

# You get what you pay for

## Trade-off decisions in Irish BVD surveillance



Contact:  
jbrock@animalhealthireland.ie

Maria Guelbenzu-Gonzalo<sup>1</sup>, Hans-Hermann Thulke<sup>2</sup>, David Graham<sup>1</sup>, Liz Lane<sup>3</sup>,  
Martin Lange<sup>2</sup>, Damien Barrett<sup>3</sup>, Jonas Brock<sup>1,2</sup>

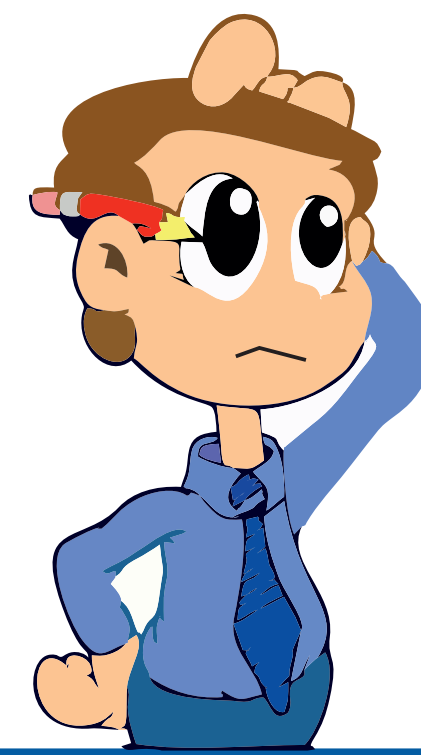
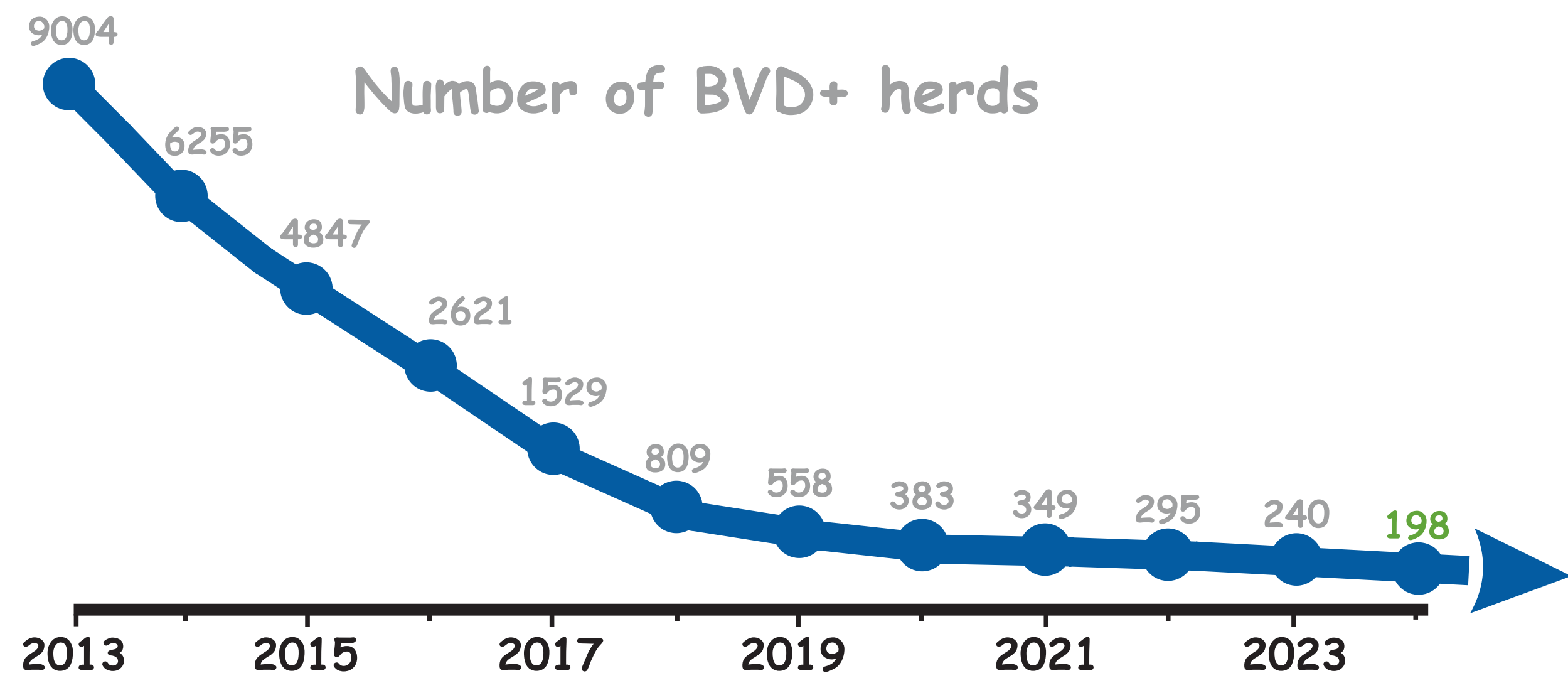
<sup>1</sup> Animal Health Ireland, Carrick-on-Shannon, Co. Leitrim, Ireland

