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# Swine industry profile and swine disease status in China

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**Zhou Zhi**

**National Veterinary Diagnostic Center  
China Animal Disease Control Center  
National/OIE Reference Laboratory for PRRS**



# OUTLINE



**Swine industry profile**

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**Swine disease situation**

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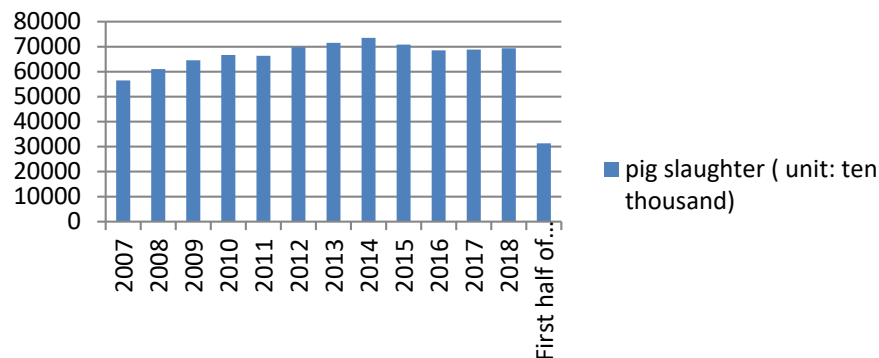
**Swine disease control measures**

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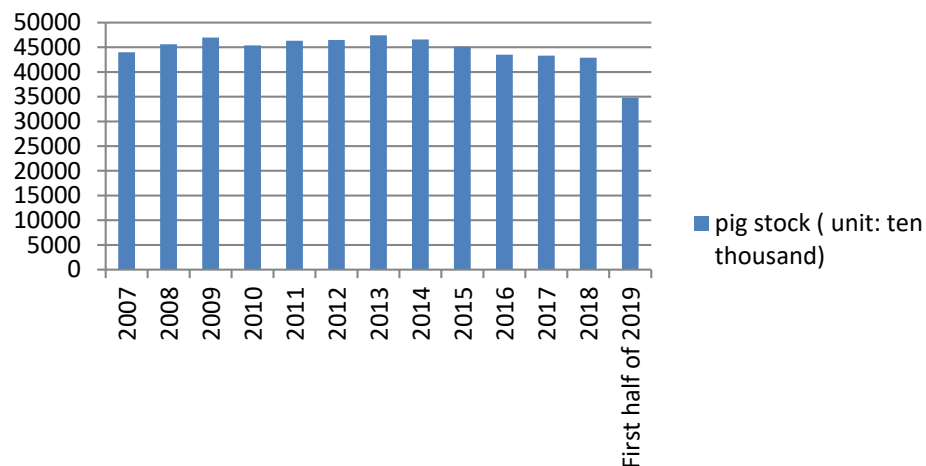


# Swine industry profile in China

pig slaughter ( unit: ten thousand)



pig stock ( unit: ten thousand)

