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## Updates on the regional ASF, PPR and LSD situation and Key Activities

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26<sup>th</sup> SEACFMD National Coordinators Meeting Kuala Lumpur, Malaysia (22 – 24 August 2023)

### Outline

- Background
- ASF activities in Southeast Asia
- PPR activities in Southeast Asia
- LSD activities in Southeast Asia
- Some insights on Cost efficient synergies in TADs control







### African swine fever (ASF) – distribution – 2019 - 2023

ASF is an infectious disease of domestic and wild pigs, caused by ASF virus which is the sole member of the family Asfarviridae.



#### **Global (country disease presence): 64**



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## ASF Outbreaks in the Asia-Pacific Region



COUNTRY	Date of first outbreak	
China	<u>August.</u> 2018	
Mongolia	January, 2019	
Vietnam	<u>February.</u> 2019	
Cambodia	March, 2019	
DPR Korea	<u>May.</u> 2019	
Lao PDR	June 2019	
Myanmar	August 2019	
Philippines	September, 2019	
R.O Korea	September, 2019	
Timor-Leste	September, 2019	
Indonesia	November, 2019	
PNG	<u>March,</u> 2020	
India	<u>May.</u> 2020	
Malaysia	March 2021	
Bhutan	May 2021	
Thailand	January 2022	
Nepal	May 2022	
Singapore	February 2023	



#### **ASF Regional Coordination through SGE under GF-TADs**



Eighth Meeting of the Standing Group of Experts on African Swine Fever for Asia

Qingdao, People's Republic of China 27-28 July 2023

With financial supports from:



Ministry of Agriculture, Food and Rural Affairs Republic of Korea

Operationalizing the ASF preparedness and response plan for Cambodia

> Focused on reinforcement of biosecurity measures for ASF and other swine diseases at the national and regional level

The 3<sup>rd</sup> SGE-ASF for Asia

The 5th SGE ASF for Asia

The 7th SGE-ASE for Asia





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#### **Policy supports**

#### Finalised

- Global control of ASF: GFTADs initiative Global
- PVS ASF Specific content (Philippines)
- Lab protocol and algorithm
- ASF in wild pigs
- ASF diagnostic tests for field application
- Compartmentalisation guidelines: ASF
- ASF Cross-border risk assessment manual
- ASEAN ASF Prevention and Control strategy
- After Action review for ASF response

#### **Ongoing/ Pipeline**

- Lao Pig Project
  - Lot 1 assess ASF risk at domestic-wildlife interface;
    - Lot 2 training of CAHWs and Wildlife Rangers
- Support to development of Risk-based ASF
   Control Strategy in selected countries
- Lab protocol and algorithm revision
- Feasibility study on carcass disposal





#### **ASEAN ASF Prevention and Control Strategy**

#### GOAL

To achieve regional control of ASF that will result in a reduction of the adverse impact of ASF on the pig sector and wild suid populations in Southeast Asia

OUTCOMES

1. Regional coordination and cooperation for more effective prevention and control of ASF is improved 2. Capability of countries to prevent and control ASF is enhanced.

3. Multisectoral and multi-disciplinary partnership to ensure sustainable ASF prevention and control is enhanced

OUTPUTS		
1.1. Set up ASEAN ASF Governance structure	2.1. Systematic evaluation of the capability of Veterinary Services, in particular to control ASF.	3.1. Strengthen engagement and coordination with relevant
1.2. Harmonize Regional Coordination Mechanism in line with GF-TADs and other relevant frameworks	2.2. Provision of technical guidelines and resources for ASF prevention and control including facilitation of safer trade	<ul><li>stakeholders, including private sector</li><li>3.2. Apply Multisectoral and</li><li>Multidisciplinary partnerships to</li></ul>
1.3. Establish mechanisms to facilitate immediate notification, reporting and dissemination of disease information	<ul><li>2.3. Capacity building programmes to prevent and control spread of ASF and priority TADs</li><li>2.4. Strengthen legislation and policy on prevention</li></ul>	<ul> <li>control ASF (and other priority TADs)</li> <li>3.3. Promote a sustainable funding mechanism for ASF prevention and control</li> </ul>

and control of ASF and other TADS

### ASEAN ASF Workshop 2 – 4 May 2023, Manila, The Philippines







## **ASEAN ASF Prevention and Control Strategy**



## Monitoring & Evaluation Framework





### **ASF Awareness Materials**



**ASF awareness posters, social media cards, videos** targeting key sectors (travel, veterinarian, commercial pig farms, pig farmers, policy-

makers, etc.), co-developed with FAO.

