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CENTRO DE ANIMAL HEALTH
INVESTIGACIÓN RESEARCH
EN SANIDAD ANIMAL CENTER

 **INIA**
Instituto Nacional de Investigación
y Tecnología Agraria y Alimentaria

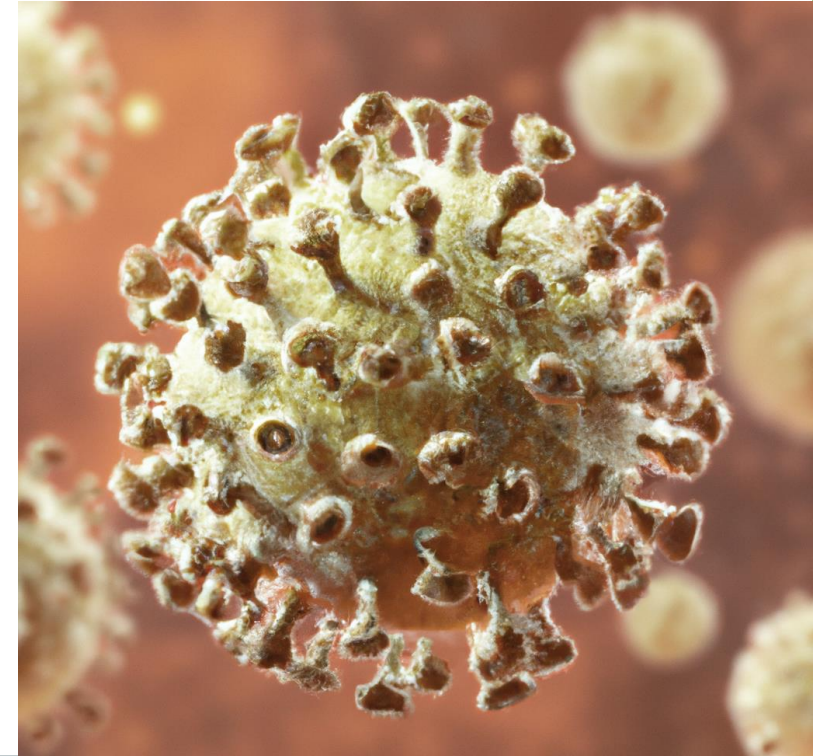


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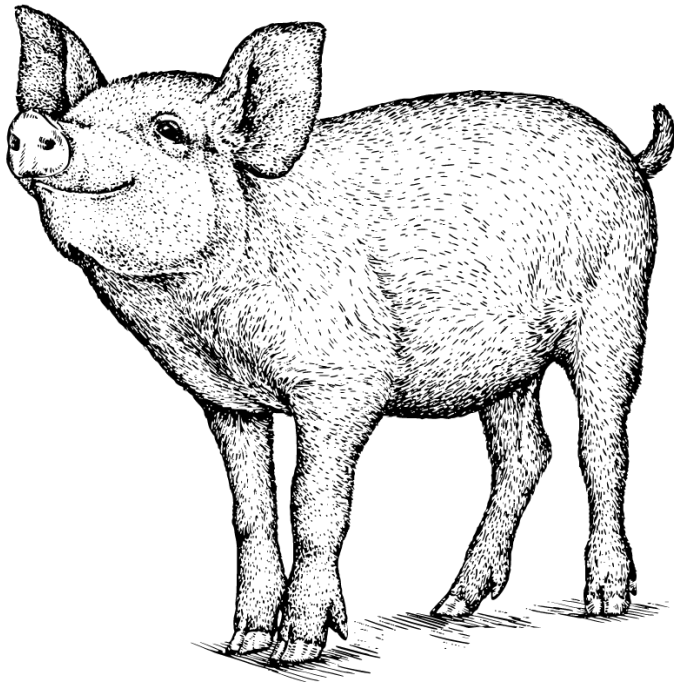
ASF situation in Asia and the Pacific with focus on Southeast Asia



Dr Marta Martínez Avilés

**ASF ASEAN Workshop
2-4 MAY 2023**

WOAH Project ASF-RBS



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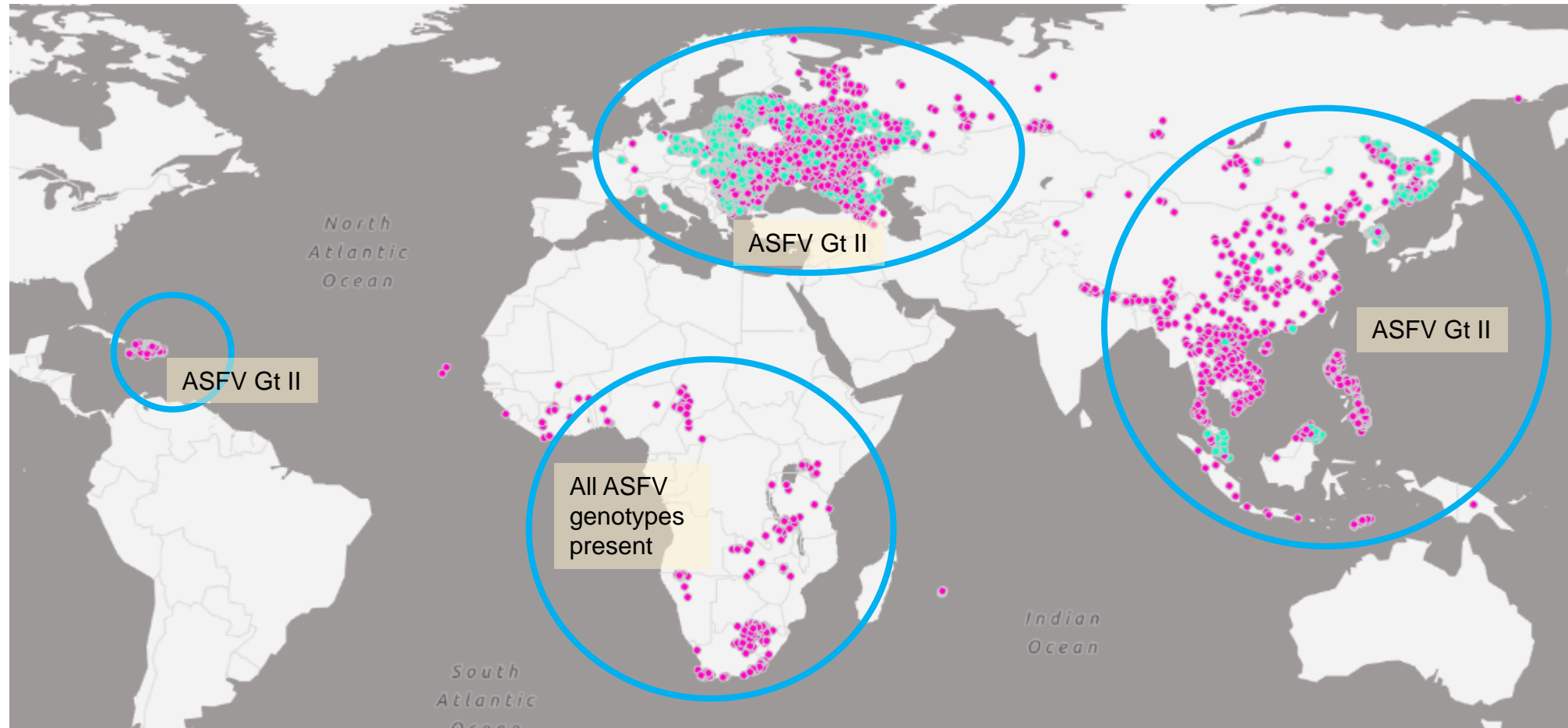


