



Overview of the PPILOW project and tools developed for animal welfare self-assessment

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Meeting of the 'Animal Welfare' subgroup of the Collaborative working group Animal health and welfare of SCAR
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Challenge



Low-input outdoor and/or organic farming

- Quality of the rearing system and of the products
- A diversity of practices throughout Europe, especially for organic systems
- There is still a need to improve animal welfare and limit mortality in these systems, partly in relation to outdoor access challenging the animals, the will of practitioners and societal expectations

SFS-08-2018: Improving Animal Welfare

Scope: A. [2018] Organic and low-input farming (RIA), 10 M€, Multi-actor project)

PPILOW: Poultry and Pig Low-input and Organic production systems' Welfare

September 2019 – August 2024 (*grant agreement #816172*)

www.ppilow.eu

Objective: to co-create through a multi-actor approach innovations to improve the welfare of poultry and pigs reared in organic and low-input outdoor farming systems

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

23 PPILOW Partners in 9 countries

Coordination INRAE


acta
 LES INSTITUTS
 TECHNIQUES
 AGRICOLES


INRAE
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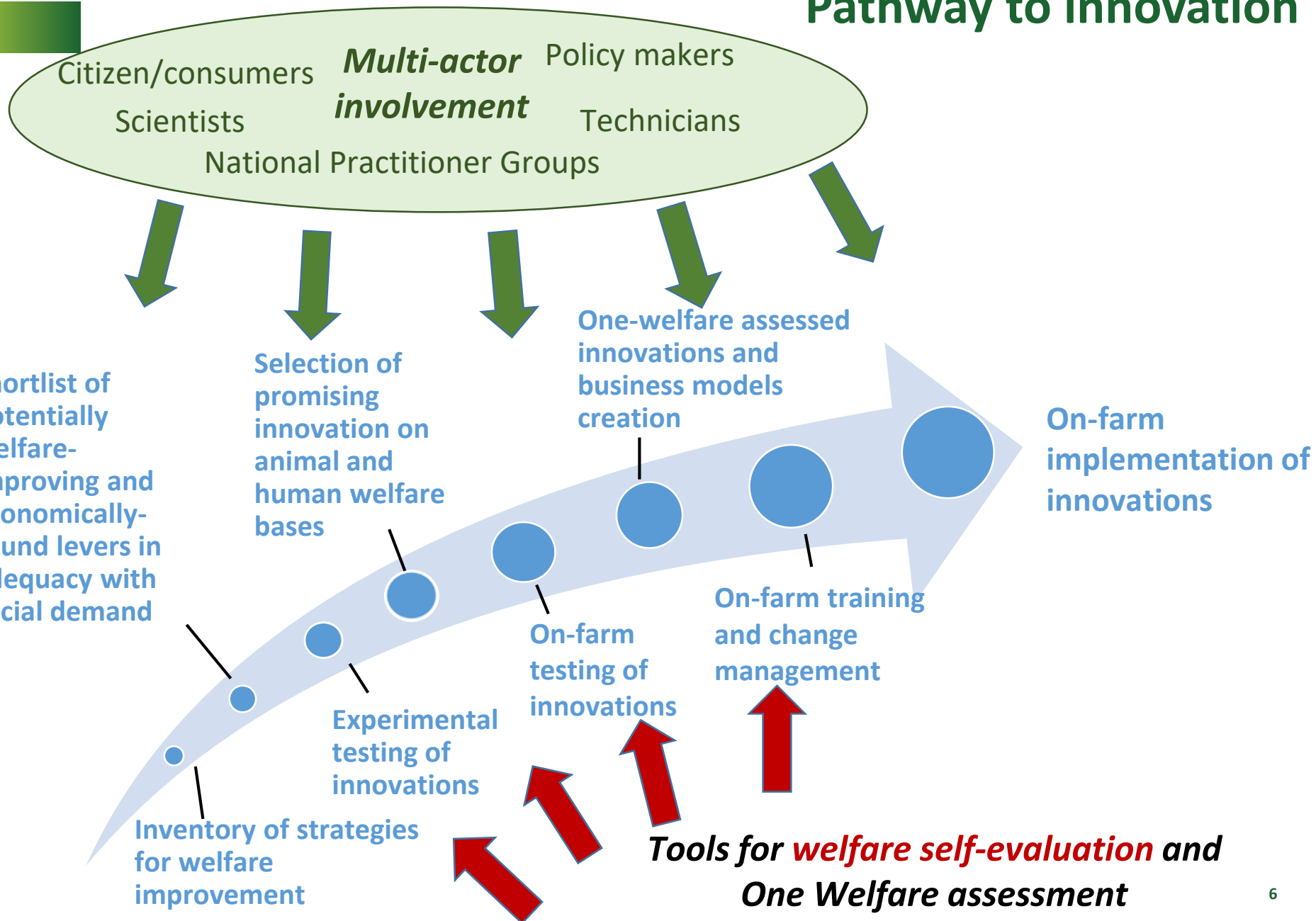
Expected impacts of the PPILOW project

