

The Mystery of BVD Eradication

Ireland's Persistent Tail of Infection



Contact:
jbrock@animalhealthireland.ie

Jonas Brock^{1,2}, Martin Lange², Maria Guelbenzu-Gonzalo¹, Liz Lane⁴, Jamie Tratalos³,
Damien Barrett⁴, Simon More³, David Graham¹, Hans-Hermann Thulke²

¹ Animal Health Ireland, Carrick-on-Shannon, Co. Leitrim, Ireland

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

³ Centre for Veterinary Epidemiology and Risk Analysis, UCD School of Veterinary Medicine, University College Dublin, Dublin, Ireland

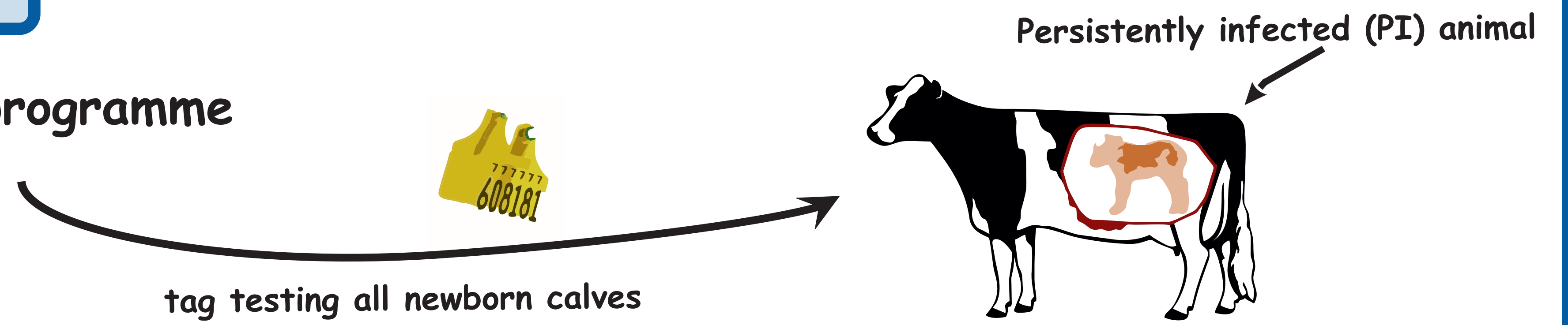
⁴ Department of Agriculture, Food and the Marine, Ruminant Animal Health Division, Backweston, Ireland



