100

World Organisation for Animal Health
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Challenges in Surveillance and Reporting in the SEACFMD Region
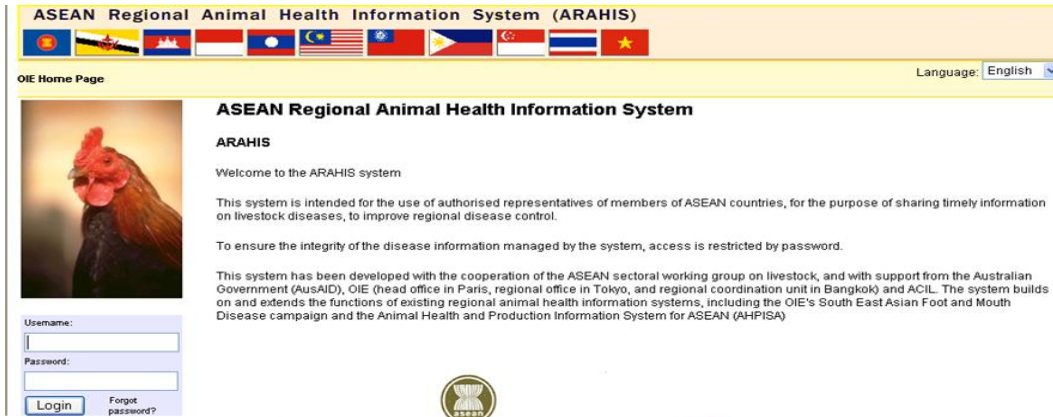
Bolortuya P WOAH SRR SEA

Outline

Reporting and surveillance

- ARAHIS
- WAHIS performance
- EIOS
- Laboratory capacity/Sample submission

Reporting line

- The system is outdated, with frequent access failures and no verification or validation functionalities, impacting its usability and reliability.

- Members only report FMD and lack diverse reporting sources. The system is incompatible with other systems and requires updates for better integration.

- There are no backup plans for system failures, and the unavailability of system code makes maintenance or updates impossible.

ARAHIS+WAHIS INTEGRATION PROJECT

FMD Reporting ARAHIS (2019-2023)

Assess historical presence of FMD at the smallest administrative levels such as village/ commune etc (for the last 1 year, 2 to 3 years and 5 years)

- The level of administrative units varies by country
- Local names can be challenging to harmonize with shapefiles for mapping purposes
- May be discrepancies in the understanding of epidemiological units

Country	Administation level (Wikipedia)	2019	2020	2021	2022	2023
Cambodia	Level 1 Province (authonomous minicipality lit,khétt,)					
	Level 2 Section/City/District (khând,krŏng,srŏk)				N/A	
	Level 3 Commune/Quarter (sângkéat,khŭm)				N/A	
	Level 4 Village (phum)	epi-unit Name	epi-unit Name	epi-unit Name	N/A	epi-unit Name
China	(Authonomous/Minicopalities/Special Administrative					
	Level 2 Prefecture (Leagues)					
	Level 3 County (District/Country-Level city)					
	Level 4 Township (Subdistricts/townships/towns)	Farm	Farm/Food Company			
Indonesia	Level 1 Provinces (provinsi or daerah istimewa)					
	(kota)Metropolitan (metropolitan)				N/A	
	kemantren)				N/A	
	Level 4 Rural or urban villages (desa or kelurahan)				N/A	N/A
Lao PDR	Level 1 Prefecture/Province nakhon louang, khoueng			No FMD reported	No FMD reported	No FMD reported
	Level 2 District mueang					
	Level 3 Village baan					
	Level 4 Epi-Unit name		epi-unit name			
Malaysia	Level 1 State/Federal territories					
	Level 2 District /Division (daerah)					
	Level 3 Subdistrict (daerah kecil)					
	Level 4 Township (mukim)		epi-unit name	epi-unit name	epi-unit name	farm
Mongolia	Level 1 Aimag	No FMD reported	No FMD reported	N/A		No FMD reported
	Level 2 Soum					
	Level 3 Bag					
	Level 4 Khot ail			epi-unit name	epi-unit name	
Myanmar	Level 1 State/Region				No FMD reported	No FMD reported
	Level 2 District			N/A		
	Level 3 Township			N/A		
	Level 4 Villages	epi-unit Name	epi-unit Name	N/A		
Thailand	Level 1 Province					
	Level 2 District					
	Level 3 Subdistrict					
	Level 4 Villages		epi-unit name	epi-unit name	epi-unit name	epi-unit name
Vietnam	Level 1 Miniciplity/Province (Tỉnh)					
	Level 2 District					
	Level 3 Ward/Commune					
	Level 4 Village	commune	epi-unit name	epi-unit name	epi-unit name	epi-unit name