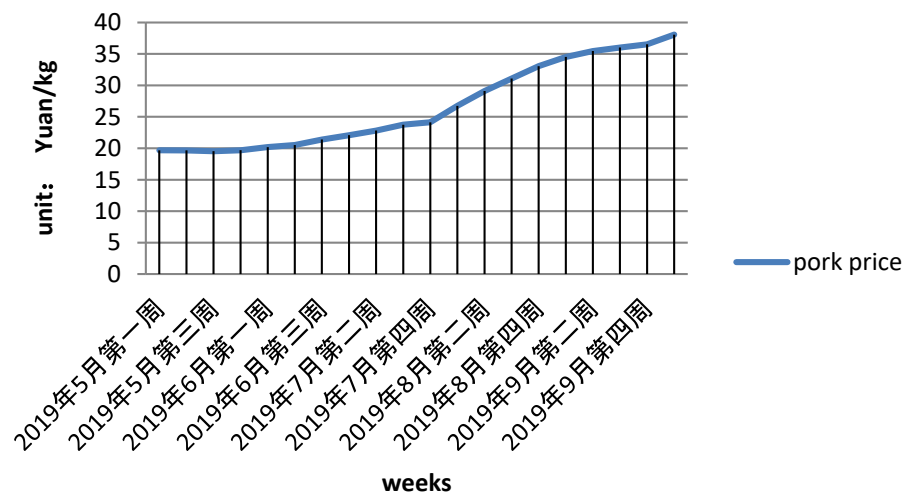
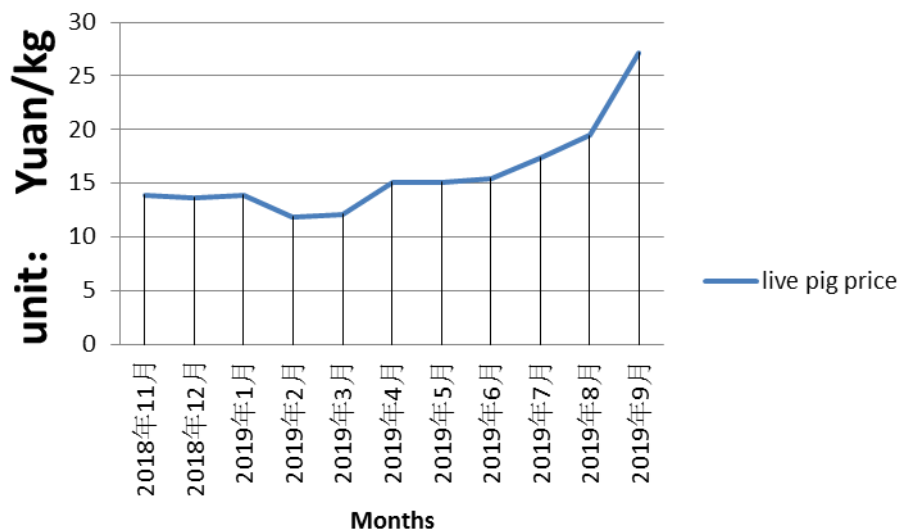


**China is the first pork production and consumption in the world, the pig industry is the mainstay of livestock industry.**

According to the National Bureau of Statistics, 313 million pigs were slaughtered in the first half of 2019, **6.2% lower than previous year.**

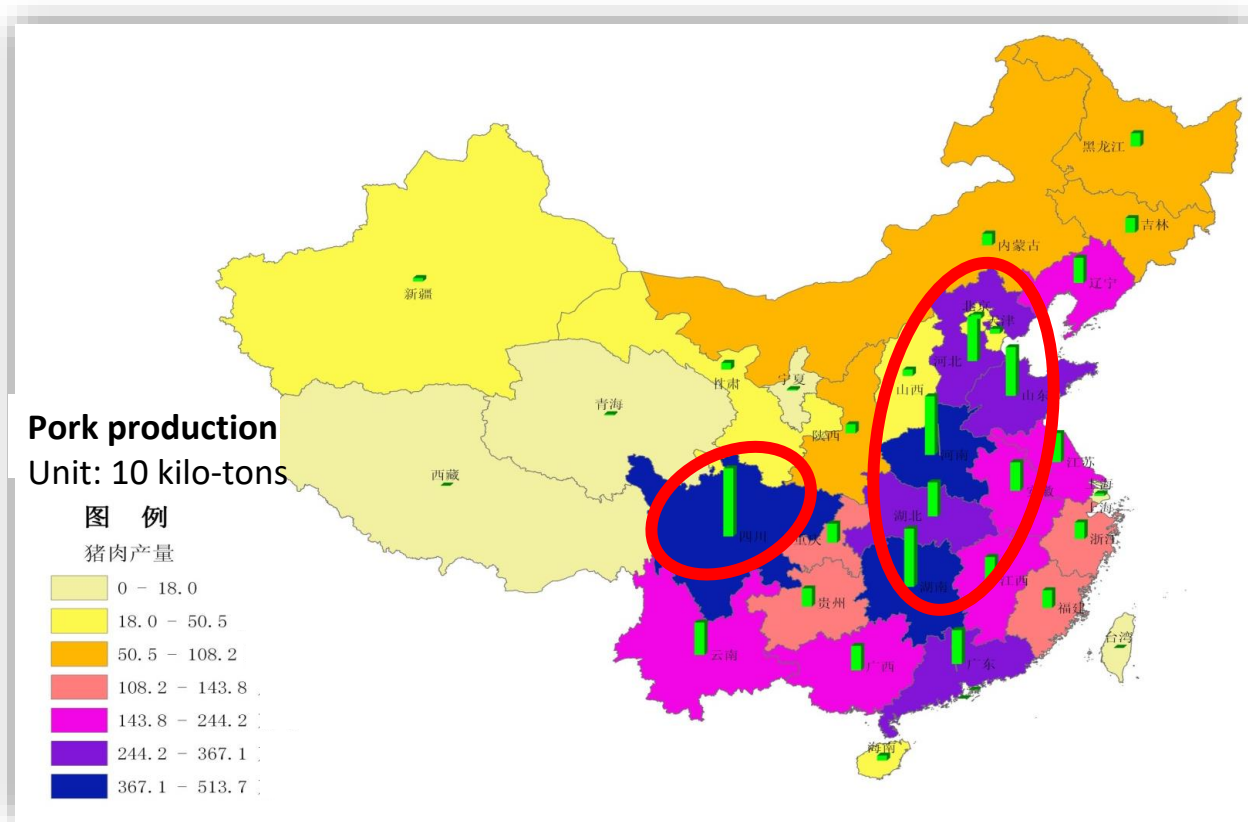
The number of live pigs in stock was 348 million, **15.0% lower than previous year.**

