







SEACHMOLEPIDEMOLOGY NETWORK MEETING

COUNTRY REPORT: MYANMAR

Presenter:
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Department

13-15 May 2025, Qingdao, People's Republic of China



Outline of the Presentation



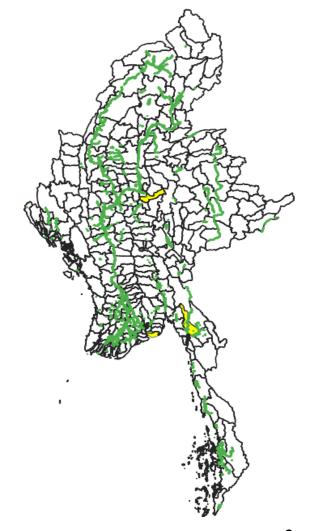
- FMD situation (including any epidemiological changes)
- Summary of the Epidemiological activities
- Use of Epidemiological tools
- Constraints and possible solution
- Priorities and Future Plans



FMD situation

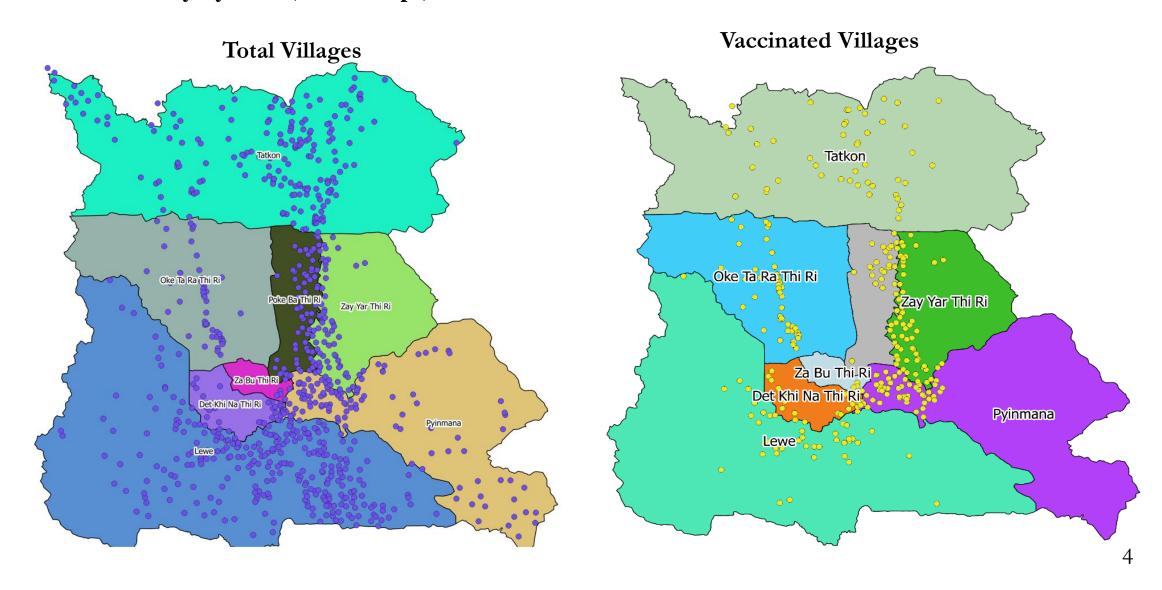


Year	Month	States/ Regions	Township	Species	Specimens	No. of Affected Villages	Myanma r Lab Results	Remark
2023				-				
2024	July	Kayin	Hpa-an	Pig	Foot Epithelium	1	NVD	
	July	Yangon	Shwe Pyi Thar	Cattle	Tongue Epithelium	1	Type O	
	September	Mandalay	Kyauk Se	Cattle	Foot Epithelium	1	NVD	
	October	Yangon	Kyauk Tan	Goat	Foot Epithelium	1	NVD	
	November	Yangon	Kyauk Tan	Goat	Foot Epithelium	1	NVD	





Disease Control in Nay Pyi Taw (8 Townships)

