



Food and Agriculture Organization
of the United Nations

FAO Animal Health

Protecting people and animals
from disease threats




Value chain analysis

- Identifying risk and designing interventions for ASF -





Roadmap

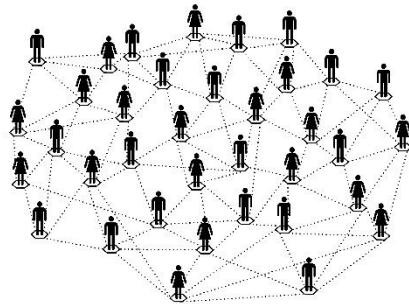
- Why value chain analysis?
 - Two (complementary) approaches
 - Workshop on Regional Livestock Movements and Value Chains (April 2019)
 - Live pig movements
 - Seasonality and value chains
 - Conclusions
- 

Why value chain analysis?

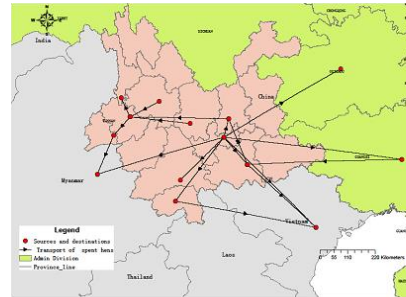
All the relevant stakeholders



Hotspots for disease spread and virus amplification



Trade networks (local, national, international) and high risk zones



Risky practices



VC ARE NOT MECHANISTIC
Individual and social drivers for animal movements



RISK

What?

Where?

How much?

Why?

When?

How?

Two (complementary) approaches

Parameters	Expert opinion approach	Field investigation approach
Geographical scope	<ul style="list-style-type: none"> - Global - Regional - Country level 	<ul style="list-style-type: none"> - Provincial - District level
Objectives	<ul style="list-style-type: none"> - Overview of the value chain - Identifying information gaps - Regional/Global analyses 	<ul style="list-style-type: none"> - Designing risk-based surveillance - Risk mitigation interventions
Financial resources	Requires limited financial resources	Requires substantial financial resources
Human resources	<ul style="list-style-type: none"> - Workshop facilitators - Value chain expert 	<ul style="list-style-type: none"> - Field investigation team (local language) - Coordinator - Value chain expert
Time required per commodity	2 - 5 days	3 months – 1 year
Expertise required	<ul style="list-style-type: none"> - Facilitation skills - Analytical skills 	<ul style="list-style-type: none"> - Field data collection skills - Data management skills - Analytical skills
Example	Live pig value chain in country X to identify areas at high risk of disease Y introduction	Live pig value chain in high-production province Z, to identify sites to collect samples for active surveillance and design a centralized slaughtering programme

Workshop on Regional Livestock Movements and Value Chains (April 2019)



Cambodia

China (Yunnan & Guangxi)

