

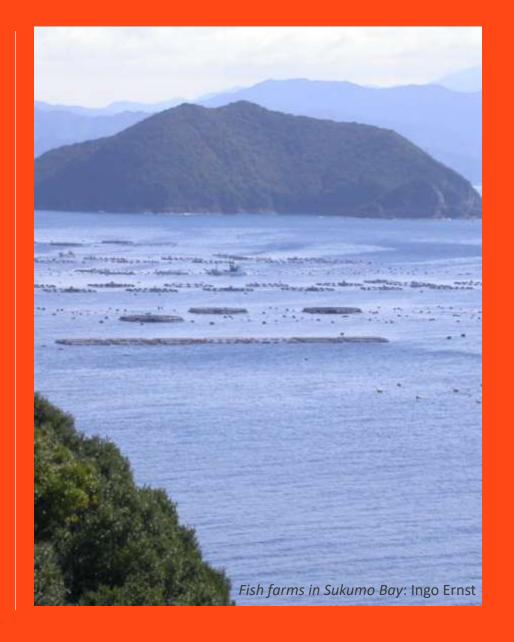


#### **Presentation overview**

- 1. Introduction
- 2. Methods
- 3. Results
- 4. Barriers to notification
- 5. Conclusions and recommendations



# 1. Introduction





## **Project objectives**

- Identify and analyse key barriers to disease notification for both terrestrial and aquatic animals, and
- Develop strategies and recommendations to overcome the identified barriers.



#### Why is this project needed?

- Notification of disease events is a fundamental obligation of WOAH Members since 1924. Reflected in Chapter 1.1. of Aquatic and Terrestrial Codes.
- The purpose (transparency of global animal disease situation) is a shared benefit among Members.

#### Article 5

The Governments shall forward to the Office:

- 1. By telegram, notification of the first cases of rinderpest or foot and mouth disease observed in a country or an area hitherto free from the infection.
- 2. At regular intervals, bulletins prepared according to a model adopted by the Committee, giving information on the presence and distribution of the following diseases:

#### BUT...

- In practice, obligations are not met consistently
- Notification practice does not align with its purpose and importance.



## Scope

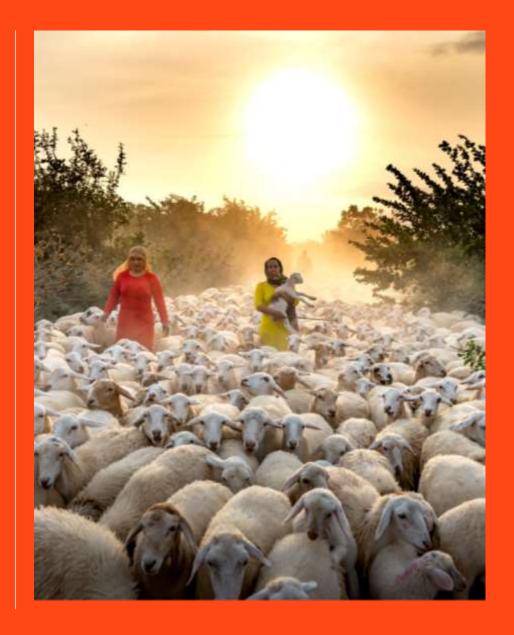
- 1. Immediate notifications for listed diseases (in accordance with article 1.1.3 of the Aquatic Code and Terrestrial Code)
- 2. Immediate notification for emerging diseases (in accordance with article 1.1.4 of the Aquatic Code and Terrestrial Code).

#### Out of scope:

- Semestral reporting
- Annual reports



# 2. Methods





## Methodology

- Online survey to explore the key elements of the notification process.
- 2. Focus group workshops to share preliminary survey results, validate findings, and explore root causes.



## Methodology – survey design

- Survey to measure factors influencing notification
- Behavioural approaches incorporated:
  - Theory of Planned Behaviour
  - Integrative Model of Organisational Trust
- Best practice survey design used
- Each measure was the average of at least 3 questions.

