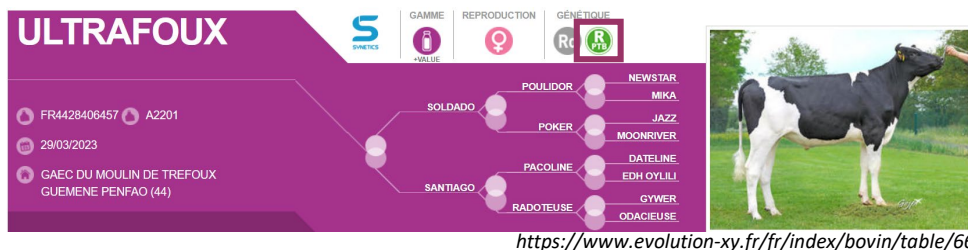
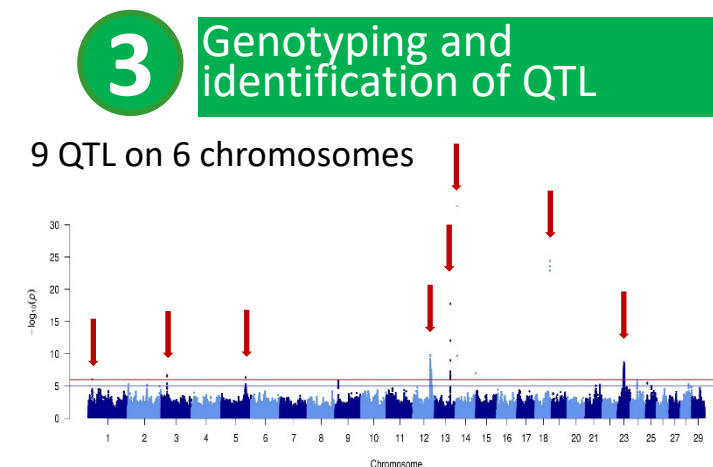
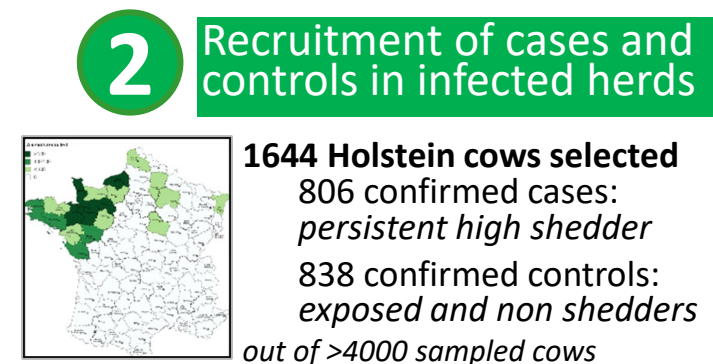
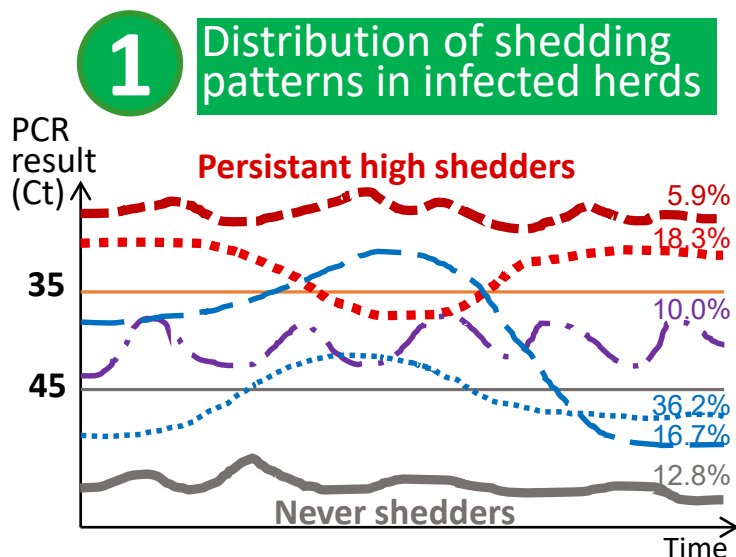


Animal genomics can improve control of bovine paratuberculosis

Christine Fourichon¹, Marie-Pierre Sanchez², Arnaud Delafosse³, Didier Boichard², Raphaël Guatteo¹



Thanks to genotyping, farmers can now select paratuberculosis-resistant cattle (Holstein and Normande breeds)



4 Extension and single-step genomic evaluation



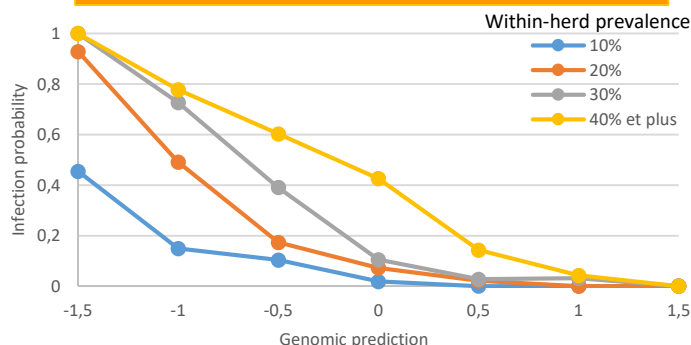
SNPs added to BeadChip for bovine genotyping

Single-step genomic evaluation in 161'253 cattle (12'431 genotyped)

→ **Genomic index**
estimated breeding value

5 Estimation of the risk of infection

Probability of infection of a cow according to genomic prediction and within-herd prevalence



6 Distribution of genomic index values in bulls

Number of bulls / breeding value

