

## Concept

means

an animal subpopulation
contained in one or more establishments
under a common biosecurity management system

with a distinct health status with respect to a specific disease or specific diseases:

required surveillance control and biosecurity measures purpose of international trade.

### Terrestrial Animal Health Code (OIE)

# CHAPTER 4.3. ZONING AND COMPARTMENTALISATION

Article 4.3.1.

#### Introduction

For the purposes of the Terrestrial Code, 'zoning' and 'regionalisation' have the same meaning.

Establishing and maintaining a disease free-status throughout the country should be the final goal for OIE Members. However, given the difficulty of establishing and maintaining a disease free status for an entire territory, especially for diseases the entry of which is difficult to control through measures at national boundaries, there may be benefits to a Member in establishing and maintaining a subpopulation with a distinct health status within its territory. Subpopulations may be separated by natural or artificial geographical barriers or, in certain situations, by the application of appropriate management practices.

Zoning and compartmentalisation are procedures implemented by a Member under the provisions of this chapter with a view to defining subpopulations of distinct health status within its territory for the purpose of disease control and/or international trade. While zoning applies to an animal subpopulation defined primarily on a geographical basis (using natural, artificial or legal boundaries), compartmentalisation applies to an animal subpopulation defined primarily by management and husbandry practices related to biosecurity. In practice, spatial considerations and good management including biosecurity plans play important roles in the application of both concepts.

#### Terrestrial Animal Health Code (OIE)

# CHAPTER 4.4. Application of Compartmentalisation

Article 4.4.1.

#### Introduction and objectives

The recommendations in this chapter provide a structured framework for the application and recognition of <u>compartments</u> within countries or <u>cones</u>, based on Chapter <u>4.3</u>, with the objective to facilitate trade in <u>animals</u> and products of animal origin and as a tool for <u>disease</u> management.

Establishing and maintaining a <u>disease</u> free status throughout the country should be the final goal for Member Countries. However, establishing and maintaining a <u>disease</u> free status for an entire country may be difficult, especially in the case of <u>diseases</u> that can easily cross international boundaries. For many <u>diseases</u>. Member Countries have traditionally applied the concept of zoning to establish and maintain an animal <u>subpopulation</u> with a different animal health status within national boundaries.

The essential difference between zoning and compartmentalisation is that the recognition of zones is based on geographical boundaries whereas the recognition of compartments is based on management practices and biosecurity. However, spatial considerations and good management practices play a role in the application of both concepts.

Compartmentalisation is not a new concept for <u>Veterinary Services</u>; in fact, it has been applied for a long time in many <u>disease</u> control programmes that are based on the concept of <u>disease</u> free <u>herds/flocks</u>.

The fundamental requirement for compartmentalisation is the implementation and documentation of management and biosecurity measures to create a functional separation of subpopulations.

For example, an animal production operation in an infected country or zone might have biosecurity measures and management practices that result in negligible risk from diseases or agents. The concept of a compartment extends the application of a 'risk boundary' beyond that of a geographical interface and considers all epidemiological factors that can help to create an effective disease-specific separation between subpopulations.

In <u>disease</u> free countries or <u>zones</u>, <u>compartments</u> preferably should be defined prior to the occurrence of a <u>disease outbreak</u>. In the event of an <u>outbreak</u> or in infected countries or <u>zones</u>, compartmentalisation may be used to facilitate trade.

For the purpose of international trade, compartments should be under the responsibility of the Veterinary Authority in the country. For the purposes of this chapter, compliance by Member Countries with Chapters 1.1, and 3.1 is an essential prerequisite.

## Introduction

Office International des Epizootics (OIE) or World Organisation for Animal Health:

application of compartmentalisation .....

disease control program

farm management
sanitation and biosecurity measures
surveillance and disease control
enhance animal health + facilitate international trade

## Introduction

## oadvantages:

- has increased the role in international trade for animals and their products
- othe disease free status of compartment can still be maintained by stringent application of measures on:
  - Disease control
  - Biosecurity
  - Disease surveillance
  - Traceability)

- 1. Separation Of A Compartment From Potential Sources Of Infection
  - Physical or spatial factors that affect the status of biosecurity in a compartment
  - Infrastructure factors
  - Biosecurity plan
  - Traceability system





Close house system (biosecurity)

Farm infrastructure

Wheel-dip and vehicle spray (SPS)

## 2. Documentation

- oclear evidence showing the efficacy of biosecurity measures, surveillance, traceability and management operations which are under the supervision of the DVS
  - Animal Movement
  - ° Records Of Production, Including Birth And Death
  - Source Of Feed
  - Laboratory Test Results
  - Access Log

#### PRINCIPLE 2. cont.

- o Records of illness and treatment
- Vaccination records consist of vaccination programs, types
   of vaccine for a purpose of disease prevention under
   supervision of licensed veterinarian
- Use of animal drugs or hazard substances, under supervision of licensed veterinarian
- Biosecurity plans and operation records
- Personnel training records
- Other records related to disease control as specified by the DVS

#### 3. Surveillance for diseases

Plan: suitable for the level + risk (assessed and identified) and shall consist of:

- 3.1 Internal surveillance (1X/month)
  - (sample collected within a compartment of the farms):
    - o determine disease prevalence; OR
    - o perform initial disease diagnosis
- 3.2 External surveillance (4x/year)
  - (sample collected from the area outside a farm):
    - o ensure the effective outcome of biosecurity plan