Other team members:

Dr Sandra Barroso Arévalo
Dr Satoshi Ito
Dr Jaime Bosch



Global situation of ASF outbreak since 2007

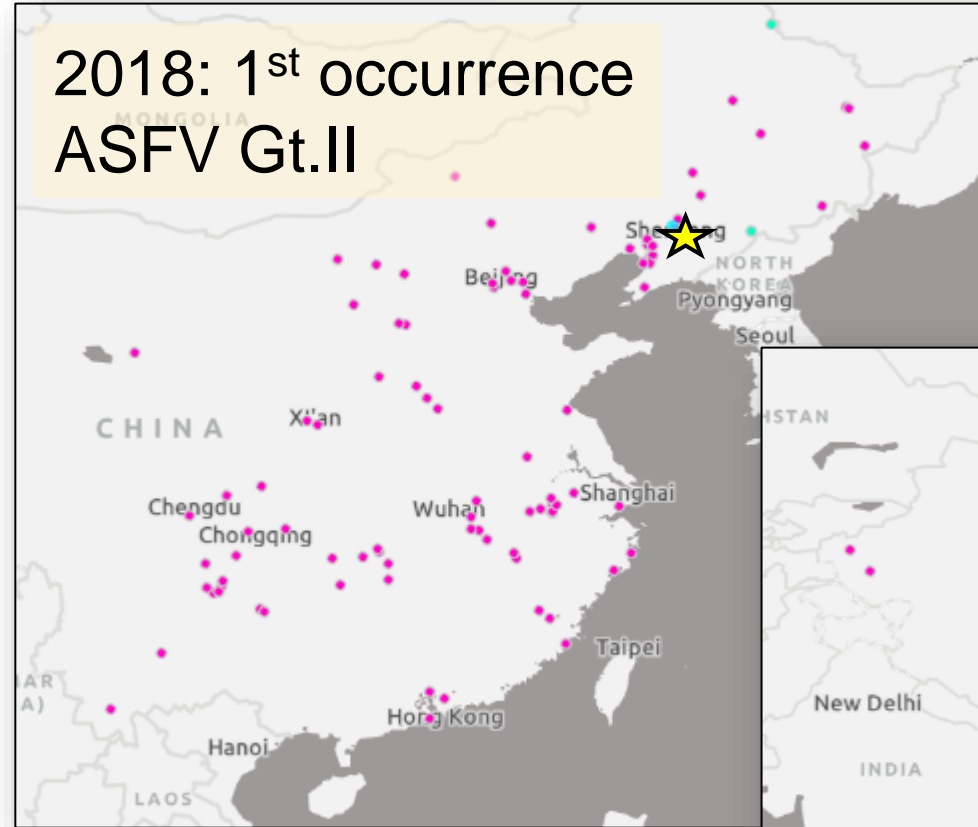


- ASF in domestic
- ASF in wild pigs

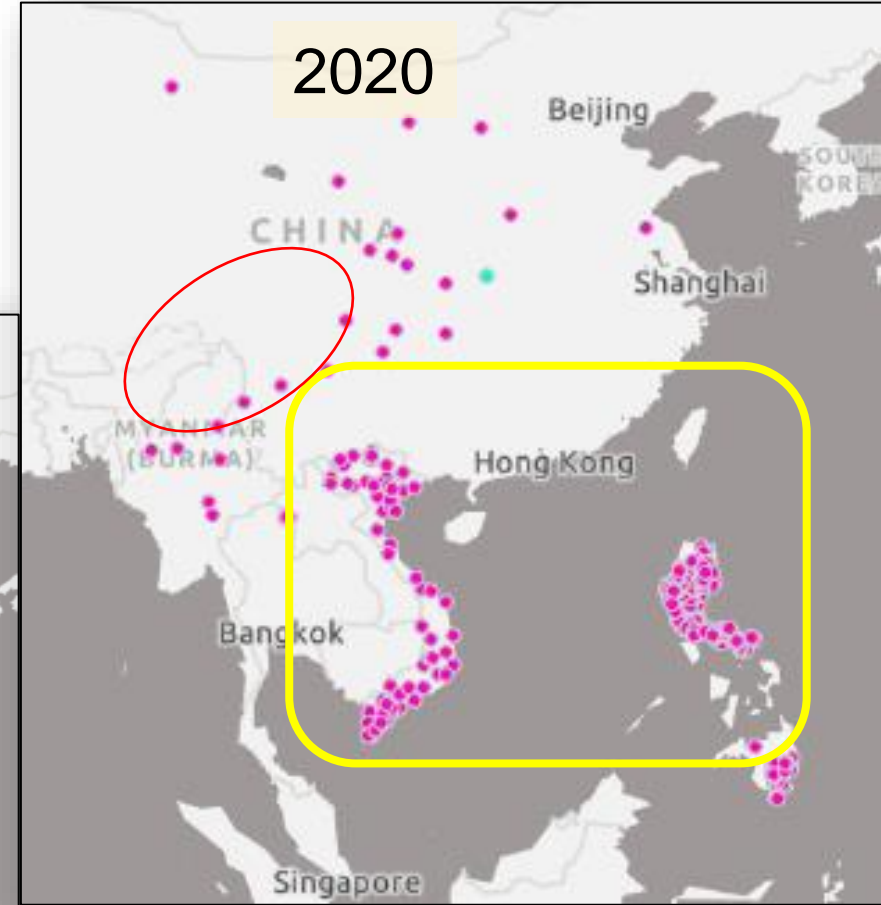
Elaborated with WOA H INFUR data (2007-April 2023)

