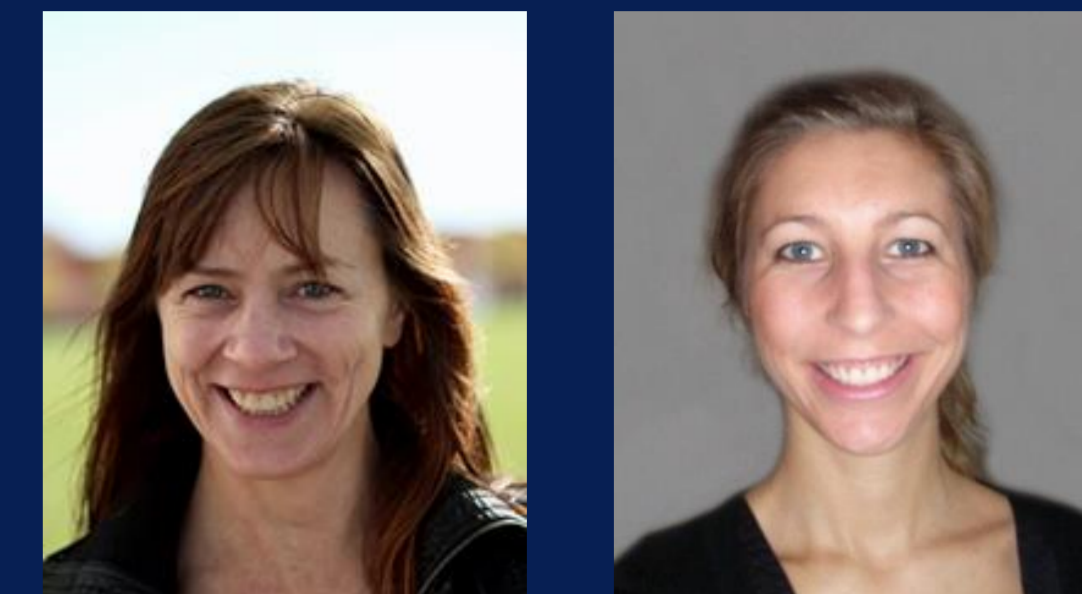


BioSecure - a web-based biosecurity evaluation system for dairy farms

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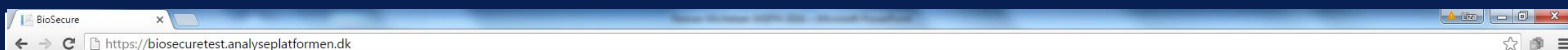


BACKGROUND

There is an increasing demand for improved **prevention** of infectious diseases and **research** on resilience of cattle farms
We need a tool for easy collection of detailed and appropriate information on farm-specific biosecurity measures

OBJECTIVES OF THE BIOSECURE PROJECT

1. To develop an online information collection system which provides feedback regarding on-farm biosecurity to farmers while collecting detailed data for research purposes
2. To identify management practices and farm environment info relevant to evaluate biosecurity in dairy herds
3. To evaluate how collected data and patterns in data are associated with on-farm health and production parameters (e.g. mortality, disease incidence and persistence incl. salmonella, paraTB, mastitis, cow longevity, milk yield)



AN ONLINE PLATFORM

Development

During 2016 questionnaire questions will be incorporated and tested on farmers, vets, biosecurity experts, before being used on a large number of farms

Questionnaire selection

Calving facilities, young stock, animal movements, milking etc. Farmer will be asked about various on-farm biosecurity practices and perceptions for analysis

Questionnaire design

Multiple choice ± pictures, sliders ± pictures, conditional branching, combined questions with scaled answers to provide maximum variation in the collected data, perception questions e.g. regarding hygiene



Login

Login to the platform will be the same login Danish farmers use to monitor their herd data, and it will be linked to their data from the Danish Cattle Database

Are you testing colostrum quality?

- Yes, with refractometer (branching leading to question XX)
- Yes, with colostrometer (branching leading to question YY)
- Yes, visually (branching leading to question YY)
- No (branching leading to question ZZ)

Which of these pictures best resembles the calving area in your farm when it is filled to maximum capacity?



1

2

3

How would you rate the hygiene of these calf pens?



Unacceptably dirty

Perfectly clean

COLLECTION OF DATA & DISSEMINATION OF KNOWLEDGE

- We are working with the cattle industry and veterinarians to develop and promote the platform
- We can link the farmers' answers to health parameters in the Danish Cattle Database and use them for research
- BioSecure will be divided into topics / areas each covered by one questionnaire, reports will be made available to each user
- The platform can be used in teaching of future farmers, vets and cattle consultants