

# BVD eradication in Europe- current situation

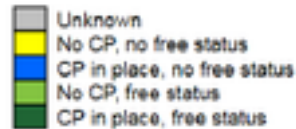
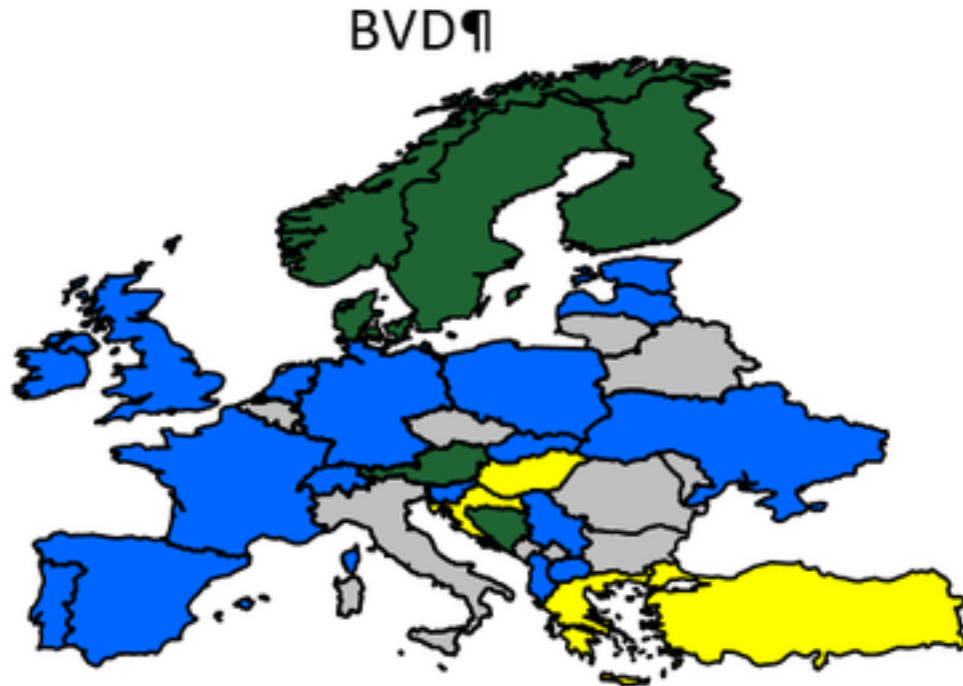
David Graham  
CEO, Animal Health Ireland



FESASS Technical Day  
Elvas | 25<sup>th</sup> October 2019



# BVD eradication in Europe



SOUND-CONTROL: WG1, Deliverable 1.1

Overview of non-regulated cattle diseases in the European Union for which control programmes (CPs) are in place within Member States (MS).

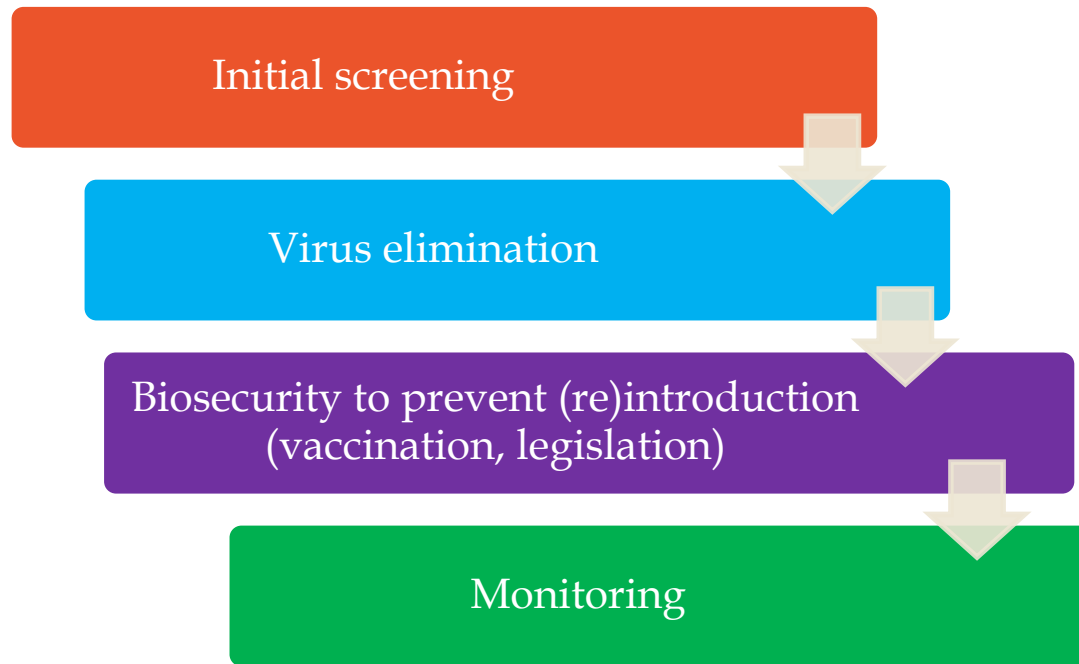
(This is an active document that will be updated on a regular basis)

