

Member update on PPR – Republic of Korea

Yeun-Kyung Shin

Foreign Animal Disease Division
Animal and Plant Quarantine Agency

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Qingdao, P. R. China



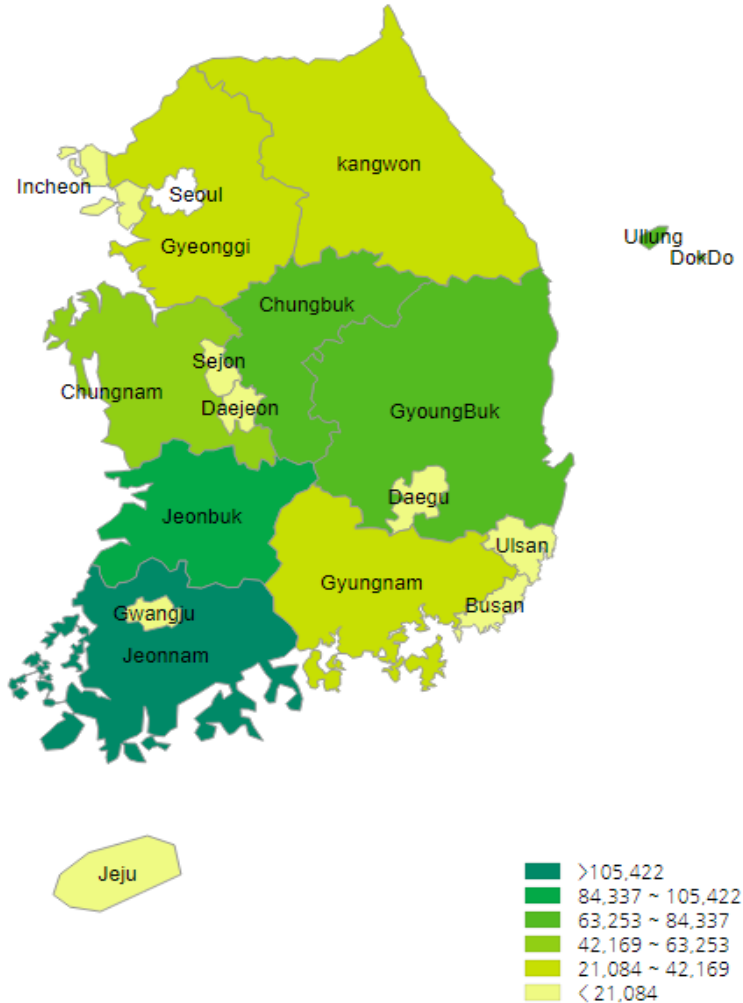
World Organisation
for Animal Health
Founded as OIE

- Small ruminants population**

	23.1Q			22.1Q		
	No. farms	No. animals	Average per farm	No. farms	No. animals	Average per farm
Goat	12,233	471,783	38.5	12,746	529,957	42.5
Sheep	132	2,862	21.7	119	4,198	35.3
Total	12,365	474,645		12,865	534,155	



• Small ruminants population



> 2022

regional total number(Goat,Sheep)	2022
Jeonnam	126,506
Jeonbuk	92,817
Kyungbuk	76,412
Chungbuk	68,450
Chungnam	47,269
Gyungnam	41,362
Gyounggi	30,633
Gangwon	29,022
Jeju	8,066
Ulsan	4,152
Incheon	1,919
Sejong'	1,829
Daejeon	1,781
Daegu	1,568
Gwangju	1,295
pusan	1,074

> 2021

regional total number(Goat,sheep)	2021
전라남도	129,237
전라북도	94,012
경상북도	83,946
충청북도	70,818
충청남도	48,709
경상남도	43,762
경기도	33,110
강원도	28,822
제주특별자치도	8,676
울산광역시	4,273
인천광역시	2,397
세종특별자치시	1,829
대전광역시	1,817
대구광역시	1,357
광주광역시	1,356
부산광역시	1,150

