



# Overview of the PPILOW project, objectives and agenda of the Autumn school

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Simona Mattioli and Cesare Castellini (UNIPG)



**PPILOW Autumn School, Borgo Antichi Orti , Assisi, Italy**  
*25<sup>th</sup>-27<sup>th</sup> October 2023*

# 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.



French Agency for Food, Environmental  
and Occupational Health & Safety

Avis de l'Anses

Saisine n° « 2016-SA-0288 »

Five freedoms contained in the Council of Europe's Convention for the Protection of Animals kept for Farming Purposes:

- Freedom from hunger and thirst;
- Freedom from discomfort;
- Freedom from pain, injury and disease;
- Freedom to express normal behaviour;
- Freedom from fear and distress

<https://eur-lex.europa.eu/EN/legal-content/glossary/animal-welfare.html> 2



Why is it important to consider animal 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

Identify, test and evaluate animal welfare-improving practices by taking into account environmental, economic and social impacts *including human well-being : the One Welfare concept\**

\*Garcia Pinillos et al., 2016 3

# 'ONE WELFARE'



Veterinary Record, Volume: 179, Issue: 16, Pages: 412-413,  
First published: 22 October 2016, DOI: (10.1136/vr.i5470)

Garcia Pinillos et al. Veterinary Record 2016, 179: 412-413

<http://veterinaryrecord.bmj.com/content/179/16/412/DC1/embed/inline-supplementary-material-1.pdf>

[www.onewelfareworld.org](http://www.onewelfareworld.org)