SEACFMD

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Reporting WAHIS
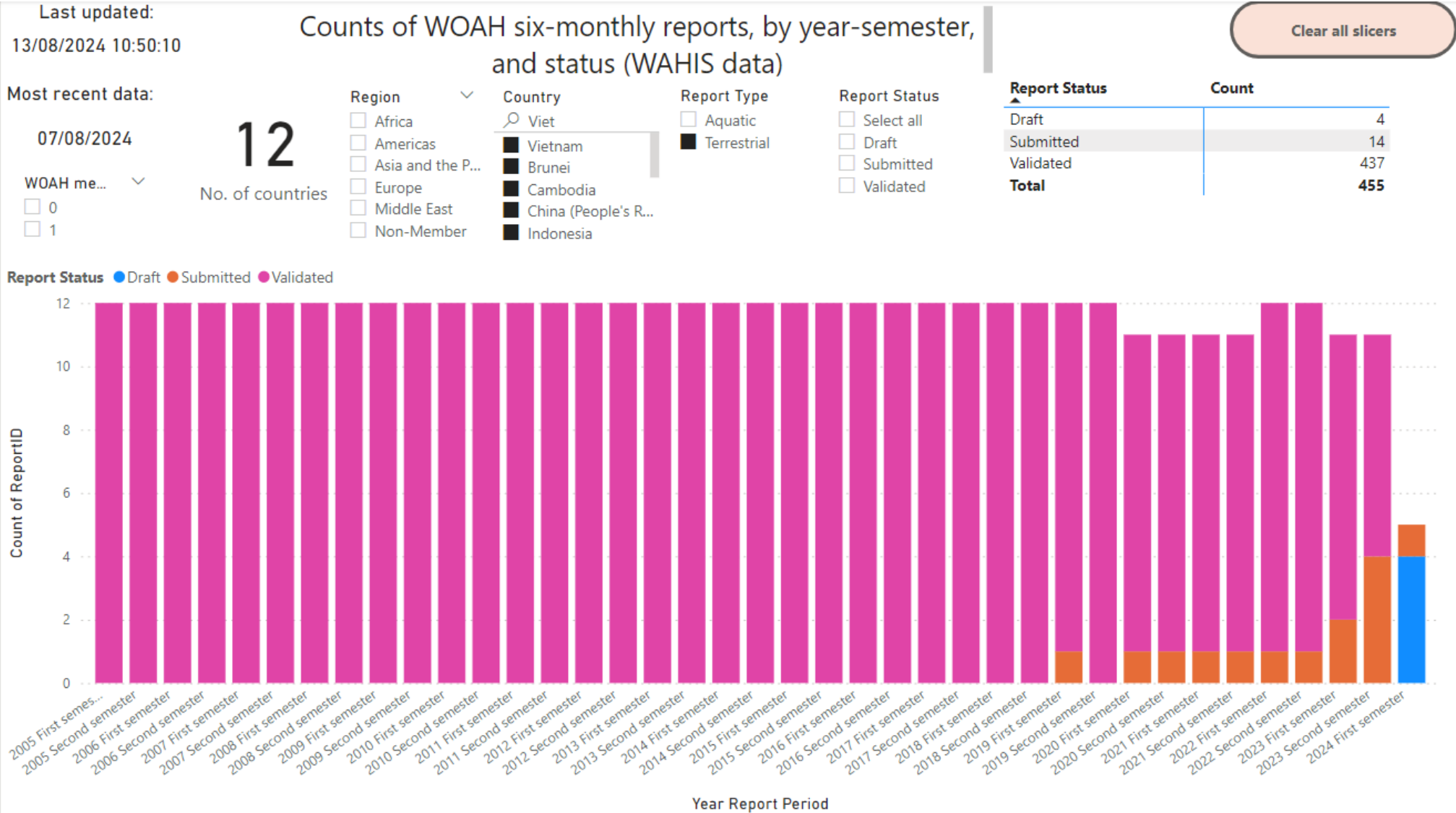
EIOS signals (AST -AP)