# Swine industry profile in China



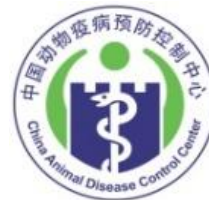
According to the China pig network Statistics, Pig price fastly rise in 2019 . There are three main reasons for the rise in pork prices: Firstly, The ASFV outbreak, The number of live pigs in and out of the market decreased. Second, some areas of pig breeding ban, limit raising, Small-scale farmers reduced. The third is the "pig cycle", pig stock and slaughter decrease, and lead to meat prices rise.

# Swine industry profile in China



## Distribution of **Pork Production** in China

Pigs are mainly raised in central and southern China. In recently years, some the large modern companies in the northeast, Inner Mongolia and northwest developed the pig breeding. And swine breeding model coexist large scale farms, middle and backyard. Different pig farm scales and different managements also lead to the complexity of prevention and control diseases.



# **Major Swine disease situation in China**



# Main diseases of pig herds in China

## ➤ **Viral diseases:**

- **Africa swine fever (ASF)**
- **Porcine reproductive and respiratory syndrome (blue ear disease)(PRRS)**
- **Classical swine fever(CSF)**
- **Porcine pseudorabies(PR)**
- **Porcine epidemic diarrhea (PED)**
- **Porcine circovirus(PCV)**

## ➤ **Bacterial diseases:**

- **Haemophilus parasuis disease**
- **Contagious pleuropneumonia**
- **Eperythrozoonosis**

## ➤ **Parasites:**

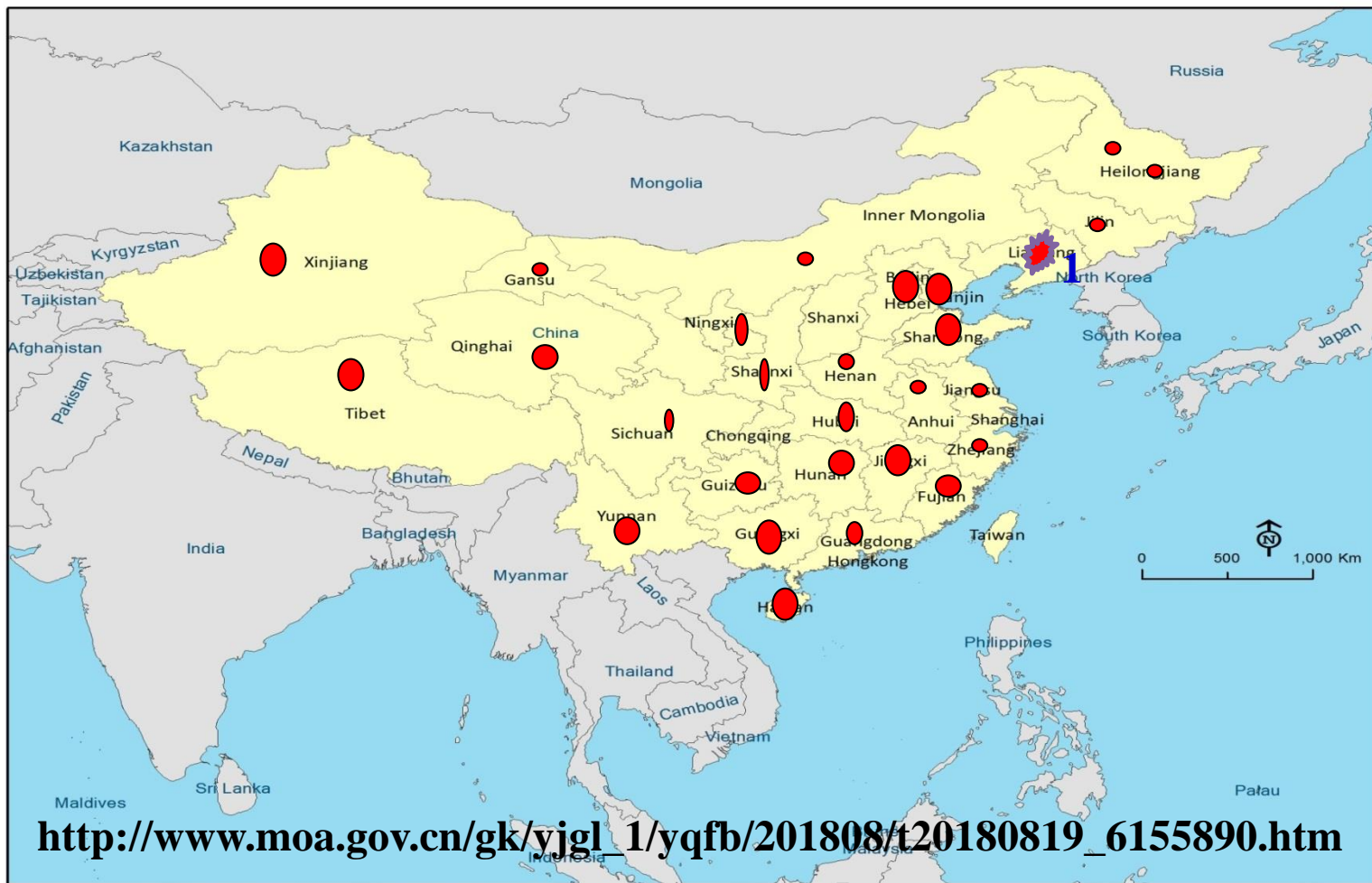
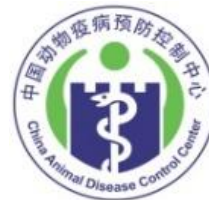
- **Toxoplasmosis**