<Data: <http://uni.agrix.go.kr/>>

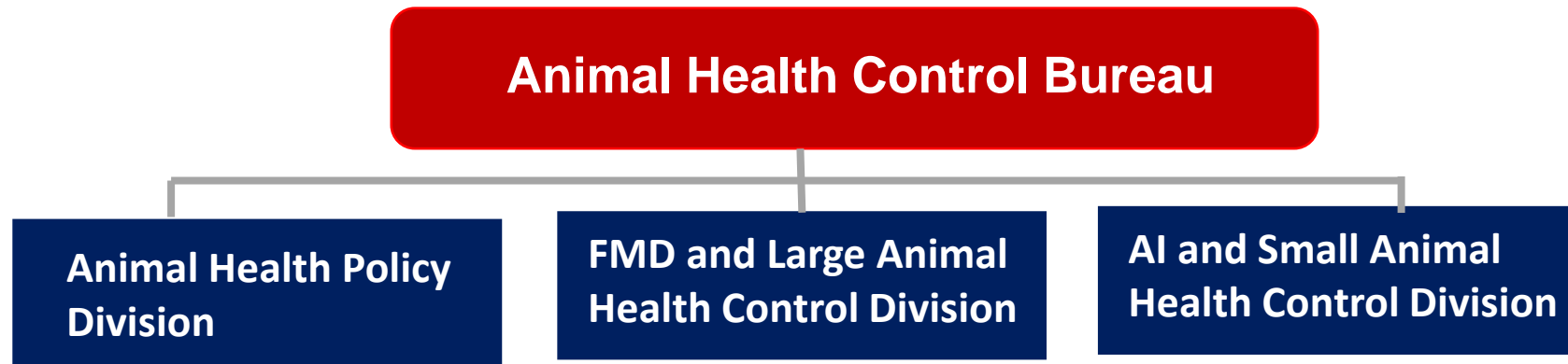
Laws and regulations for animal disease prevention and control system

- 4 laws, 16 regulations, and 7 guidelines

- ACT ON THE PREVENTION OF CONTAGIOUS ANIMAL DISEASES
- ACT ON PUBLIC QUARANTINE VETERINARIANS
- VETERINARIANS ACT
- VETERINARY SERVICES LABORATORIES ACT

