

Performing a biosecurity risk assessment on your farm

Objective: to support decision making on how to improve biosecurity on the farm

What kind of data do you need for the analysis?

To use the biosecurity risk assessment tool, you will need to collect the following data:

- **Biosecurity practices on the farm:** Includes practices when moving animals, when vehicles or visitors come to the farm and practices to prevent contact with neighbouring farms and wildlife animals. Initial completion takes 15-20 minutes.
- **Animal movements:** For an accurate risk assessment of your farm, you will need to enter the data for each movement separately. This includes the number of animals, origin, health status and any tests performed. It takes about 2 minutes per movement.

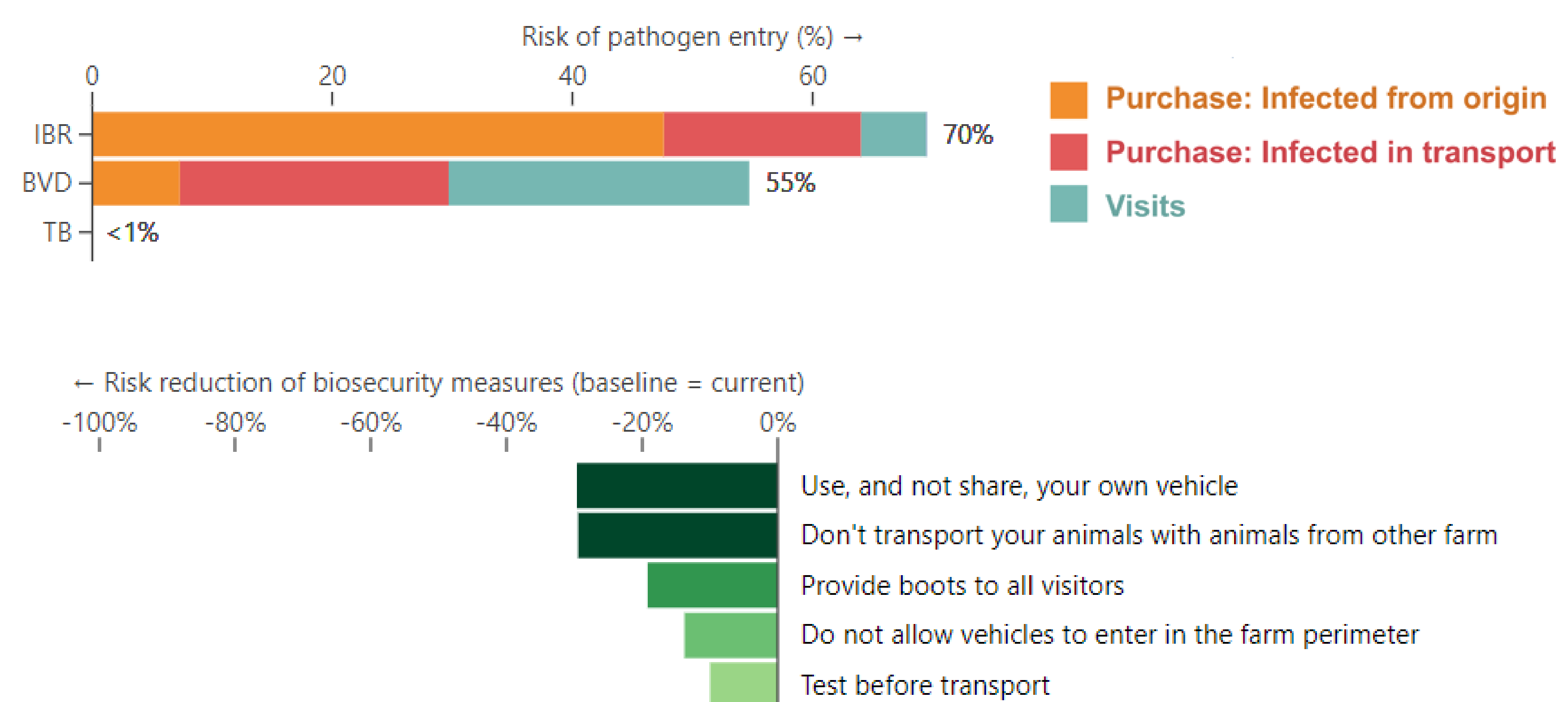
How will be the risk for your farm calculated?

As an example, the risk of introduction of BVDV through the purchase of animals is assessed based on the health status of the farm of origin (or the regional prevalence if this is unknown) and whether diagnostic tests are performed in origin. The likelihood of infection during transport (through contact with animals from other farms or vehicle contamination) is also considered. Once your farm's BVDV risk has been calculated, you can quantify the impact of new biosecurity measures, such as quarantine and testing on arrival, that could reduce it.

How to interpret the results?

The first graph shows the total risk of entry for each pathogen and the contribution of each route.

The second graph shows how the risk is reduced by implementing new biosecurity measures. For example, a measure with a 50% risk reduction means that if you currently have a 40% risk of BVDV entering the farm, after implementing this measure the probability will be 20%.



The more detailed and accurate the farm data provided for the risk assessment, the more useful and realistic the results will be.

www.biosecure.eu

Want to know more? Visit the project webpage or contact the UAB team at pr.epidemiologia.veterinaria@uab.cat