# Poultry and Plg Low-input and Organic production systems' Welfare



# A tool for farmers to self-assess the welfare of their livestock

Frank Tuyttens (ILVO)

Joint conference: improving sustainability and welfare in organic poultry and pig production, 25th-26th January, 2021





# **PPILOW WP 3.1 and 3.2 - Objectives**

# ENABLE FARMERS TO SELF-MONITOR THE WELFARE OF THEIR BROILERS, LAYING HENS, FATTENING PIGS AND SOWS

DEVELOPMENT/
REFINEMENT

WP 3.1

OBJECTIVE: DEVELOP/REFINE SMARTPHONE APPS FOR WELFARE SELF-ASSESSMENT BY FARMERS

**RESULTS: EBENE® AND PIGLOW®** 

WP 3.2

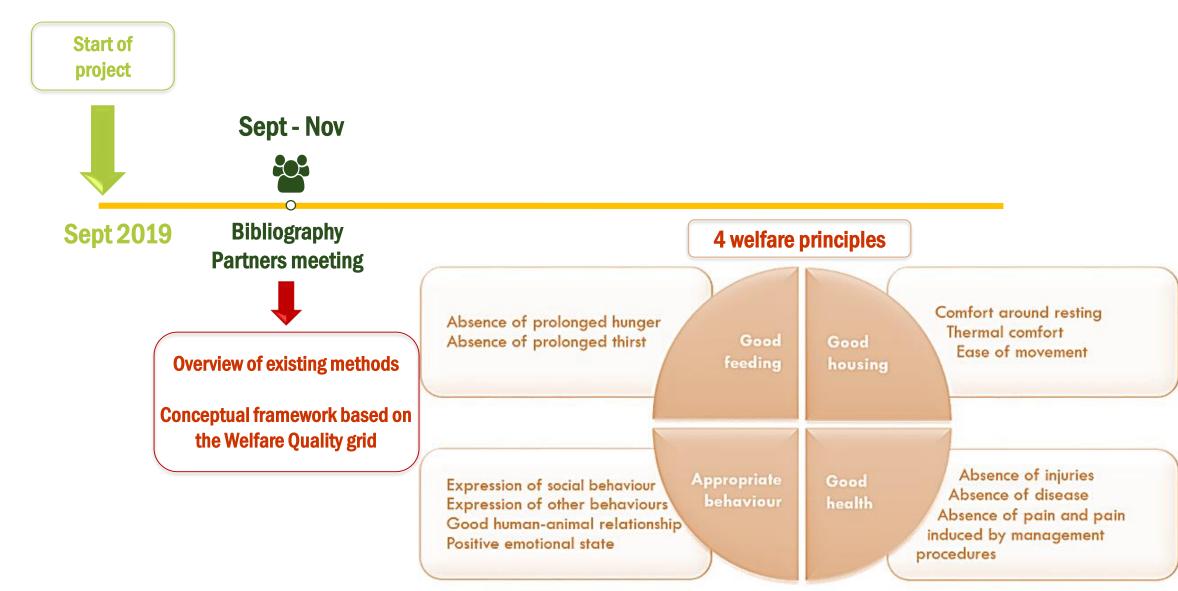


**SMARTPHONE APP** 

OBJECTIVE: TEST WHETHER USE OF THE SMARTPHONE APPS RESULTS IN IMPROVED WELFARE IN PIG AND POULTRY FARMS

IN PROGRESS

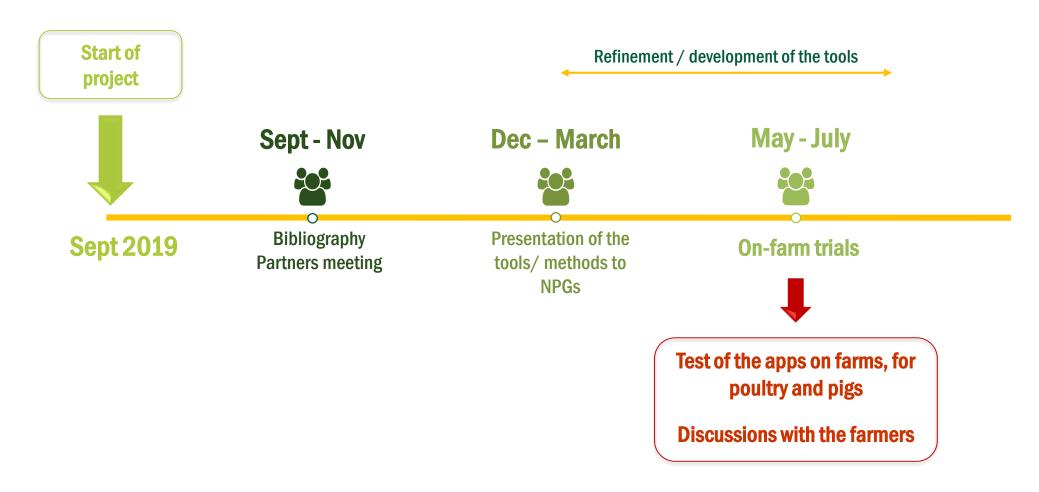






**Start of** Refinement / development of the tools project **Sept - Nov** Dec - March **Bibliography Presentation of the Sept 2019 Partners** tools/ methods to meeting **NPGs** Indicators and methods discussed with **NPGs Questionnaires filled in by NPGs Answers analyzed and discussed with** WP3.1 partners