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https://trello.com/b/GloiZoik/african-swine-fever-woah-fao

### **Reports and Guidelines**

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African swine fever in wild pigs in the Asia and the Pacific Region





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tests for field application

The OIE ASF Reference Laboratory Network's

February 2022

overview of African swine fever diagnostic

AFRICAN SWINE FEVER CROSS-BORDER RISK ASSESSMENT MANUAL: SOUTH-EAST ASIA



#### https://rr-asia.woah.org/en/projects/asf



### **Capacity Building Programme**





#### **Advanced GIS training**

(27 July - 30 Aug 2021)

31 participants from 10 countries.



Epidemiology study design training

(11 Nov –10 Dec 2021)

34 participant from 11 countries.

Transborder value-chain analysis in

South-East Asia and the Pacific

16 participants from 5 countries



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nfectious

Infectious disease modelling training (21 Feb –31 March) – Ongoing 40 participants from 12 countries are attending the course.



<u>Cross Border Risk Assessment</u> <u>South-East Asia</u> (Sept 2020 to May 2021) 22 Participants from 13 countries.



## PPR – disease distribution – 2019 - 2023

Peste des Petits Ruminants (PPR), also known as sheep and goat plague, is a highly contagious and devastating animal disease affecting small ruminants. It is caused by a virus belonging to the genus *Morbillivirus*, family *Paramixoviridae*.



**Global (country disease presence): 51** 



Asia-Pacific (Members presence): 12



## PPR in the ASEAN region

- Historically free from PPR
- Introduction of PPRV in Thailand from Africa
- Need to be prepared for a similar introduction of PPRV or an incursion from endemic countries
- ASWGL decided to develop an ASEAN PPR Preparedness Strategy



The ASEAN region has been historically free from PPR except for serological evidence of the disease in Laos and Vietnam and an outbreak in imported goats in Thailand





## Training of Animal Health staff on PPR

#### Content of the eLearning Module



## PPR Risk Assessment study

## Objective

• To assess the likelihood of the introduction of PPRV into AMS





IN SOUTHEAST ASIA

Version 2.9: 31 January 2023



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## PPR Risk Assessment

#### Key Recommendations

# Import from low-risk countries

Insist on the provision of an international veterinary certificate

Ensure prequarantine arrangements

Strengthen quarantine facilities and workforce

#### Strengthen border biosecurity





## **ASEAN PPR Preparedness Strategy**



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for 2021-2025 Enhancing control of transboundary animal diseases for global health

**GF-TADs Strategy** 



ASEAN Strategy for Exotic, Emerging, Re-emerging **Diseases and Animal Health Emergencies (2021)** 

ASEAN STRATEGIC PLAN OF ACTION FOR COOPERATION ON LIVESTOCK (2021-2025)

2015



2017 - 21



Findings of the PPR Risk Assessment

2022 - 30



## **Development of ASEAN PPR Preparedness Strategy**

#### Vision:

The ASEAN Member States are officially recognised as PPR-free by WOAH and maintain PPR freedom.

#### Goal:

To strengthen capacity in the ASEAN region to prepare, prevent, detect, respond to, and recover from outbreaks of PPR and other priority small ruminant diseases.

The achievement of the goal will be indicated by:

- the absence of incursion of PPR in the region,
- the prompt detection and containment of a future PPR outbreaks a
- the achievement and maintenance of the official recognition of Members' PPR-free status.



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#### **ASEAN PPR Preparedness Strategy**

VISION: The ASEAN Member States are officially recognised as PPR-free by WOAH and maintain PPR freedom.

GOAL: To strengthen capacity in the ASEAN region to prepare, prevent, detect, respond to, and recover from outbreaks of PPR and other priority small ruminant diseases.

OUTCOMES

1. The ASEAN region has enhanced coordination, legal and regulatory frameworks and resources for PPR early warning and rapid response.

2. The ASEAN region has enhanced capacity for early detection and rapid response to PPR incursions and other priority small ruminant diseases. 3. The animal health workforce in the ASEAN region has enhanced capabilities for risk assessment, surveillance, PPR detection and emergency response.

OUTPUTS

- 1.1. Enhanced coordination among AMS
- 1.2. Enhanced communication and stakeholder engagement
- 1.3. A sustainable funding mechanism
- 1.4. A harmonised legal and regulatory framework

2.1. Strengthened surveillance systems in AMS.

2.2. Strengthened laboratory diagnostic systems in AMS.

2.3. Strengthened pre-border, border and post-border biosecurity

2.4. Official WOAH recognition of PPRfree status by 2030. 3.1. The capacity of the veterinary workforce in the ASEAN region evaluated.

