

Overview of the PPILOW Project and its multiactor approach

Anne Collin, Monica Coletta

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



PPILOW Final Conference

PPILOW Final conference – Africa Museum, Tervuren (Brussels) 11th-12th June 2024





	Day 1 - 11 June 2024			
	Time	Sessions	Chairman/Speaker(s)	
	13:45 - 14:00	Registration		
	14:00 - 14:30	Overview of the PPILOW Project and its multiactor	R. Carelli, EAAP	
		approach	A. Collin, INRAE	
			M. Coletta, AIAB	
	14:30 - 15:30	PPILOW applications for pig and poultry welfare self- assessment	F. Tuyttens, ILVO	
		 PIGLOW application 	E. Graat, ILVO	
Agenda of the		EBENE application		
PPILOW		 Feedback from farmers 		
_	15:30 - 16:00	Coffee break		
Final conference	16:00 - 17:00	How to avoid feather pecking in non-beak-trimmed hens	T.B. Rodenburg, UU	
		and piglet castration?		
Day 1		 Early management and enrichment to limit feather pecking in laying hens 	S. Kliphuis, UU	
		 Management and genetics of non-castrated male 	B. Lebret, INRAE	
		pigs in low-input outdoor and organic systems		
	17:00 - 18:00	Alternatives to the elimination of layer male chicks	S. Lombard, ACTA/ITAB	
		In ovo sexing tools	S. Rehault-Godbert, INRAE	
		 Dual-purpose breeds including multicriteria assessment, economic and business models 	M. Reverchon, SYSAAF H. Pluschke, TI	
		assessment, economic and business models	S. Steenfeldt, AU	
			P. Thobe, TI	
	18:00	End of Day 1		

PPILOW

Agenda of the			
PPILOW			
Final conference			

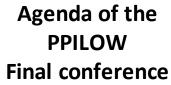
	e 2024		
	Time	Sessions	Chairman/Speaker(s)
	09:00 - 9:30	Registration	Welcome day 2 - A. Collin, INRAE
	09:30 - 10:00	 Genetics and range use by organic broilers Adaptability of broiler strains to the free range and agroforestry Individual variability of range use and genetic strategies 	S. Steenfeldt, AU C. Castellini and E. Angelucci, UNIPG E. Le-Bihan-Duval, INRAE
Agenda of the PPILOW	10:00 - 10:30	 Early management of broilers for welfare improvement Incubation temperatures for improving the resilience of slow-growing broilers On-farm hatching in organic and low input outdoor farms 	
Final conference	10:30 - 11:00 Coffee break		
	11:00 - 11:40	Plants for better health of pigs and laying hens	S. Steenfeldt, AU
Day 2		 Improving the gastro-intestinal health and welfare of laying hens by the use of dietary plant additives Improving the welfare and health of pigs from low- input systems by controlling the parasitic fauna and the digestive microbiome, using aromatic and medicinal plants 	R. Engberg, AU M. Spinu and V. Cozma, USAMV
	11:40 - 12:10	Sow and piglet welfare in low-input outdoor and organic farms Breeding strategies for piglet survival Design of innovative farrowing huts with PPILOW farmers and involved partners	S. Steenfeldt, AU E. Merlot, INRAE P. Vanggaard, Vanggaard Staldmontage
PPILOW	12:10 - 13:30 Lunch break		

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	13:30-13:40	Biosecurity and Welfare in low-input outdoor and organic pig and poultry farm	M. Coletta, AIAB
			A. Zuliani, VSF-Italia
	13:40 - 14:20	How does PPILOW connect with the other European initiatives on Animal Health and Welfare?	M. Coletta, AIAB
		aWISH	F. Tuyttens, ILVO
		BIOSECURE	E. Biebaut, UGent
		 Partnership on Animal Health and Welfare 	A. Boissy, INRAE
		 Synergies of PPILOW with other European projects 	L. Tourneur, ACTA
nda of the PILOW	14:20 - 15:00	Consumer and practitioner views and lessons from the workshop on PPILOW business models	
conference			J. Niemi, LUKE P. Thobe, TI
comerence	15:00 - 15:50	Round table with stakeholders on PPILOW impacts in the	
Day 2	15.00 - 15.50	context of European legislation on Animal Welfare, organic farming and labelling initiatives	T. B. Rodenburg, OO
		Céline Ledoux, DG SANTE	
		Laurence Bonafos, DG AGRI	
		Alain Boissy, INRAE	
		Silvia Schmidt, IFOAM,	
		Ines Grenho Ajuda, Eurogroup for Animals	
		Anne Collin, INRAE	
	15:50 - 16:00	Acknowledgements	A. Collin, INRAE
	10.00	End of the conference	
	16:00	Farewell coffee	

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Overview of the PPILOW Project and its multiactor approach

Chair: Riccardo Carelli 🥻



Anne Collin and Monica Coletta

INRA





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





What is Animal Welfare?

