



Regional FMD Situation

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Power BI



loped by AusVel Animal Health Services

1 of the AusAiD funded "Strengthening Animal Health Management and Biosecurity in ASEA

varicipation of ASEAN SWIGL, OIL SEAFMD, AMPISA, Cardno-Acil, and the OIL Top-

NCK Email the development team if you have a comment on this system 4.SEAN Recional Asimal Health Information System (ARAHIS)

Outline

- ➤ Brief illustration of the outbreak data
- ➤ Main epidemiological changes
 - Serotype/Lineage
- ➤ Discussion & Conclusion

How would you like to consult the information?

ytics

all reported data since 2005. This new public

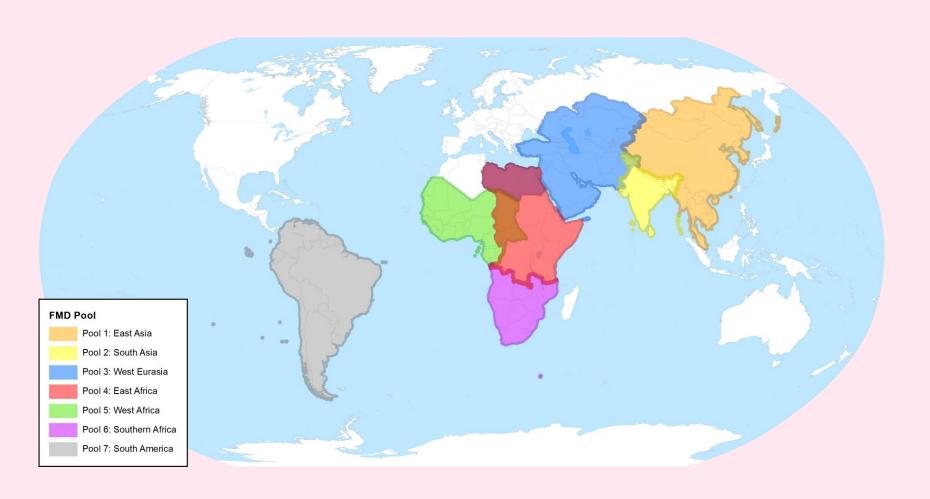








Distribution of the seven endemic pools of Foot-and-Mouth Disease



Virus Pool 1

0

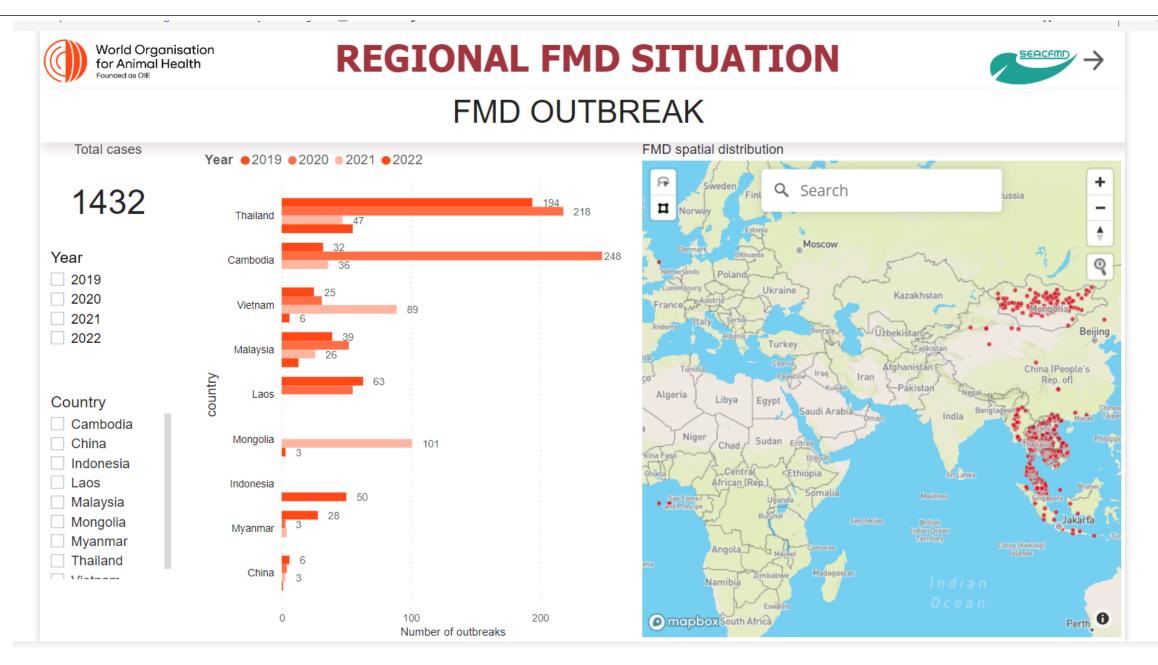
- *Mya-98*
- Pan-Asia
- Cathay
- <u>Ind-2001</u>