## Detected news (n=222)
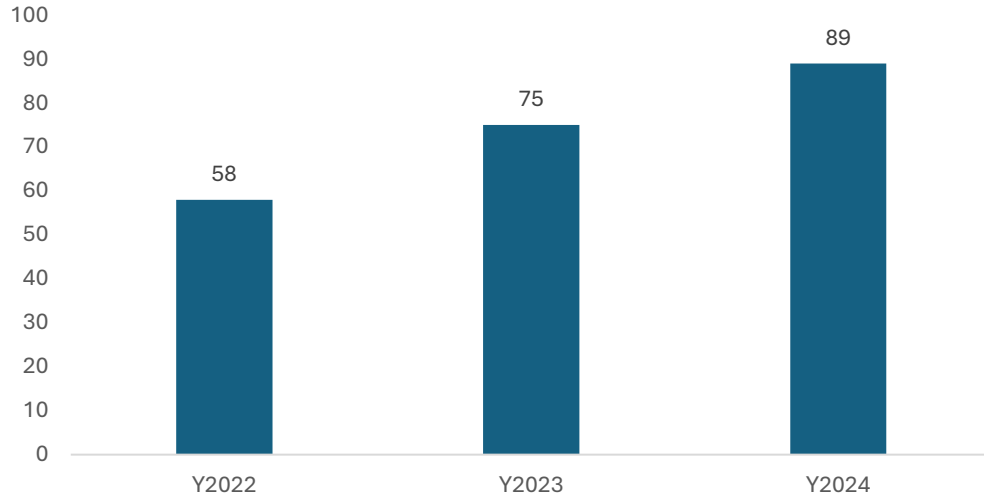
News detected on Foot and mouth disease

News detected by diseases
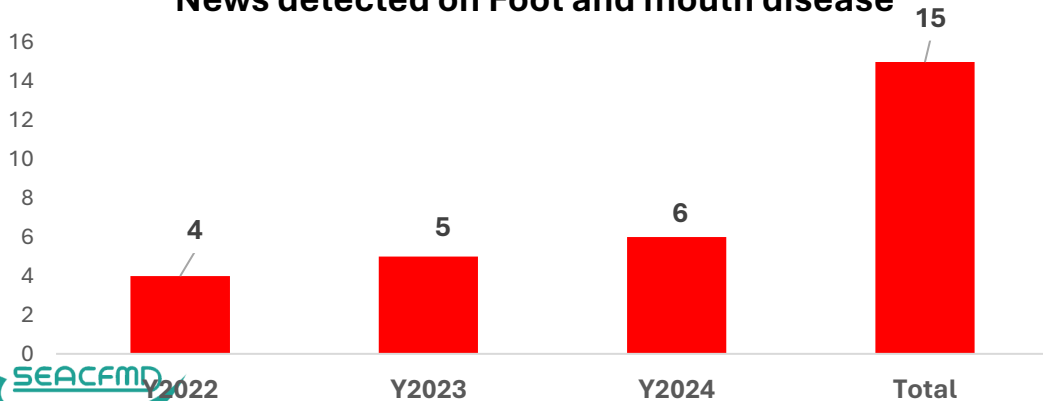
- African swine fever
- Highly path. avian influenza (poultry)
- Lumpy skin disease
- Rabies
- Foot and mouth disease
- Highly pathogenic influenza A viruses (infection with) (non-poultry including wild birds)
- Anthrax
- Low pathogenic avian influenza (poultry)
- Unusual morbidity or mortality event (cause undetermined)