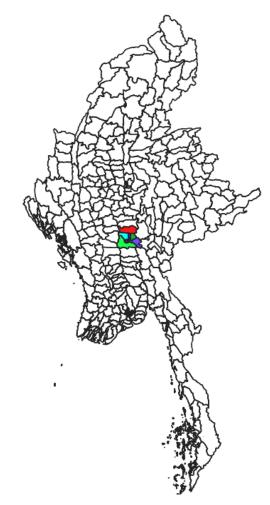






Disease Control in Nay Pyi Taw (8 Townships)

Date	Vaccinatio n	Townships	Estimated	Vaccinated	Blood sample	Vaccine coverage (Estimated)	Type of vac
11- 21 Jun 2021	1st	Tatkon (Pilot)	10,000	7673	69	76.7	Tri (OIE)
12-24 Jul, 2021	2 nd	Tatkon (Pilot)	15,000	13899	-	92.7	Tri (OIE)
22 Feb-3Mar, 2022	3 rd	8	60,665	56607	1135	93.3	Tri (OIE)
28Mar-3Apr, 2022	4 th	8	43,628	43695	-	100.2	Mono
3-12 Oct,2022	5 th	8	81,083	76654	610	94.5	Mono

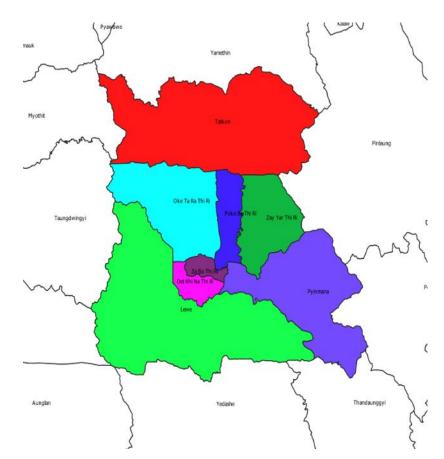






Disease Control in Nay Pyi Taw (8 Townships)

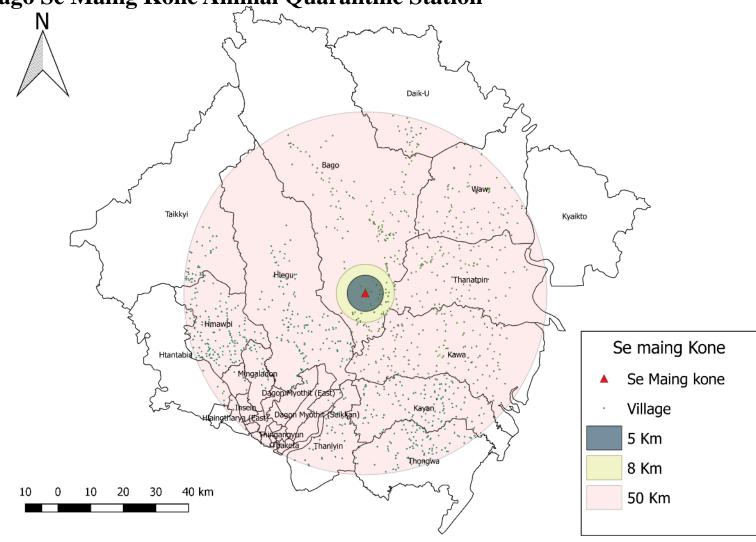
Date	Vaccinati on	Townshi ps	Estimated Head	Vaccinated	Blood sample	Vaccine coverage (Estimated)	Type of vac
20-29Jun, 2023	6 th	8	110,254	111524	805	101.2	Mono
2-12 Jan, 2024	7 th	8	99702	89710	987	90.0	Mono
4-13Jul, 2024	8 th	8	107818	90855	-	84.3	Tri (India)
20-29Jan, 2025	9 th	8	101405	94331	1033	93,0	Mono