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

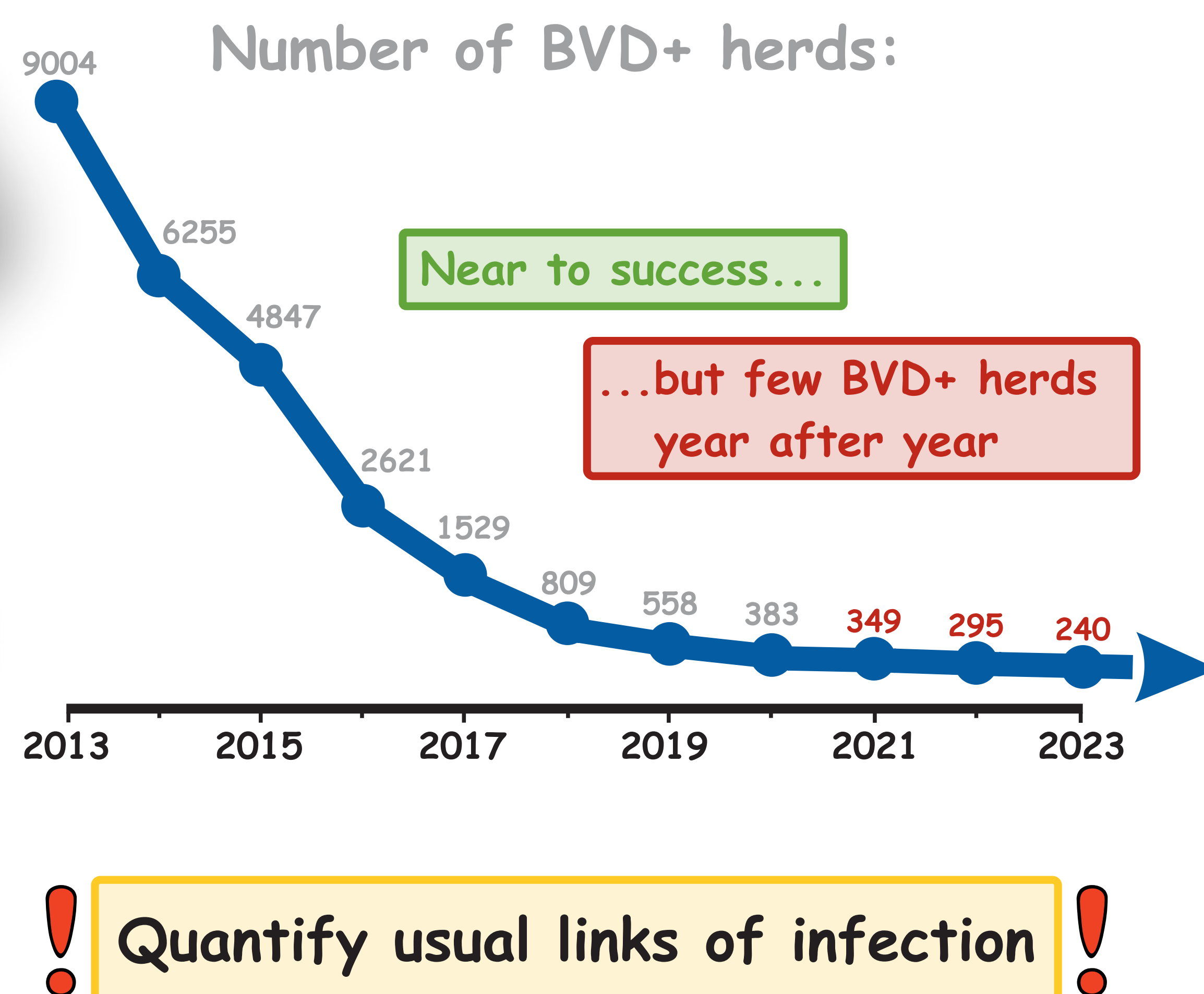
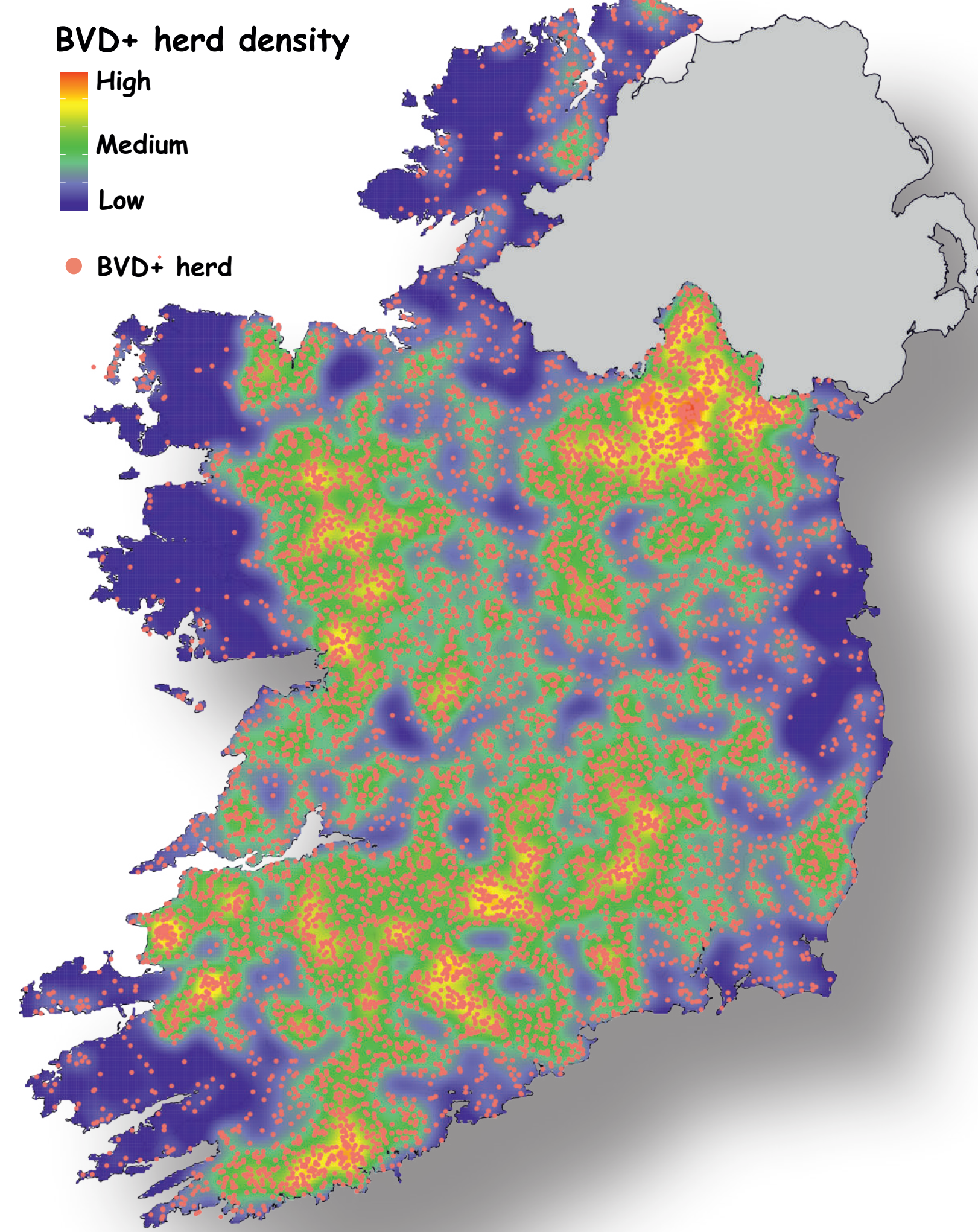
BVD eradication in Ireland