Lao PDR

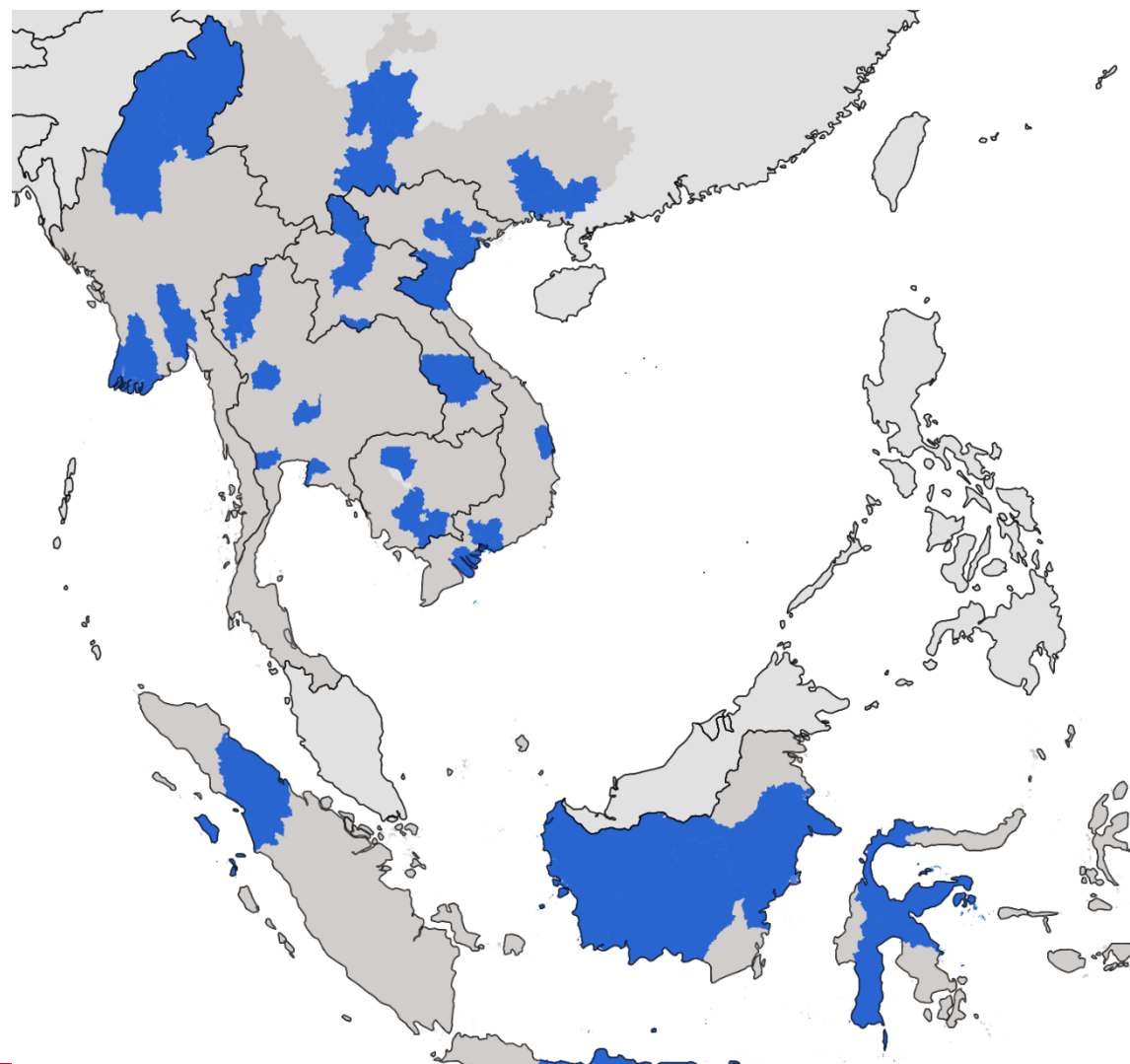
Myanmar

Thailand

Vietnam

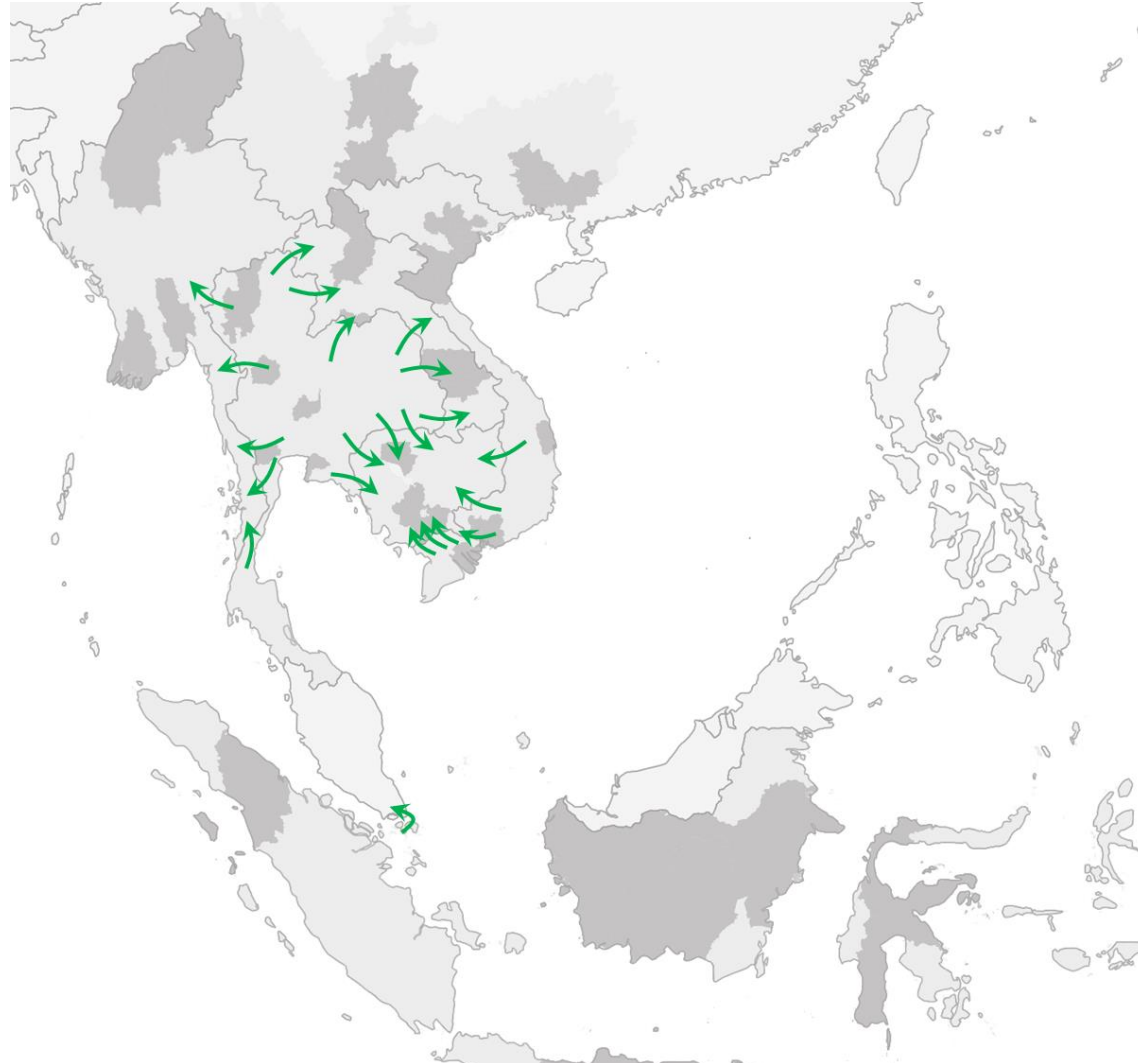
Indonesia

Workshop on Regional Livestock Movements and Value Chains (April 2019)