"The welfare of an animal is its positive mental and physical state as related to the fulfilment

of its physiological and behavioural needs in addition to its expectations. This state can vary

depending on the animal's perception of a given situation."

ANSES, 2018





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



PPILOW

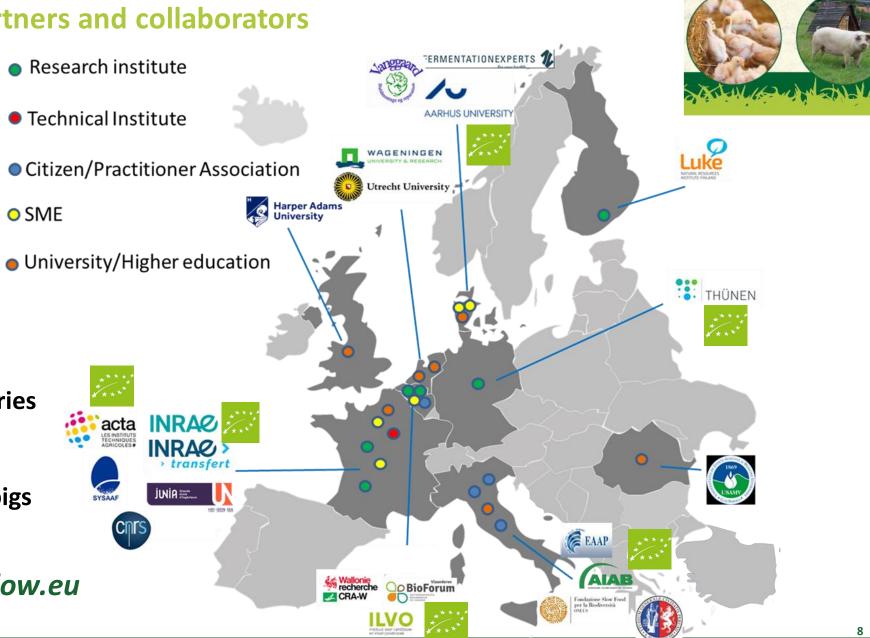
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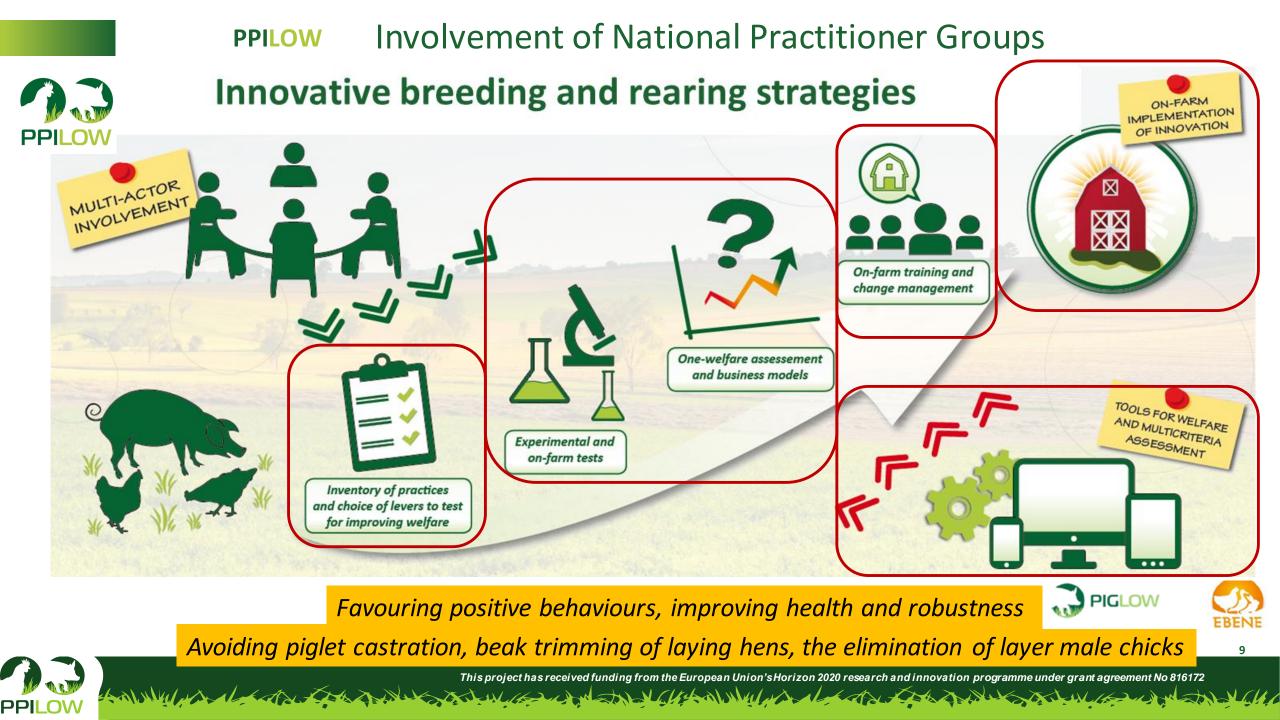
INRA