>5 years of AFSV spread in Asia-Pacific region

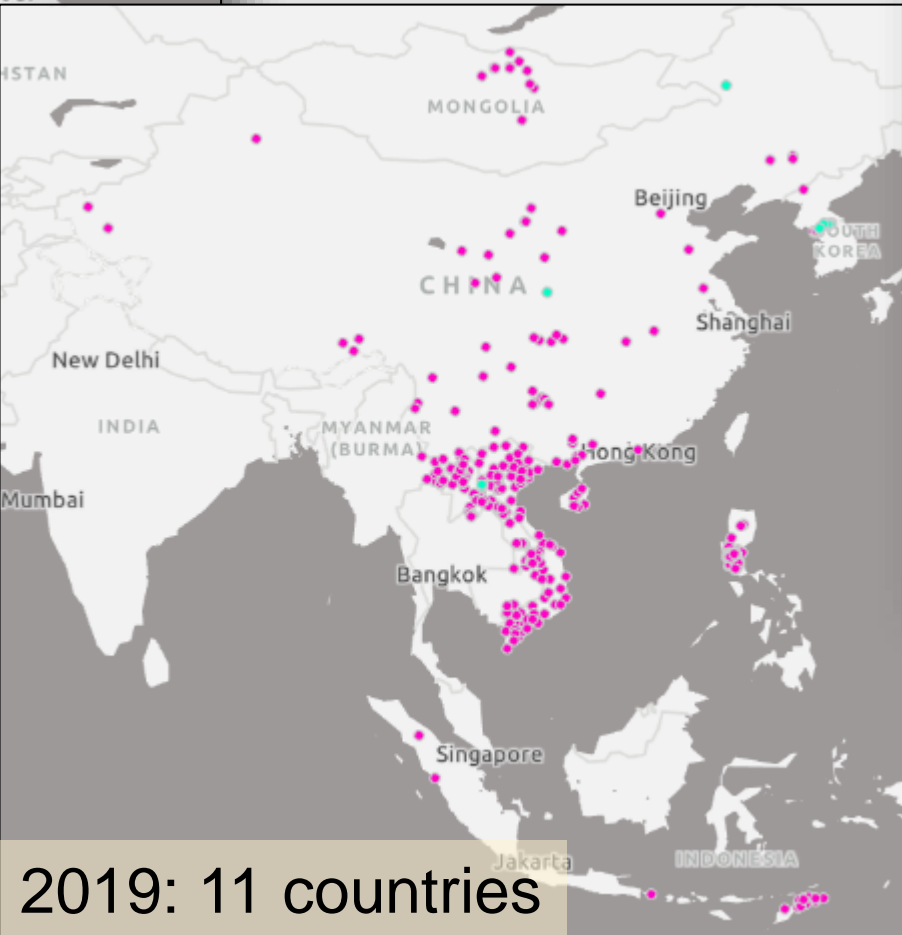
2018: 1st occurrence
ASFV Gt.II



2020



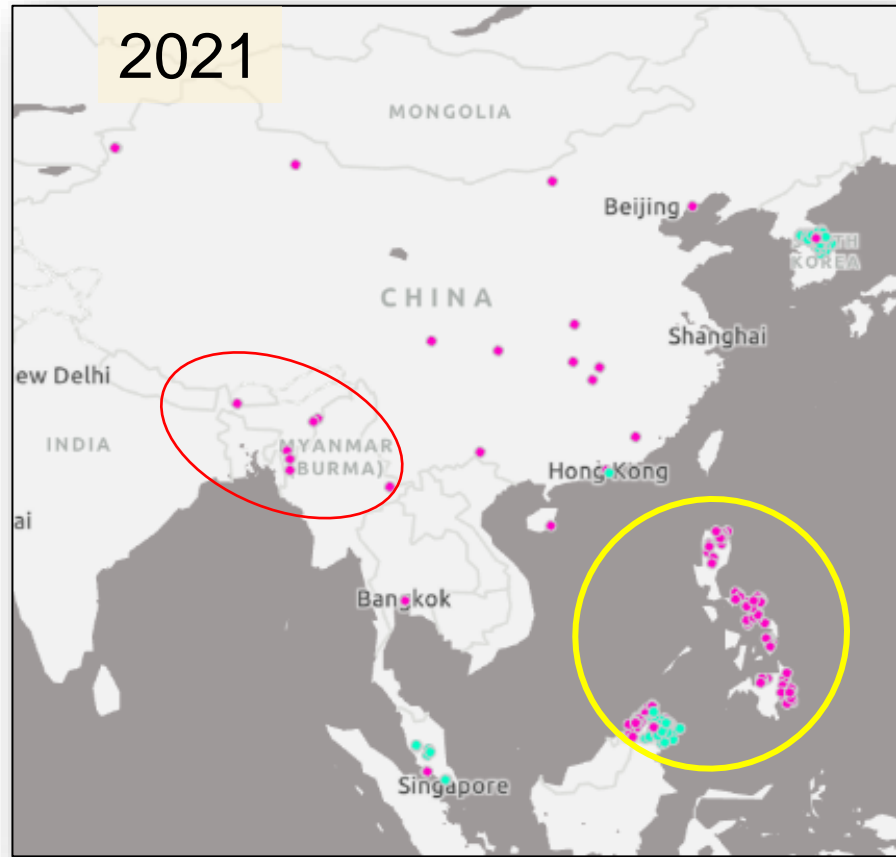
2019: 11 countries



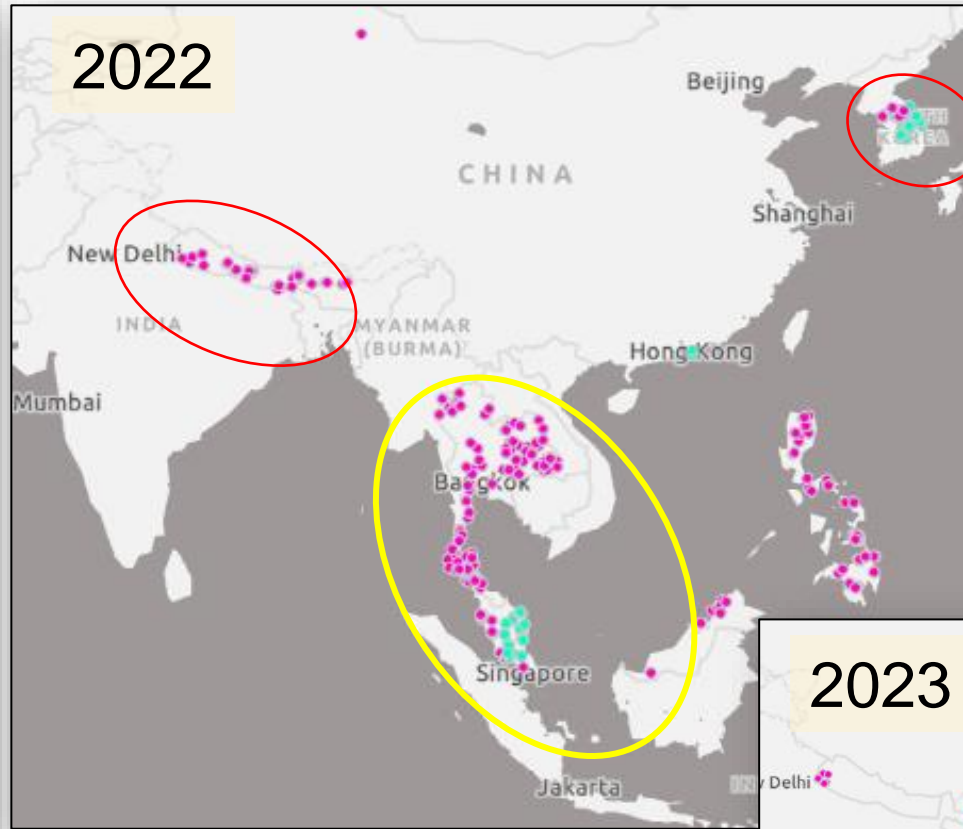
- ASF in domestic
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>5 years of AFSV spread in Asia-Pacific region