@onewelfare



onewelfare



# PPILOW partners and collaborators



2019-2024



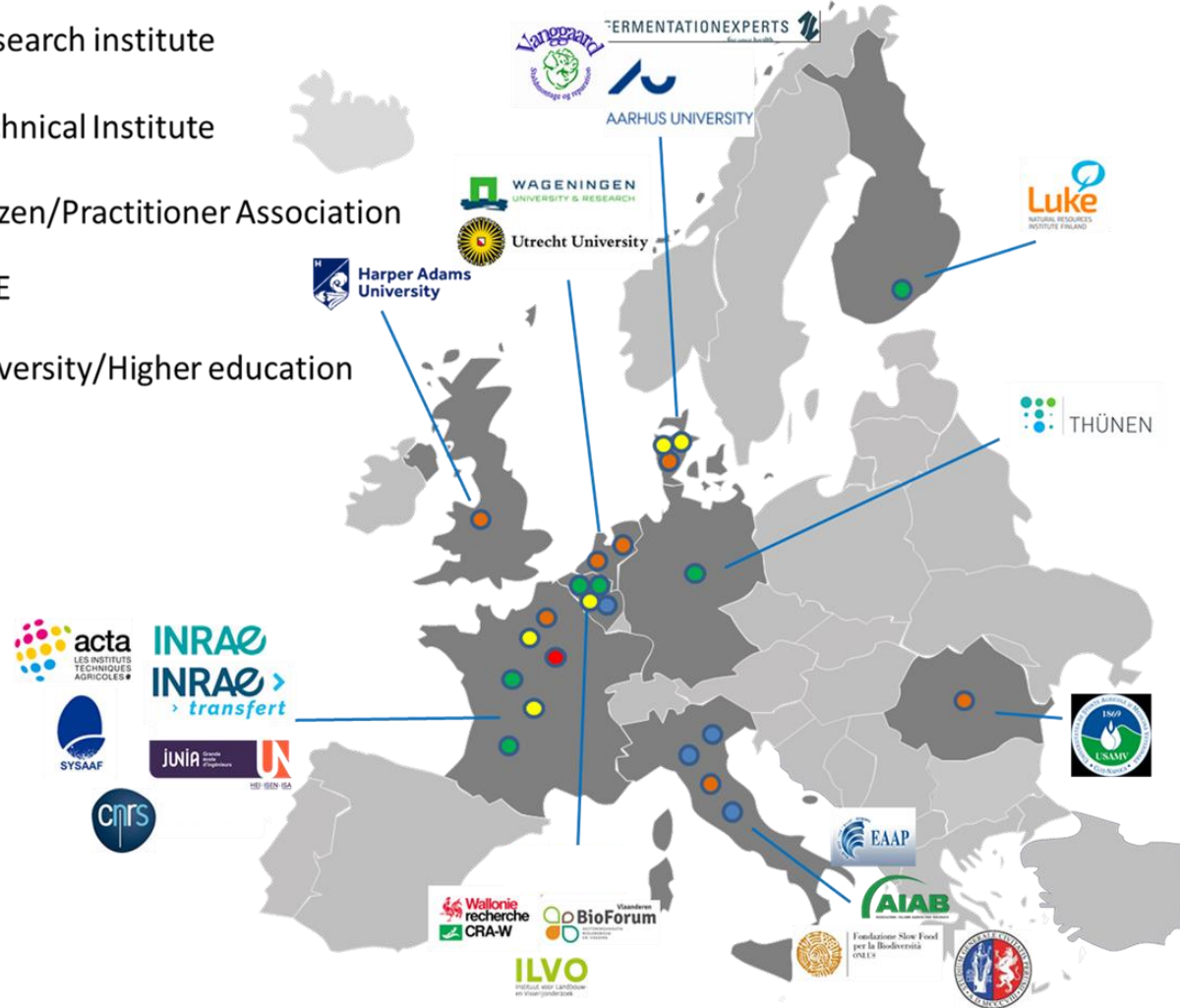
Coordination: **INRAE**

22 PPILOW Partners in 9 countries

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

[www.ppilow.eu](http://www.ppilow.eu)

- Research institute
- Technical Institute
- Citizen/Practitioner Association
- SME
- University/Higher education





## Innovative breeding and rearing strategies

MULTI-ACTOR INVOLVEMENT



Inventory of practices and choice of levers to test for improving welfare

Experimental and on-farm tests

One-welfare assessment and business models

On-farm training and change management

ON-FARM IMPLEMENTATION OF INNOVATION

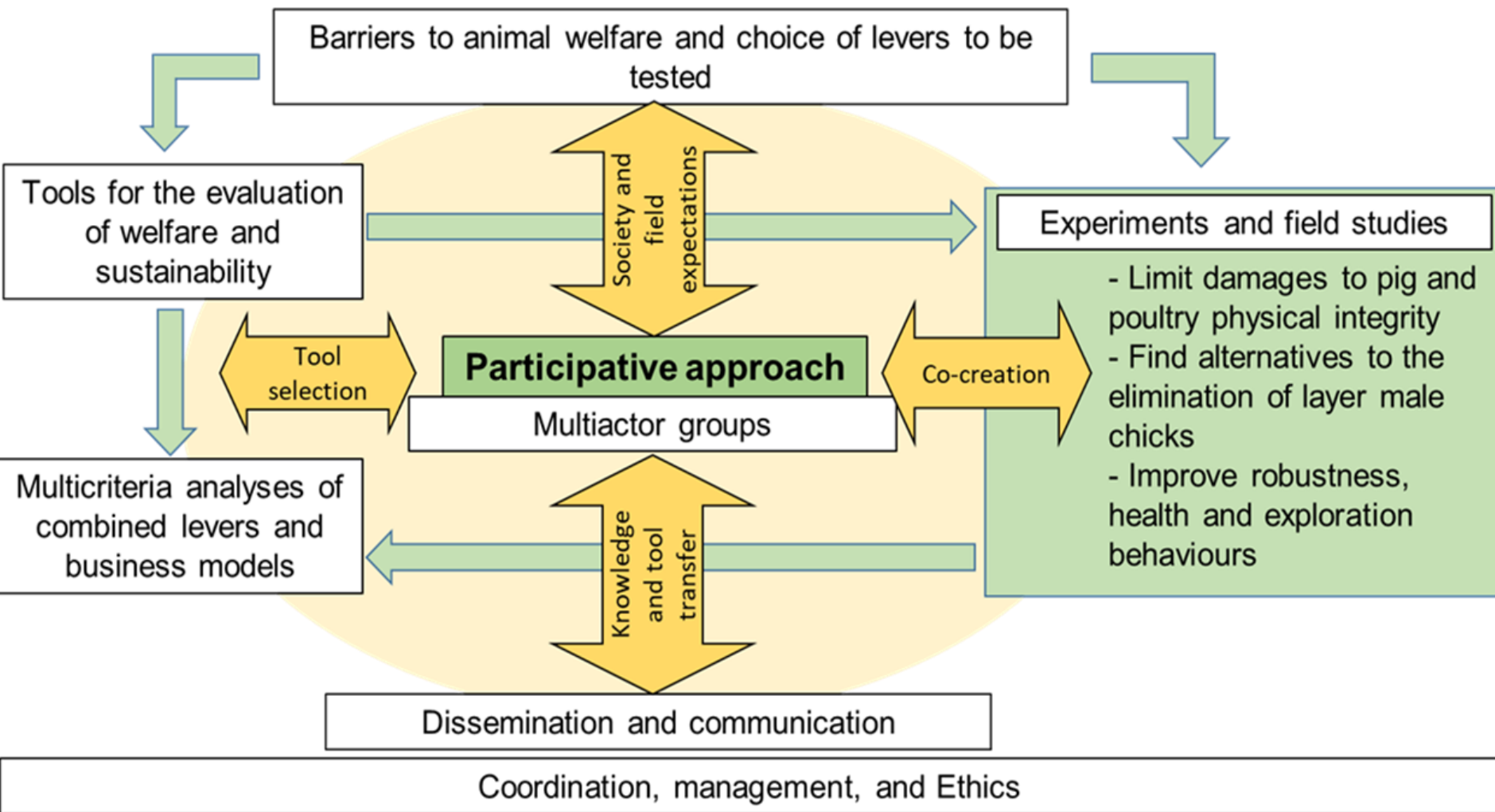
TOOLS FOR WELFARE AND MULTICRITERIA ASSESSMENT