PPILOW co-creates with end-users (National Practitioner Groups) welfare self-assessment tools and innovative breeding and rearing strategies and techniques for improving animal and human welfare based on robust scientific sets of data by:

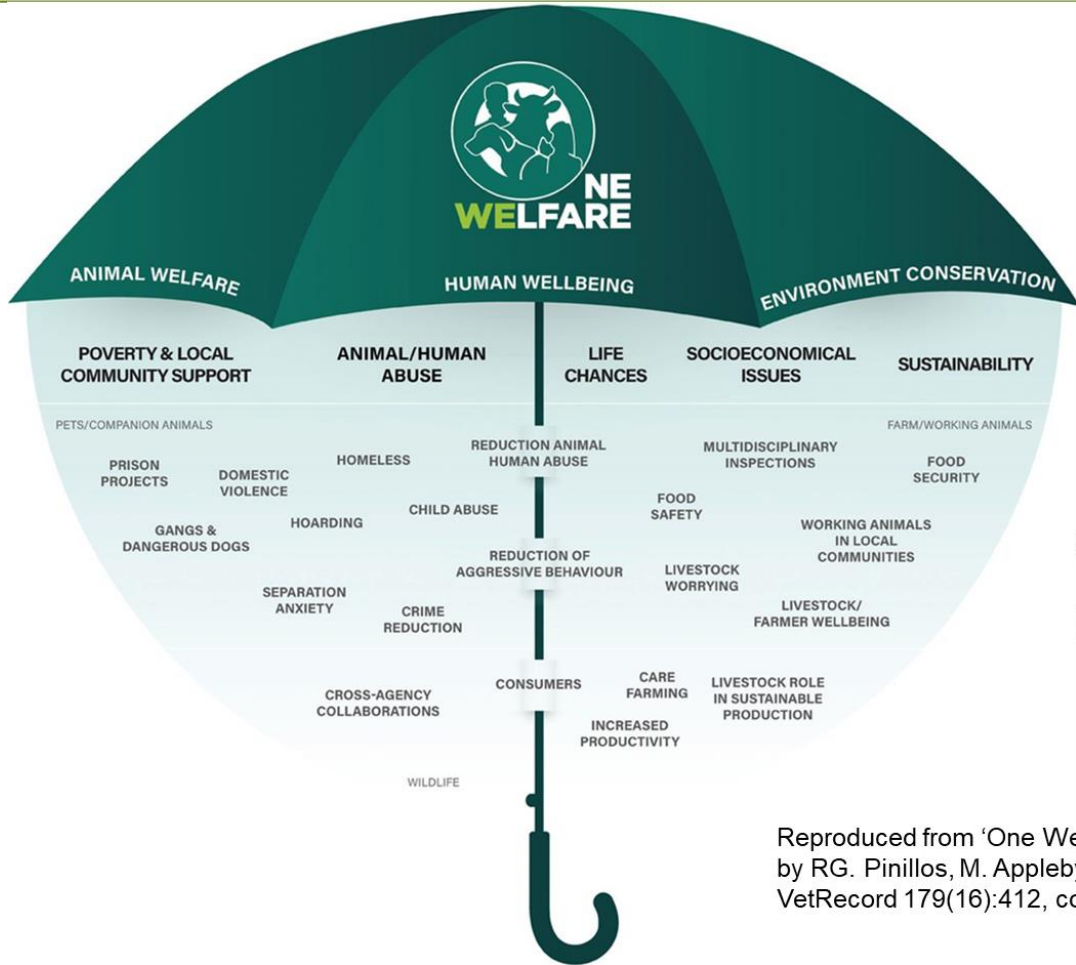
- avoiding piglet castration and beak trimming and the elimination of one day-old layer male chicks,
- favouring positive behaviours and improving health and robustness in both species