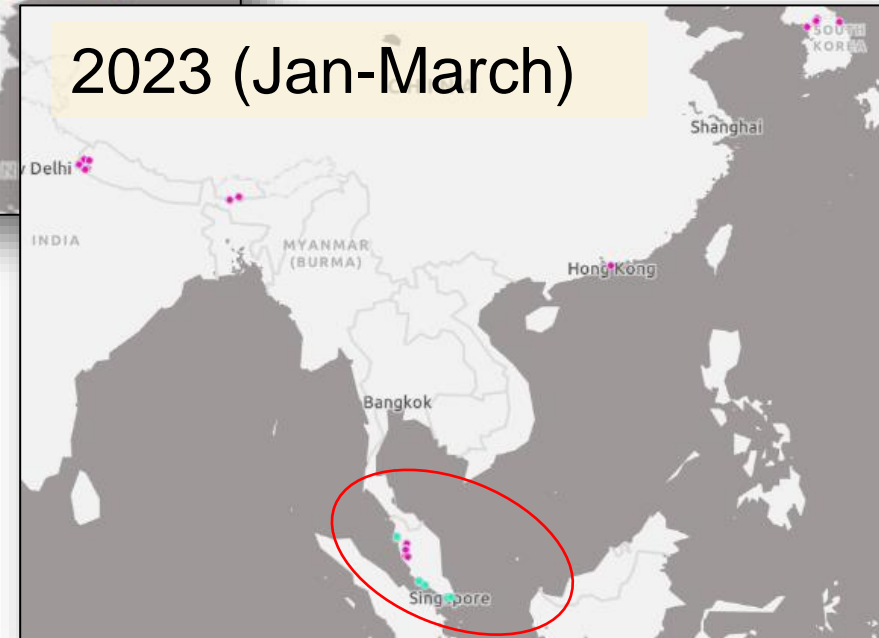
2021



2022

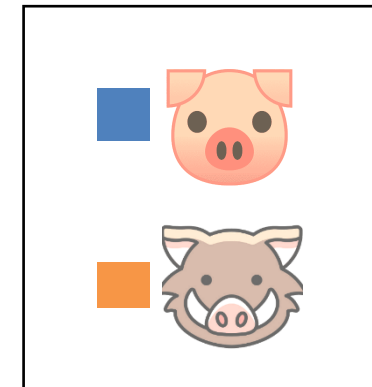
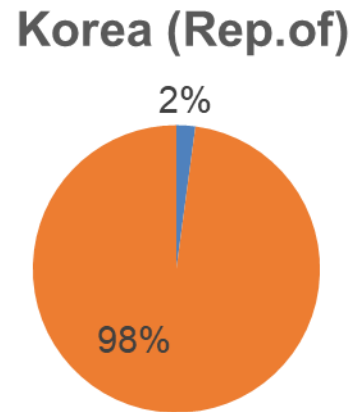
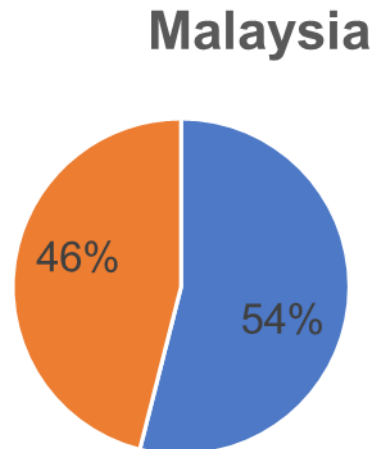
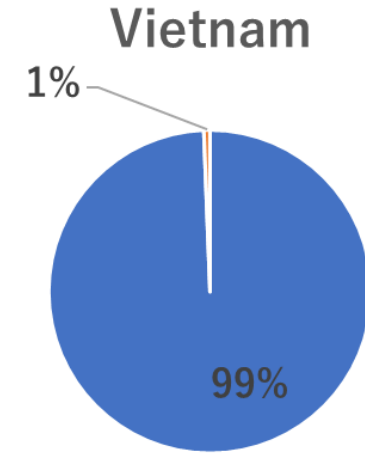
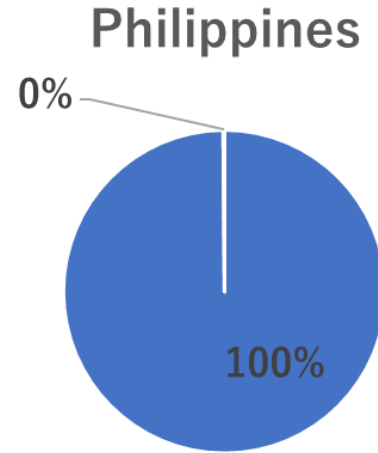
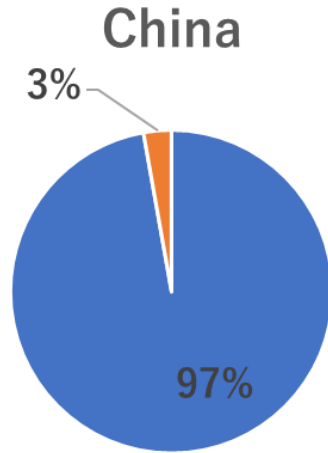


2023 (Jan-March)