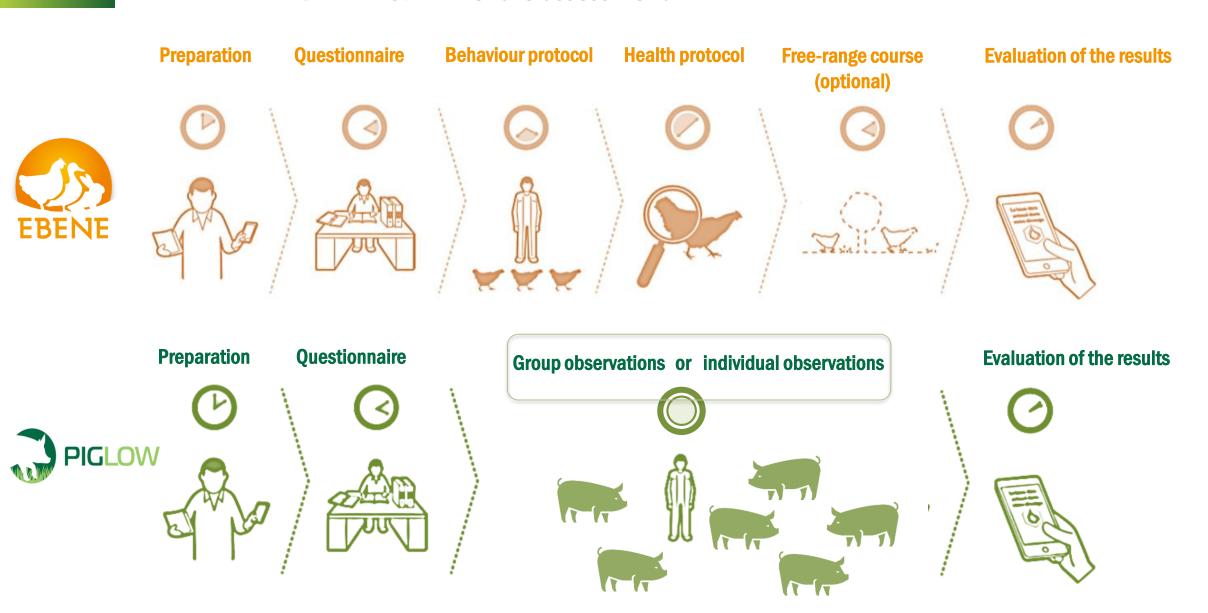


Apps available on iOS and Android devices

**Dutch, English and French languages implemented** 

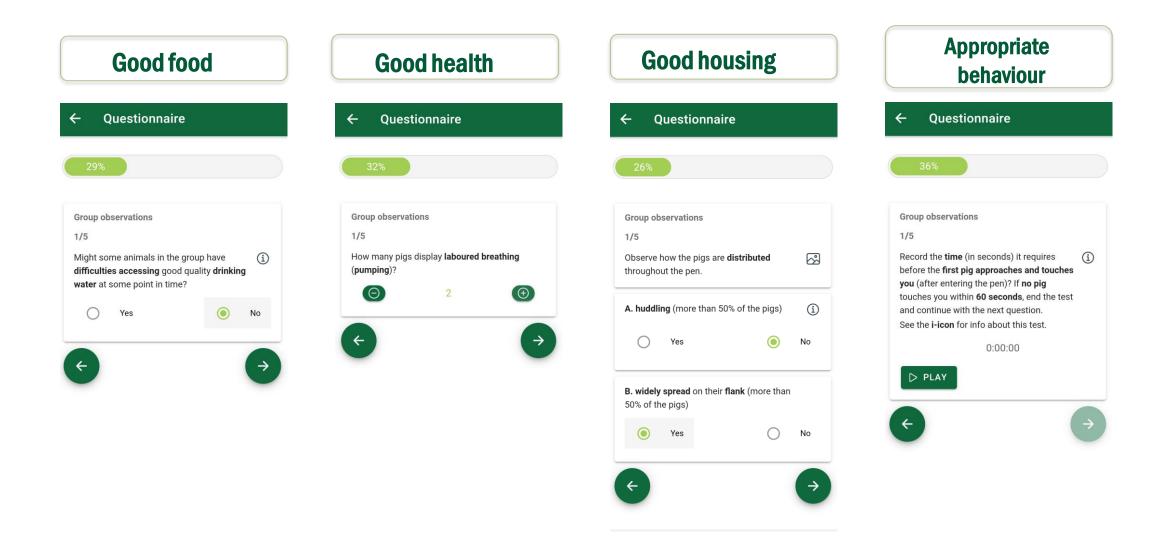


#### PPILOW WP 3.1 – Welfare assessment





#### **PPILOW WP 3.1 – PIGLOW group observations**





#### **PPILOW WP 3.1 – PIGLOW results**

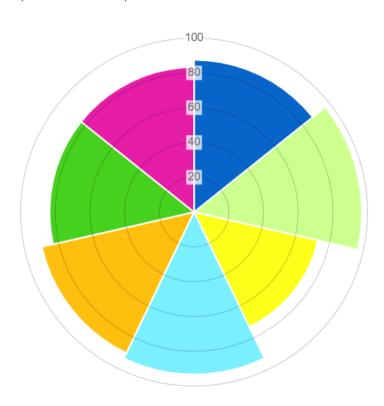
	Scores	Benchmarking
Appropriate Behaviour		
Description	Answers/Score	Benchmarking based on percentile 1
confidence in humans (average approach time) 1	10,5 sec	P51
pigs using the enrichment 1	16,7 %	P67
pigs with at least 15 scratches on one side 1	0 %	P86
pigs with ear lesions 1	10 %	P64
pigs with tail lesions 1	3,3 %	P7



#### PPILOW WP 3.1 – PIGLOW results

#### Welfare Radar

All indicators in the welfare radar are displayed on a scale of 0% (worst possible score) to 100% (best possible score). By clicking (online) on the i-icon in the legend you will see potential risk factors per welfare indicator.





Absence of laboured breathing 1 Absence of panting and shivering 1

Absence of ear lesions (1)

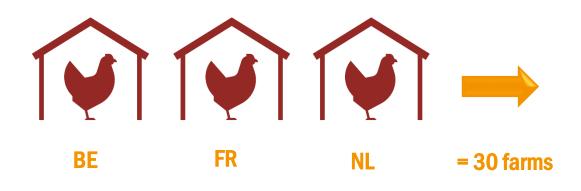
Indicators at time of assessment

**Evolution of indicators over time** 



#### PPILOW WP 3.2 – Set-up





Period = 2 years

Assessments by farmer = 2/year

Assessments by experienced observers = 1st and last







**= 20 farms** 

Period = 2 years

Assessments by farmer = 3/year

Assessments by experienced observers = 1st and last



#### PPILOW PARTNERS















































www.ppilow.eu



#### PPILOW FUNDING

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°816172



www.ppilow.eu

