

TailBiteAdvice

- An ICT-based real-time advisory tool to minimise tail biting in fattening pigs



TAILBITEADVICE

Prof Tomas Norton

Kick-off cofunded Projects Seminar
17-18th March 2021

Goal and context

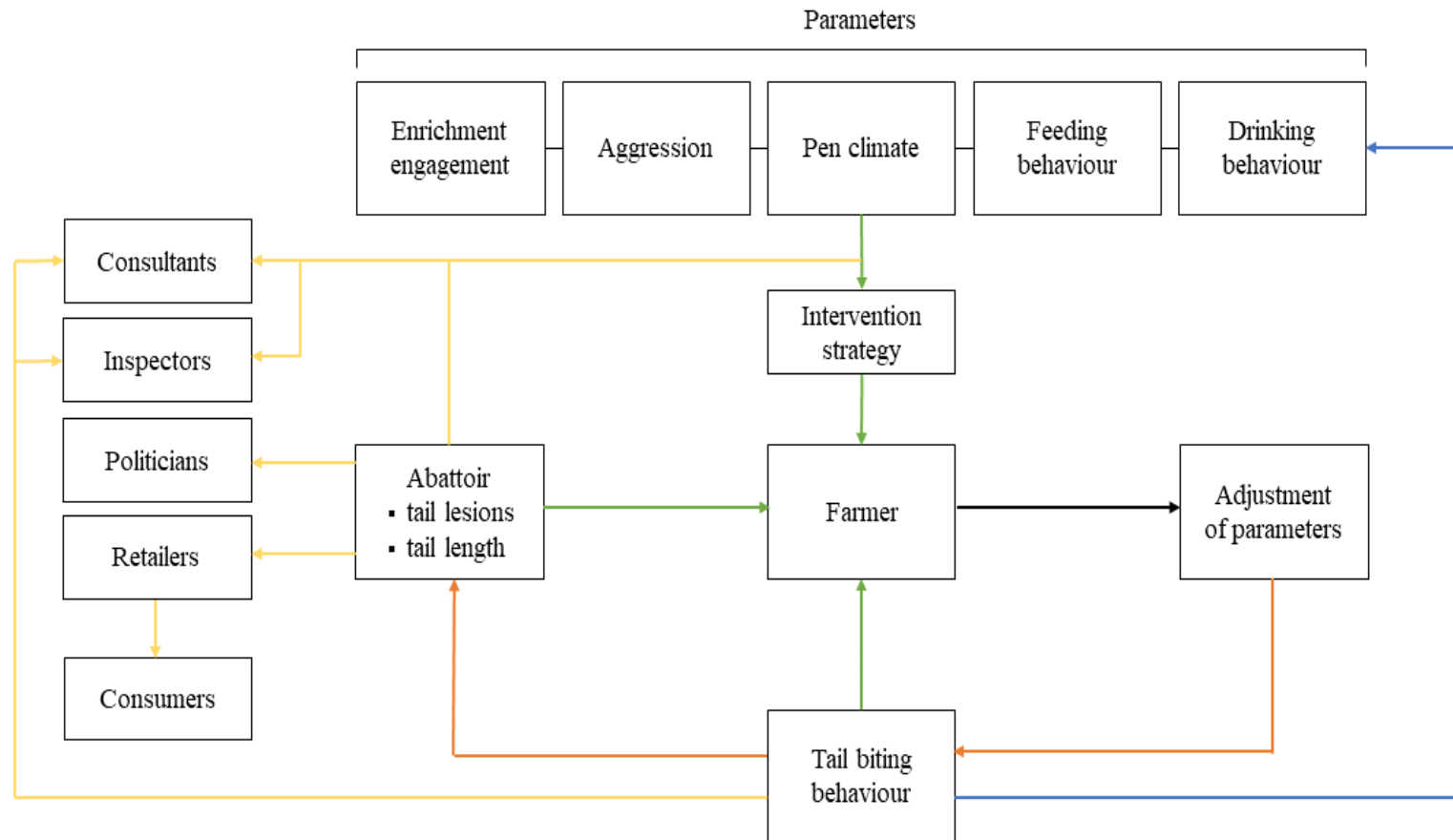
Tail biting: one of the major welfare challenges, but also...