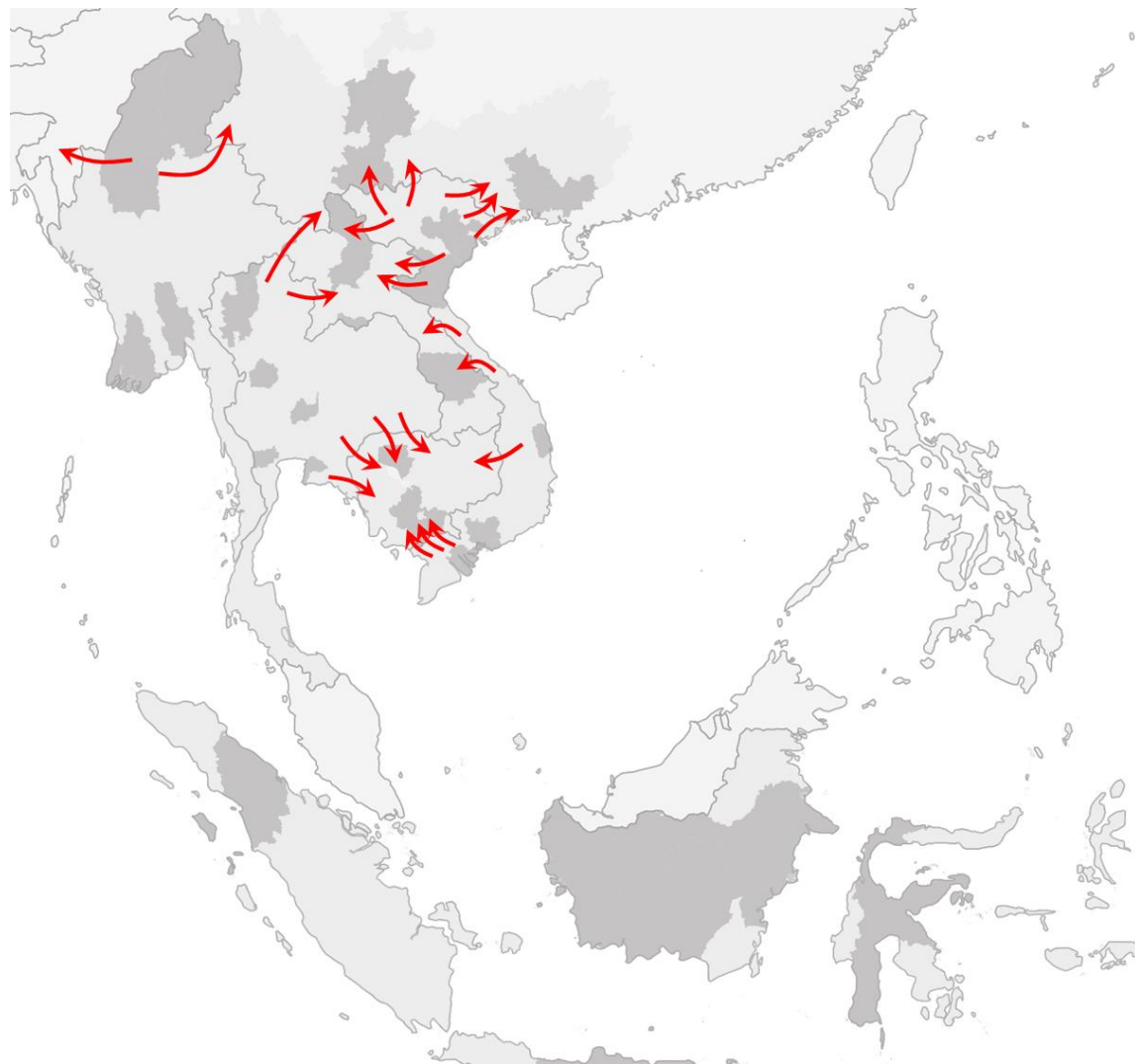
Main pig production areas

Workshop on Regional Livestock Movements and Value Chains (April 2019)