*Favouring positive behaviours, improving health and robustness*

*Avoiding piglet castration, beak trimming, the elimination of layer male chicks*

# PPILOW organisation



# PPILOW AUTOMN SCHOOL AGENDA

**Day 1 - Wednesday 25 October**

**8:45 – 9h15 Registration**

**9h15 - 9h35 - Introduction**

Overview of the PPILOW project, objectives and agenda of the summer school - **Anne Collin (INRAE) and Riccardo Carelli/Cesare Castellini**

**9:35 –15.30 - Session: Animal Welfare and ethical issues**

9:35-10:35 - Animal welfare management in organic and low-input outdoor production systems –, **Charlotte Vanden Hole (ILVO), Bas Rodenburg (UU)**

**10:35 – 11:00 – Coffee break**

11:00-11:45: Stakeholder opinions regarding current production practices in organic and outdoor poultry systems; constraints and possibilities for adopting innovative strategies - **Raffaella Ponzio (Slow Food)**

11:45-12:30 Rearing non-castrated male pigs and avoiding boar taint in pork - **Benedicte Lebret (INRAE)**

**12:30-14:00 Lunch**

14:00-14:45 "In ovo sexing techniques: current and future developments"- **Sophie Rehault-Godbert (INRAE)**

14:45-15:30 Evaluation of performance and economy of dual-purpose genotypes as an alternative to the elimination of one-day-old male layer chicks - **Helen Pluschke /Petra Thobe (Thuenen), Sarah Lombard (ACTA/ITAB)**

**15:30 - 16:00 Coffee break**

**16.00 - 17.30**

Team Work (4 or 5 groups of participants representing the viewpoint of the actors chain on poultry welfare issues and action to overcome it).

**Dinner: 20.00 at Borgo Antichi Orti**



# PPILOW AUTOMN SCHOOL AGENDA

## Day 2 - Thursday 26 October

### 9:00 - 15.30 - Session: Co-adapted systems, genotypes and animals

9:00 – 9:45 Overview of the most common commercial poultry genotypes (meat and eggs productions) and selection criteria adopted – **Maxime Reverchon (SYSAAF)**

9:45 – 10:45 Principal characteristics of suitable broiler genotypes adapted to outdoor system – **Claire Bonnefous (INRAE)/Simona Mattioli (UNIPG)**

### 10:45-11:05 Coffee break

11:05 – 11:50: Outdoor rearing and evaluation of expected improvement due to pasture enrichment in poultry –**Cesare Castellini (UNIPG)**

11:50 – 12:35 How to develop a framework (MCDA) for the evaluation of One Welfare concept / Economic evaluation of innovations and rearing strategies - **Lucia Rocchi (UNIPG), Petra Thobe (Thuenen), Jarkko Niemi (Luke)**

### 12:35 – 14:00 Lunch

14:00 – 14:45: Improving the robustness of piglets against parasitic and bacterial infections. **Vasile Cozma/Marina Spinu (USAMV)**

14:45 – 15:30: Improving piglet robustness through genetics and farrowing housing - **Lene Pedersen (AU), Pia Vanggaard (Vanggaard Staldmontage)**

### 15:30 - 15:50 Coffee break

15:50 – 16:25: Feedback on the work of the NPGs, **Martina Re (AIAB), Anne Collin (INRAE)** and synthesis of the current state of the change management with practitioners, **Monica Coletta (AIAB)**

### 16.25 - 18:00

Team Work (4 or 5 groups of participants representing the viewpoint of the actors chain on the choice of the best poultry genotypes/housing system in extensive systems, on the management and diets issues).

**Dinner: 20.00 at Borgo Antichi Orti**

# PPILOW AUTOMN SCHOOL AGENDA

**Day 3 - Friday 27 October Visit from 8 to 16/17 (estimate time of arrival in Perugia)**

Visit to extensive poultry farms **San Bartolomeo** (Free-range rearing system of broiler with olive trees enrichment)

*We are expecting fruitful exchanges and share of information based on the PPILOW project approach and results and on your own experience!*

# PPILOW PARTNERS



*Thank you for your attention and involvement!*

[www.ppilow.eu](http://www.ppilow.eu)