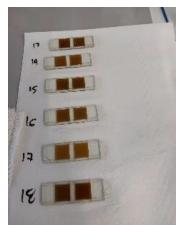
Qualitative results

























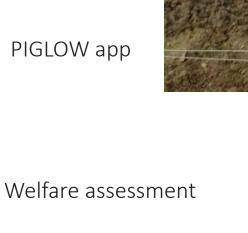






Materials and Methods: HEALTH STATUS

















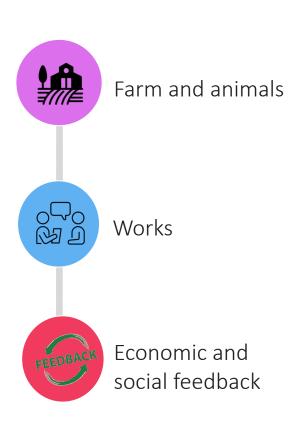








Materials and Methods: SOCIAL SITUATION

























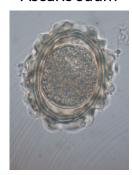
Results: PARASITIES in all Farms

- ☐ All Farms were infected with *Strongyloides, Ascaris suum*, and *Trichuris suis*
- Infections from *Strongyloides* are particularly high in **boar and lactating sows.**
- Lactating sows also show a high prevalence of Ascaris.
- → Young piglets show significant levels of Trichuris.

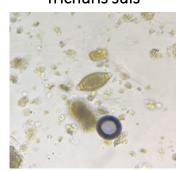
Strongyloides



Ascaris suum



Trichuris suis

















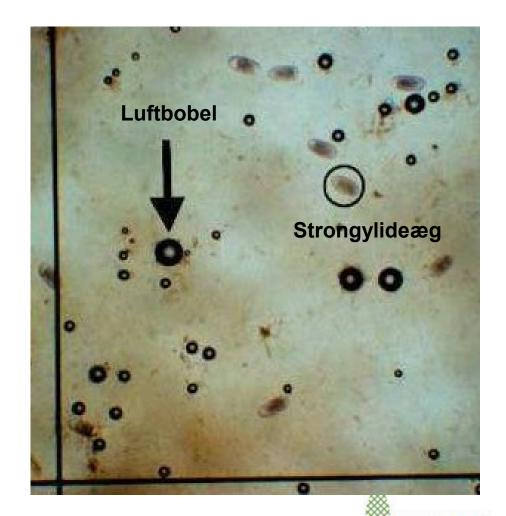






McMaster method

















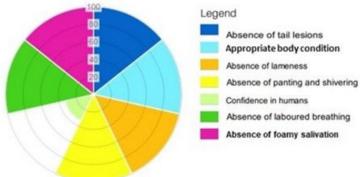








Results: HEALTH STATUS in all Farms





- ✓ Absence of tail lesions
- ✓ Appropriate body condition
- ✓ Absence of lameness
- ✓ Absence of panting and shivering
- ✓ Absence of laboured breathing
- ✓ Absence of foamy salivation
- ✓ Absence of stereotypies

Peculiarities

Confidence in humans
Burns on the skin





















Results: SOCIAL SITUATION in all Farms

Social results

Personal well-being

Territory

Nature contact



Undervalued final product

A lot of manpower ASF Control

Daily control of the territory





















Discussion PARASITIES



- Prevalence of Strongyloides, Ascaris, and Trichuris.
- Variable → age groups → focused management strategies
- Overall, these results underline the importance of regular monitoring and focused management practices to reduce the parasite load in organic farms.

























The scientific literature suggests that the prevalences of different parasites can vary widely depending on local conditions and management practices. It is not uncommon for studies conducted in different contexts or with different methodologies to report varied results.

(Li, 2020 and 2022)





















Discussion HEALTH STATUS



- Even though the animals have parasites, they still show good health status.
- This shows the robustness of pigs raised in organic conditions and the success of the management practices.
- The PIGLOW app confirmed that all groups of animals are healthy and behaving well, with only a few having minor issues, like mild sunburns.





















Discussion SOCIAL SITUATION



The interviews with farmers highlighted both **positive** and **negative** aspects: while working outdoors and being close to nature **improves their well-being**, they also face challenges such as the **high manpower** demands and the **low economic value placed on organic products**, making it hard to maintain the economic sustainability of the farm.





















Conclusion

- Management practices, such as regular pasture rotation, improved hygiene, parasite monitoring, and continuous observation of animal welfare, are essential to maintaining a healthy environment.
- Farm management specific, also adapting to the farmer's objectives.























THANK YOU FOR THE ATTENTION