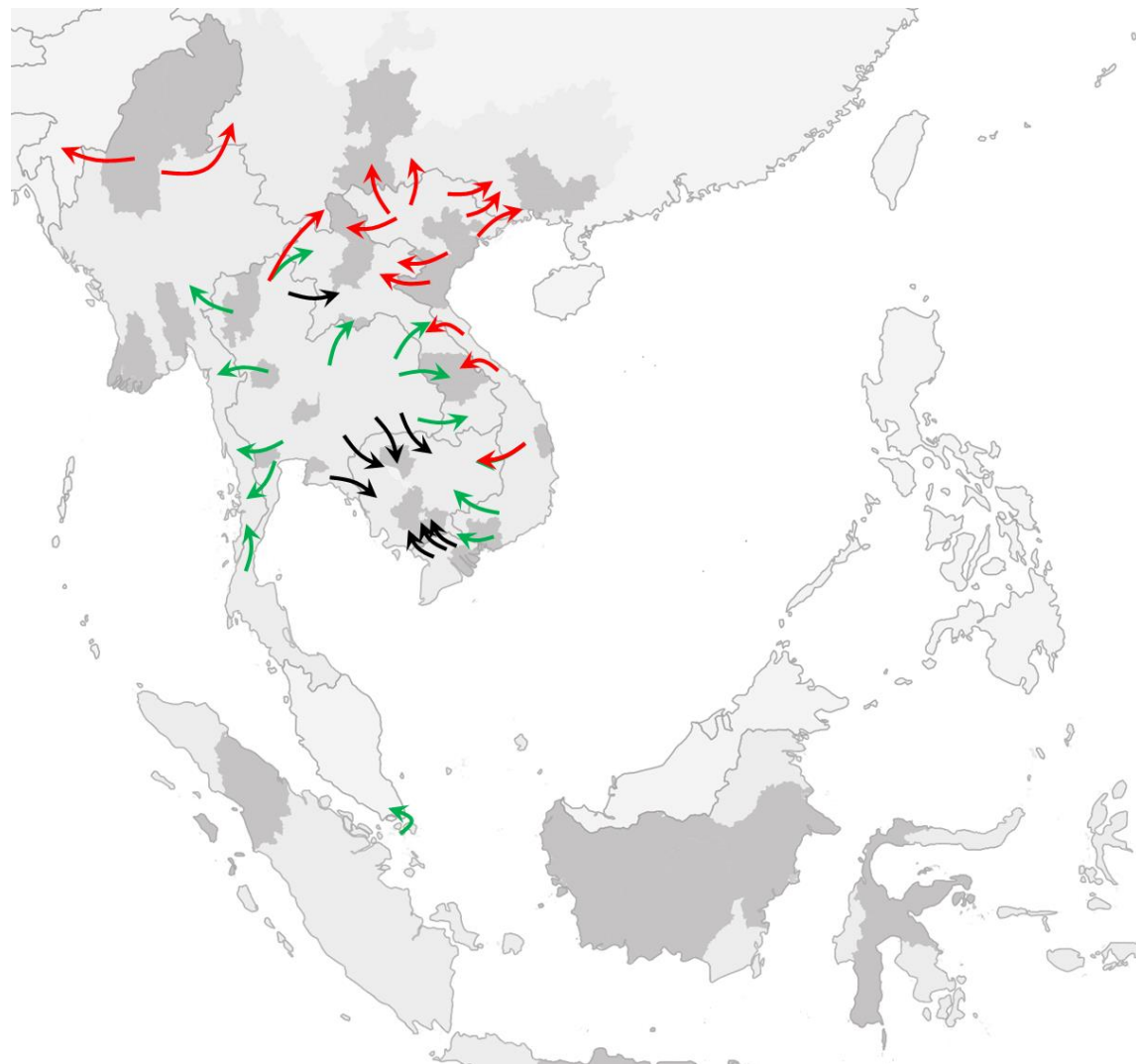
Official movements
(young and adult pigs)

Workshop on Regional Livestock Movements and Value Chains (April 2019)



Unofficial movements
(young and adult pigs)