# ASF in China





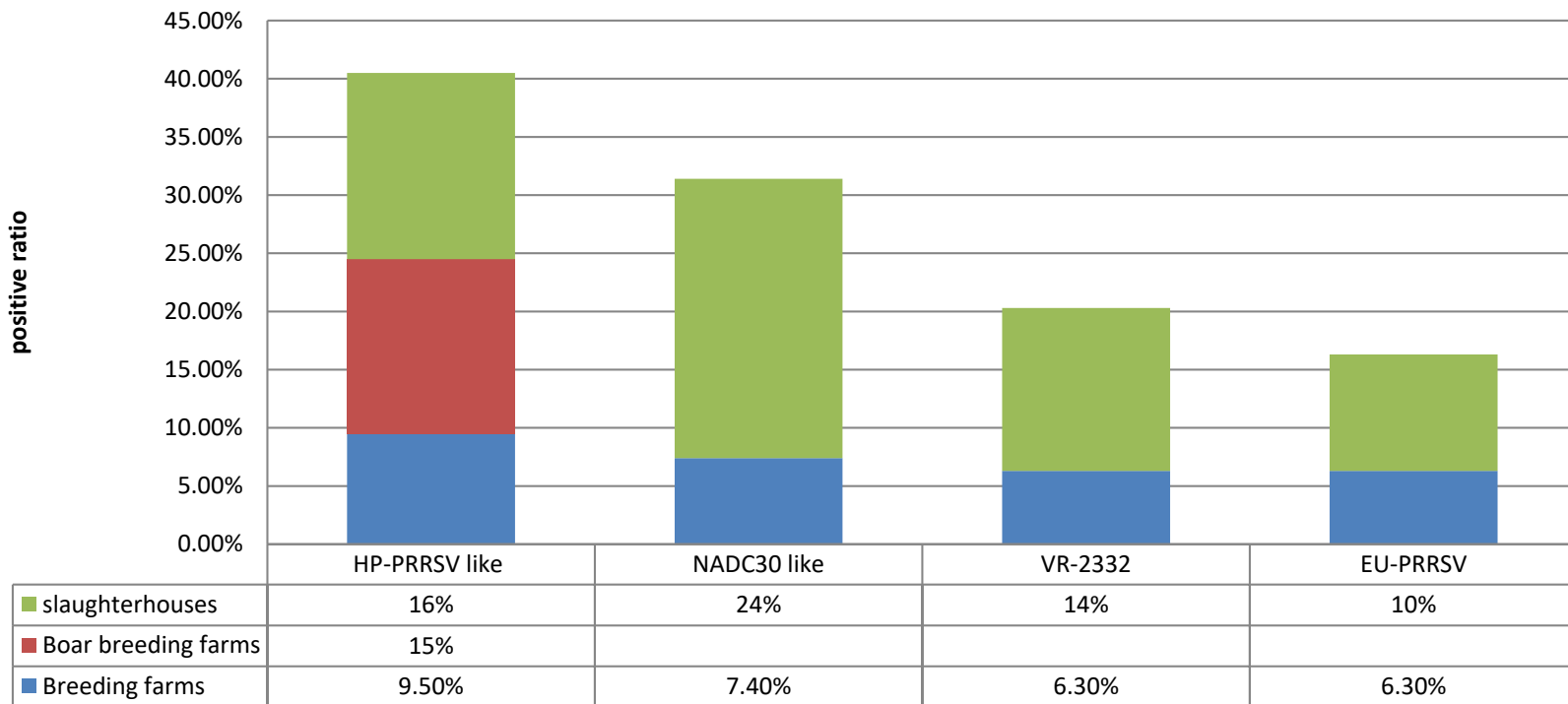
# ASF in China



- 158 reported cases in 31 provinces in China from 2018 to 2019. Among 153 cases in pigs, and 4 cases in Wild boar. Sick pigs 19493, death pigs 13252, death and culling pigs 112.76 ten thousands. From January to October 2019, there are 58 report cases, especially , Since August, 8 cases were reported , we think the epidemic