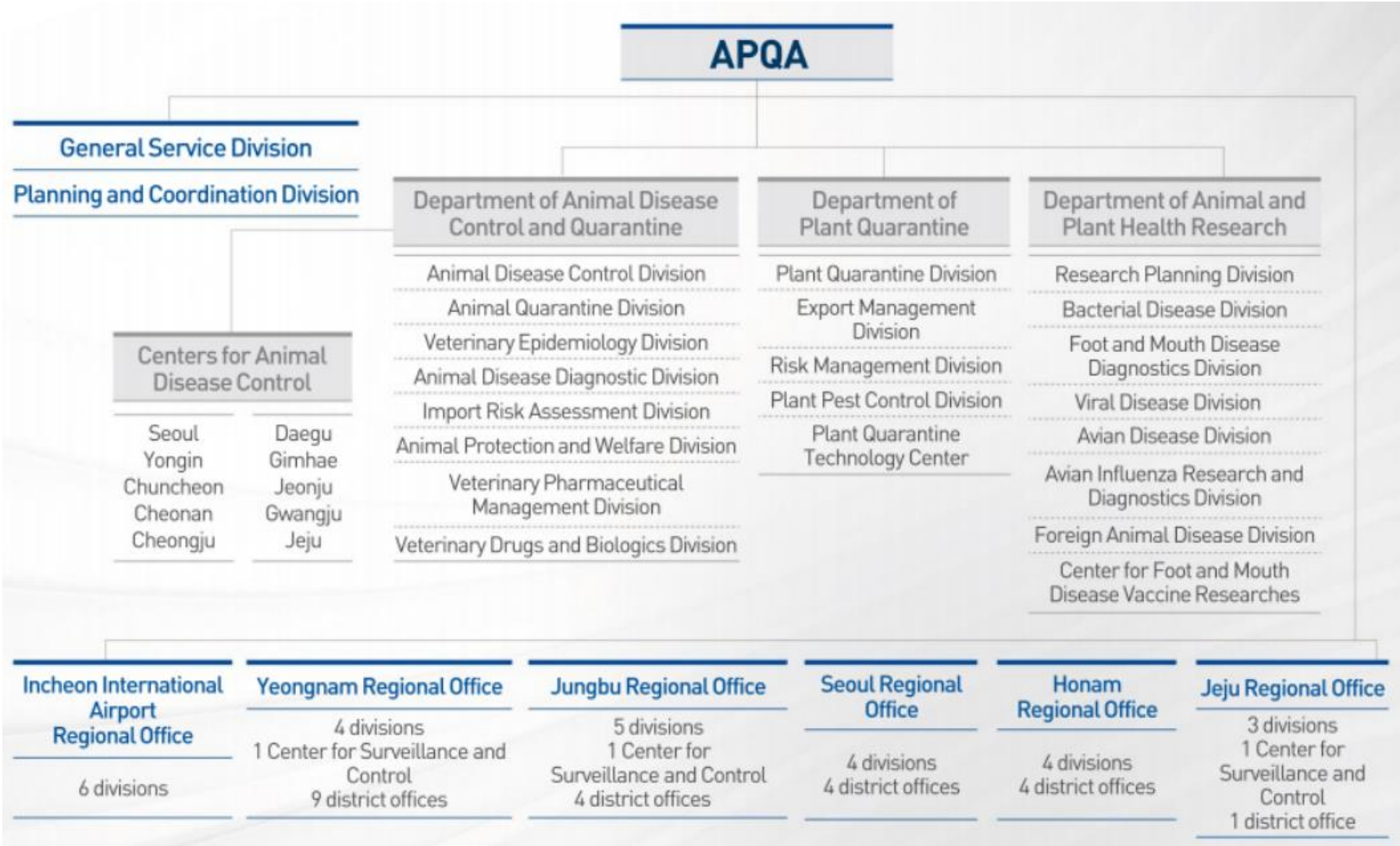
Central government : Policy support and command

- Ministry of agriculture, food and rural affairs (MAFRA)



- Budget (Year 2023) – \$ 487 million
 - Animal disease control : \$ 387 million
 - Compensation of culling, slaughtering : S 50 million
 - Support for livestock health control agency : \$ 50 million

• **Animal and Plant Quarantine Agency (APQA)**



APQA provides

- Technical expertise/input;
- Consultation services
- Deployment of experts;
- Epidemiological investigation
- Laboratory diagnostics;
- Confirmatory testing

Provincial government

- Prevention, Surveillance, On-site work, compensation payment, Lab tests

- Provincial government (city, province, county) 234 places
- Provincial government veterinary laboratory – 57 laboratories (9~10 staff)

