

**On Farm Considerations** 

**Processor Considerations** 

**Dairy Industry Strategy** 

One Health approach

**Emerging Risk Assessment** 

#### Human

## **On Farm Impacts**

#### Animal

Human welfare

Stress over calving

Workforce illness



AMR
Outbreak
antimicrobials

Zoonotic occupational risk vets, farm visitors







Enteric outbreaks
400 cow dairy farm
10% morbidity
2% mortality
~\$34K
(range)

Brandenburg (abortive)

> cost
Loss of replacement &
first calving heifers

Milk production impacts

Calf outbreaks - higher morbidity/mortality

## **Compounding Factors**

Salmonella COVID-19 Health & Safety Mycoplasma Bovis GHGs Biosecurity Levy Waterways Winter grazing Biosecurity ASDs NAIT Animal Welfare SUSTAINABLE LAND USE Budgeting TB Zero Carbon Planning Commodity Levy IPCC Leptospirosis DEBT Staff retention FEED Drought Regulation/legislation change **Biosecurity Act Overhaul** Maintenance **BVD Succession Planning** Nutrient Management MINDA Milk grades Pasture Management Genetics CLIMATE CHANGE Supply agreements Adverse event



Integrated Farm Systems & Support



## **Dairy Tomorrow Strategy**























Culture



Boundaries



**A**nimals



Plant Health



People & Equipment



## **Looking Forward - Emerging risk assessment**

Other exotic risks

Salmonella?

Lepto?

Q Fever?

Pastoral pests?

Risk pathways?

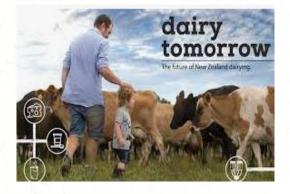




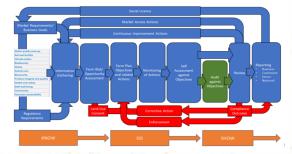




**Muellner P**, Hodges D, **Ahlstrom C**, Newman M, Davidson R, Pfeiffer D, Marshall J, Morley C. Creating a framework for the prioritization of biosecurity risks to the New Zealand dairy industry. *Transboundary and Emerging Diseases*, doi: 10.1111/tbed.12848, 2018.



#### Integrated Farm Plan





# Protect your farm and your family from Salmonella



#### One Health