<sup>2</sup> Helmholtz Centre for Environmental Research GmbH - UFZ, Dept Ecological Modelling, PG Ecological Epidemiology, Leipzig, Germany

<sup>3</sup> Department of Agriculture, Food and the Marine, Ruminant Animal Health Division, Backweston, Ireland

### BVD eradication in Ireland

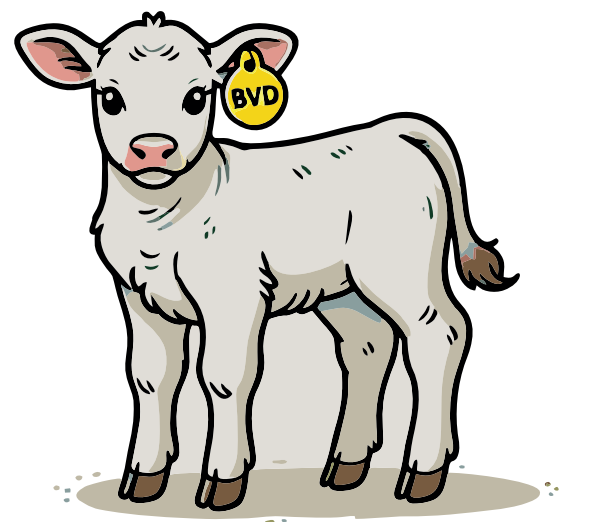
In Ireland, a mandatory BVD eradication programme is nearing completion.



Tag testing was effective for eradication!

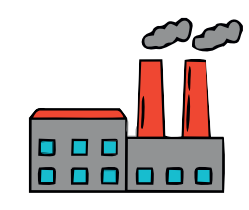
How much can be saved, when we replace it for surveillance?

Tag testing  
(€2.50 per sampling & test)



### Materials & Methods

Alternative BVD surveillance options:



Abattoir testing (€4.50 per sampling & test)



Bulk tank milk testing (€5.50 per sampling & test)