of African swine fever in China is gradually become stable.

# Epidemic Situation of PRRS

**Results of different genotypes in breeding farms, boar breeding farms and slaughterhouses in 2018**

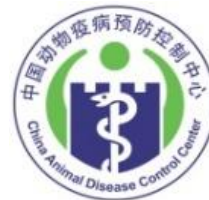


- PRRSV is still major swine disease, especially NADC30-Like infection in swine herds.

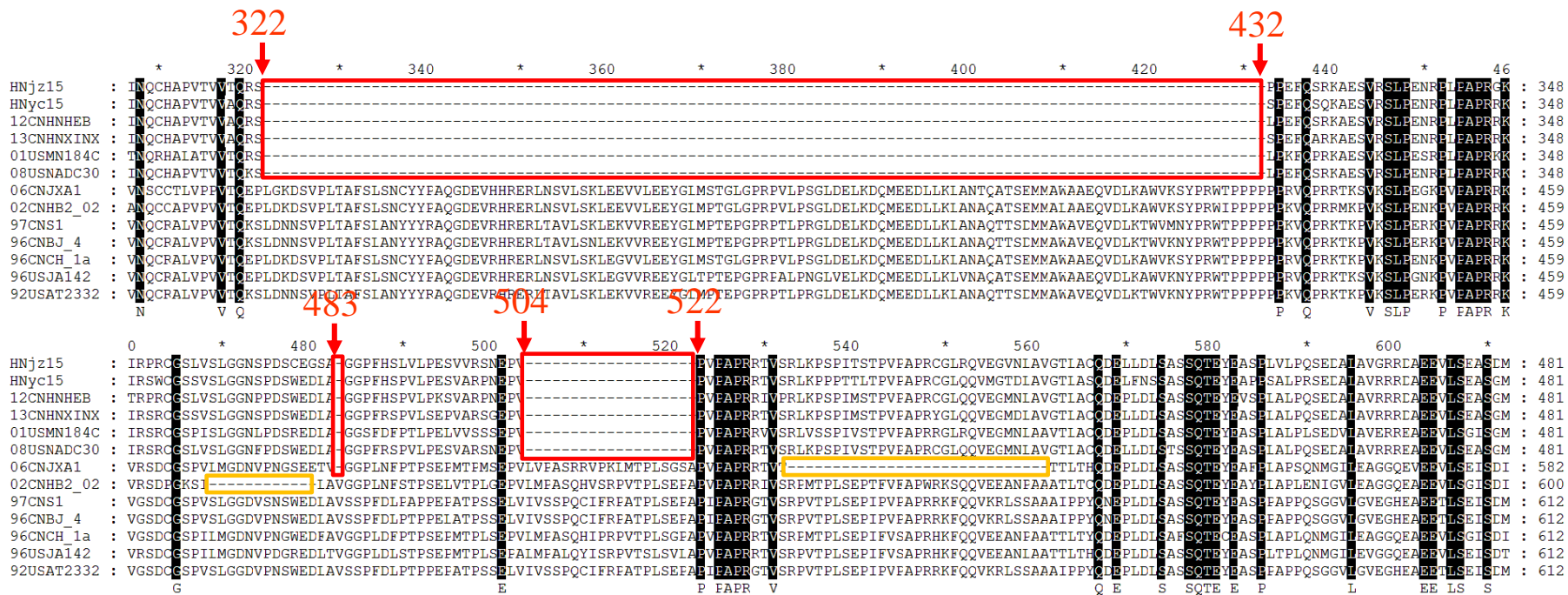
# Like-NADC30 in China (2012-2018)