Private organizations

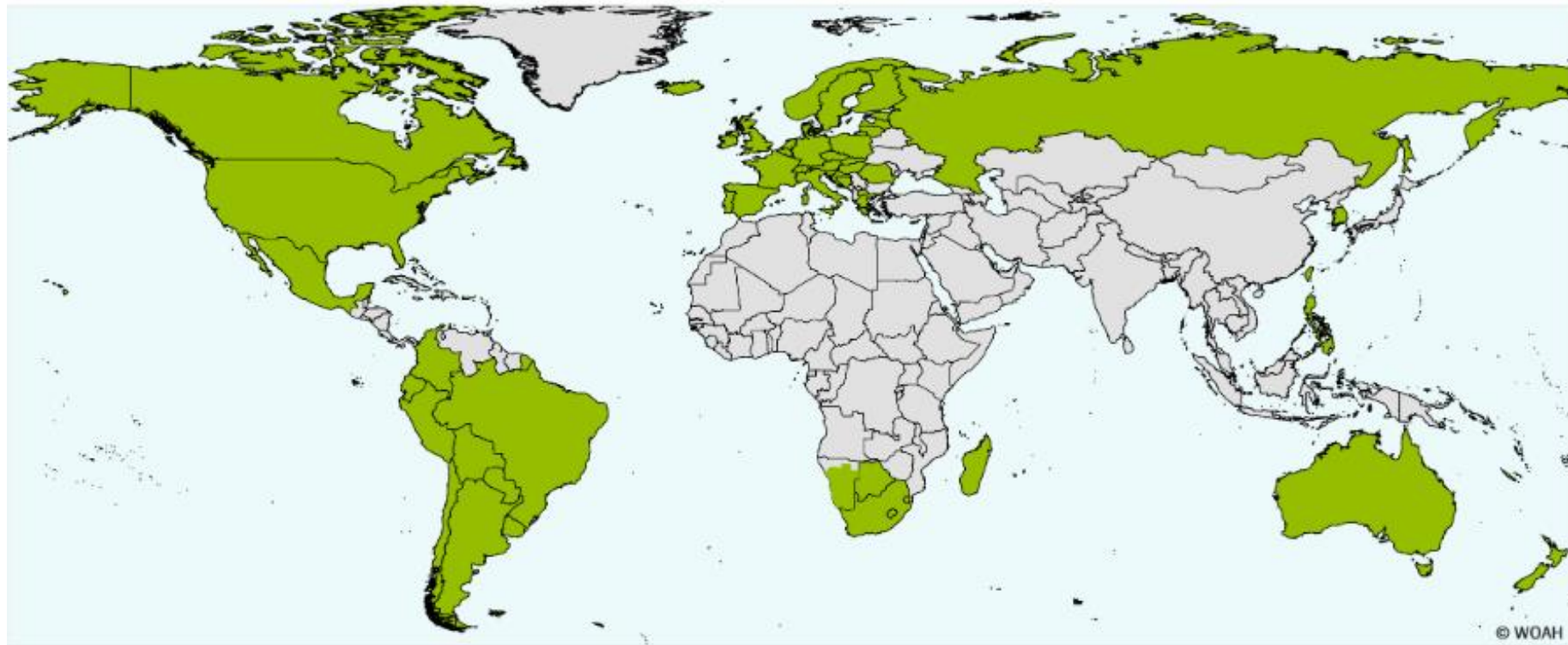
- Livestock Health Control Agency (333) : Early response, movement control, sample collection
- National Agricultural Cooperative Federation (NACF) (680) : vaccine supply, disinfection activities



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- **Risk pathways for PPR introduction in the Republic of Korea (hereafter Korea)**
 - **Potential inflow of the disease from neighboring countries**
 - * ASF was also introduced to Korea from abroad in 2019, despite not being present in the country before.

- Korea is free from PPR

WOAH Members' official peste des petits ruminants status map

Last update May 2023



-  Members and zone recognised as free from PPR
-  Countries and zone without an official status for PPR