- ... affects growth
- ... increase antibiotic use
- ... increase condemnations at slaughter
- ... an economic problem for the farmer

GOAL: to aid the farmer in the prevention of damaging tail damage by developing a data-driven decision support tool based on remote detection of tail biting behaviour and intervention advice based on other remotely detected parameters

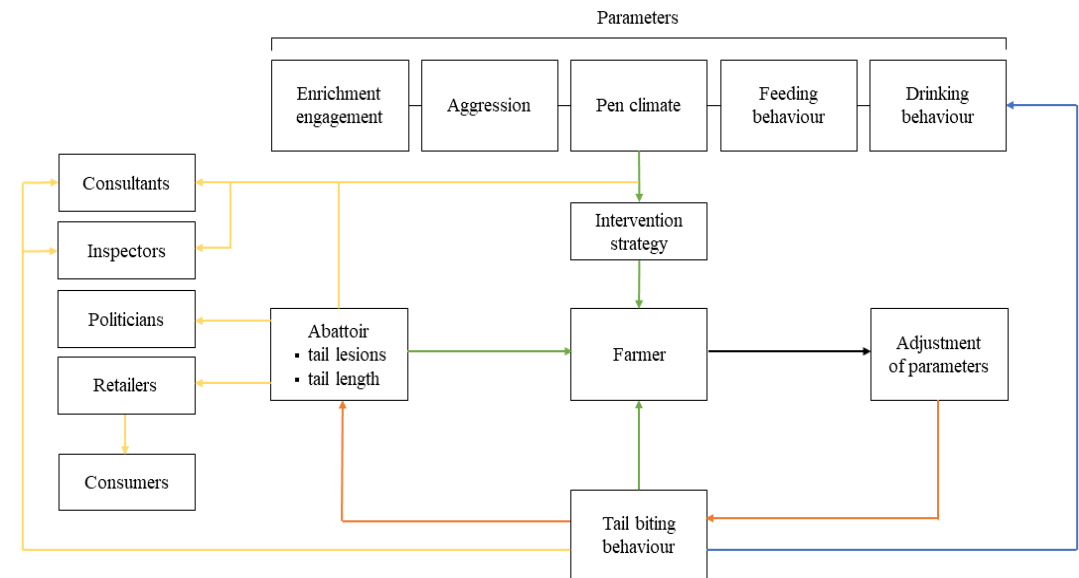


The decision support tool



Main project activities

- 1) **Development 1:** Optimisation and integration of lab-validated remote detection algorithms
- 2) **Development 2:** Investigation of relationship between risk factors of tail biting and the parameters included in the decision support tool
- 3) **Demonstration** of the developed decision support tool on research farm
- 4) **Multi-actor stakeholder group** and workshops to discuss potential barriers in implementation of the decision support tool



Consortium

KU Leuven, Belgium – project coordinator

- ❑ *Engineers, data scientists*
- ❑ Prof Tomas Norton
- ❑ Dr Dong Liu (post doc)

Aarhus University, Denmark

- ❑ *Ethologists*
- ❑ Prof Lene Juul Pedersen
- ❑ Dr Mona Lilian Vestbjerg Larsen (post doc)
- ❑ Dr Guilherme Amorim Franchi (post doc)

Teagasc, Ireland

- ❑ *Animal scientists*
- ❑ Dr Laura Boyle
- ❑ Dr Keelin O’Driscoll

Experience within
Precision Livestock
Farming research



What is your project contributing to? Potential impact

The One Welfare concept

Humans:

- Better social acceptance of the production
- Greater compliance with the EU legislation on tail docking
- Safer food
- Higher returns to the farmer

Animals:

- Reduced stress, pain and fear associated with tail biting

Environment:

- Reduce waste and pollutant



Cooperation with Stakeholders / value chain

Multi-actor stakeholder group and workshops

- ❑ National and international
- ❑ To discuss and create opportunities, barriers and guidelines for implementing the decision support tool

- ❑ Including:
 - ❑ Farmers
 - ❑ Veterinarians
 - ❑ Consultants
 - ❑ Inspectors
 - ❑ Retailers
 - ❑ Politicians
 - ❑ IT companies

Dissemination and outreach

- ❑ Twitter account and project webpage
- ❑ National newsletters and public press
- ❑ National stakeholder events

- ❑ International peer-reviewed publications
- ❑ Conference abstracts
- ❑ Report on workshop results

- ❑ Meeting with IT developers to discuss future implementation



LET'S KEEP IN TOUCH!

Please feel always free to reach out to us.

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Thank you for your attention!