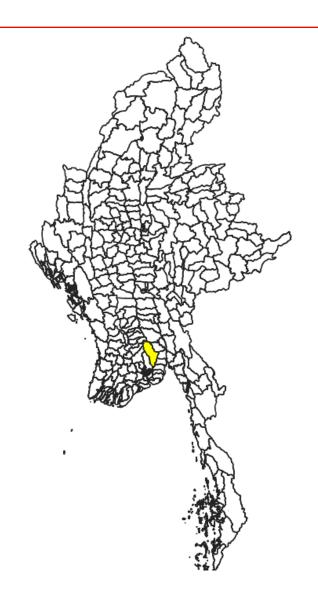






Disease Control in Bago Se Maing Kone Animal Quarantine Station 5 Kilometer

Date	Townships	Vaccination	Estimate d	Vaccinate d	Species	Blood Collecti on	Type of Vac	
1-10Jun, 2022	Bago	1 st	3897	3897		1	Mono	
18- 27Jul, 2022	Bago	2 nd	3897	3897	Cattle, Buffalo, Goat, Pig	C vil	-	Mono
8-17 Jan, 2024	Bago	1st	2609	3897		35	Mono	
8-17 Feb, 2024	Bago	2 nd	3897	3897		30	Mono	
21Feb-3Nov, 2024	Bago	3 rd	3897	3696		75	Tri	



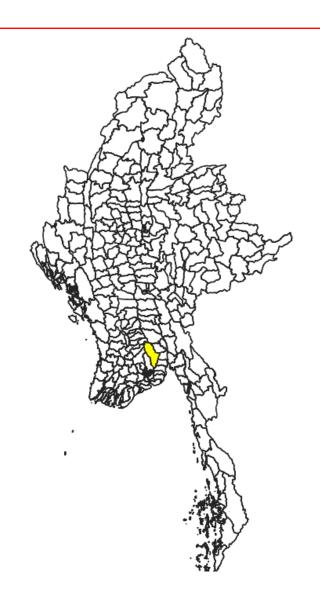




Disease Control in Bago Se Maing Kone Animal Quarantine Station

8 Kilometer

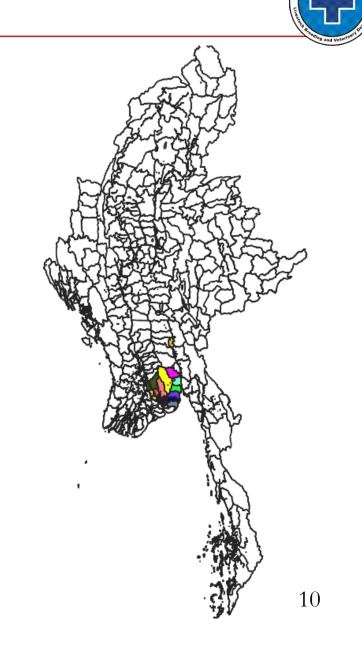
Date	Township	Vaccination	Estimated	Vaccinat ed	Species	Blood Collecti on	Type of Vac
18-27 Feb, 2024	Bago	1st	3804	3648		40	Mono
4-13Mar, 2024	Bago	2 nd	3804	3648	Cattle, Buffalo, Goat, Pig	30	Mono
21Feb-3Nov, 2024	Bago	3 rd	3440	3466		75	Tri







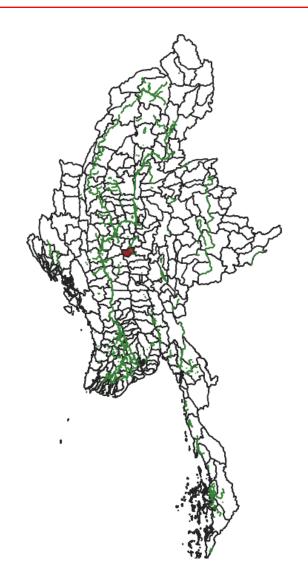
50 Kilometer									
Date	Townships	Vaccination	Estimated	Vaccinated	Species	Blood collection	Type of vac		
18-27Feb, 2024	5	1 st	40746	49464		35	Mono		
10-19Jul, 2024	5	2 nd	49464	49464	Cattle Buffaloes	35	Mono		
10-19Jan, 2025	5	3 rd	11888	11890		-	Mono		
50 Kilometer	50 Kilometer (Yangon Side)								
18-27Feb, 2024	15	1 st	40741	40741		378	Mono		
10-19Jul, 2024	15	2 nd	40741	40741	Cattle Buffaloes	281	Mono		
10-19Jan, 2025	15	3 rd	13830	13830		173	Mono		