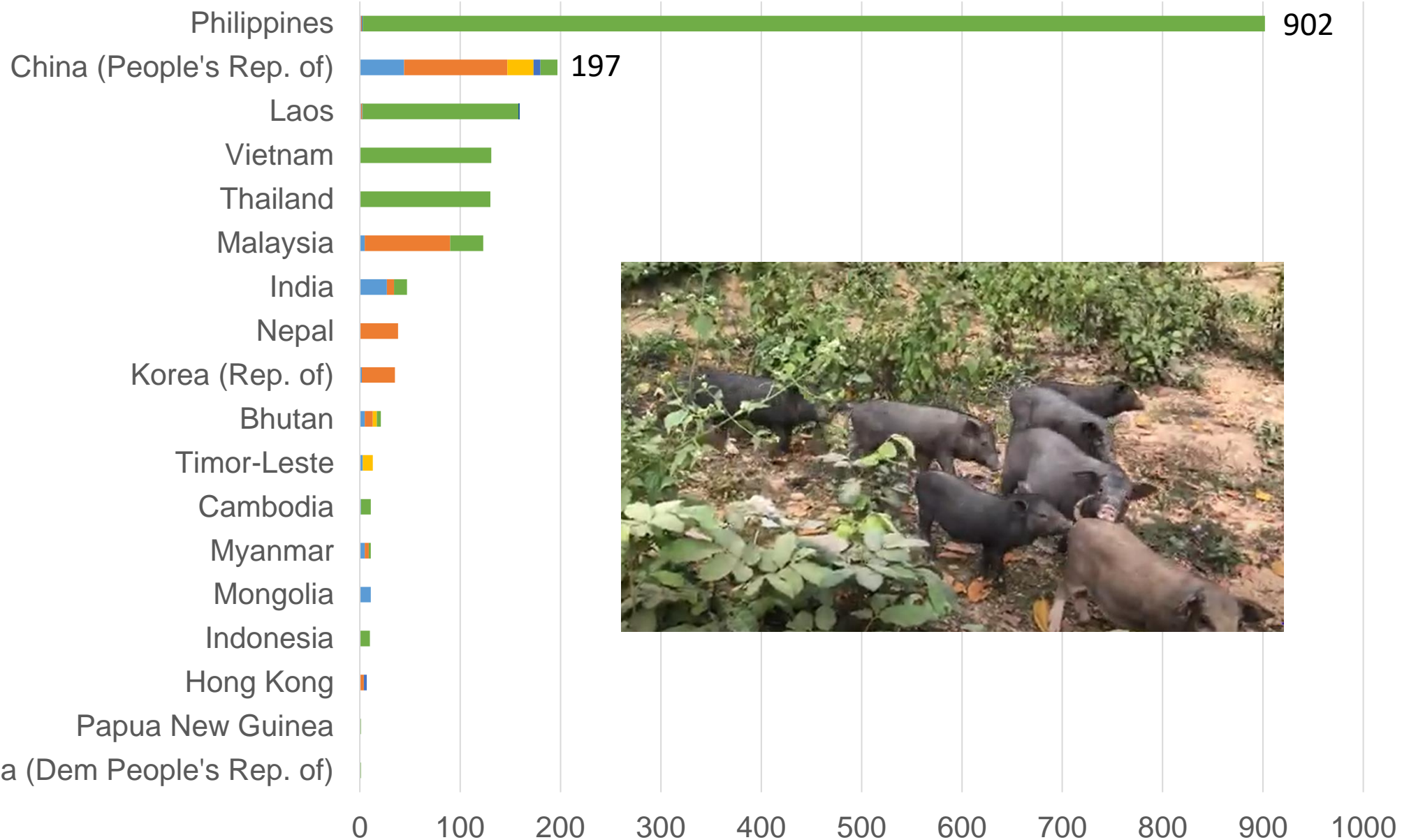
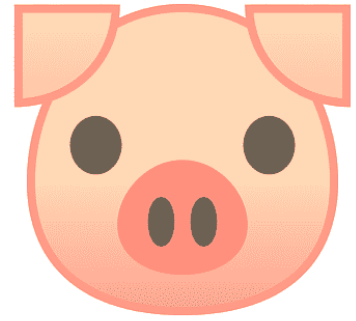


- ASF in domestic
- ASF in wild pigs

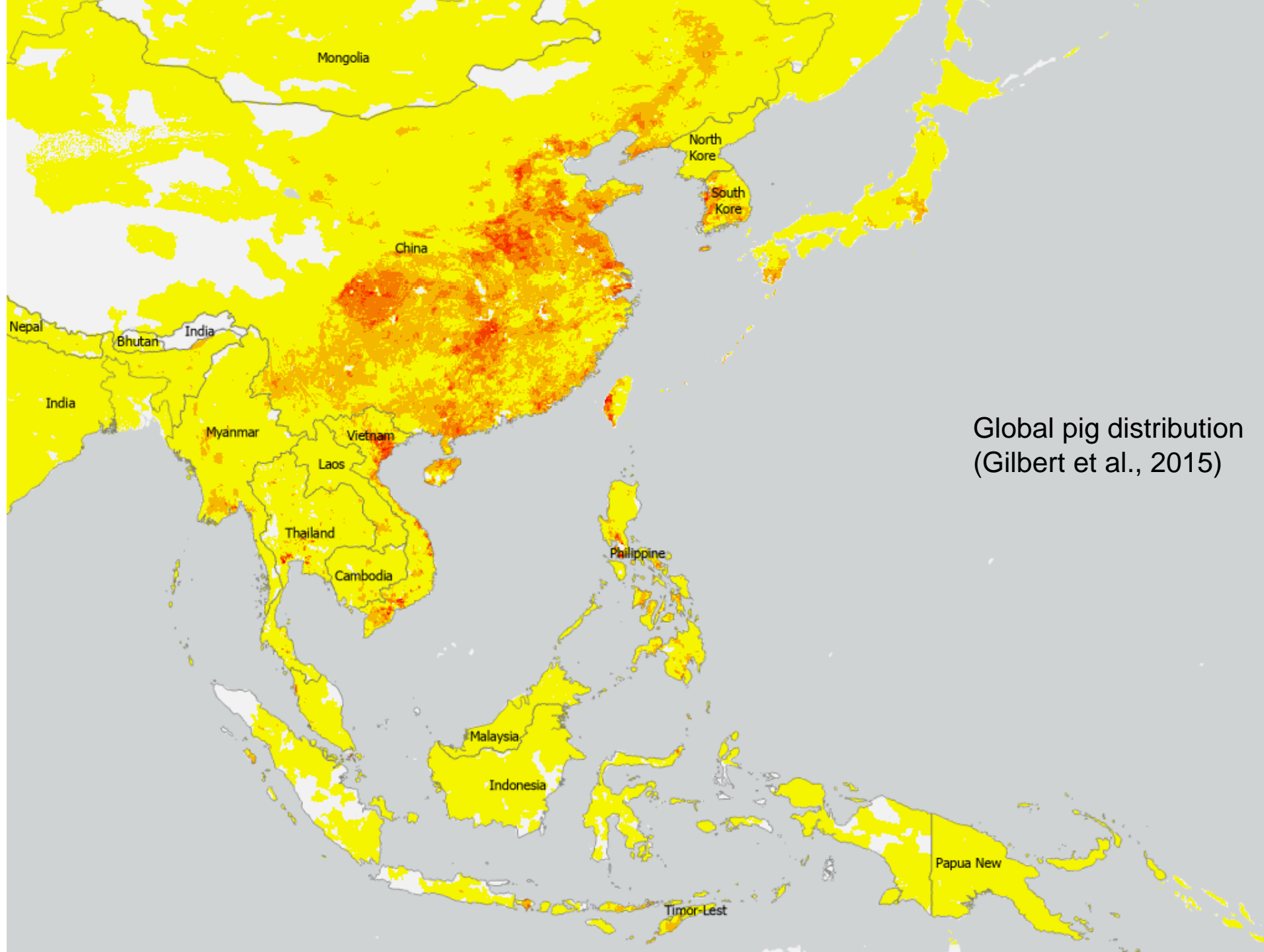
ASF in Asia-Pacific: domestic and wild pigs