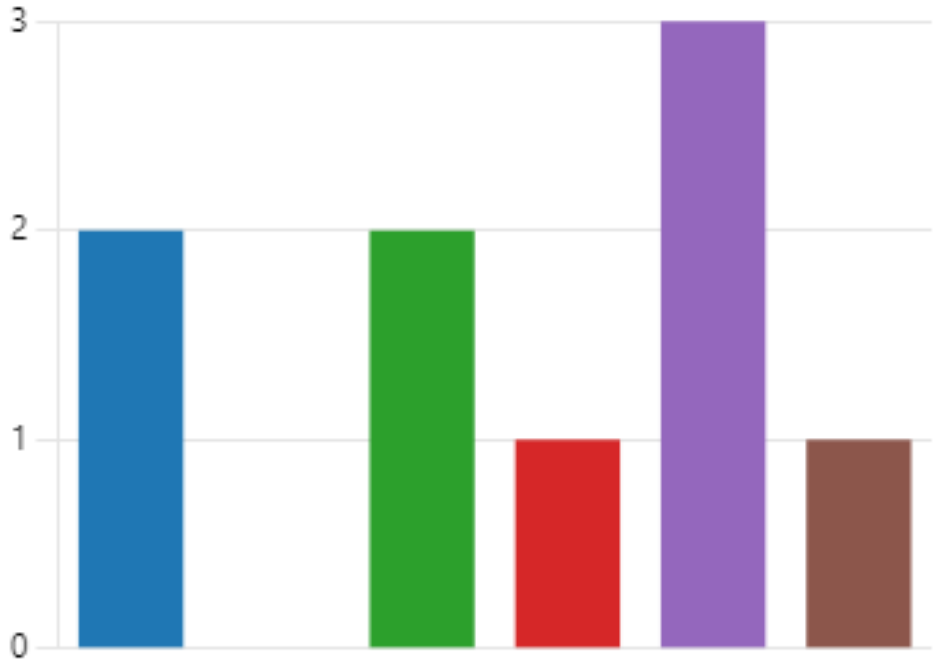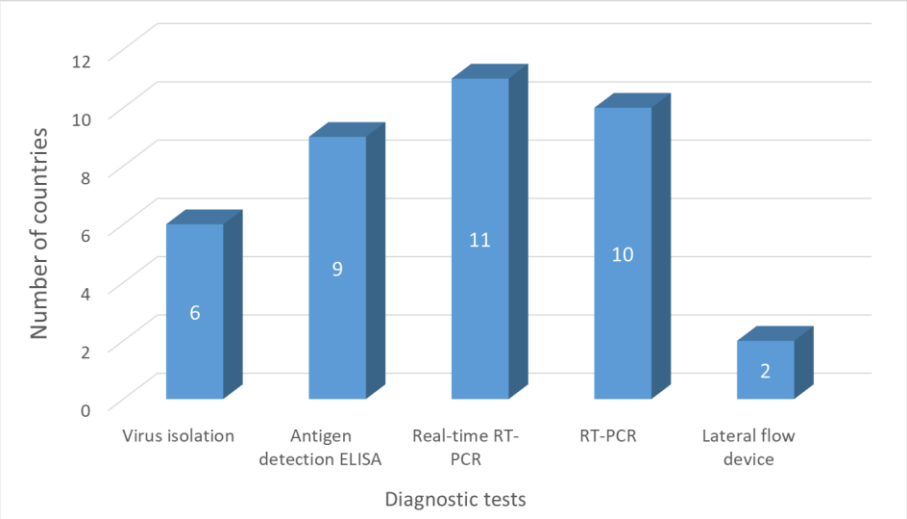World Organisation for Animal Health
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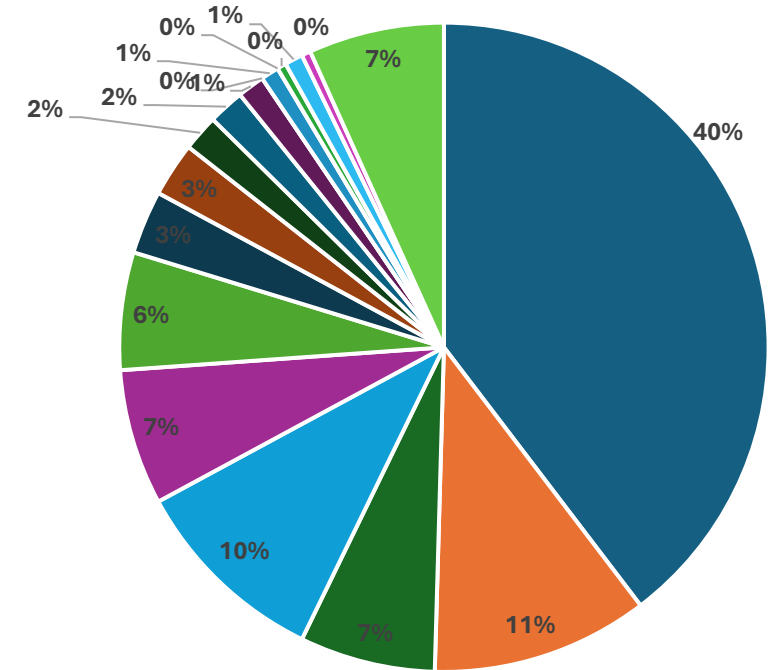
Antigen detection ELISA – 9 Countries