Disease Control in Meikhtila (Mandalay Division)

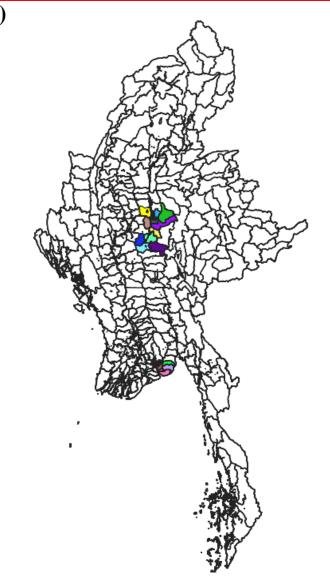
Date	Township	Vaccination	Vaccinated	Species	Type of vaccines
February, 2023	Meikhtila	1st	109751	Cattle	Mono
March, 2023	Meikhtila	2 nd	109751	Buffaloes Sheep Goat Pig	Mono
November, 2024	Meikhtila	3 rd	32177	Cattle	Mono





Extension FMD Disease Control Program (15 Townships) (2024-2025)

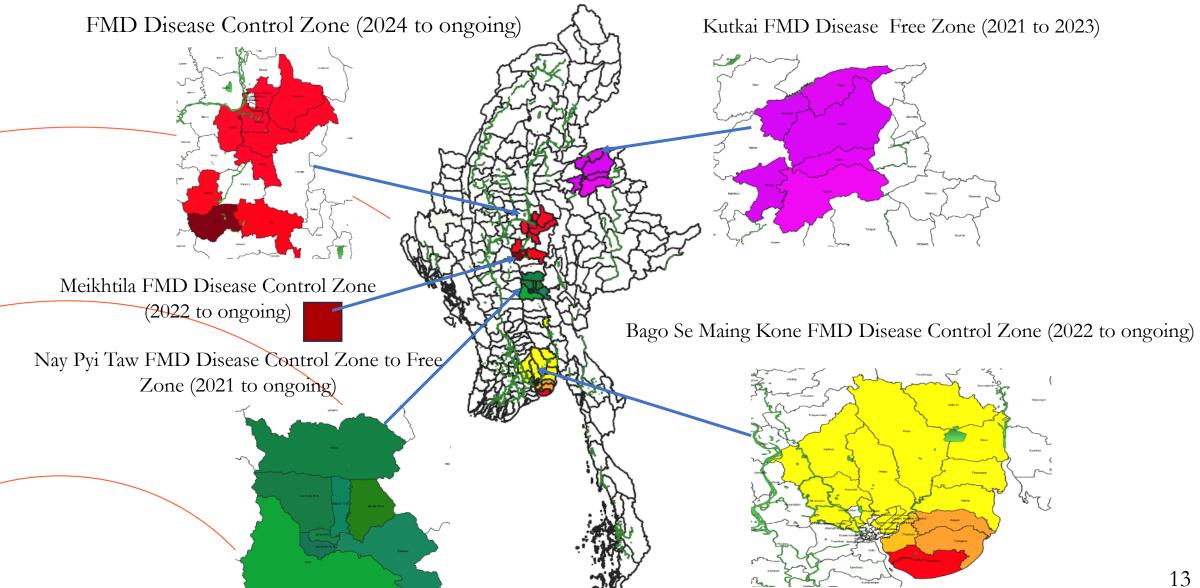
Sr.			Vaccinated	
No	Township	Villages	(Cattle)	Type of Vaccines
1	Kyauk Se	11	2676	
2	Myitthar	35	16021	
3	Sintgai	66	10913	
4	TadaU	43	10869	
5	Meikhtila	240	32158	
6	Wuntwin	35	12237	
7	MaHlaing	91	15504	
8	Thar Si	57	14709	T ' (I 1')
9	Pyin Oo Lwin	25	960	Tri (India)
10	Patheingyi	10	960	
11	Amarapura	20	4396	
12	Thanlynn	59	4345	
13	Kyauk Tan	59	1780	
14	Thone Gwa	118	3580	
15	Kayan	114	3865	
	Total	983	134973	