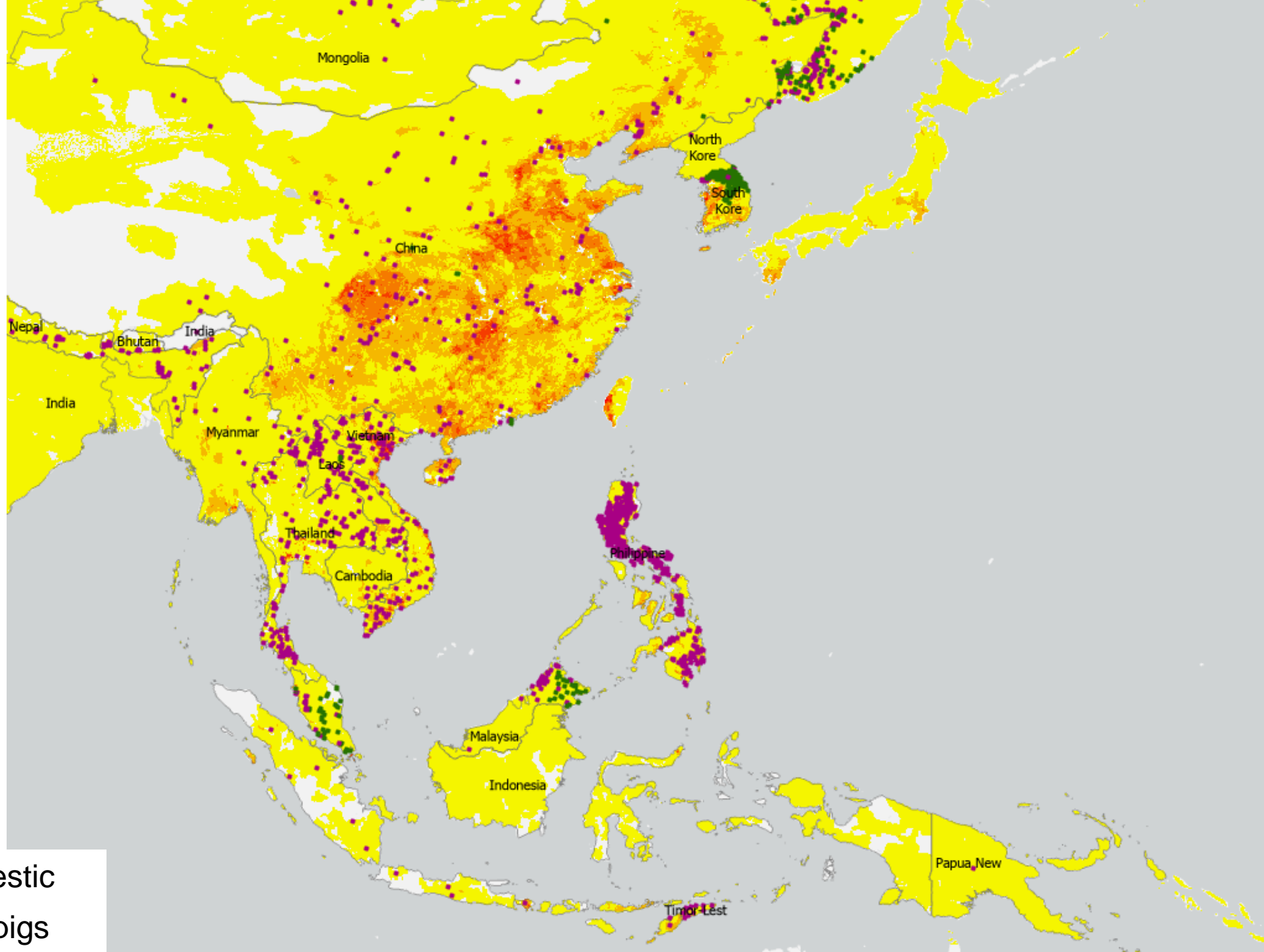
ASFV notifications in domestic pigs in Asia-Pacific



- Backyard
- Farm
- Livestock market
- Other
- Slaughterhouse
- Village
- Zoo

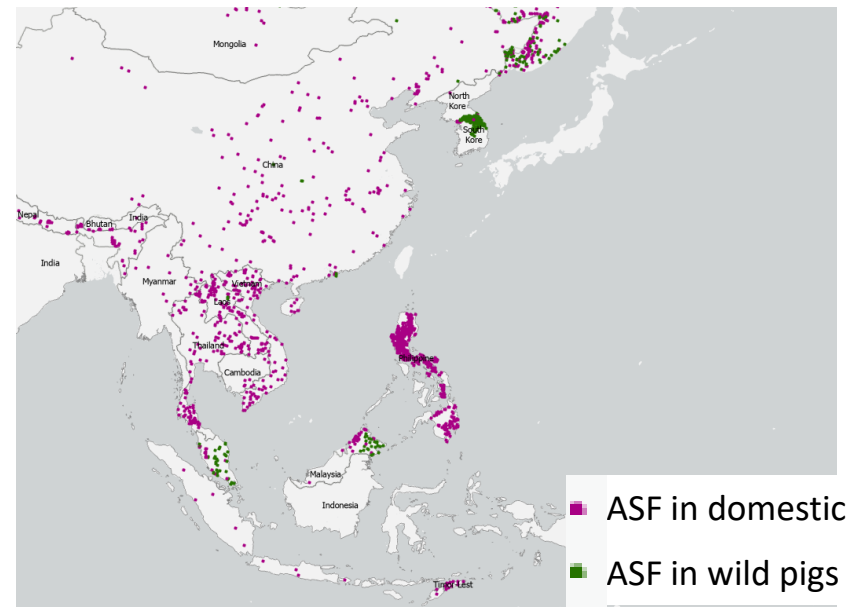
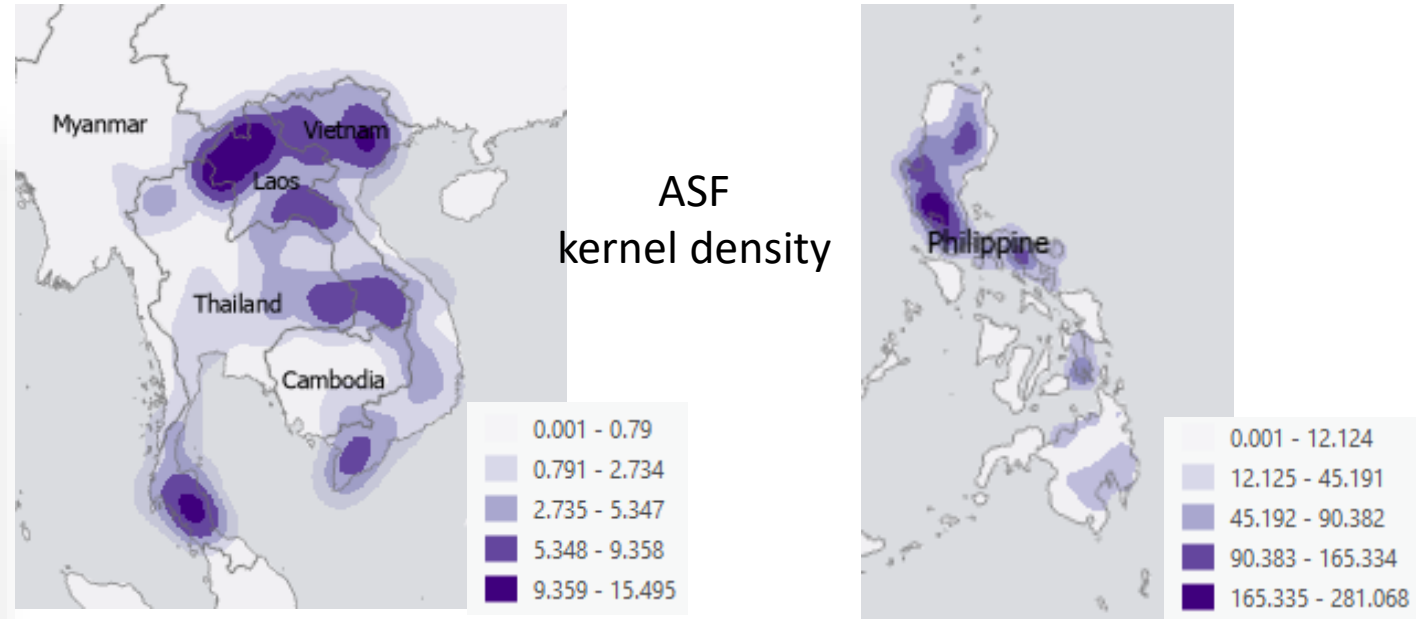
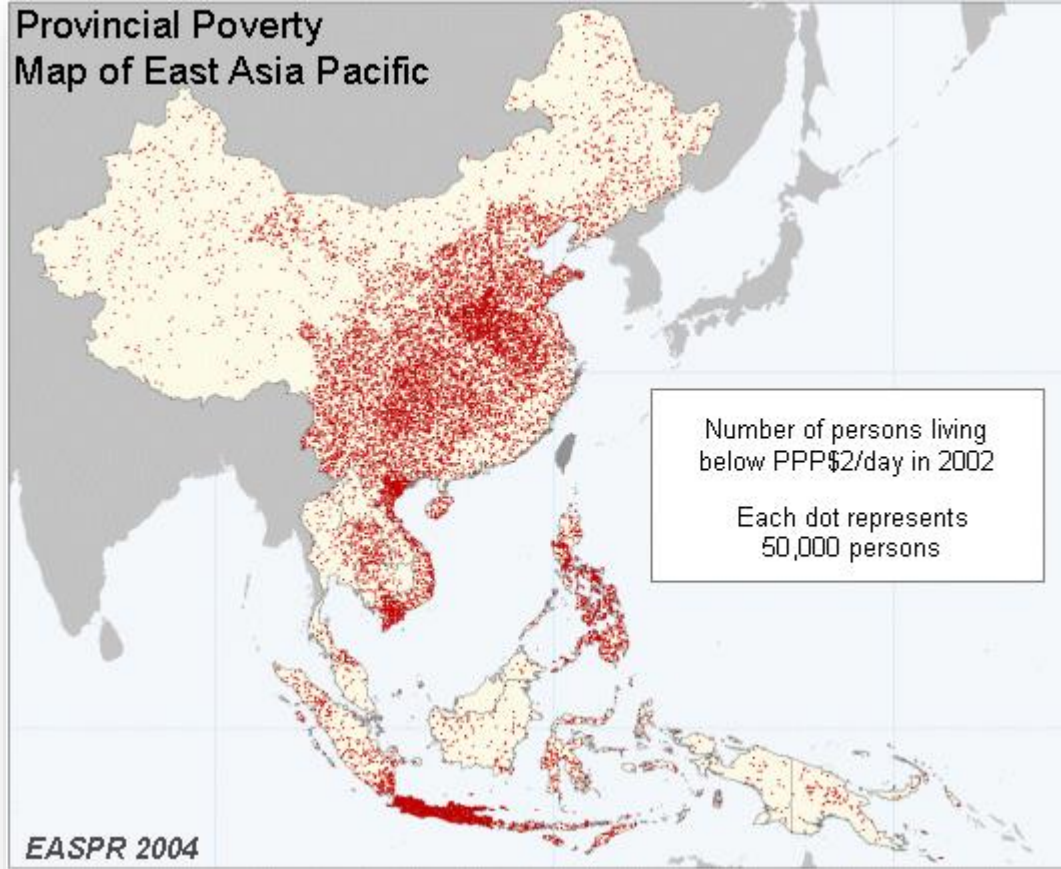