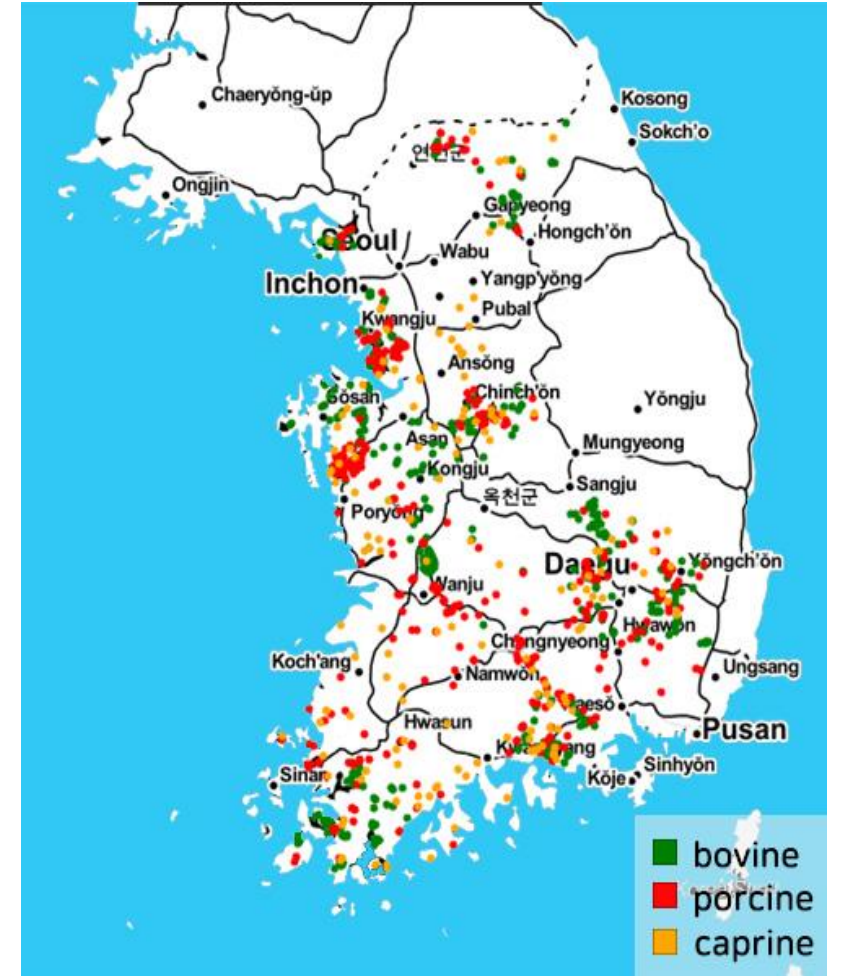


- **Virus detection**
 - Realtime PCR : N gene (Batten, 2011)
- **Realtime PCR : N gene + H gene (APQA 2023)**
 - Virus isolation
 - Whole genome sequencing
- **Antibody detection**
 - ELISA (ID-Vet)
 - Virus neutralization

- Development of an SOP for PPR response : under discussion
- Import conditions : PPR-free for 3 years
 - Korea only imports live goat and sheep from Australia and New Zealand
- Implementing measures to enhance public awareness
 - Clinical signs
 - Differential diagnosis
- MAFRA organizes Expert Group meeting on PPR (every quarter)

• Serosurveillance on PPR in 2023

Area	No. Farms	No. Animals	Plan 2023	
			No. Farms	No. Animals
Daegu-si	76	1,415	1	4
Incheon-si	166	2,819	1	5
Ulsan-si	160	3,914	1	7
Sejogn-si	38	1,700	1	4
Gyeonggi	901	29,467	12	50
Gangwon	825	26,781	11	45
Chungbuk	1,438	67,884	28	114
Chungnam	1,829	48,787	20	82
Jeonbuk	1,131	72,140	30	121
Jeonnam	1,569	103,751	43	174
Gyeongbuk	1,604	54,999	23	92
Gyeongnam	2,178	38,218	16	64
Jeju	68	5,116	2	9
Total	11,983	456,991	189	771



Challenges

- Lack specific special regulations or guidelines for the control and management in the goat farms
 - Planned to establish
- Number of goat per farm is small -> Lack of standardized and systematic approach
- A shortage of specialized veterinarians for goat
- High incidence of mortality due to diseases, yet farmers remain unaware of the issue

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- Development of SOP on PPR
 - Strengthening public awareness
 - Whole genome sequencing and characterization of PPRV detected in Asia
 - Information regarding the EU, WOAHA vaccine bank on PPR

Thank you!

Regional Representation for Asia and the Pacific
Food Science Building 5F - The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Tokyo, 113-8657
JAPAN

rr.asia-pacific@woah.org
rr-asia.woah.org

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