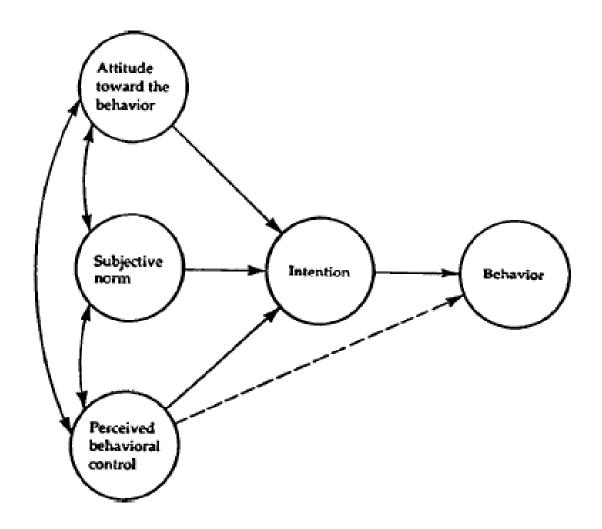


## **Theory of Planned Behaviour**

- Widely used framework to understand human actions in different contexts (e.g. education, health, biosecurity)
- Aims to explain how behaviour is influenced by:
  - attitudes toward a behaviour (i.e. whether the person has a favourable or unfavourable evaluation of the behaviour)
  - subjective norms (i.e. perceived social pressure to perform or not perform the behaviour),
  - perceived behavioural control (i.e. perceived ease or difficulty of performing the behaviour, reflecting past experience and anticipated impediments).



# **Theory of Planned Behaviour**



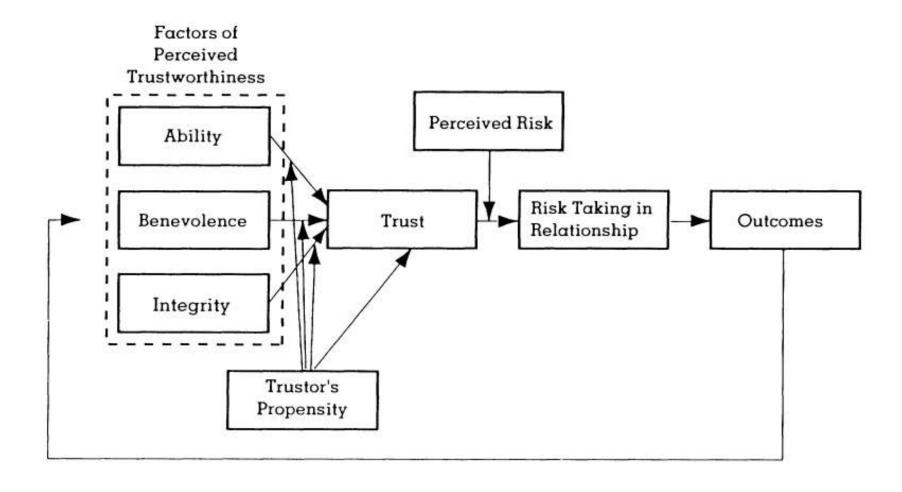


## Integrative model of organisational trust

- Theoretical framework for examining trust in organisations and applied to different disciplines (e.g., marketing, agribusiness, psychology, economics)
- Has been applied to producer reporting previously
- Risk and interdependence between parties is necessary
- For WOAH notification, the risk/interdependence is the possible application of trade measures following a WOAH notification.
- Trustworthiness, trust, and perceived risk are key measures.



## Integrative model of organizational trust





## **Survey measures**

- 1. **importance** of animal production and animal health
- 2. **organisational knowledge** with respect to notification
- 3. organisational capability with respect to notification

#### Theory of Planned Behaviour

- 4. **attitudes** to notification of animal disease events
- 5. **subjective norms** on notifying animal disease events
- 6. **perceived behavioural control** on notifying animal disease events



# Survey measures - 2

**Integrative Model of Organisational Trust** 

- 7. perceived risk and perceived benefit of notifying WOAH
- 8. **trustworthiness** of trading partners, comprised of integrity, benevolence and ability
- 9. **trust** in trading partners

#### Outcome variables

- 10. Past notification behaviour
- 11. Intention to make an immediate notification



## Focus group discussions

- Three focus group meetings
- Explored barriers to notification and root causes
- Identified actions to address barriers.