Global pig distribution
(Gilbert et al., 2015)



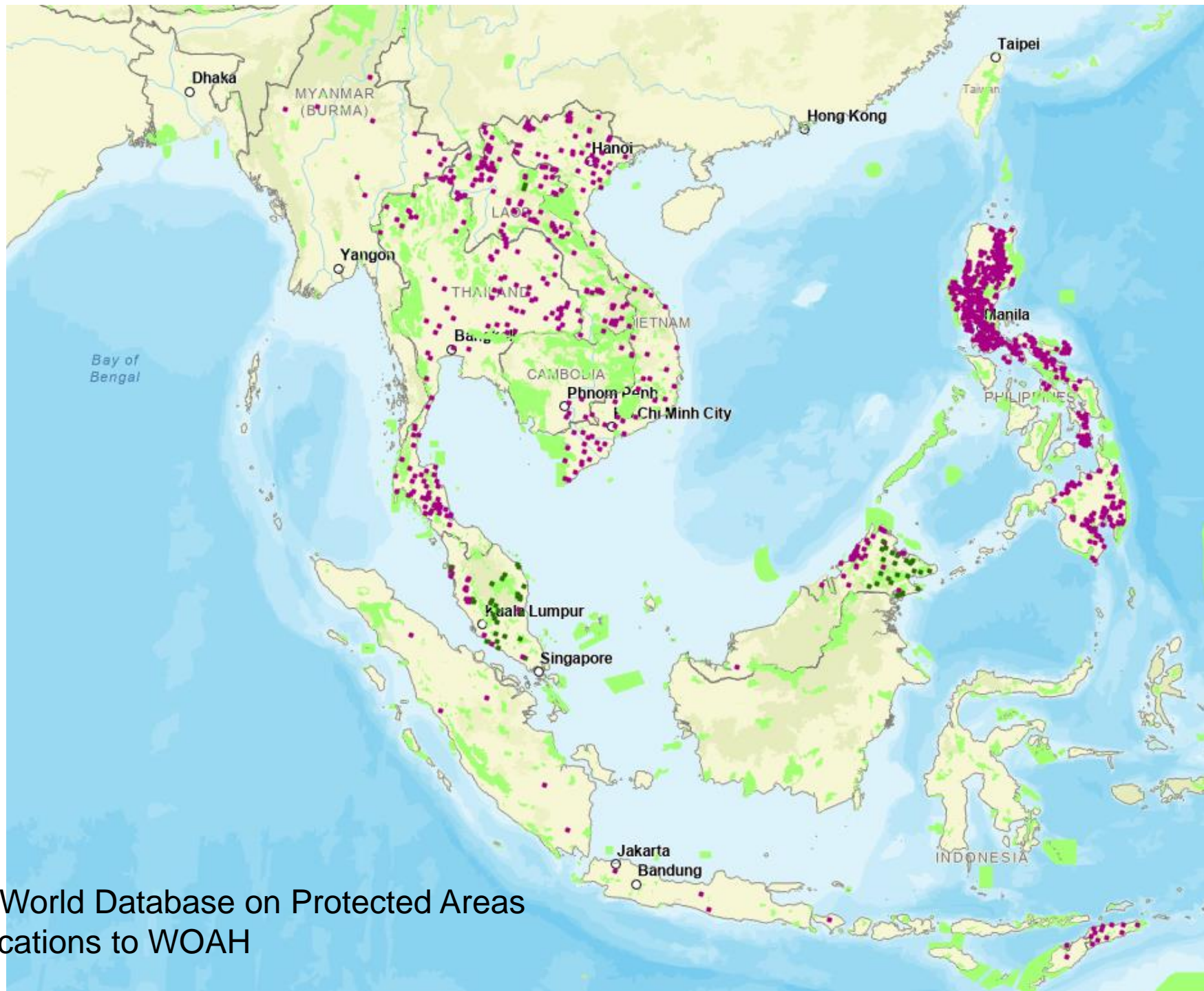
■ ASF in domestic
■ ASF in wild pigs

World Bank Blog poverty data



ASFV risk factors – small pig holding





UN and IUCN World Database on Protected Areas
And ASF notifications to WOA

ASFV risk factors in wild pigs: rural



Hunted wild pig dressing (Youtube)