 **Like-NADC30 PRRSV**



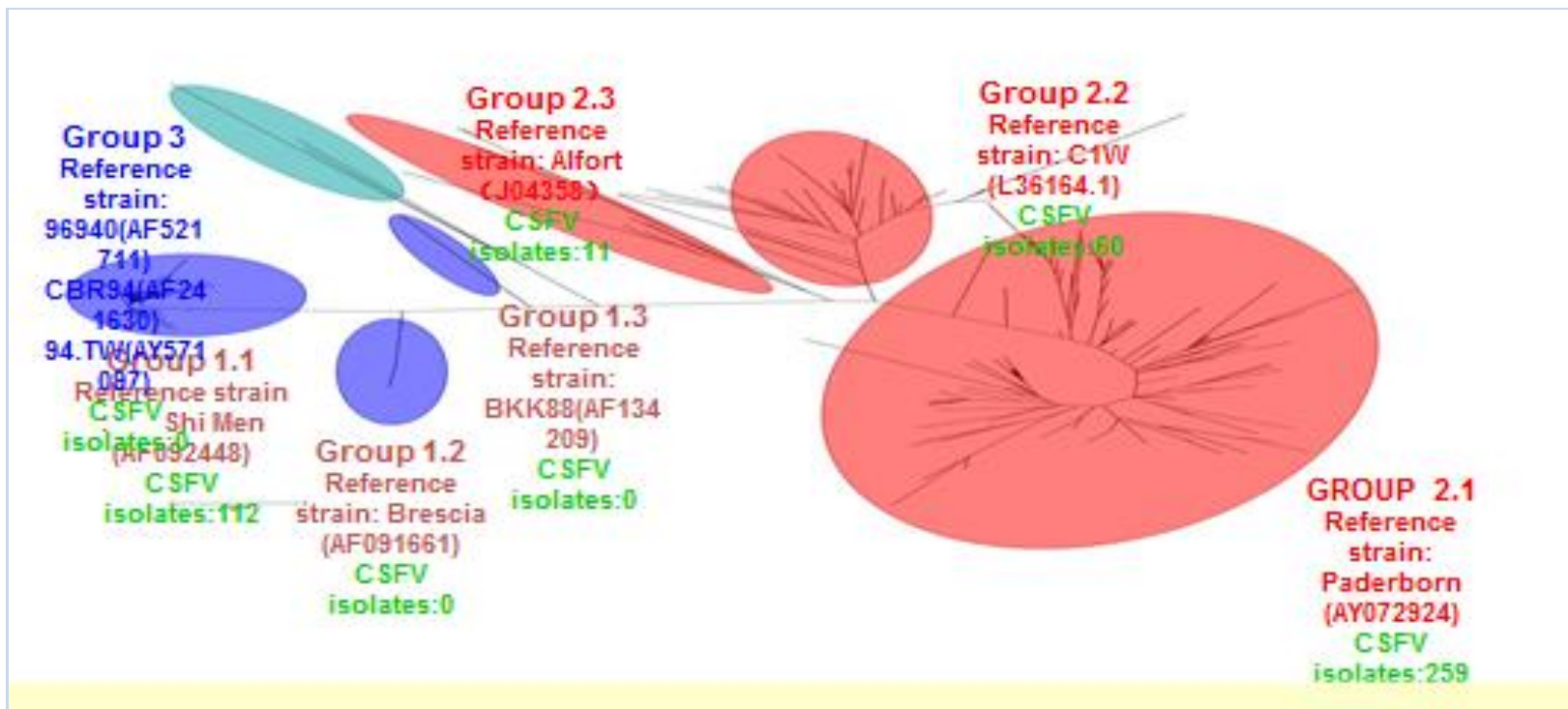
# Like-NADC30 PRRSV genetic mutation



The new PRRSV strains were isolated from Chinese swine herds more than 22 provinces in China. **131AA** discontinuous deletions were observed in Nsp2 of PRRSV, they were named like-NADC30. they shared 93.6%-97% homology with 08USNADC30, a representative strain of NADC30. Commercial vaccines show inadequate protection

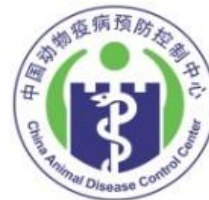


# CSFV epidemic situation



CSF is still present in most provinces and regions of China. Its occurrences are endemic and sporadic.

