



Implementation of FMD Vaccination by SEACFMD countries

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Introduction

■ Background

- FMD vaccination is proven tool for prevention and control of vaccination
- FMD-infected countries carry out vaccination against FMD; however, they may follow different purposes
- FMD-free countries may have included vaccination as a response, containment and control strategy in case of a re-incursion of FMD
- Many countries face challenges in accessing quality FMD vaccines and implementation of FMD vaccination



Introduction

■ Objective of the survey

- to map the current FMD vaccination situation and strategies followed in respective countries.
- To identify potential challenges in vaccines procurement (legislation, procurement process)
- To identify technical challenges (quality check of the vaccines, implementation of the vaccination programme, vaccine matching etc)
- To identify potential success stories, in particular (but not limited to) the establishment of public-private partnerships
- To have a rough estimation of FMD vaccine needs



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Survey methodology

- Questionnaire survey
 - Questions prepared in MS form and shared to SEACFMD countries
 - Members completed online questionnaire
- All SEACFMD countries submitted the response
 - Seven FMD infected countries implemented FMD vaccination in last 3 years
 - One infected country did not carry out FMD vaccination in last three years
 - 4 countries is officially recognized as free from FMD (without vaccination)



Survey methodology

- Annual FMD vaccination report
 - Annual report form shared to SEACFMD countries
 - Six infected countries submitted annual vaccination report (but one incomplete)
- Analysis and reporting
 - Descriptive analysis performed
 - Reported status and situation at the regional level
 - Only five countries included for analysis for FMD vaccination coverage

Vaccination strategy

What was the purpose of FMD vaccination?

- limit the spread of ongoing o... 7
- to protect higher value animal... 5
- limit the impact of FMD 6
- pilot a vaccination strategy in ... 1
- establish FMD-free zones with... 5



What species of animals are vaccinated against FMD in your country?

- Cattle 7
- Buffaloes 6
- Sheep 5
- Goat 6
- Pig 7



Vaccination strategy

What vaccination strategy is followed in your country?

- Barrier Vaccination (vaccinatio... 4
- Ring vaccination (vaccination ... 6
- Blanket vaccination (vaccinati... 5
- Targeted vaccination (vaccinat... 5



Do you conduct a booster vaccination?

- Yes, systematically Insights 4
- Yes, most of the time 1
- Rarely 2
- No 0
- Other 0

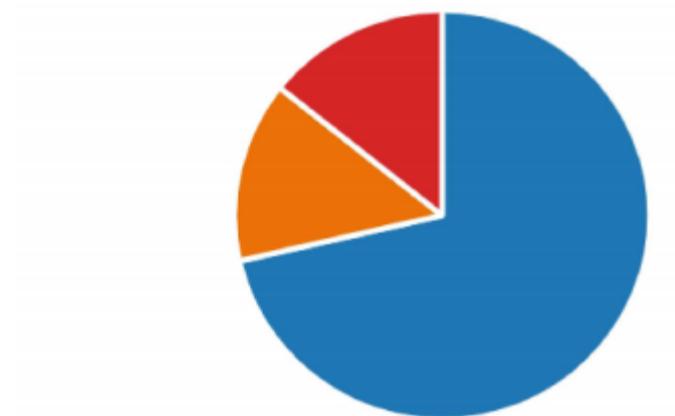


Vaccination strategy

. What is the frequency of FMD vaccination?

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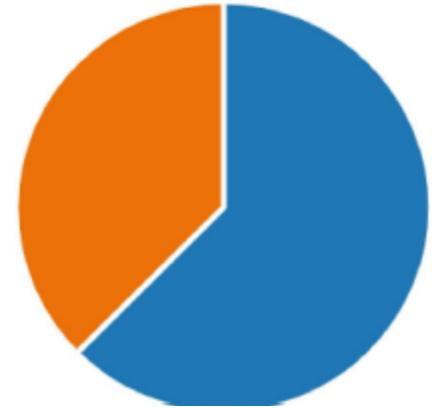
 Once in six months	5
 Once a year	1
 Once every two years	0
 Other	1



Types of Vaccines used

. What type of FMD vaccine is used in your country?