## Surveillance is essential because:

- tells you where your ENEMY is located
- how it is behaving
- how effective are your measure
- how efficient are your measure against the ENEMY

# Say aaah..... (tracheal swabbing)





cloacal swabbing

4. Diagnosis Capabilities And Procedures

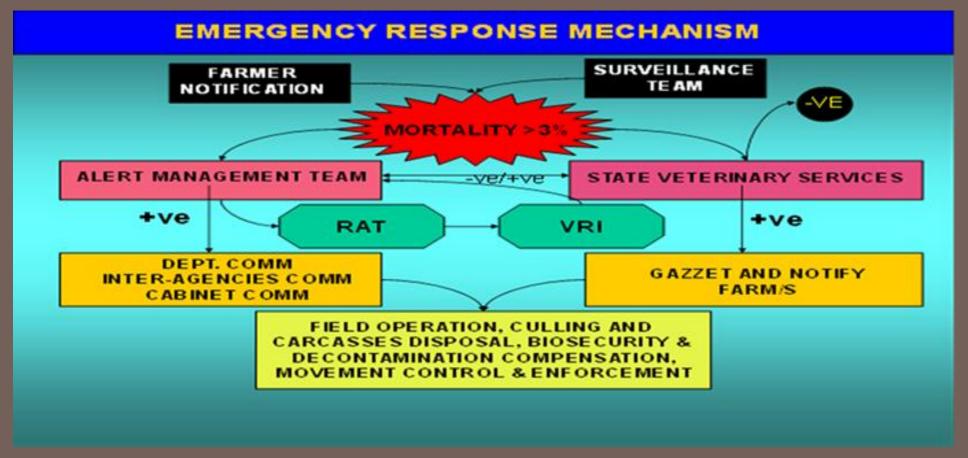
#### Diagnostic laboratory of the compartment:

- o laboratory of the DVS OR officially recognised by the DVS
- OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals related to animal disease diagnosis;
- o quality assurance system of the diagnostic test result;
- o rapid reporting system of the disease to the DVS's officer;
- If necessary, samples may be sent to OIE reference laboratory for re-confirmation.

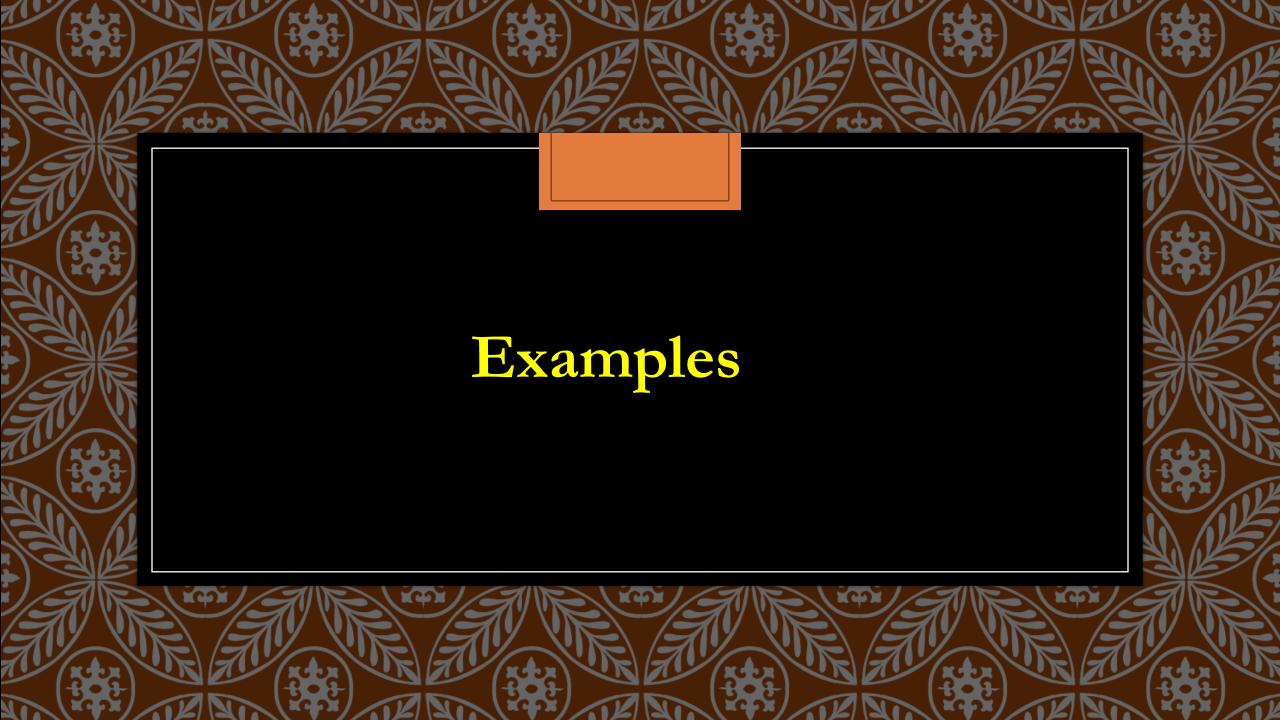
5. Emergency Response And Notification

...suspicious case or disease outbreak found

- o contingency plans for the compartment shall be followed
- o DVS shall be informed
- case is confirmed...DVS notify the trading partners.



Emergency response mechanism (DVS)





Example : Chicken farm, Pekan Nenas, Johor





# PROJEK TAMIANI KEKAL PENGELUARANI MIAKANANI (TIKIPMI) SEMENANJUNG MIALAYSIA