The phylogenetic tree showed that all Chinese isolates belong to group 1 and group 2, while no group 3 isolate was identified. Further analysis indicated these isolates were divided into different subgroups.



# Major control measures

# Swine disease control measures in China

## Laws, regulations, plans, rules and norms

### Laws

**Law on Animal Disease Prevention and Control**  
**Law on Entry and Exit Animal and Plant Quarantine**

### Regulations Contingency Plans

**Regulations on Emergency Response to Major Animal Diseases**  
**Contingency Plan for Major Animal Disease**

### Rules

**Measures for Examination of Conditions for Animal Disease Prevention and Control**  
**Measures for Administration of Animal Disease Inspection**

### Norms

**Technical Norms for Prevention and Control Animal Disease, e.g. AI and FMD**



# Swine disease control measures in China

- **Promulgated National Medium and Long-Term Program for Animal Diseases Control (2012-2020)**

- **2019**





# 2018

The general office of the Ministry of Agriculture and Rural Affairs (MARA) of the People's Republic of China has issued an urgent notice on the prevention and control of ASF

Notice of the strengthening biosafety management of animal pathogenic microbiology laboratories of MARA

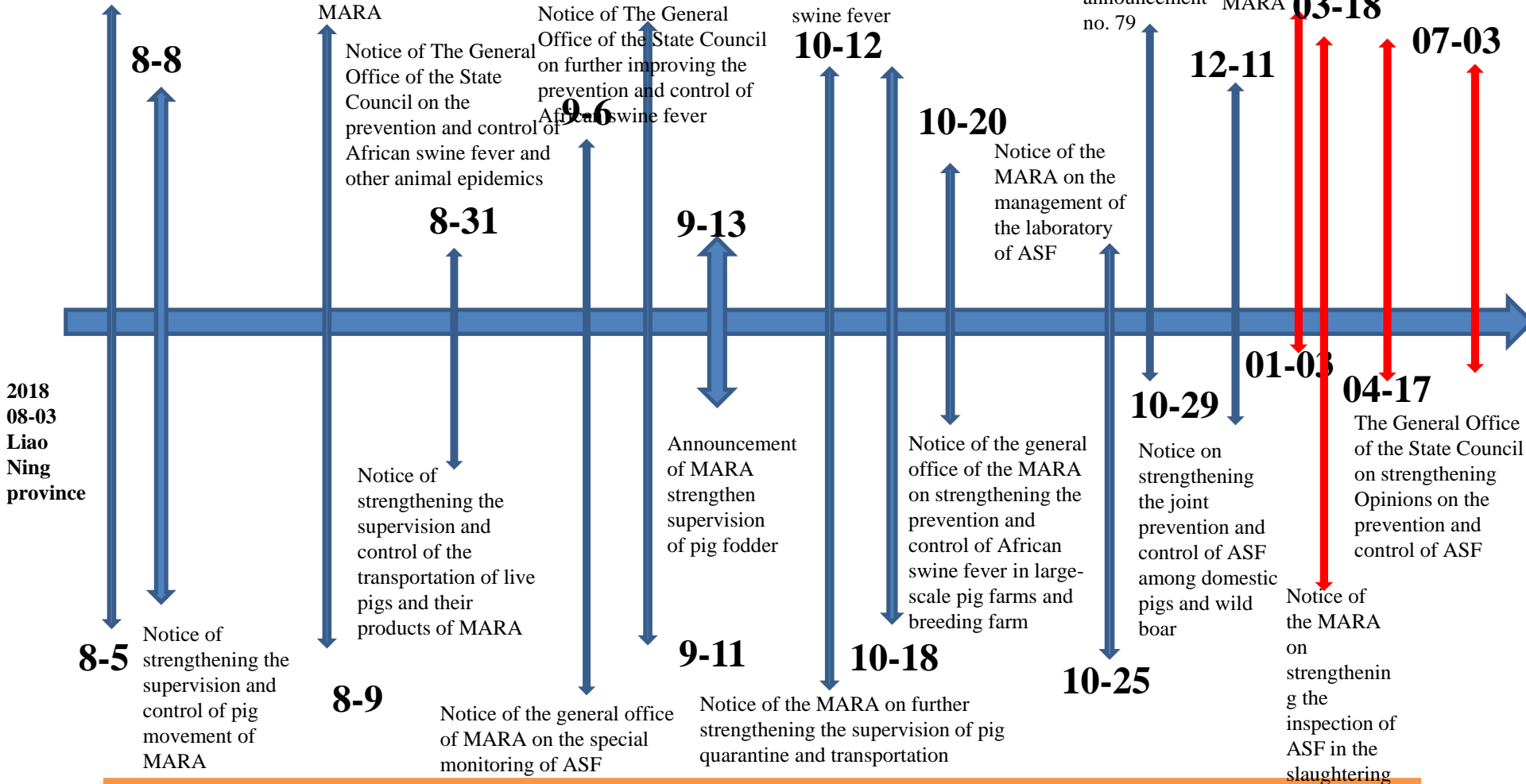
Notice of the MARA on further strengthening the supervision of trans-provincial transportation of pigs and their products