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# Components of systematic control



# Europe- testing strategy



Scandinavian model



Swiss model

# Programme variables

## Context

- Aims (control or eradication)
- Current prevalence
- Compulsory or voluntary
- National or regional
- Herd types included
- % participation
- Testing strategy
- Time to detection/removal
- Restrictions on movement
- Cattle demographics
- Importation
- Biosecurity

## Enrolment

- Initial screening for herd freedom
- Follow up
- Trade- testing of purchased, imported

## Surveillance

- Definition of freedom
- Test protocol
- Birth to test interval
- Test sensitivity
- Follow up of pos
- Re-establishing freedom
- Trade- testing of purchased, imported

# Europe- programme administration



# Establishment Free from BVD Summary

No confirmed case of BVD last 18m



All animals tested for virus, including all calves in previous last 12 months

At least 3 serological screening tests >4m :  
50% seroprev with 95% confidence

Combination of the two  
Capacity of combined regime  $\geq$  each component

NEGATIVE

AND:

Introduced animals from:

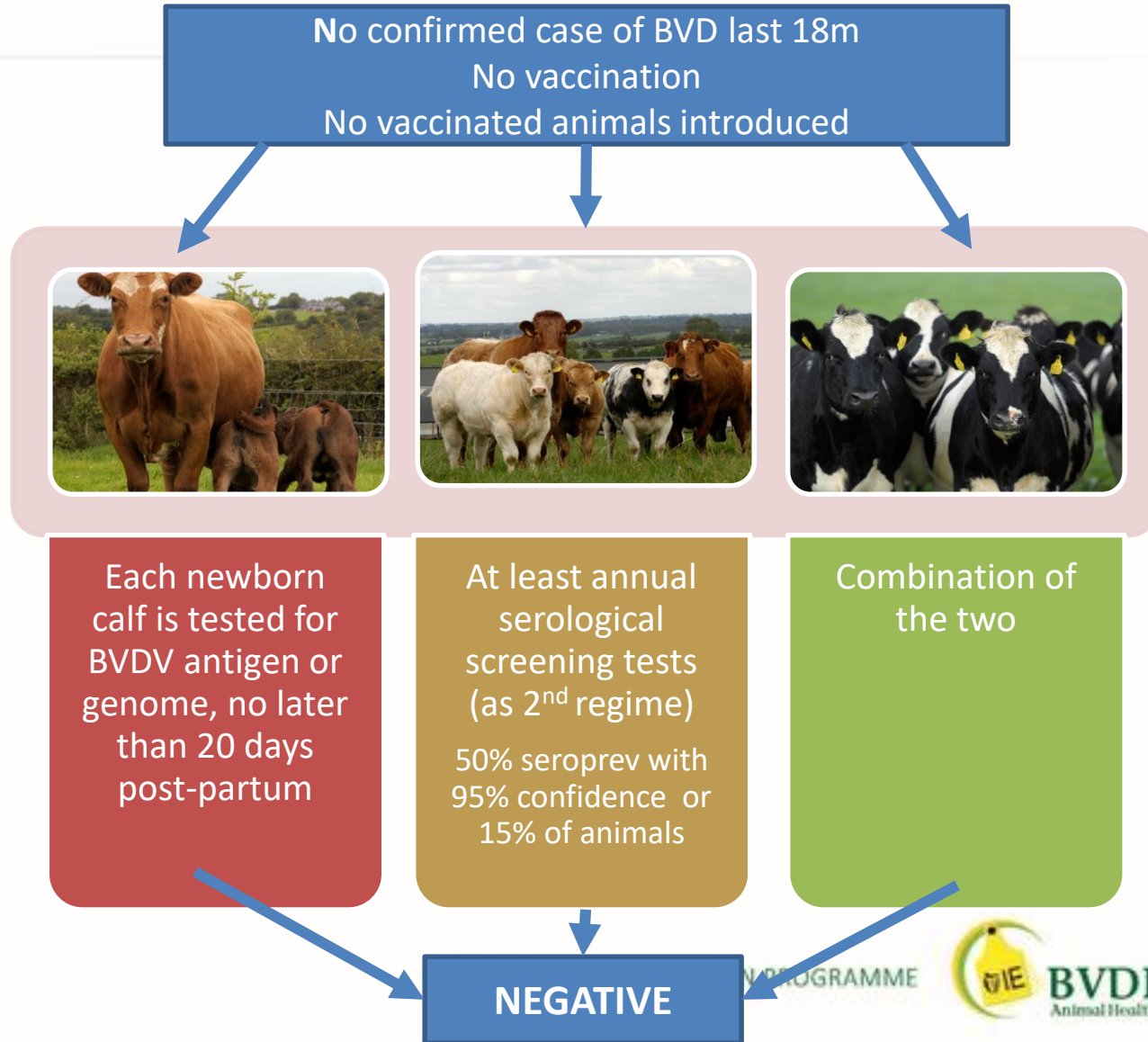
- Free establishment in Free Member/zone OR
- Free establishment where testing regime applied OR
- tested negative for BVDV antigen or genome, quarantined 21 days, prior to dispatch AND seroneg if pregnant or seropos pre-service

Germinal products from free establishments or comply with AH requirements

NATIONAL BVD ERADICATION PROGRAMME



# Maintenance of the Status- Testing





# Chapter 2: Member State of zone free from BVD- Section 1 Granting of Status

A Member State or zone may only be granted the status free from BVD in the bovine population if:

- (a) vaccination against BVD is prohibited for kept bovine animals;
- (b) no case of BVD has been confirmed in a kept bovine animal for at least the previous 18 months
- (c) at least 99.8% of the establishments representing at least 99.9% of the bovine population are free from BVD;

# Section 2 Maintenance of Status

1. A Member State or zone may only maintain the status free from BVD in the bovine population if:
  - (a) the requirements laid down in point (a) and (c) of Section 1 continue to be fulfilled.
  - (b) surveillance is carried out annually to detect establishments infected with BVDV at a prevalence rate exceeding 0.2% with a 95% level of confidence or BVDV infected bovine animals with a prevalence rate exceeding 0.1% of the bovine population with a 95% level of confidence.



# Aim of the project

Develop and validate a new tool:

## STOC free

that enables a **transparent and standardized comparison of confidence of freedom** for control and eradication programmes.





# Development



## Answering the question

When trading an animal: does it pose a risk of introducing a disease into the destination herd ?

**p(freedom | information)**

- What is the probability and uncertainty that an animal is free of disease when leaving the farm given available information ?



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# Outcome: framework



**A framework consisting of a model (STOC free MODEL) combined with a tool to facilitate the collection of the necessary parameters (STOC free DATA).**

- Easy to use by stakeholders
- Heterogeneous inputs, uniform output
- Output on different levels of aggregation
- Adaptable to multiple diseases in multiple species



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# Vision STOC free