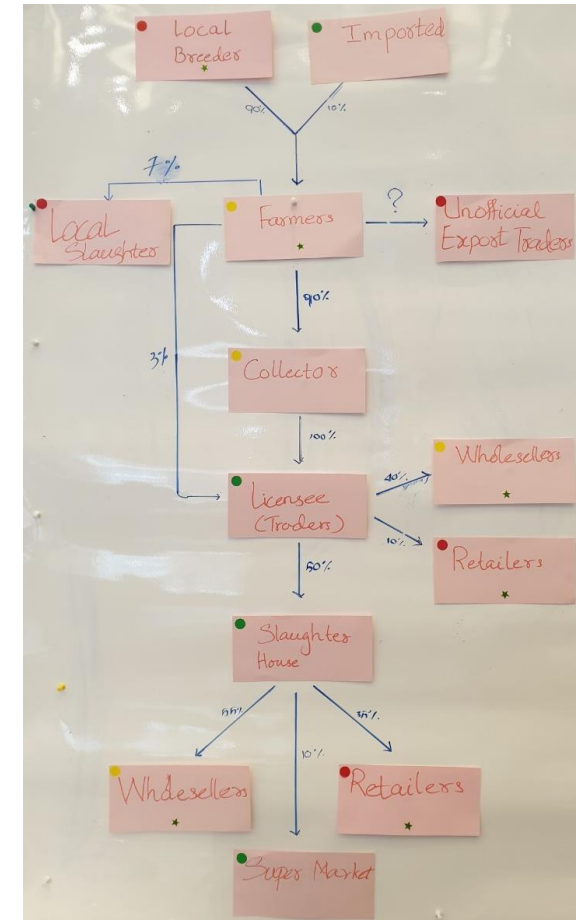
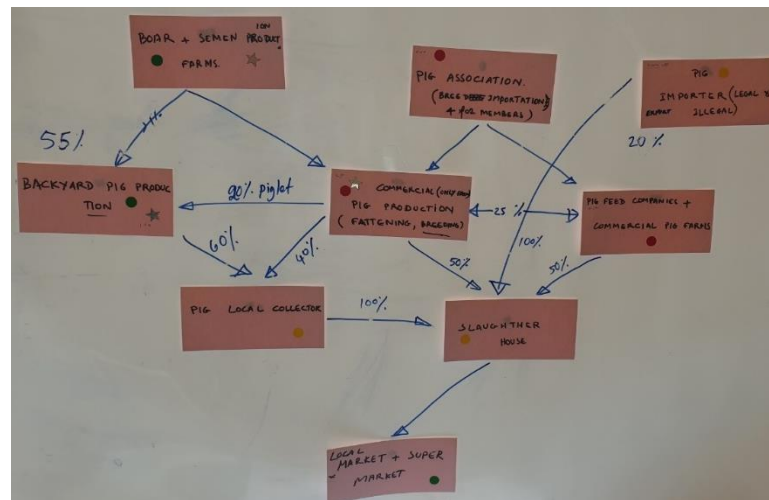
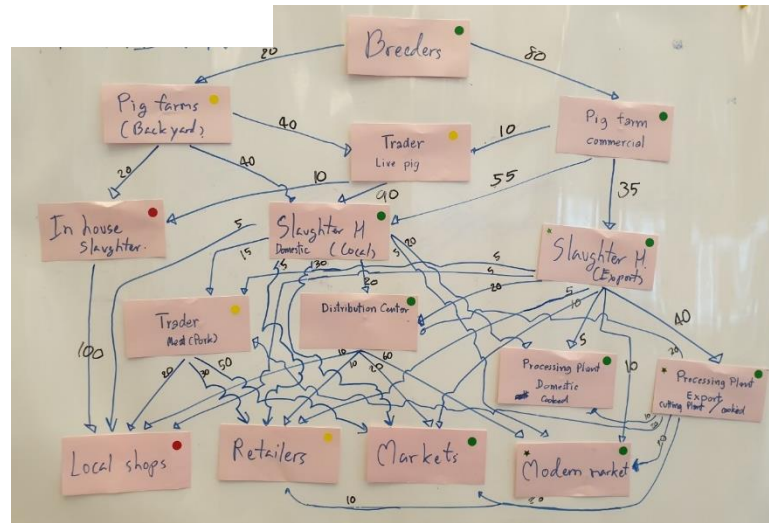
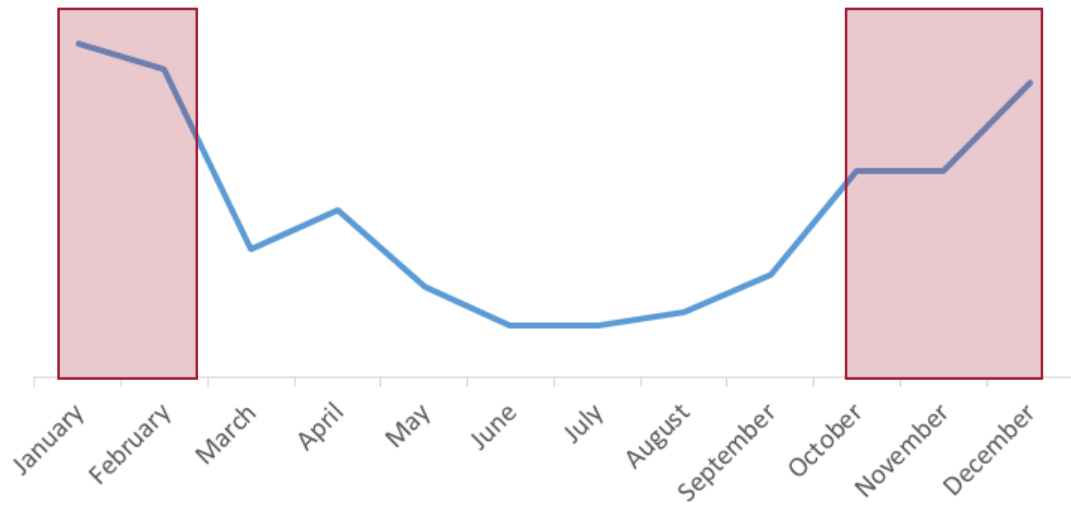
Workshop on Regional Livestock Movements and Value Chains (April 2019)



