

# Risk-based biosecurity advice

“Which biosecurity measure(s) will be most effective on my farm?”

The objective of our research is to develop a tool to guide farmers and veterinarians in the implementation of biosecurity measures, by evaluating the effectiveness of a set of measures on a particular farm.

As part of the BIOSECURE project, we are developing a model to calculate the probability of certain pathogens entering a farm, using on-farm surveys and data from scientific studies.

## How does it work?

First the farmer or veterinarian completes a questionnaire about the farm characteristics, management and animal movements. Then a model is used to calculate the current risk of certain diseases entering the farm. Finally, the model is used to simulate what would happen on that farm if new biosecurity measures were implemented, so they can compare measures and decide how to improve the farm biosecurity.

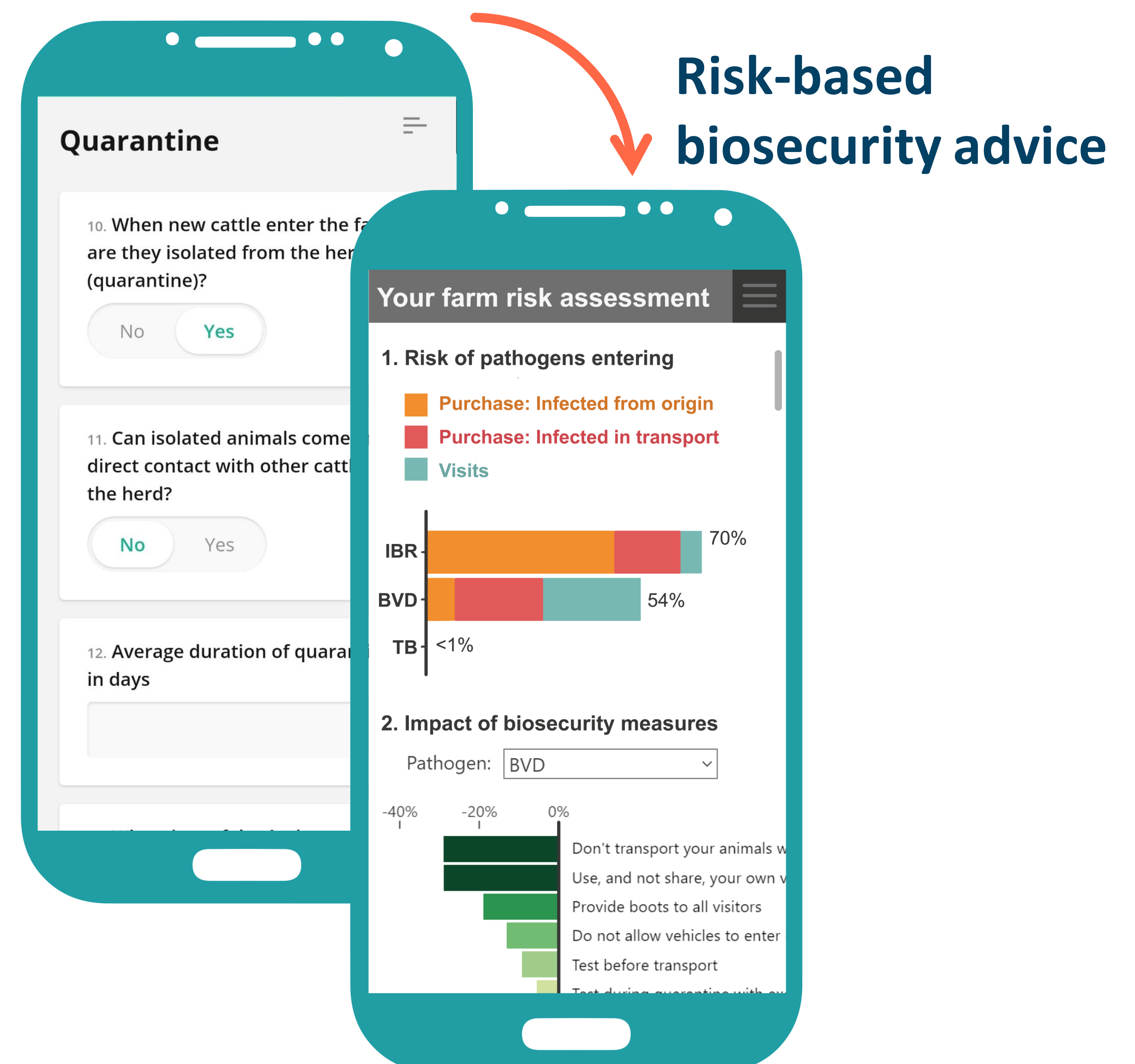
The model assesses the probability of **pathogen entering a farm** via:

- Animal purchases
- Pasture movements
- Wildlife
- Vehicles
- Visitors to the farm
- Neighbouring farms

And it **calculates the impact of measures** such as:

- Carrying out diagnostic tests
- Not transporting animals with animals from other farms
- Cleaning and disinfecting vehicles and boots
- Quarantining new animals
- Providing boots for all visitors

## Farm data + scientific evidence



## Which measures to implement on my farm?

To choose the most effective biosecurity measures for a particular farm, it is crucial to evaluate the most probable routes of pathogen entry.

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

Want to know more? Visit the project webpage or contact the UAB team at [pr.epidemiologia.veterinaria@uab.cat](mailto:pr.epidemiologia.veterinaria@uab.cat)