The feasibility of the proposed approaches and their impacts according to the 'One welfare concept' will be evaluated and change of practices will be facilitated

Pathway to innovation



One welfare concept



One Welfare concept
(Pinillos et al., 2015, 2016)

Reproduced from 'One Welfare – a platform for improving human and animal welfare' by RG. Pinillos, M. Appleby, X. Manteca, F. Scott-Park, C. Smith and A. Velarde. 2016. VetRecord 179(16):412, copyright notice 2019, with permission from BMJ Publishing Group Ltd.

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Tools for Welfare self-assessment developed in PPILOW

Frank Tuytens, EV ILVO, WP3 leader

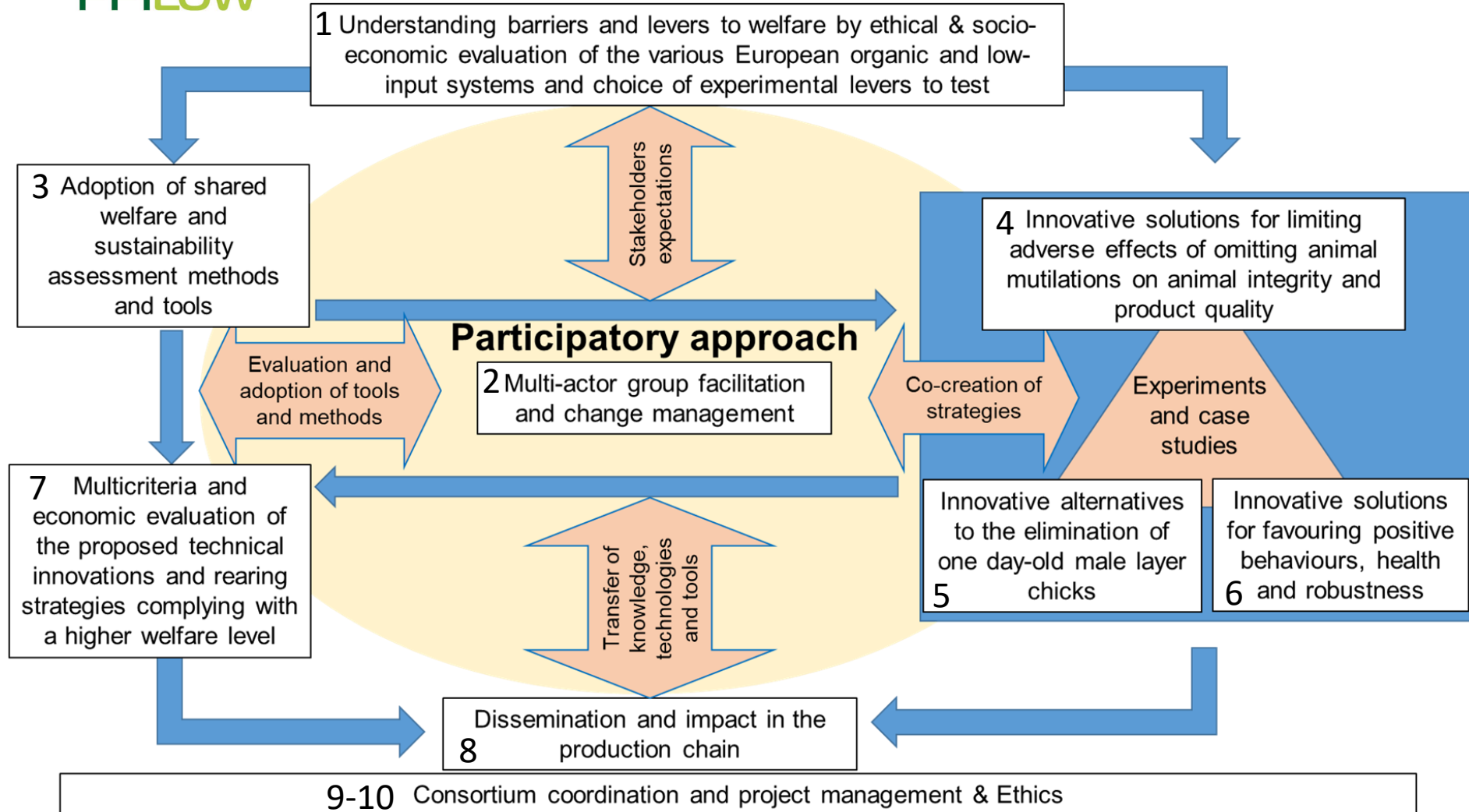


Laura Warin, ACTA(ITAVI), Task leader





PPILOW project structure



Development of welfare self-assessment tools for farmers:

Evolution of EBENE application and development of PIGLOW application

- Bibliography:
 - Overview of existing methods
 - Conceptual framework based on the Welfare Quality Grid
- 4 welfare principles*
Good Feeding/Good housing
Good health/Appropriate behaviour

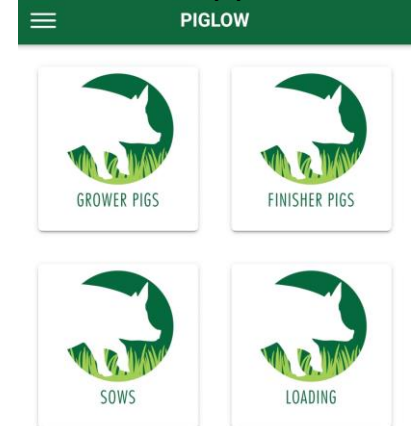
- Development of the apps:
Animal-based indicators

- Feedback from National Practitioner Groups
- On-farm try-outs

EBENE Application



PIGLOW Application





Apps available (or soon available) on iOS and Android devices

Dutch, English and French languages implemented

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



Further national languages will be implemented thanks to interactions with PPILOW partners
(8 languages)

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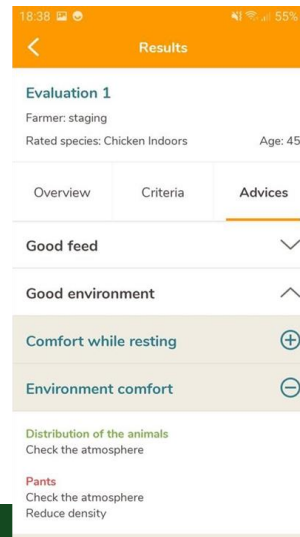
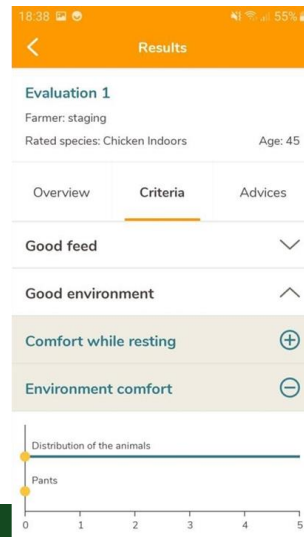
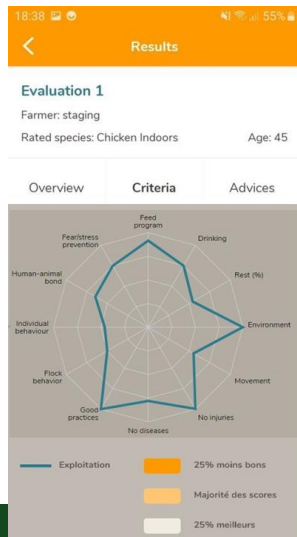
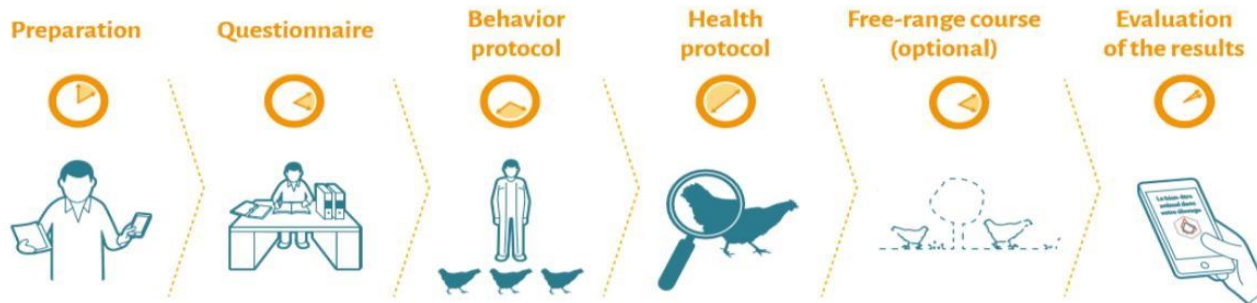
EBENE is designed for poultry: laying hens and broilers