Official and unofficial
movements
(young and adult pigs)

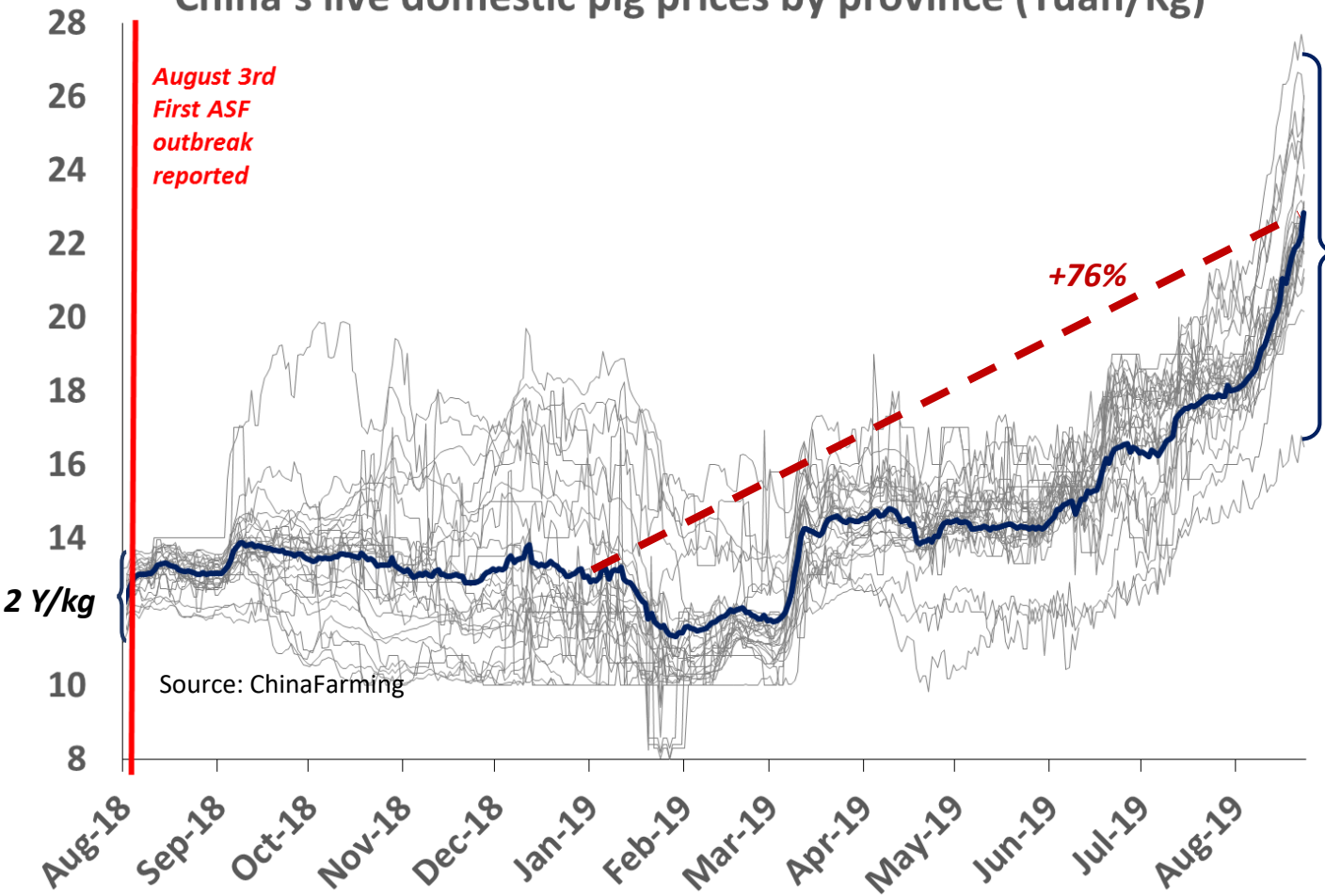
Workshop on Regional Livestock Movements and Value Chains (April 2019)