Source: AI



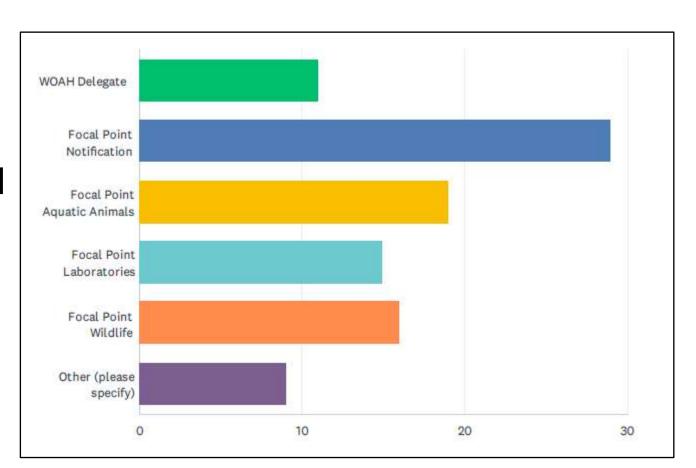
# 3. Results





# **Survey responses**

- 91 responses were received
- Response rate ~ 67%
- 82 valid responses





## **Analysis**

- Reliability of measures examined Cronbach's alpha
- Exploratory factor analysis determine if measures represent single factor
- Descriptive statistics examined to explore nature of results
- Correlation matrix to explore relationships among variables
- Logistic and linear regressions to explore factors that influence "intention to notify"



#### Importance of animal production and health

- "Importance" of terrestrial & aquatic production, export trade, animal health and wildlife health
- "Importance-terrestrial" highest (mean = 4.25) (scale 1 to 5)
- "Importance-aquatic" high but variable (mean = 3.97)

#### **Analysis**

- Logistic regression (intention to notify high/low) not significant
  - "Importance" did not have a meaningful influence on intention to notify





## Organisational capability and knowledge

- Organisational knowledge (e.g. notification requirements)
- Organisational capability (e.g. reporting, investigation & diagnosis)
   Analysis
- Evaluate the combined and individual contributions of knowledge and capability (p < 0.001, explaining 37.3% of variance)</li>
- One unit increase in:
  - Knowledge = 0.33 increase in intention to notify
  - Capability = 0.48 increase in intention to notify
    - "Organisational knowledge" and "organisational capability" predict intention to notify



## Theory of Planned Behaviour

- "Attitudes" favourable (or unfavourable) evaluation of notification
  - Very positive attitudes to notification (mean = 4.49)
- "Subjective norms" perceived social pressure to perform (or not perform) notification
  - Generally positive (mean = 4.20)
- "Perceived behavioural control" perceived ease (or difficulty)
  of performing notification
  - Generally high (mean = 4.06), but some low



## **Theory of Planned Behaviour - 2**

#### Analysis

- Evaluated combined and individual contributions of "perceived behavioural control", "subjective norms" and "attitudes"
- Significant (p < 0.001) effect of "perceived behavioural control" on "intention to notify"
- One unit increase in "perceived behavioural control" = 0.43 increase in "intention to notify"
  - "Perceived behavioural control" predicts "intention to notify"
    - > Strongly positive attitudes toward notification



## **Integrated Model of Organisational Trust**

- "Trustworthiness" comprised of perceptions of trading partner's "ability", "benevolence", and "integrity"
  - (mean = 3.63)
- "Trust" of trading partners
  - (mean = 3.64)
- "Perceived risk" of making a notification
  - (mean = 2.87) variable
- "Perceived benefit" of making a notification
  - Generally high (mean = 4.09)



## **Integrated Model of Organisational Trust**

#### Analysis

- Evaluated combined and individual contributions of "trust", "perceived benefit" and "perceived risk"
  - No significant effect on "intention to notify"
- Trustworthiness did predict "trust", particularly "integrity" and "benevolence"

"Trust" in trading partners did not predict "intention to notify"



- High perceived benefit of notification
- > Low (but variable) perceived risk of notification