● Killed	5
● Attenuated	3



What type of vaccine is used (Valency) in your country?

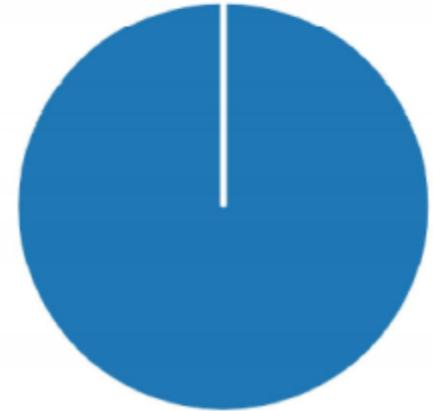
● Monovalent	3
● Bivalent	3
● Trivalent	5



Types of Vaccines used

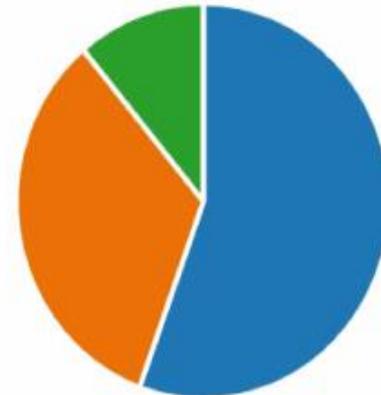
FMD Vaccine combined with another disease?

● Not combined - only FMD	7
● FMD + BQ + HS	0
● FMD + BQ	0
● FMD + HS	0
● FMD + Others	0



Are the used vaccines compliant with the OIE standards for FMD vaccine (OIE Manual)?

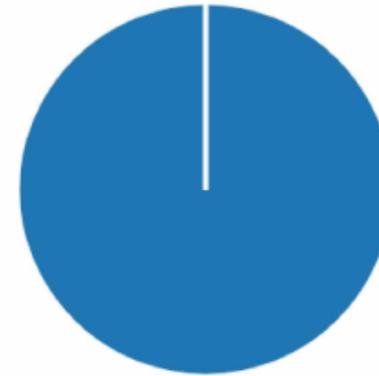
● Yes – quality control systemati...	5
● Yes – according to the specific...	3
● Partially – some of the vaccine...	1
● Not yet, but we plan to move ...	0
● No and we do not have plan t...	0



Public Private partnership - vaccination

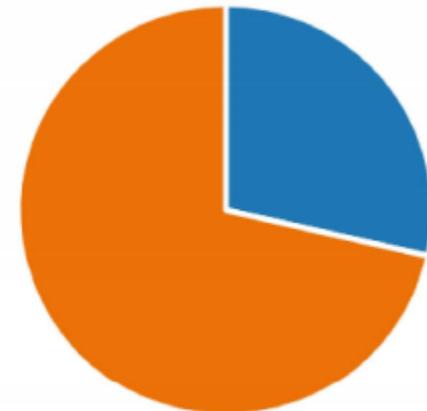
Is there a budget for field operations for vaccinations (eg. Travel allowances and gasoline of vaccinators)

💡 Insights



Does the government charge farmers for FMD vaccine?

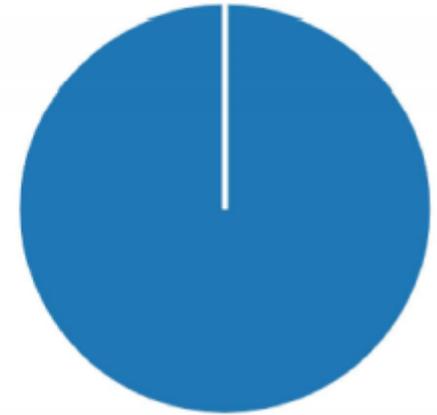
💡 Insights



Public Private partnership - vaccination

Does commercial farms required to conduct regular FMD vaccinations?