Pig trade seasonality

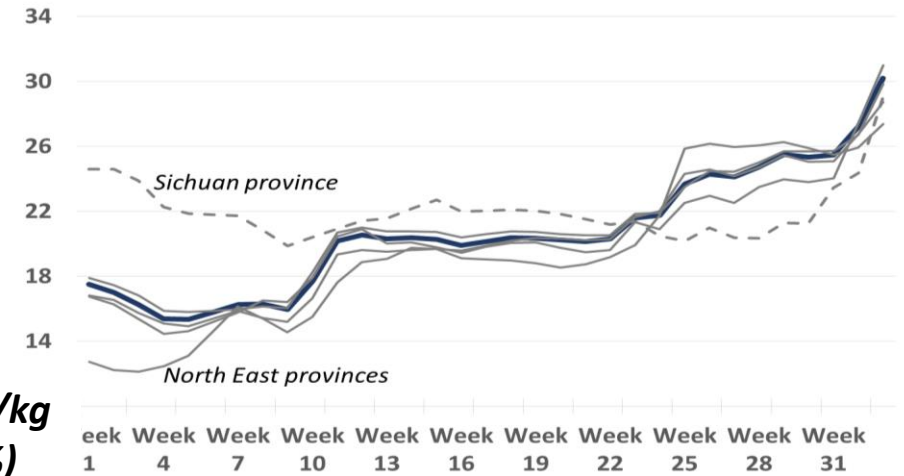


Market disruptions

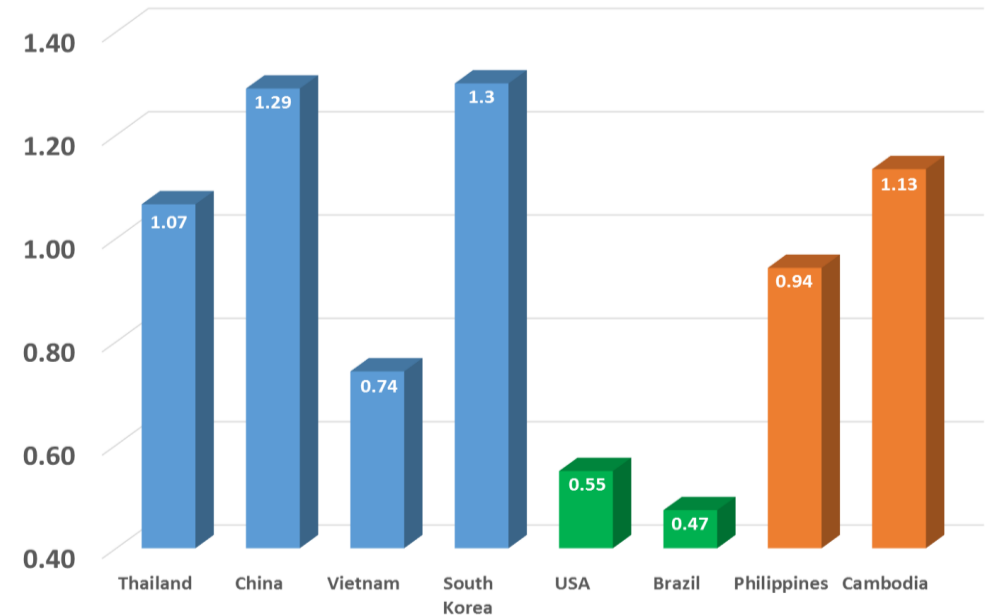
China's live domestic pig prices by province (Yuan/Kg)



China's pork wholesale prices by region in 2019 (Yuan/Kg)

