

# PANORAMA

Thematic portfolio



## African swine fever: responding to the global threat



# PERSPECTIVES

| # DOSSIER

| # AROUND THE WORLD

*Pigs play an important role in the livelihoods of rural and peri-urban populations in South-East Asia, and, in most countries, pork is the most preferred meat.*

## Production systems

Pigs are raised in a variety of settings in South-East Asia, from small family units of scavenging and backyard pigs, to small-to-medium-scale semi-commercial units, and large intensive units. Today, small pig-rearing operations in the back yard with no or limited biosecurity are the predominant practice and the one most vulnerable to disease risks. Pig farming in peri-urban areas is becoming more commercially oriented, and such farms are usually well equipped and managed, with a high level of biosecurity and productivity.

## Trade practices

The pig trade is driven by market demand and price differentials. Traditionally, town traders, including slaughterhouse operators and market sellers, come to villages to purchase pigs to supply local demand. Improved road infrastructure has also facilitated long-distance trade from rural producers to big cities and even overseas markets. However, in most areas, pig movements are difficult to monitor, due to the lack of effective tracing systems, and there are many unregulated movements. Furthermore, [the current spread of African swine fever \(ASF\)](#) dramatically affects the price of pigs and pork, leading to changes in trade and movement patterns, both locally and internationally.

## Challenges facing disease control

The nature of smallholder pig production and movement patterns in South-East Asia have created obstacles to the successful implementation of disease control strategies. Many pig production areas face a lack of resources for disease control, including a shortage of veterinarians. Ineffective tracing and inspection systems also promote disease spread through the movement of live pigs and pig-derived products. Furthermore, fomites, such as contaminated trucks and animal feed, can play a role. Human behaviour is often the underlying cause of disease spread. Improving awareness of disease prevention and control measures among those involved in the pig value chain and promoting good biosecurity practices are essential in achieving a sustainable approach to protect safe pig production and trade. Multidisciplinary teams, involving veterinarians, animal production professionals, socio-economists, and communication officers are needed to explore how human behaviour can be changed to mitigate disease risk. This is particularly important, given the recent introduction and spread of ASF, which is threatening the entire South-East Asian pig industry.

[More information on the pig production system and value chain in South-East Asia](#)

<http://dx.doi.org/10.20506/bull.2020.1.3120>

## PERSPECTIVES

### ► OPINIONS AND STRATEGIES

# The pig value chain in South-East Asia and challenges to disease management

## SUMMARY

There are many challenges confronting pig production and disease control in South-East Asia, including the predominance of smallholder production systems, poor biosecurity practices, and unregulated movements of diseased pigs and their products. Behaviour changes are needed from those in the value chain to ensure that disease management strategies are sustainable.

## KEYWORDS

#African swine fever (ASF), #disease control, #pig production, #South-East Asia, #value chain.

## AUTHORS

Y. Qiu<sup>(1)\*</sup>, L. Weber-Vintzel<sup>(1)</sup> & R. Abila<sup>(1)</sup>

(1) [OIE Sub-Regional Representation for South-East Asia.](#)

\* Corresponding author: [y.qiu@oie.int](mailto:y.qiu@oie.int)



© IFAD/G.M.B.Akash



**The OIE** is an international organisation created in 1924 with a mandate from its 182 Members to improve animal health and welfare. Its activities are permanently supported by 325 centres of scientific expertise and 12 regional offices with a presence on every continent.



Follow the OIE: [www.oie.int](http://www.oie.int)



@OIEAnimalHealth



World Organisation for Animal Health - OIE



OIEVideo



World Organisation for Animal Health



World Organisation for Animal Health (OIE)



Digital version: [www.oiebulletin.com](http://www.oiebulletin.com)



**WORLD ORGANISATION FOR ANIMAL HEALTH**  
*Protecting animals, preserving our future*

12, rue de Prony - 75017 Paris, France  
Tel: +33 (0)1 44 15 18 88 - Fax: +33 (0)1 42 67 09 87 - [oie@oie.int](mailto:oie@oie.int)