Notice of The General Office of the State Council on further improving the prevention and control of African swine fever

Strengthening supervision of pig transport vehicles MARA, announcement no. 79

Testing ASF was carried out in pig slaughtering and pig product circulation Announcement no. 119 of MARA

Notice of the MARA on strengthening the investigation of the epidemic situation of ASF in the breeding farm



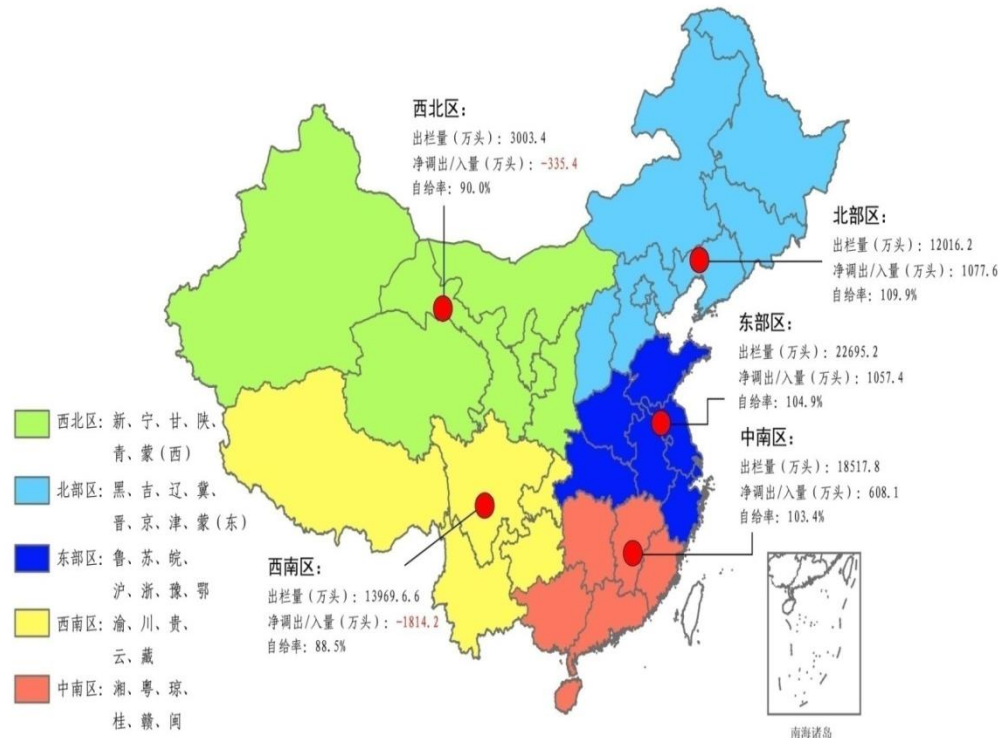
Joint FAO/OIE Workshop on Swine Disease Control in Asia

Notice, Announcement, Document were issued

# 2019

# Regional prevention and control

## Schematic diagram of prevention and control of African swine fever in China



Compiling 《Regional prevention and control plan for African swine fever and other major animal epidemics (draft for comments)》, carry out regional prevention and control measures



**Thank You !**