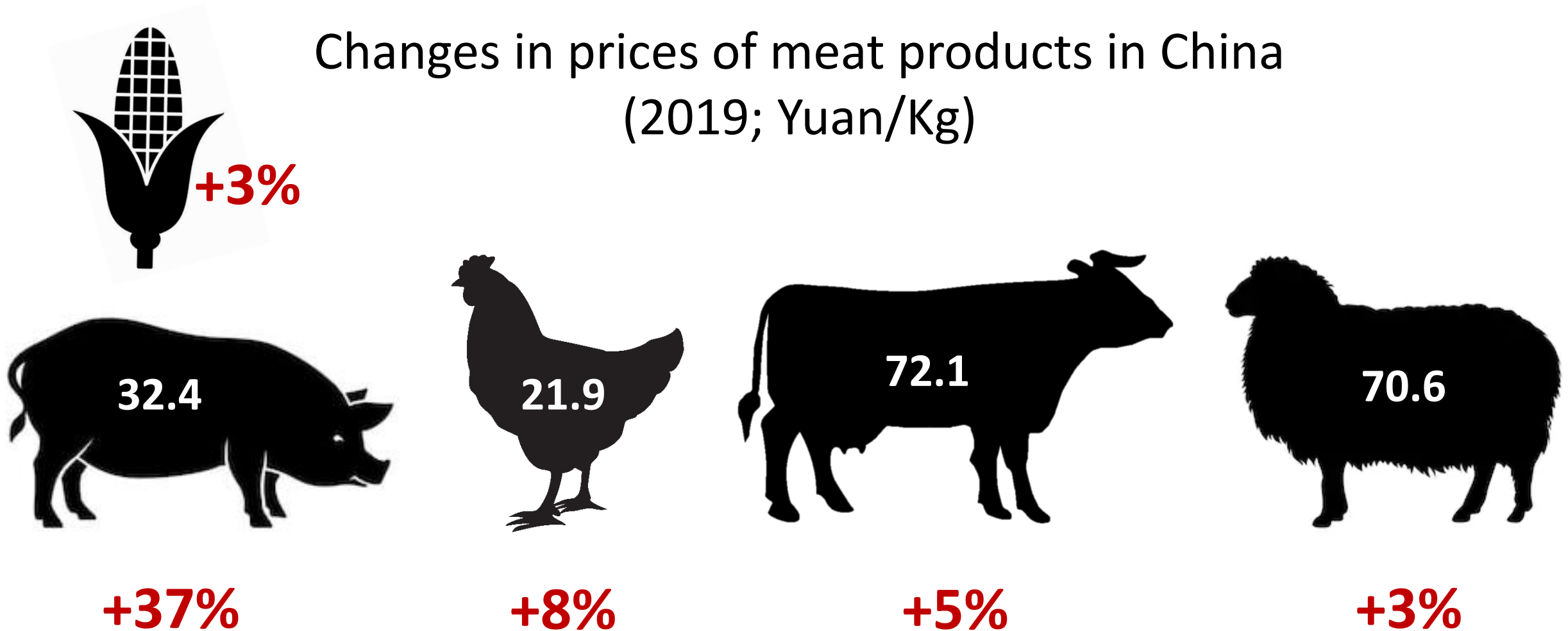


Live pig prices (8th Aug 2019; USD per lwb)



* As of 23 Aug 2019

Market disruptions - spillovers

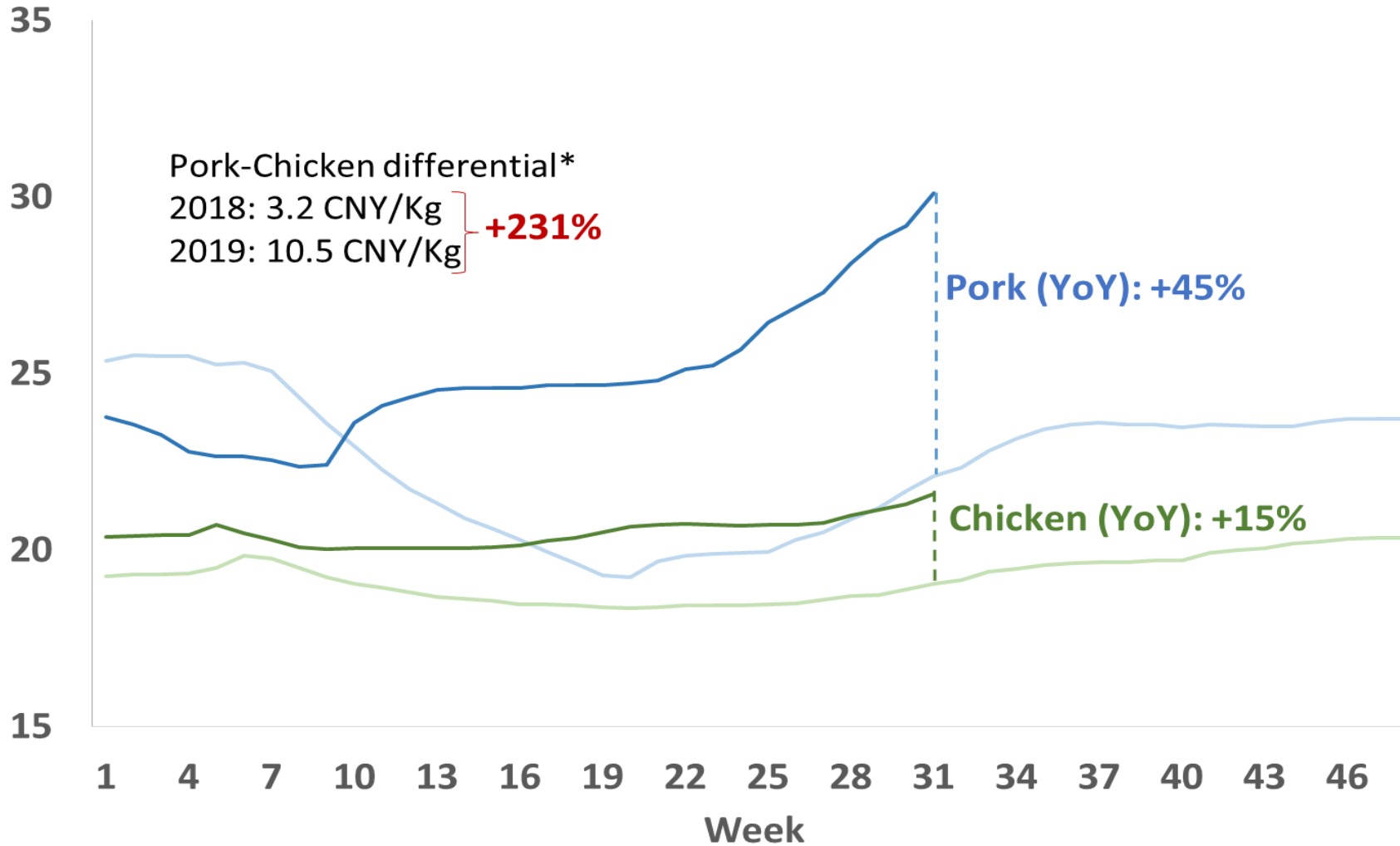


As of 2nd week of Aug 2019

Source: MARA (Price survey at 500 sentinel markets)

Market disruptions - spillovers

Market prices 2018 vs 2019 (CNY/Kg)



Re-stocking costs on the rise (YoY)

+83%

+52%

* As of 2nd week of August



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