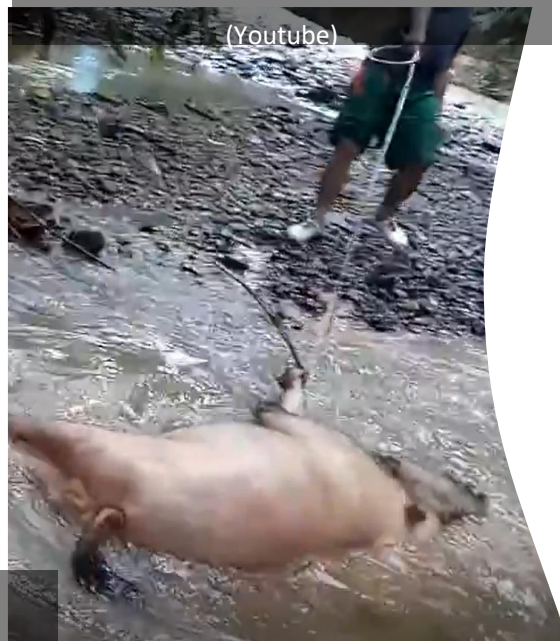


Hunted wild pig transport through the river

(Youtube)



Wild boar meat seized (traffic.org)



Rural wild pig consumption and trade

- Across Southeast Asia
- Also native species
- Culture and family economy



ASFV risk factors in wild pigs: periurban



Wild boar in Hong Kong (Reuters)



Wild boar in Singapore (The Strait Times)



Wild boar in Hong Kong escorted by the Police



Wild boar meat seized (traffic.org)

Periurban wild boar:

- Hong Kong and Singapore
- ### Waste management
- No feeding
 - Space resources



RISKS OF ASF PERSISTENCE IN ASIA



DELAYED NOTIFICATIONS- what is the real ASF situation?!



RESTRAINED ECONOMIC AND LOGISTIC RESOURCES FOR ASF CONTROL



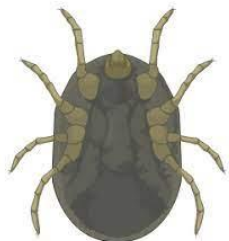
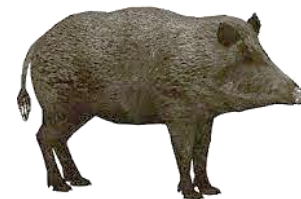
ILLEGAL USE OF ASF VACCINES MASK ASF INFECTION AND CAN LEAD TO CARRIERS



UNKNOWN WILD PIG INVOLVEMENT
UNKNOWN VECTOR INVOLVEMENT
(INCREASE RISK OF PERSISTENCE)



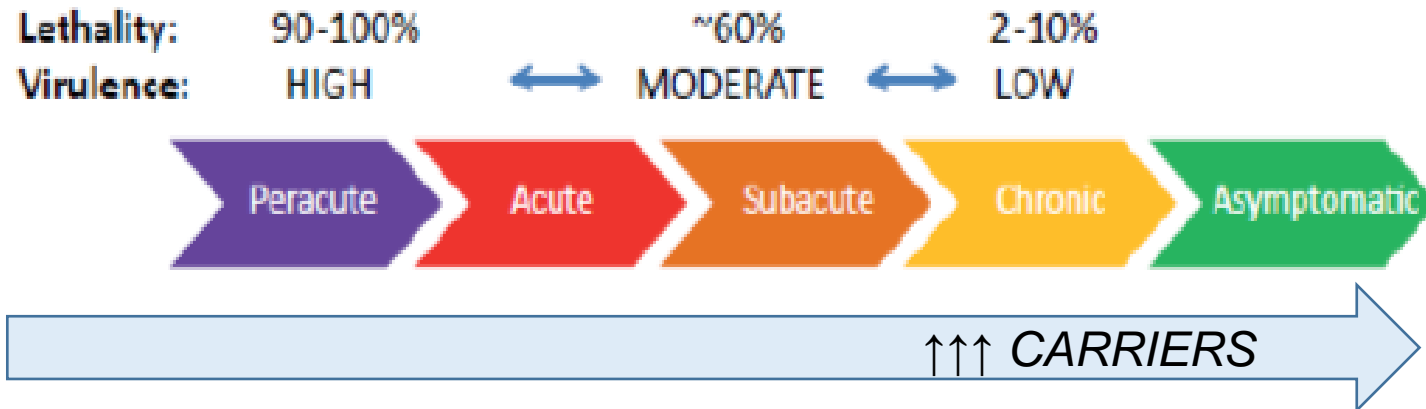
RURAL SETTING INFRASTRUCTURES (slaughter and farming)
UNCONTROLLED MOVEMENTS (PORK and LIVE PIGS)
UNCONTROLLED FOOD WASTE MANAGEMENT



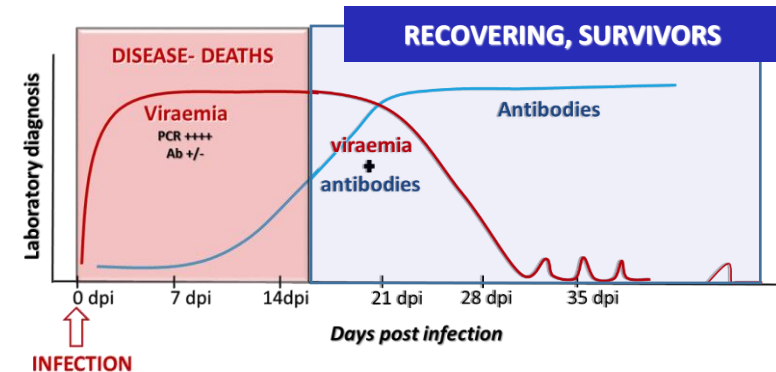
ONCE PRESENT, ASF PERSISTS FOR A LONG TIME

ENDEMIC ASF DETECTION IS NOT LIKE EPIDEMIC ASF

- SUBCLINICAL SIGNS OR ABSENT
- INCREASED SEROPREVALENCE AND DECREASED PCR-PREVALENCE
- INCREASED RISK OF CARRIERS



ASF clinical evolution
(adapted from ASF EURL)



ASF diagnostic test results evolution
(ASF EURL)

COORDINATED ASF RISK BASED CONTROL STRATEGY IS THE WAY FORWARD

ASF control is in our hands

Salamat

စာတမ်း

အပူအမြင်

ကျေးဇူးတင်ပါသည်



THANK YOU

TERIMA KASIH

Cảm ơn