#### Risks and benefits of notification

#### Single greatest risk

- 1. Reduced access to international markets (50%)
- 2. No risk (16%)

#### Single greatest benefit

- Maintaining international reputation for transparency and compliance with WOAH standards (46%)
- 2. Limiting the international spread of animal diseases (33%)



## **Conclusions of the analysis**

- 1. Three factors influence notification (all capability based):
  - Organisational knowledge
  - Organisational capability
  - Perceived behavioural control



- 2. Factors that don't influence notification:
  - Importance (of animal production and animal health)
  - Trust in trading partners
- 3. Views on notification are positive
  - Strongly positive attitudes toward notification
  - High perceived benefit of notification







## Reality check!

Are these findings reliable, sound, meaningful?

- Established theories were used (e.g. TPB, IMOT)
- Statistical analysis indicated reliability of measures
- ✓ The right people participated (and a large sample)
- Anonymous participation
- Focus group workshops validated and explored issues
- Internal consistency of results.



# 4. Barriers to notification





## **Exploring barriers to notification**

Three key areas identified (all capability based):

- 1. Diagnostic and laboratory confirmation delays
- Decision making and administrative delays
- 3. Surveillance and reporting system issues



## 1. Laboratory confirmation not available or slow

#### Causes

- Diagnostic capability for some diseases is not available (e.g. exotic or emerging diseases)
- Delays if Reference Laboratory confirmation is required
- Delays if multiple laboratories need to confirm result
- Delays if further investigation or resampling are required
- Delays due to sample transport time from remote areas to laboratories
- Lack of resources, economic crisis

#### Actions or strategies to address barriers

- 1. Provision of positive control material to support adoption of methods for exotic disease
- 2. Regional laboratory proficiency testing programs for national reference laboratories
- 3. Regional workshops for national reference laboratories to improve diagnosis of listed diseases of regional significance
- 4. Facilitate access to Reference Laboratories for confirmation



# 2. Decision making and administrative delays

#### Causes

- High level approvals may slow notification (e.g. by senior officials or ministers)
- Inter-agency approvals and communication (e.g. for aquatic and wildlife diseases) may slow notification
- Collecting, collating and approval of detailed information may be slow
- Need to simultaneously prepare media releases and holding statements
- Slow decision making on whether an event meets the definition of a confirmed case or emerging disease

#### Actions or strategies to address barriers

- Template to collate immediate notification information and seek approvals
- 6. Establish agreed workflow and division of responsibilities between different agencies
- 7. Training for focal points and delegates on notification and WAHIS tailored to their knowledge and experience
- 8. Ensure WAHIS is developed to prioritise meeting user needs
- 9. Guidance on best practice for managing risks associated with notifications
- 10. WOAH engage with CAs and ministers to promote awareness of notification obligations



# 3. Surveillance and reporting system issues

#### Causes

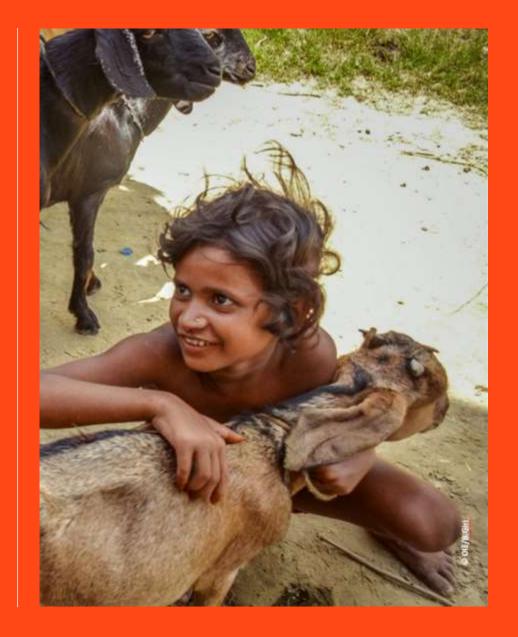
- Producer reluctance to report delays or prevents event recognition
- Poor communication systems delay or prevent event recognition
- Lack of awareness of WOAH notification obligations can delay or prevent advice reaching decision makers
- Lack of trained human resources delays field investigation.