3.2. Training materials sourced and developed to strengthen workforce capacity.

3.3. Training programmes delivered to strengthen workforce capacity.

## **ASEAN PPR Preparedness Strategy**



## APPS Monitoring and Evaluation Framework





## LSD – disease distribution – 2019 - 2023

LSD LSD is vector borne pox disease of domestic cattle and Asian water buffalo, caused by Capripoxvirus (CaPV) within the family Poxviridae.

Spread - mainly by blood-feeding arthropod vectors (mosquitoes, biting flies and ticks), Long distance spread is mainly by movement of animals



Global (country disease presence): 59



#### Asia-Pacific (Members presence): 2





Temporal pattern (2020 – 2022) ASEAN Member States – IN reports received by event start date (based on country report)



Submitted IN (by event start date)

Month IN





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## LSD in wild animals in Thailand















#### Highlights of activities in response to LSD Outbreaks



Support development of ASEAN LSD Prevention and control Strategy

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#### **Frequently Asked Questions**

- <u>Q&A Expert response to questions raised by the participants</u>
- <u>FAQ on LSD</u> (14 Jun 2022)
- FAQ on LSD Vaccination (3 Sep 2021)

https://rr-asia.woah.org/en/events/lumpy-skin-disease-lsd-coordination-meeting-for-south-east-asia/





Review

#### **Review: Vaccines and Vaccination against Lumpy Skin Disease**

Eeva Tuppurainen <sup>1,\*</sup>, Klaas Dietze <sup>1</sup>, Janika Wolff <sup>2</sup>, Hannes Bergmann <sup>3</sup>, Daniel Beltran-Alcrudo <sup>4,†</sup>, Anna Fahrion <sup>1</sup>, Charles Euloge Lamien <sup>5</sup>, Frank Busch <sup>1</sup>, Carola Sauter-Louis <sup>3</sup>, Franz J. Conraths <sup>3</sup>, Kris De Clercq <sup>6</sup>, Bernd Hoffmann <sup>2</sup> and Sascha Knauf <sup>1</sup>



#### LSD Communication Materials

#### Lumpy skin disease (LSD) Lumpy skin Lumpy skin disease - 15D is a viral disease of connection pattle, water buffeloies and certain wild disease a new threat to the region Insubstant parent of LED in 28 days but experimentally interted earlier may develop clinical signs as early as 8-9 a threat to the region Lumpy skin disease (LSD) is a viral disease of domestic cattle, water buffalces and certain wild ruminants. It headly impacts spinsi health. Its incubation period is about 28 days but experimentally infected cattle may develop clinical signs as early as 6.8 days. and wolfsee and one-lead to severe environment incomes in allesting thereit This disease heavily impacts an mail health and welfare and can lead to severe economic losses in affected farms. LSD has recently spread to and within Asia, perseng a thread to your country. How your animals can get LSD has recently spread to and within Asia, posing a threat to your country infected? How do animals get How do animals get When to suspect LSD? Ties and take. infected? infected? For more information: - Ocular (eye) and nasal discharge - usually Mainly by blood-feeding arthropod vectors prosquitors, bring firm and takes clinease is prepart. obtenued Bett Oils regional weapoge on LBD Mainy by blood-feeding arthropod vectors. to and a site between particular particular pay while observations Decreased milk yield in laciating cattle. - Through bringing in infected cattle from Through bringing in intected cattle from affected response. 540, 1017, Langey skie classes bait manual v.4 manual - High fever that may exceed 41 °C or 105 °F. ... attected regions for wetternisename. No. NUMET ADDRESS OF TAXABLE PARTY. 100 March Enlarged subscipular and preferroral Biting Non Address of the state Charls the latest information on the evaluation of LSD in tyrrigh nodes (easily palpable). the Molent ... · Consid the DB Mith B patients with an at Utilitana ... Appearance of firm cutaneous nodicies LRC while warms on its Warman's of 2-5 cm in diameter, particularly on the Peters Tes TURGETS TO CREWING BUILD WAY IN MICH. head, neck. limbs, udder, genital is and perineum within 68 hours of onset of the collection/refo-mile Date Callie Centrel est Number of nodules varies from few in OR Aiss and Parellal 7-season-follow 21 Water to have OIC REAL TRANSPORTER AND A REAL PROPERTY A REAL PROPERTY AND A REA mild cases, to multiple lesions in severely Off South Fand Sola or considerable in t Wester to Main affected animals. official Veterinary Services. What to do in case of LSD suspicion? How can you protect your country from LSD? 1. Contact the Veterinary Services: and stores 2. Prevent further spread of the disease by saving the animal overene/keepers to: hard. What to do in case of LSD suspicion? When to suspect LSD? Monitor the health of animals everyday in order · Initial signs: 1. Control the Veleninary Services: to identify sick asimals. Doular (noti and need) other arge - usually otherward line. 1. Prevent further spread of the deease by adding the animal owners/sequers to: Desirement with yield in factor of soften How to prevent and control LSD in your farm? (Aph levier that may assaud 4) \*C or 108 \*F. Entraged extractageutar and preferitorial Report in the last of the property from some function Trank. Reparate the componient insumifirst will show that have AND PROPERTY. IN Only buy healthy animals from trusted sources. tempt modes (assily palpable). them the read of the facts. NAMES OF GRADING SUPPORT OF BRIDE in the Dawn inside that have been Approximation of highly observation stra, metalation state landscare of 2-5 use to observation: 3. 式 Carry out cirical examinations on the rest of the animals, in order to identify the disease at very early stages. Outeneous naciones particularly on the head, reck, limite, udder, genitalia and Keep tarm/ shads free from breaking sites for partments within 48 hours of onset of level insects such as standing water and dung. 4. The Provide supportive treatment to affected animals to reduce the forer, maintain hydration and provent secondary bacterial intections. The interface of factories makes have a face in mild sakes, to multiple testors accepting the entire body in severally affected animals. A vecome exists to protect the cattle contract from the first large minute Services for more released on the short Carry out atricial extentiations on the cest of the unimals, in online to identify the classes at very early stopes. Provide suggestive testiment to allocated animals to induce the fever, individual For more information: hydrafion and prevent excondary bacterial infections. OIE regional webpage on LSD: For more information: mana bie intersympotistumpy skin disease sid. A vapoline exists to protect the califie. A WORLD ORGANISATION FOR ANIMAL HEALTH OIE regional webpage on LSD. · Pretrates assessio, privations car babare masia se infers/pagetts/keepy-skin-disease-lish