10. How frequently do you conduct Antigen detection ELISA?

More Details

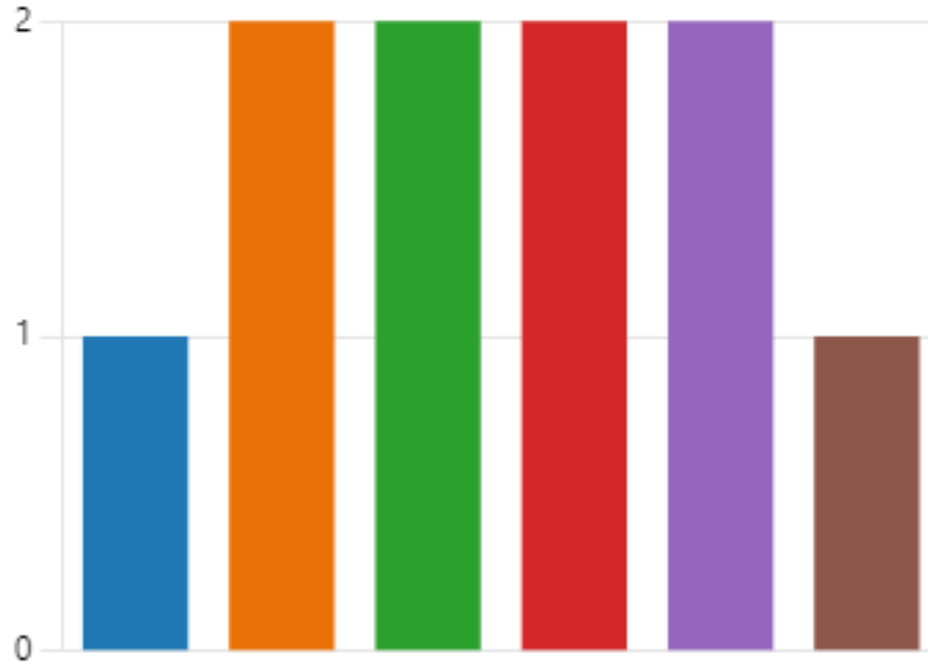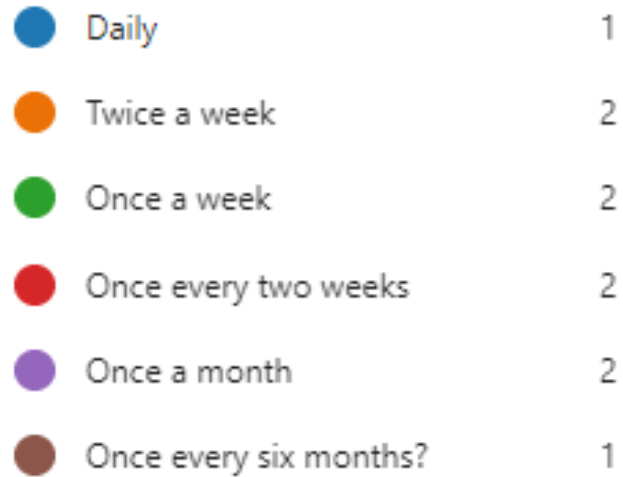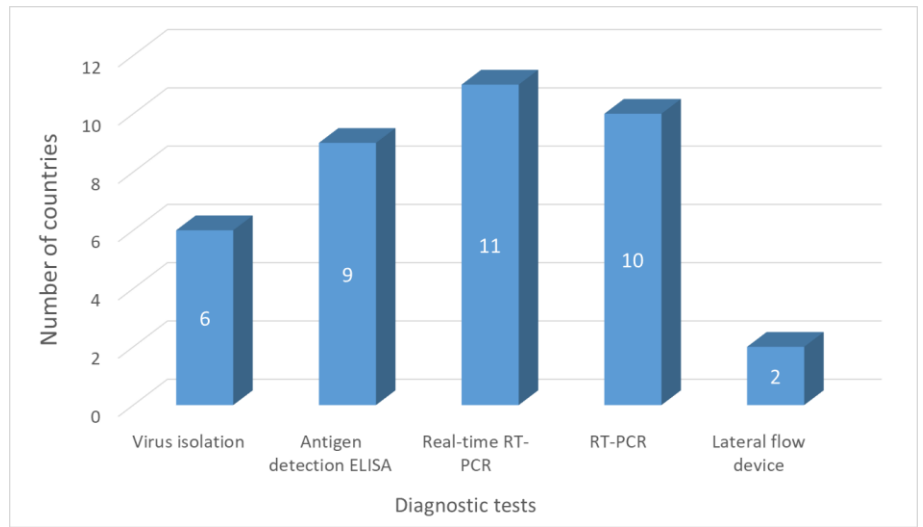|	
🔵 Daily	2
🟠 Twice a week	0
🟢 Once a week	2
🔴 Once every two weeks	1
🟣 Once a month	3
🟤 Once every six months	1