In Ireland, a mandatory BVD eradication programme is in place since 2013.

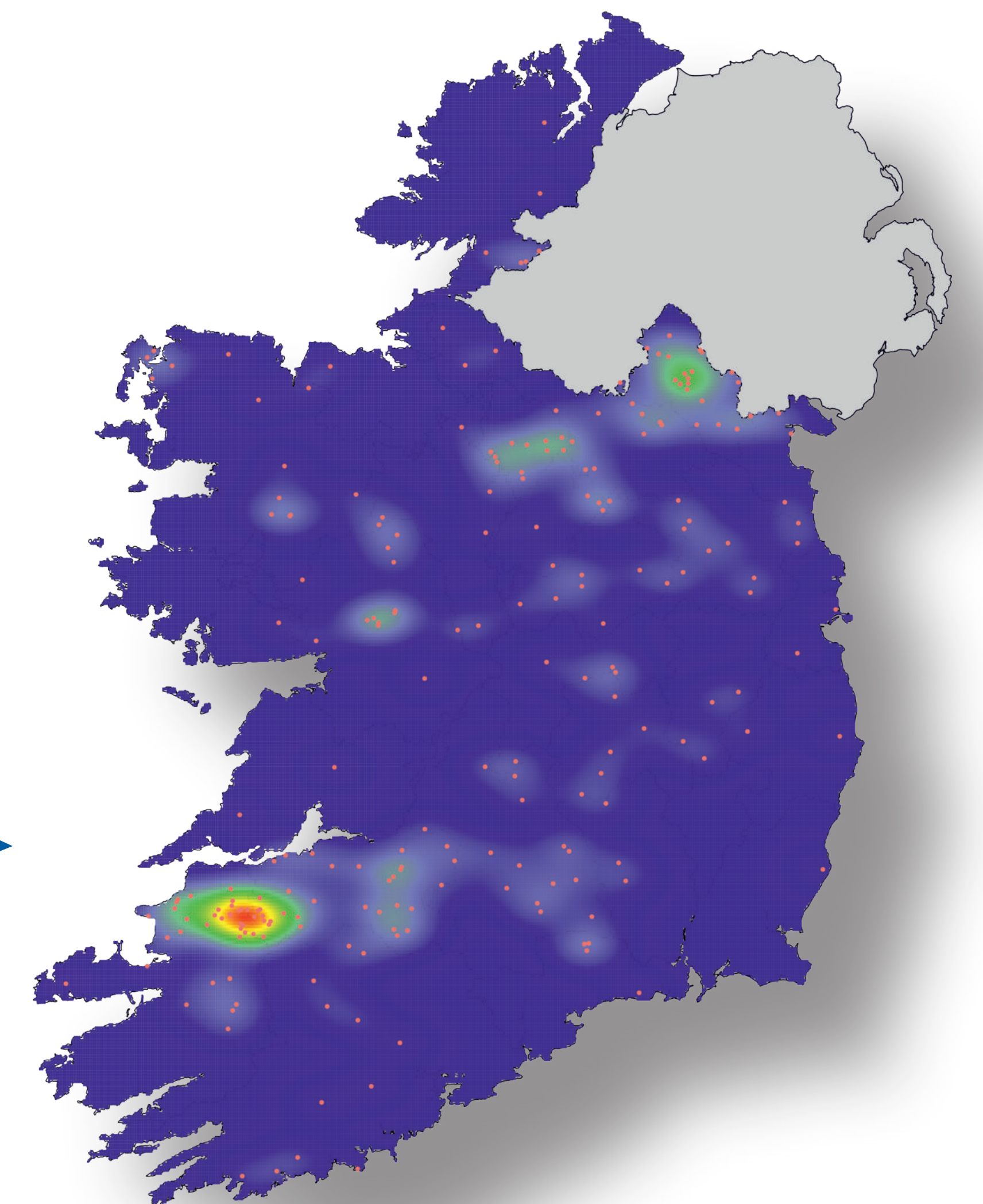


Success of the programme

Programme start: 2013

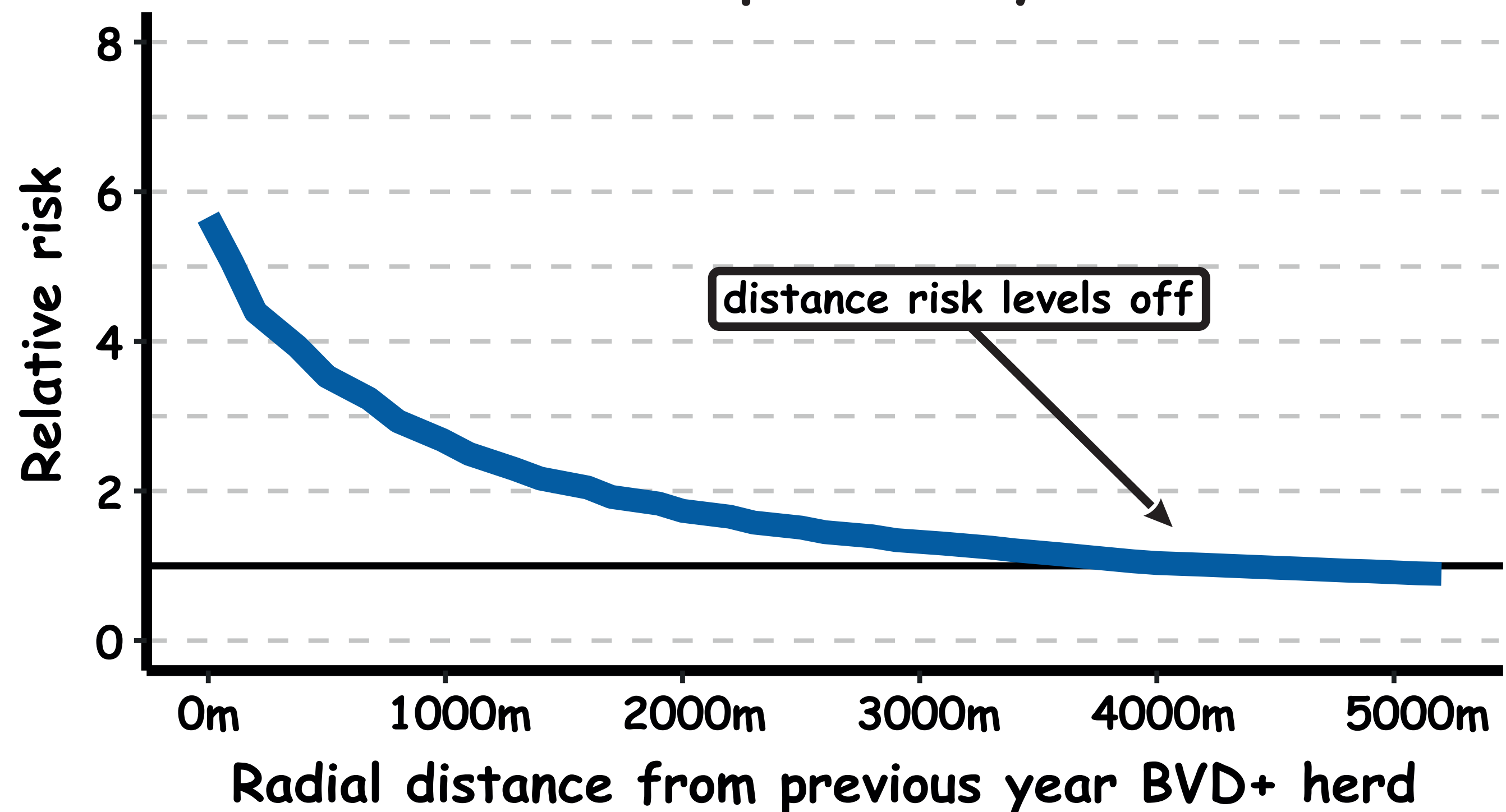


2023



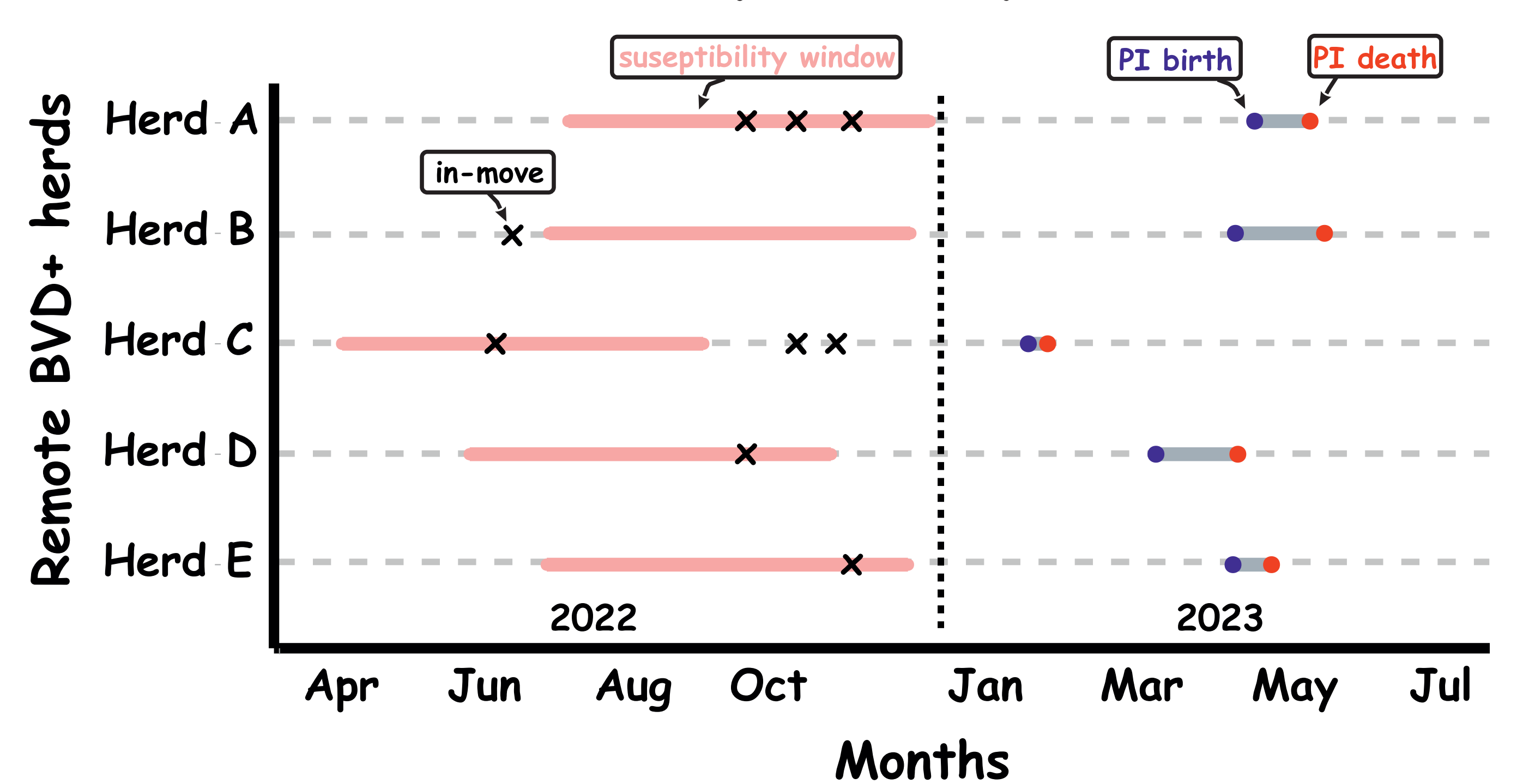
Reason 1: Distance to other BVD+ herd

Distance risk from previous year's BVD+ herd



Reason 2: High-risk in-moves

In-moves from previous year BVD+ herds



The BVD mystery

~30% of BVD+ herds cannot be explained by usual links of infection

| | 2021 | 2022 | 2023 |
|-------------|-----------|-----------|-----------|
| BVD+ herds | 349 | 295 | 240 |
| Reason 1 | 221 (63%) | 174 (59%) | 129 (54%) |
| Reason 2 | 45 (13%) | 31 (10%) | 38 (16%) |
| Unexplained | 83 (24%) | 90 (31%) | 73 (30%) |