Zoning and Compartmentalization Approach, Vaccination Program

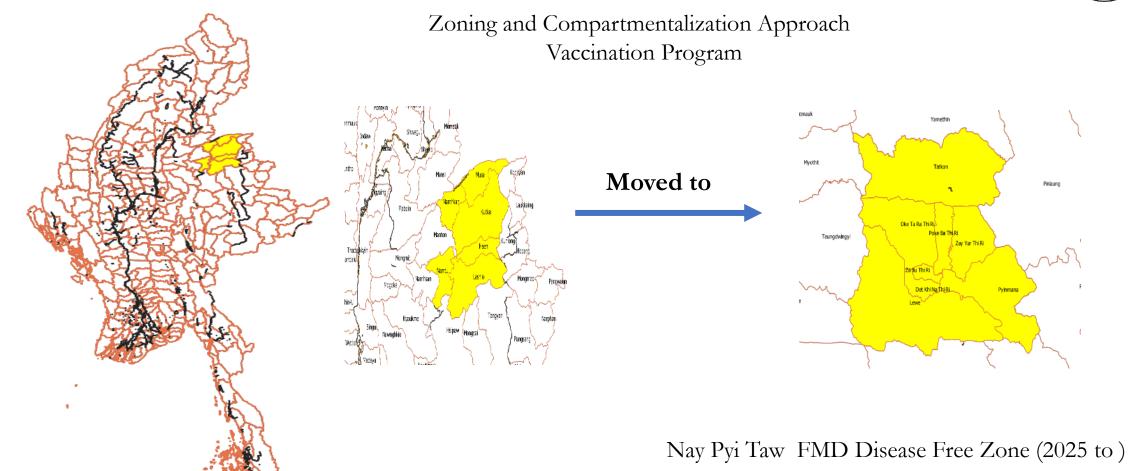






Zoning and Compartmentalisation, socio-economic impact analy





Kutkai FMD Disease Free Zone (2020-2023)



Epidemiological tools



The use of epidemiological tools – that support to monitor of FMD

- Mapping GIS, software for data analysis,
- Mobile,
- Zero reporting System (that means monthly report of outbreak yes or no). If no outbreak, send zero for this month.



FMD control measures –



1. Vaccination –

Regular and timely vaccination of cattle with the appropriate FMD vaccine and use region-specific vaccines based on the circulating virus serotype(s).

2. Quarantine and Movement Control

Restrict movement of animals from infected to non-infected areas.

3. Surveillance and Early Detection

Immediate reporting of suspected cases to veterinary authorities, collect the samples and send to Lab.

4. Biosecurity Measures

Disinfect vehicles, equipment, and farms.

5. Public Awareness and Training

Regular training before and after vaccination.

6. Zoning and Regional Policies

Designate disease-free zones and buffer zones, Disease Control Zone.



Constraints and possible solution



- FMD lesion became sub-clinical and very short duration training to TVO, DTVO and CAHWs.
- Human resources will replace to Vet assistance
- Shortage of well-trained person Training
- Cost of reagents and chemicals Expensive to import.
- Limitation of Gov Budget



Priorities and Future Plans



Vaccine Production

• Use circulation Virus within Myanmar (serotype analysis in NIAH-Japan and vaccine matching).

Vaccination

- Prioritized regular vaccination to targeted area high risk based on data, location and livestock population.
- Extent the disease control zone large population of cattle and buffaloes, potential sources for trade to markets.

Approach

• Controlling can reduce risks in parts of regions.



Thanks for Attention