Real-time RT-PCR – 11 Countries

🔵 Daily	4
🟠 twice a week	0
🟢 Once a week	2
🔴 Once every two weeks	1
🟣 Once a month	2
🟤 Once every six months	2

RT-PCR – 10 Countries

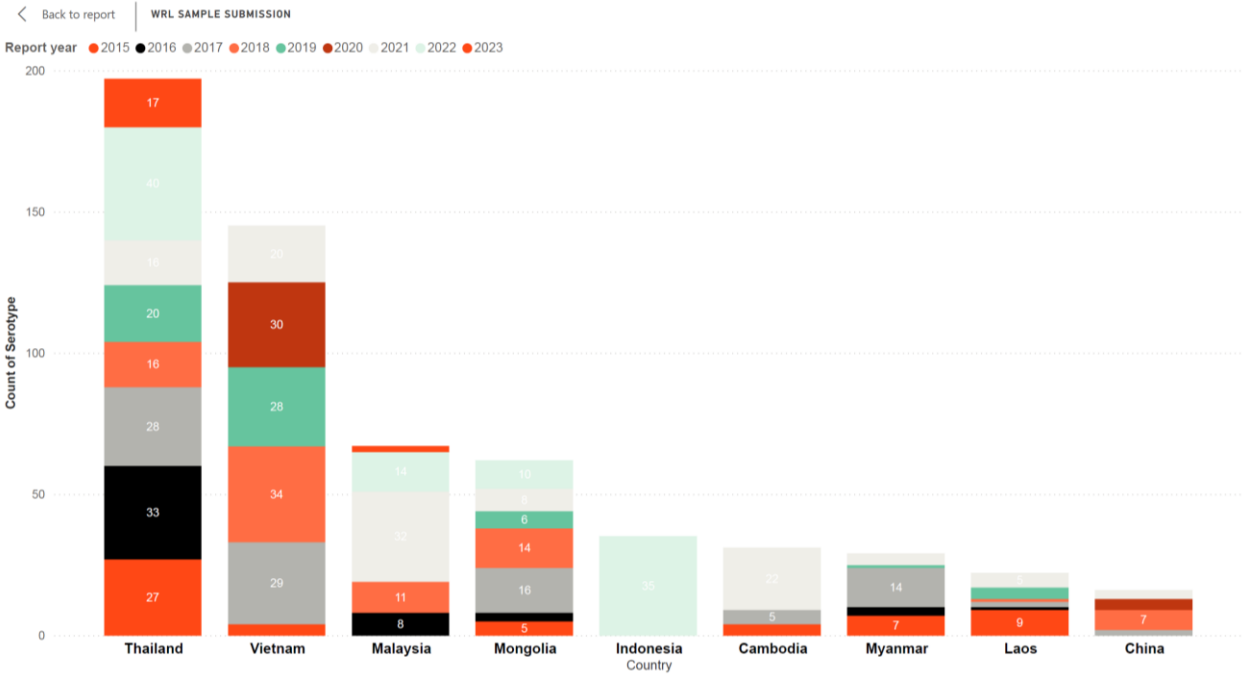|	
● Daily	1
● Twice a week	2
● Once a week	2
● Once every two weeks	2
● Once a month	2
● Once every six months?	1
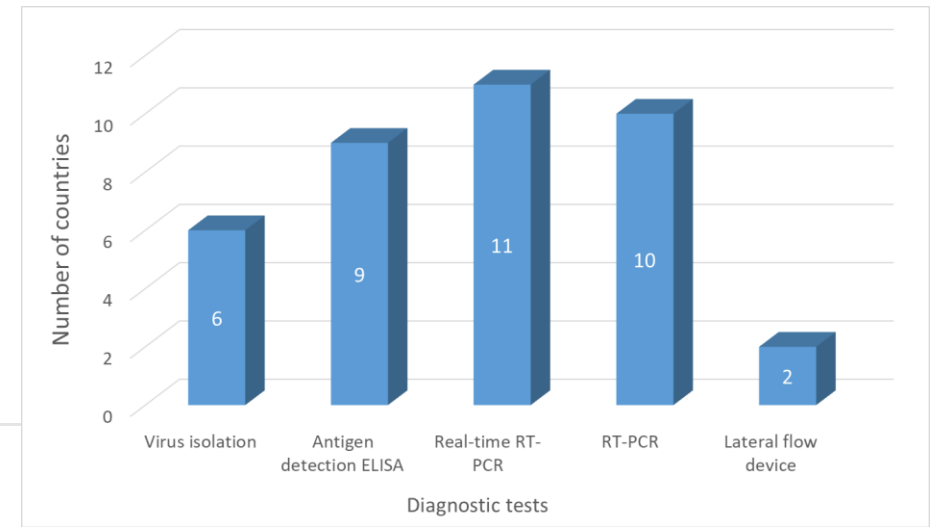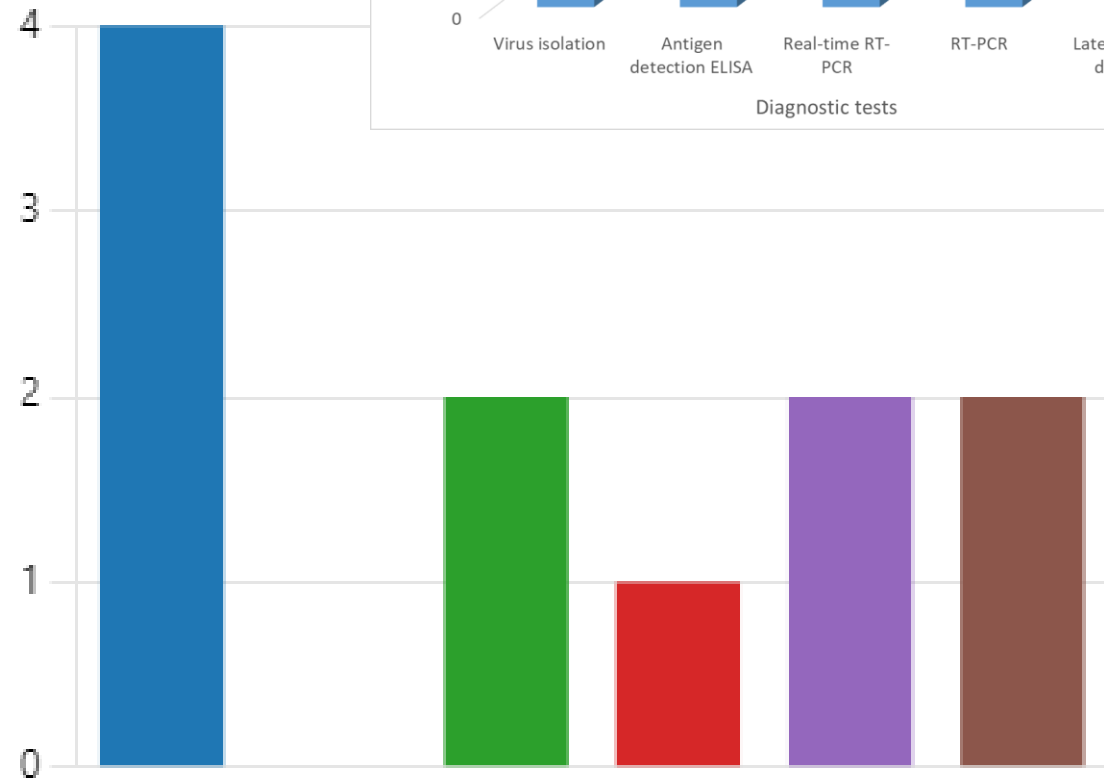
Sample collection/Typing and submission
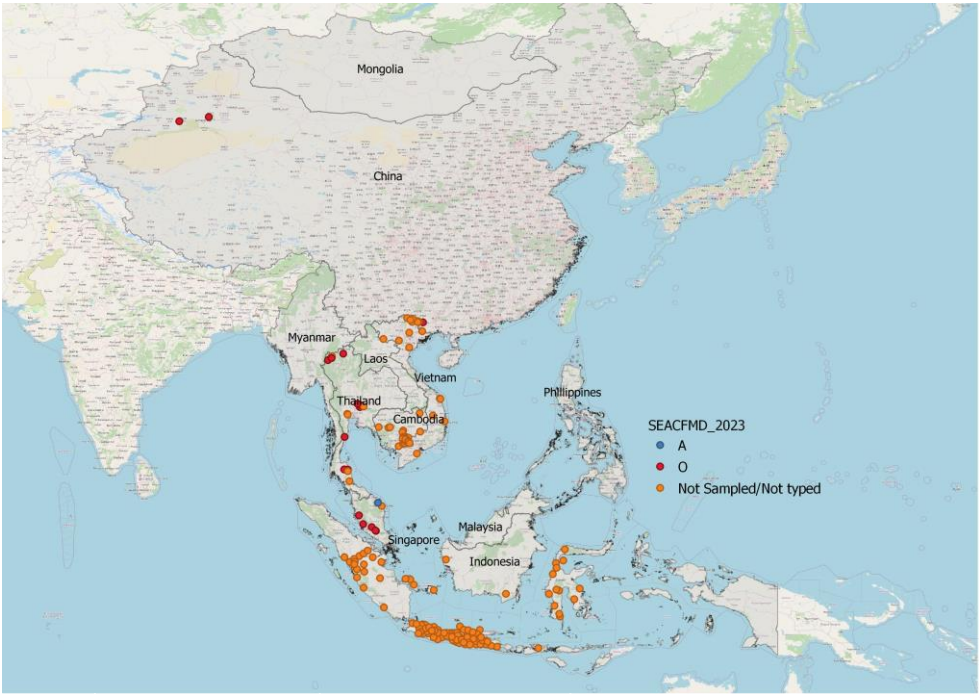
Year	Number of FMD outbreaks reported	Number of FMD outbreaks with full investigation	Proportion (%) of reported outbreaks with full investigation, including virus characterization
2020	556	188	33.8
2021	306	155	50.7
2022	199	134	67.3
2023	202	19	9.4
Total	**1263**	**496**	**39.3**

Confirmed cases by WRLFMD (2015-2023)

Have not fully recovered after COVID-19

ACTIVE SURVEILLANCE DATA COLLECTION

Develop improved ways to quantify the burden of FMD infection across the whole region including structured sero-surveillance between Members to give a crude estimation of prevalence (including existing sero-surveillance reports

Collecting active surveillance data to estimate prevalence and determine further actions

Thank you for your attention

Plenary discussion question

How can we improve timely sharing of information and epidemic intelligence activities?

How can we improve active surveillance/sample submission by Member countries to the Reference laboratories?

What preparations are necessary for a potential incursion of an exotic strain?

How can we improve access to quality FMD vaccine?