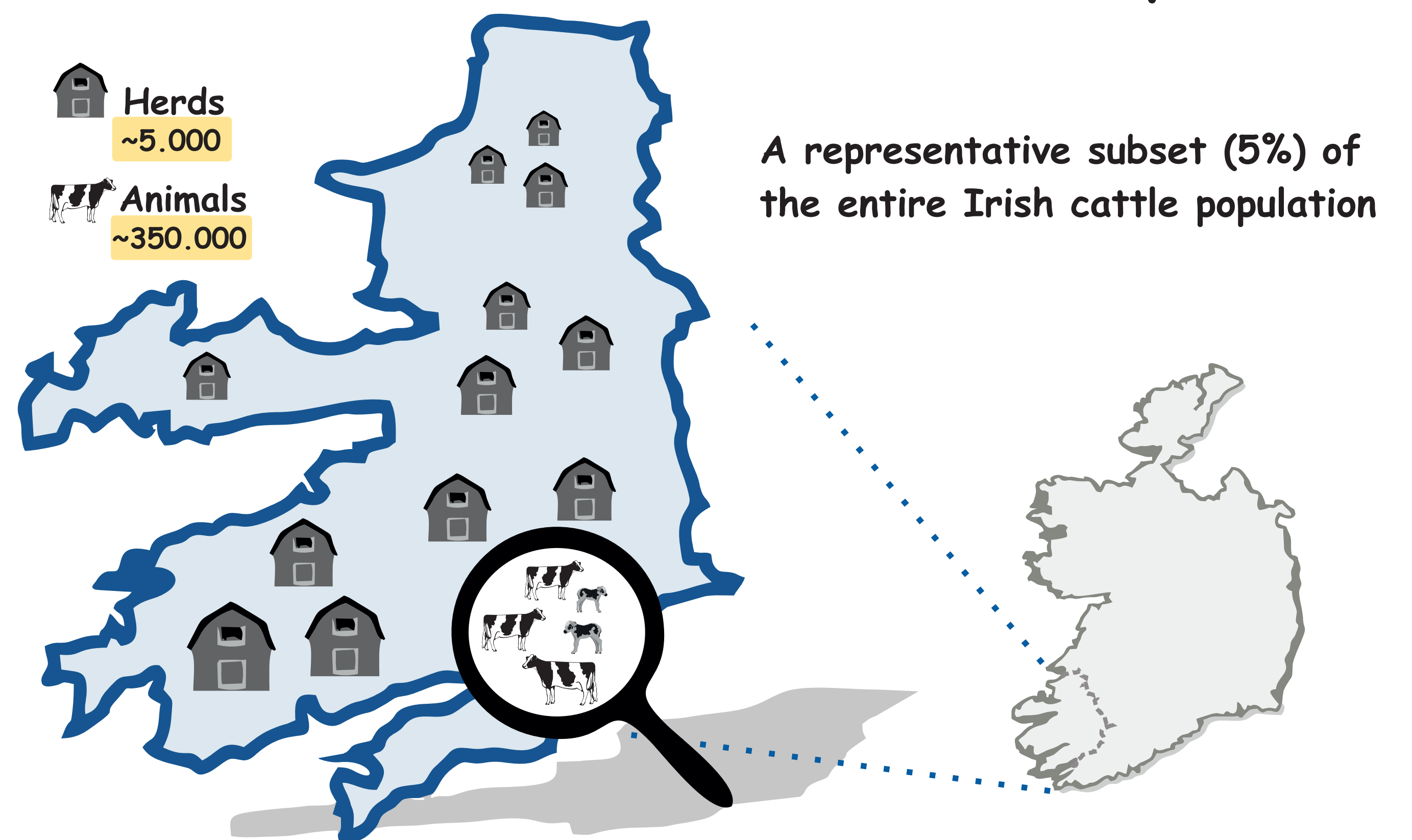


Serological youngstock testing (€4.50 per sampling & test)

Combined strategy

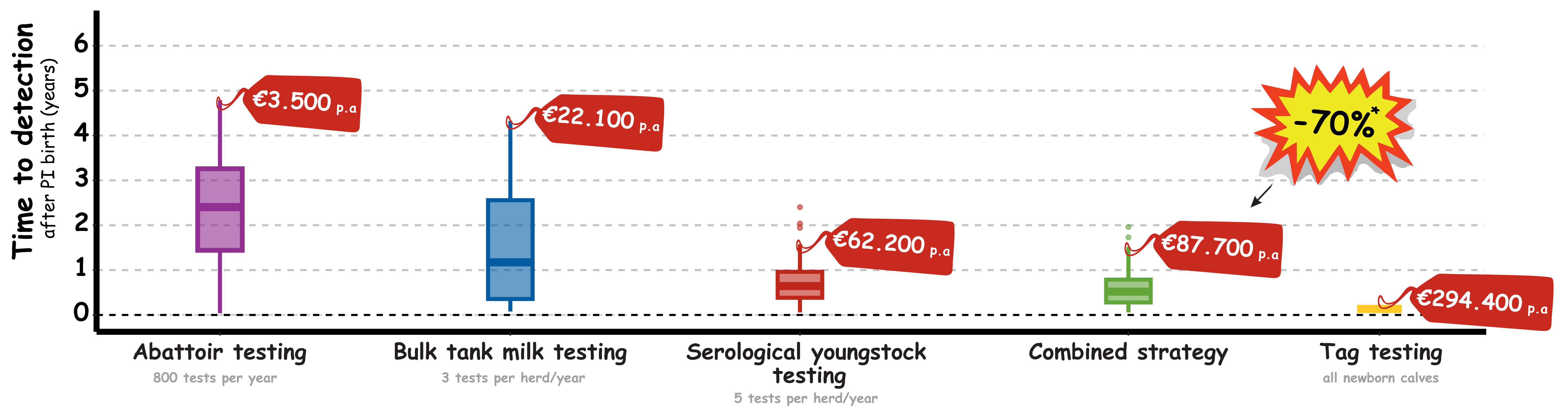
We have simulated BVD outbreaks & surveillance

The Irish BVD simulation model (Co. Kerry)

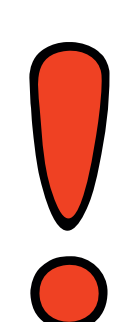


### Simulated time to detection & costs

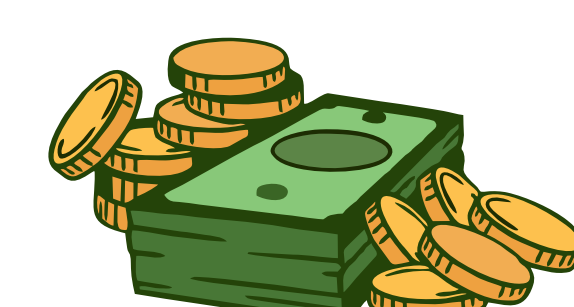
\* compared to tag testing



### Conclusion



All options are able to detect BVD outbreaks.  
Faster detection requires greater investment



vs.