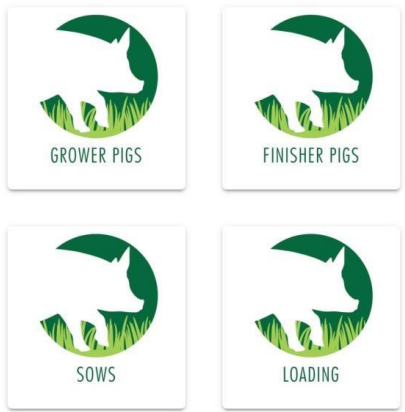
Duration: approx. 1h per assessment



Recommendation: assessment to carry out at the end of the production cycle (broilers) or twice during the production cycle (laying hens)



Results as Radar, risk factors and recommendations



Duration:
 1 hour for fattening pigs
 1.5 hours for sows

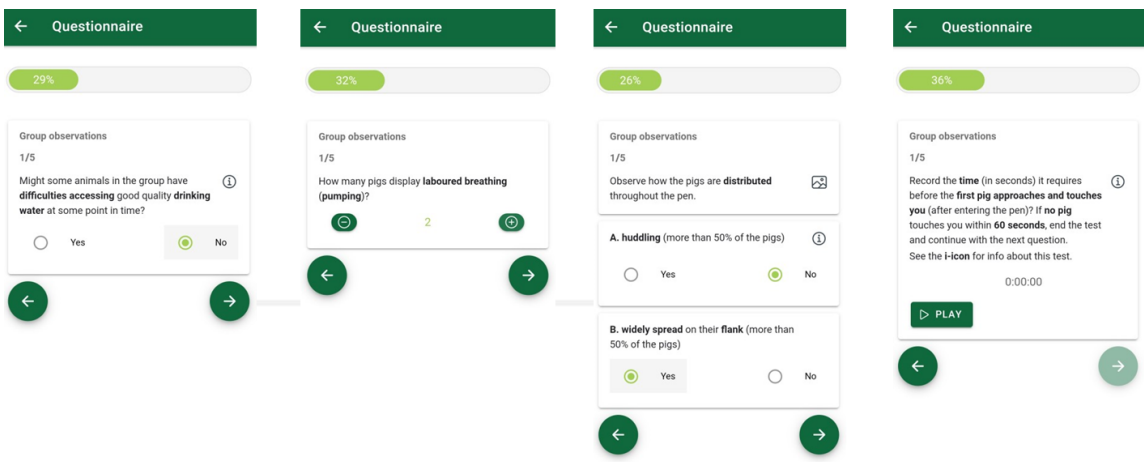
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Recommendation:

Every 3-4 months or once in every season of the year
Office section for general information
Observations can be conducted inside or outside

All indicators in the welfare radar are displayed on a scale of 0% (worst possible score) to 100% (best possible score).

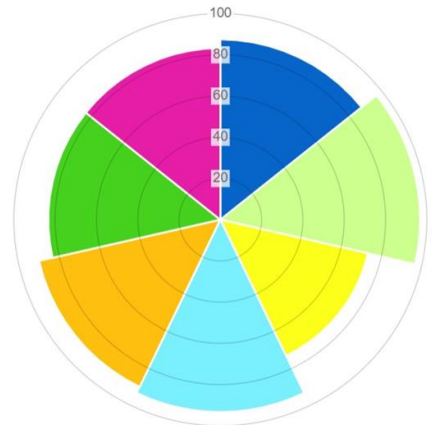


Good food

Good health

Good housing

Appropriate behaviour



- Legend Benchmark
- Confidence in humans ⓘ
 - Absence of tail lesions ⓘ
 - Absence of faeces/manure on skin ⓘ
 - Absence of lameness ⓘ
 - Absence of laboured breathing ⓘ
 - Absence of panting and shivering ⓘ
 - Absence of ear lesions ⓘ

i-icons: risk factors



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Next step: Task 3.2 of PPILOW WP3

Testing and evaluating animal welfare self-assessment & benchmarking tools

PPILOW PARTNERS



Thank you for your attention

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