Poultry and PIg Low-input and Organic production systems' Welfare



# **Presentation of the PPILOW project**

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15<sup>th</sup> Meeting of the EU Platform on Animal Welfare, 18<sup>th</sup> June 2024



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 816172





### Why is it important to consider welfare in low-input outdoor and organic farming systems?

- High quality of the rearing practices and of the products
- Diversity of practices throughout Europe
- Still a need to improve animal welfare and limit mortality, in relation to the outdoor access challenging the animals, ethical issues, the wish of practitioners and societal expectations

<u>Objective of PPILOW</u>: Identify, test and evaluate animal welfare-improving practices by taking into account environmental, economic and social impacts including human well-being One Welfare concept (Garcia Pinillos et al., 2016)



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#### H2020 PPILOW partners and collaborators



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Coordination:

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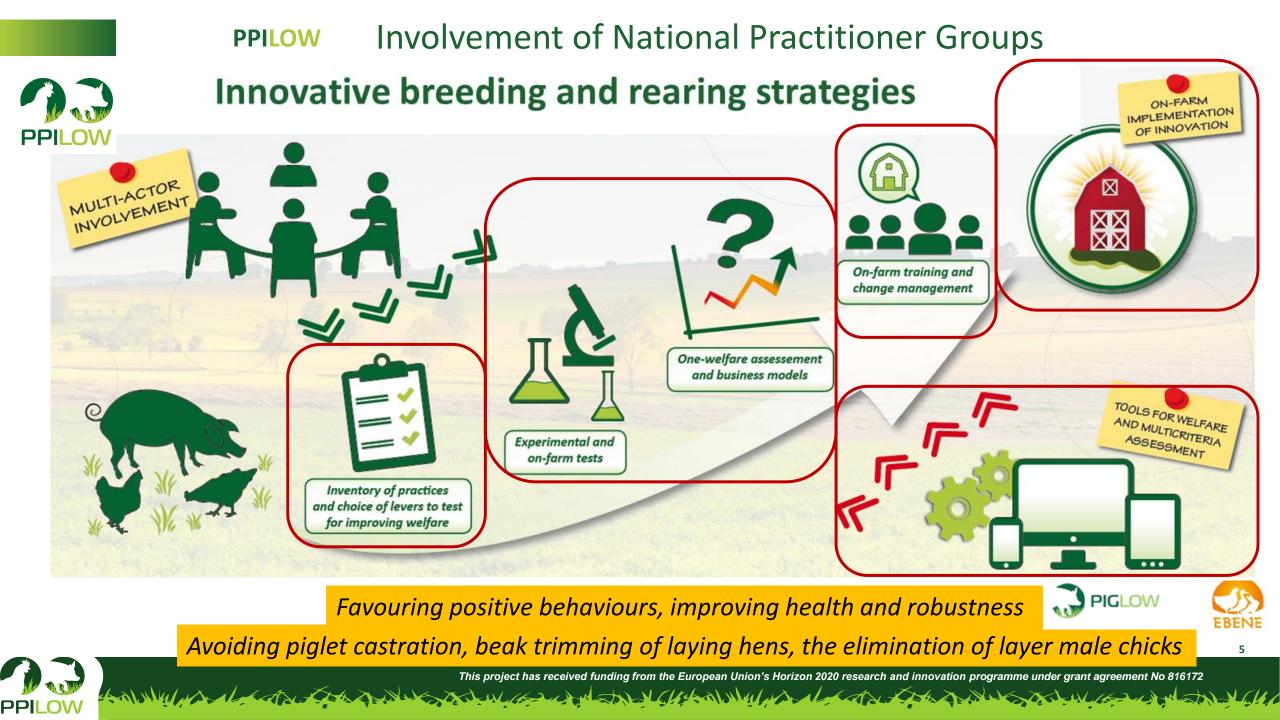
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**22 PPILOW Partners in 9 countries** 

9 National Practitioner Groups (NPG): 4 dedicated to pigs and 5 to poultry

#### www.ppilow.eu





#### **PPILOW** What are the issues in poultry production ?

Data from publications and research projects

| Health  | Animal behaviour                           | Management practices         |
|---|--|------------------------------|
| Parasitism                                      |  | Risk of predation            |
| Digestive diseases<br>Arthrosis, Pododermatitis | Feather pecking                            | Weather risks                |
| Fractures, Osteoporosis                         | Fearfulness                                | Human welfare/well-being     |
| Mortality                                       |  | Culling of layer male chicks |
| Lack of alternatives to<br>antibiotics          | Low use<br>of the outdoor space            | Depopulation & loading       |
| Poor water quality                              | Lack of overession                         | procedure                    |
| Lack of robustness                              | Lack of expression<br>of natural behaviour | Range management             |
| Unsuitability of<br>biosecurity rules           |  |                              |

Bonnefous et al. 2022, Frontiers Vet. Sci.



#### **PPILOW** What are the issues in pig production ?

Data from publications and research projects

General remark: huge heterogeneity among countries, systems and among farms

 $\Rightarrow$  huge diversity of problems, that are highly farm-dependent

- $\Rightarrow$  solutions often already exist
- Sows Endo and ecto-parasistism

Reproduction: issues related to estrus, poor conception rate and abortion

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PigletsNeonatal mortality (crushing, chilling)Hunger, anemia, nutritionnal deficiency

Diarrhoea

Endoparasitism

Grower pigs Diarrhoea, respiratory problems: less significant outdoor than indoor Endoparasitism

Piglet castration / management of non-castrated male pigs





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#### **PPILOW On-farm implementation**







Use of the **PIGLOW** and EBENE welfare self-assessment applications











Fig. 1 and 2 - Farrowing huts from the Danish PPILOW partner firm Vanggård Staldmontage (© Vanggård)









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## **PPILOW perspectives**

- Already effective or promissing innovations for improving pig and poultry welfare in low- input outdoor and organic farms
- On-farm implementations and dissemination to practitioners, large public and policy makers
- Perspectives : many challenges:
  EU labelling, organic and welfare regulations
  Organic broiler breeders and chicks
  On-farm hatching and rearing of non-castrated males already disseminating
  in conventional farms : to be considered in organic and low-input ones?
  New generation of in-ovo sexing tools
  Contributions to other EU projects or partnerships...

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# PPILOW PARTNERS



Thank you for your attention

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