#### Actions or strategies to address barriers

- 11. Provision of web-based surveillance/reporting platforms that can be adopted by Members
- 12. PVS pathway utilised to evaluate and develop surveillance systems and improve notification
- 13. Training to support surveillance systems and notification, including simulation training



# 4. Conclusions and recommendations





#### There are a lot of positives!

- Strongly positive attitudes to notification
- ✓ High perceived benefits of notification
- Three factors identified that predict intention to notify
  - organisational knowledge
  - organisational capability
  - perceived behavioural control
- Each of these factors is modifiable, providing opportunities for improvement.



## Strengths based approaches

- This study has revealed many strengths regarding notification of disease events
- Strengths-based approaches focus on identifying and maximizing strengths rather than addressing weaknesses
- Focus on what works well and enhance it, encourage growth and development
- Moving from a "deficit-dialogue" (about barriers, gaps, deficiencies) to strengths-based communication (about opportunities and progress)
- Suggested as an approach to supporting Member improvements in notification.



#### **Draft recommendations**

- Preliminary, pending further discussion and consideration
- Comments welcome to contribute to finalisation
- 5 draft recommendations which encompass the 13 suggested actions [please note that the final seven recommendations can be found in the full report of the consultancy survey]



#### Recommendation 1.

Develop an action plan to support Members to enhance diagnostic capability of national reference laboratories in the Asia-Pacific region

- diagnostic capability is a key barrier to notification
- four actions were identified to improve laboratory capability
- relevant programs are already underway in the region need to determine coverage and gaps
- action plan should be complementary to existing programs, outcome focussed, provide measurable improvements in notification.



#### Recommendation 2.

Evaluate whether the WOAH PVS Pathway sufficiently emphasises notification capabilities to provide adequate guidance to Members for improving notification

- Member capability is a key determining factor that predicts notification intention
- WOAH's primary means for evaluating and supporting development of Members' capabilities is the PVS Pathway
- Important to examine whether the PVS pathway is adequately supporting development of capabilities relevant to notification.



#### Recommendation 3.

Develop a plan for routine training of WOAH Delegates and relevant WOAH Focal Points in areas relevant to notification that is tailored to their experience and capabilities

- Knowledge is a factor that predicts notification intention
- Delegates and Focal Points have a key role in notification, and should be supported to have the knowledge and skills to undertake their role
- Many considerations including cost, time requirements for participants and trainers, addressing needs appropriately, achieving notification outcomes...
- Optimal approach needs to be planned and evaluated to determine impact.



#### Recommendation 4.

Develop fit-for-purpose guidance materials, exemplars and resources to support notification

- Study participants shared approaches that they use to assist them to successfully meet their notification responsibilities
- A set of resources (e.g. guidance materials and exemplars) that draws on these approaches, could be developed and shared
- The resources could also be used to raise awareness with senior officials and Ministers on notification obligations.



#### **Recommendation 5.**

Design and implement an approach for ongoing recognition of Members with strong notification performance

- Recognition of countries with strong notification performance will create extrinsic incentives for conscientious notification
- May provide an aspirational goal for Members for recognition in a similar way that disease status recognition does
- A set of resources (e.g. guidance materials and exemplars) that draws on these approaches, could be developed and shared
- An approach for recognising positive notification performance could cultivate a positive, strengths-based approach to notification.



#### **Conclusions**

- Three factors determined that predict notification intention (all capability based)
- Three areas of capability identified as barriers to notification (diagnostics, surveillance, administrative issues)
- 13 actions identified to address the barriers
- 5 draft recommendations proposed to advance the actions
- Established a sound methodology to explore barriers to notification
- Application to other regions could be considered possible that different factors could be involved.

# Thank you

12, rue de Prony, 75017 Paris, France

T. +33 (0)1 44 15 19 49 F. +33 (0)1 42 67 09 87

woah@woah.int www.woah.org <u>Facebook</u>

<u>Twitter</u>

<u>Instagram</u>

<u>LinkedIn</u>

YouTube

Flickr



World Organisation for Animal Health Organisation mondiale de la santé animale Organización Mundial de Sanidad Animal