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 Arthrosis, Pododermatitis	Feather pecking	Weatherrisks
Fractures, Osteoporosis Mortality	Fearfulness	Human welfare/well-being
Lack of alternatives to antibiotics	Low use of the outdoor space	Culling of layer male chicks
Poor water quality	Lack of expression	Depopulation & loading
Lack of robustness	of natural behaviour	procedure
Unsuitability of biosecurity rules		Range management

Bonnefous et al. 2022, Frontiers Vet. Sci.

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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

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

Piglet castration / management of non-castrated male pigs

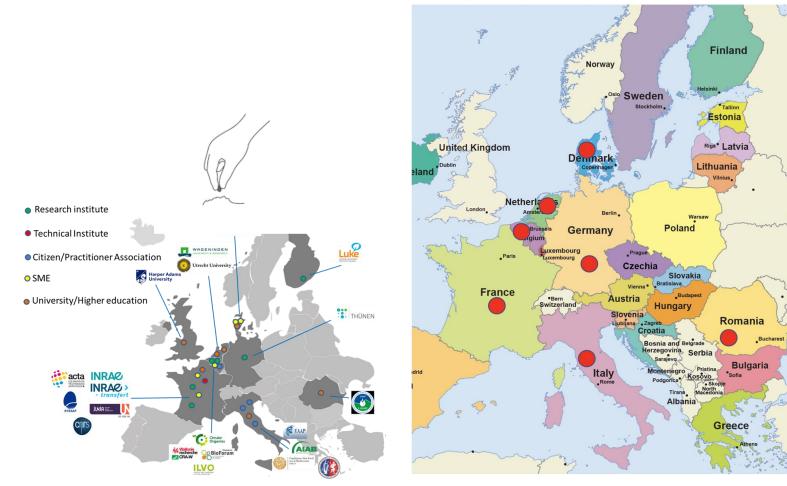




PPILOW NPGs

NATIONAL PRACTITIONERS GROUPS

Multi-actor groups in partner countries



5 NPGs poultry

- Denmark (1)
- France (I & b)
- Germany (I & b)
- Italy (b)
- Netherlands & Belgium (1)
- I = layers b = broilers

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4 NPGs pigs

- Belgium
- France
- Italy
- Romania



Enhance Animal welfare through co-creation with National Practitioners Groups

- Co-creation: the process of designing in productive cooperation with the end-users and other relevant partners
- Co-creators: practitioners involved into research activity and interested to introduce changes in management and practices

Adopting a scientific approach



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The One Welfare approach applied to the sustainability pillars and the test of Self-assessment tools supported discussion since the early stages of the project



SUSTAINABILITY PILLAR	ONE WELFARE DIMENSIONS	e e e e e e e e e e e e e e e e e e e
	Good Feeding	Use of the
	Good Environment (Housing)	PIGLOW and
Animal Welfare (4)	Good Health	EBENE welfare
	Appropriate Behaviour	self-assessment
	Enhance biodiversity	applications
Environment (3)	Reduce pollution (soil, air, water)	
: : :	Minimize external resources used	
	Performance - quantity	
- (1)	Performance - quality	
Economy (4)	Returns	
	Costs	PIGLOW CS
	Working conditions	EBENE
Society (4)	Job perception and motivation	
	Connection with local community	
· · · · · · · · · · · · · · · · · · ·	Social Acceptability	

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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 PARTNERS



Thank you for your attention

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PPILOW	18.00	End of Day 1	P. Thobe, TI
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