#### Protecting your animals from Lumpy skin disease

Lumpy skin disease (LSD) effects cattle and water buffalo. It is currently spreading in Asia effecting animal health and welfare. Evelihoods, and food security,

#### LSD poses a threat to your animals.

- High fever.

on head and neck

When to suspect LSD?

Deprezed milk yield in lactiting cows.

covering the entire body in severe cases.

- Discharge from eyes and nose.

Mains by birling insects such as mosquitoes, stable

By moving infected cattle from an area where the



- Appearance of firm mund skin hodules, usually noticed first

Number of nodules varies from few in mild cases to many

#### What to do in case of LSD suspicion?

Notify immediately to the local veterinarians or Benarists suspected cose(s) from the root of the



Seek advice from vets and paravets to provide supportive treatment.

Stop cattle movement from/ to the favor.

Only allow vestors to your farm for essential pervices.

A vaccoing exists to perifect year primate Services for interval of





## Study to assess the impact of LSD

WOAH launched call for proposal – Chiang Mai University is carrying out study to assess the impact of LSD in Asia



<u>Objective 1</u>: review and analyse existing data, and information to better understand the epidemiological characteristic of the disease including the risk factors, introduction and spread of outbreaks, role of vectors in Asia.

<u>Objective 2</u>: assess management and control strategies of farmers, traders, and Veterinary Services during and post LSD outbreaks in two countries to identify best practices.

<u>Objective 3</u>: assess the socio-economic impact of LSD outbreaks on key stakeholders along the value chain in the 2 selected countries. i.e Thailand and Bangladesh

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## **Ongoing and Planned Activities**

- Advocacy and awareness
  - Advocacy to Policy makers Policy brief for the decision makers Ongoing for FMD which will be adapted for other LSD
  - Infographics and videos on the use on LSD vaccination and use of quality vaccines – Ongoing
- Coordination and collaboration
  - 4<sup>th</sup> LSD Coordination meeting in November 2023
- Development of ASEAN LSD Prevention and Control Strategy in line with 30th ASWGL Meeting recommendations and GFTADs Strategy 2021 – 2025
   Ongoing









### **Cost efficient synergies for prevention and control of TADs**

#### • Component 3 of the Global FMD Control Strategy

- Prevention and control of other major diseases of livestock
- Combine activities to improve working efficiency
  - FMD training could be synergised with animal nutrition programmes; combine vaccination; awareness programme

#### • Broaden programme effects to achieve greater benefits

- Emerging of new TADs and shifting of priorities
- Horizontal approaches, such as movement control and biosecurity
- Share resources to maximise the utilities

EACHIII

- Share cold chain facility of the human health sector with animal health for the delivery of vaccines for FMD and other animal diseases.
- Well-equipped FMD laboratories that could be expanded for the diagnosis of other diseases and vice versa.





# Thank You