A

Sea-97

Asia 1



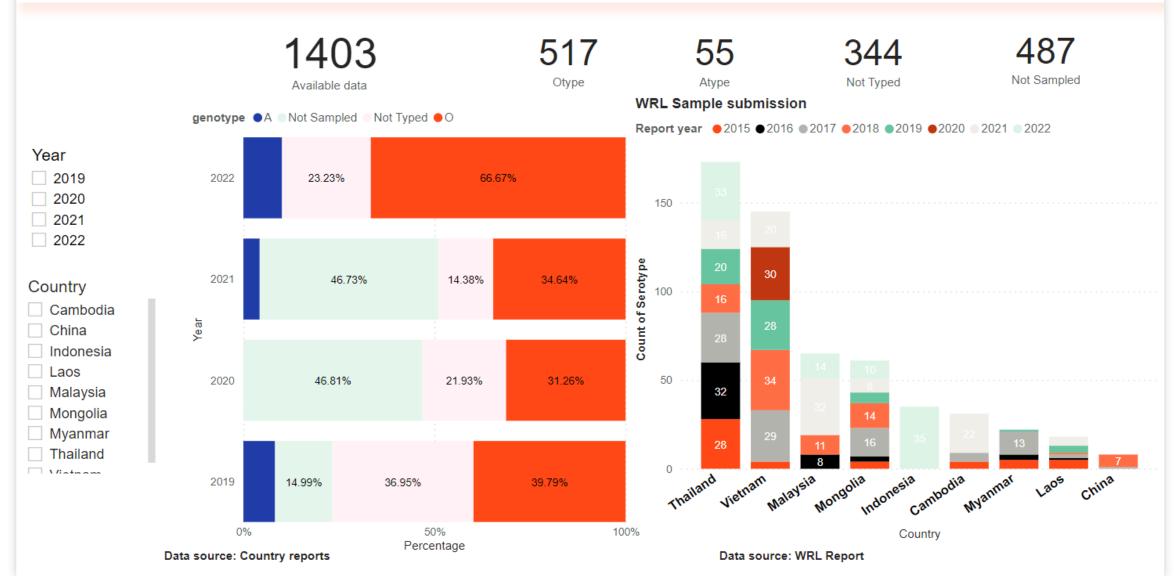






FMDV Genotype



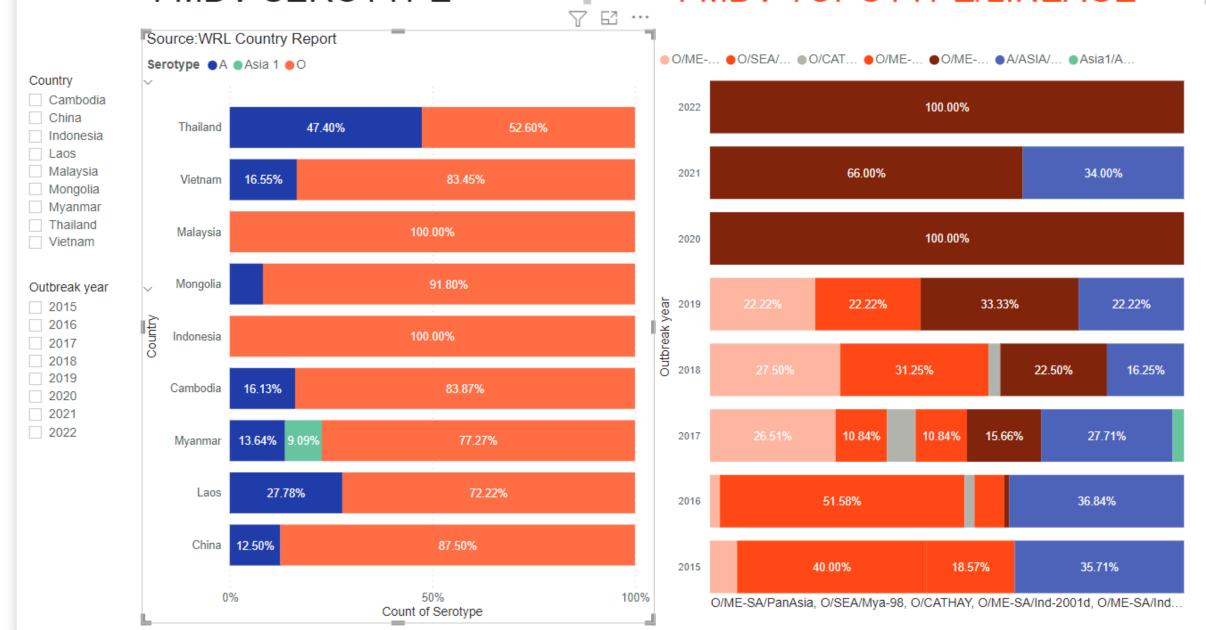


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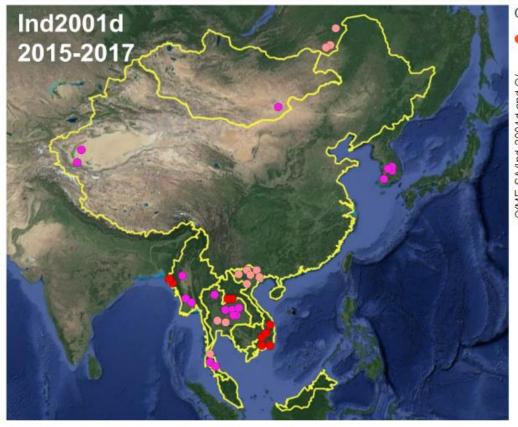


FMDV SEROTYPE

FMDV TOPOTYPE/LINEAGE







O/ME-SA/Ind2001d

2015- Laos, Myanmar (isolated 2016), Vietnam

2016- Thailand, Vietnam

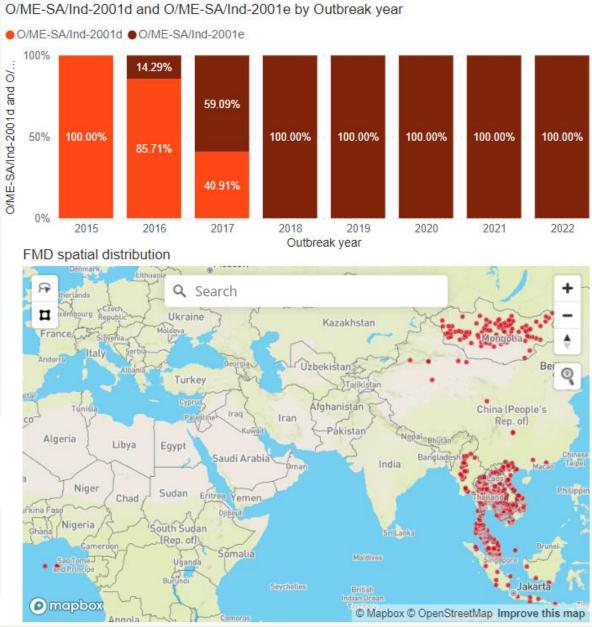
2017-Myanmar, China, Mongolia, Korea and Russia

O/ME-SA/Ind2001e

2016- Malaysia

2017- Malaysia, Vietnam, Thailand

2018 - Mongolia, Myanmar, Thailand and Chinacontinues





Main epidemiological changes:

- ➤ Number of outbreaks declined COVID-19 impact
- Serotype Asia 1 not reported since 2017 (Myanmar)
 - > New incursion
- ➤ PanAsia and Mya98 have not been isolated since 2019
- Pool 2-India reported Asia1 in 2021

Most Closely Related Sequences								
sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sub
viba_32008	BAN GA Sr-187 2013	cattle	97.6	0	Asia1	ASIA	G-VIII	
viba_32692	IND400(822)/2012	cattle	97.3	0	Asia1	ASIA	G-VIII	
viba_32708	IND413(852)/2012	cattle	97.3	0	Asia1	ASIA	G-VIII	
viba_19576	IND/283/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba_32664	IND119(223)/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba_19556	IND/118/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba_32724	IND118(222)/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba 19568	IND/121/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba_19540	IND/16/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	
viba_19596	IND/294/2012	cattle	97.1	0	Asia1	ASIA	G-VIII	

- Serotype A frequently circulates in Thailand-Re-active since 2019
- Serotype O:
 - ➤ Ind2001e become dominant since 2019
 - ➤ Ind2001d not reported since 2018

Discussion:

- > Study Asia 1
 - > Data review
 - Regional surveillance (support MCs)
- Complete Regional genotype data set/Mapping
 - Support MCs- geoinformation
- Encourage sample submission to WRL/RR
- Rationalise sampling vs serotyping
- Finalise simple Molecular diagnostic algorithm/pilot testing





Thank you

