

# Global Vision, Leadership and Innovation

A programme delivered by:



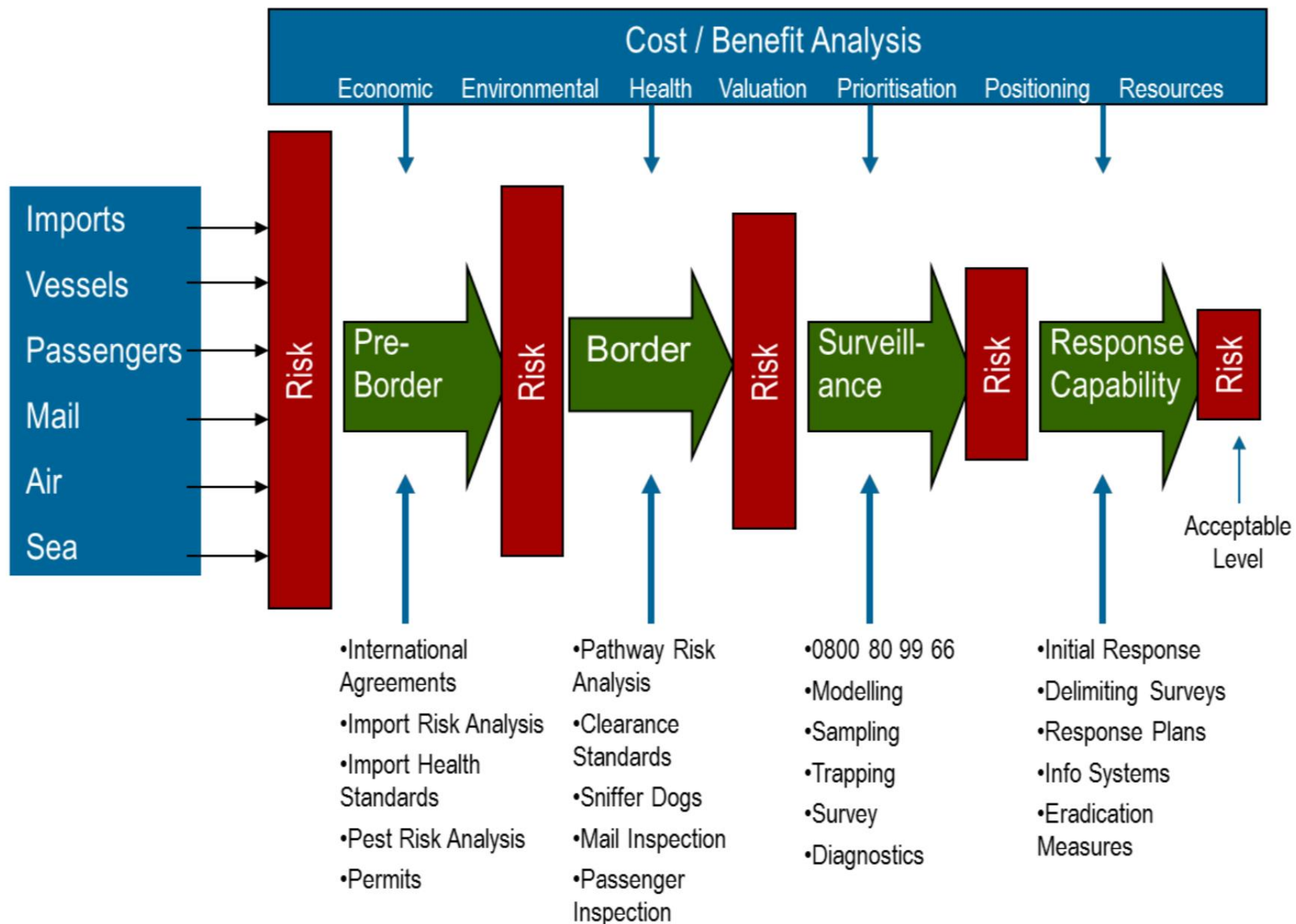
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# Biosecurity

## The Importance of the Farm Gate



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# Individual study topic - biosecurity

- 2010 Psa found in NZ kiwifruit



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# Individual study topic - biosecurity

- USA
  - Citrus Greening
  - Brown Marmorated Stink Bug
  - Spotted Lanternfly
- Chile
  - Brown Marmorated Stink Bug
- Australia
  - TR4 Banana Panama



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# On farm biosecurity

- Citrus Greening Florida



# On farm biosecurity

- Chile



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# On farm biosecurity

- Banana Panama





# On farm biosecurity

- Banana Panama



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**QUARANTINE AREA**  
**DO NOT ENTER**

Panama disease tropical race 4  
infested area.

PLEASE CALL:

**07 4068 0702**



# On farm biosecurity

- *Mycoplasma Bovis*



## MYCOPLASMA BOVIS – what to look out for

*Mycoplasma bovis* is an unwanted organism in NZ. It is important for all farmers to contact their veterinarian and/or MPI if they see the following unusual signs in their herd.

**Adult cows**

- Lame cows with swollen legs/joints**
  - Painful and hot
- Abortions**
  - Slips, early calves, small calves
- Mastitis**
  - Swollen rubbery quarters, involves multiple quarters
  - Not painful or hot
  - Non responsive to treatment
  - Affected quarters will rapidly dry off
  - Cow is not sick

**Calves / young stock**

- Lame calves with swollen legs/joints**
  - Painful and hot
- Fading calves**
  - Inflammation of the joints, and sometimes the brain
- Ear infections**
  - Droopy ear
  - Ear discharge
  - Head tilt
- Pneumonia**
  - Hacking cough
- Conjunctivitis**
  - Sticky eyes, white eyes

**Key messages**

**What is it**

- Bacterial infection of cattle.
- No food safety risk.
- Very low risk to human health.

**Why is it important**

- Production limiting disease.
- Hard to treat, causes unresponsive mastitis.
- Hard to test for.

**What you need to be aware of**

- Spread mainly by close contact between animals and feeding milk from infected cows to calves.
- Incoming stock and nose-to-nose contact over boundaries are the biggest risk of bringing the disease onto your farm.
- Equipment used on animals must be cleaned thoroughly between farms.
- Don't wait if you have animals with suspicious signs, early intervention from a veterinarian is important.
- In some cases calves can be infected and show no signs of disease.

**Call your veterinarian as soon as possible if:**

- These signs appear at higher than normal rates.
- Several animals show the above signs.
- Individual animals show several of the above signs.
- Animals don't respond to normal treatments.
- These signs are present in different classes of stock at the same time e.g. mastitis in cows and arthritis in calves.

Veterinarian's phone number \_\_\_\_\_  
MPI disease reporting 0800 80 99 66



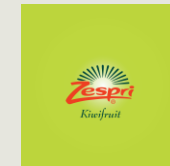
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