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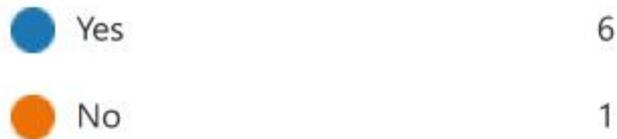
Are commercial farms required to submit FMD vaccination report to government?



Public Private partnership - vaccination

Are livestock traders required to have their animals vaccinated before shipments?

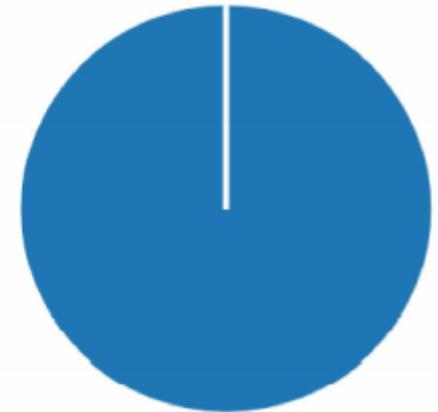
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Legislations

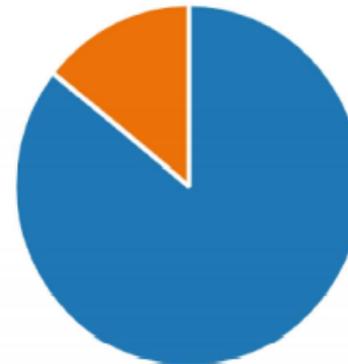
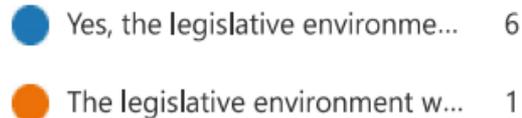
Are there any legislation related to FMD control and vaccination?

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Are the current legislation, regulations appropriate for the Veterinary Services to implement the needed vaccination campaign?

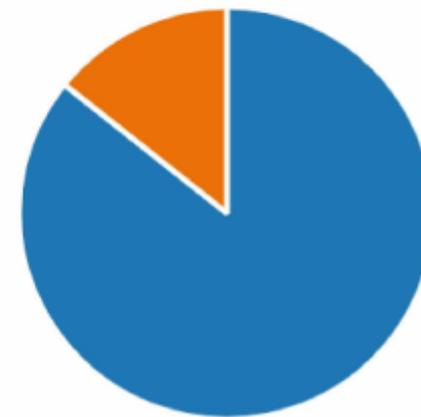
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Vaccine Registration

Are there any formal vaccine registration process in your country?

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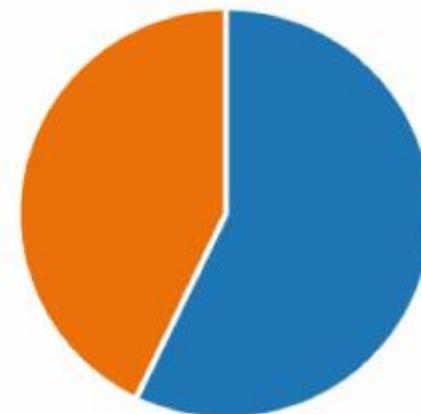
Are there any emergency vaccine registration process?

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Vaccine Procurement

Are there any formal procurement process to access FMD vaccines?



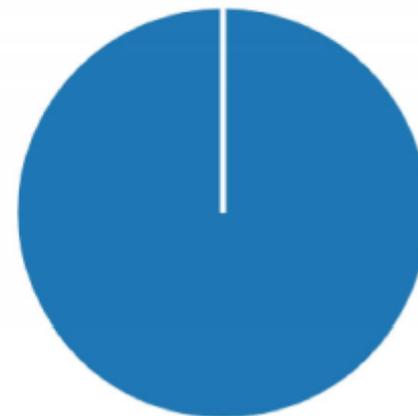
Are there any emergency procurement process?



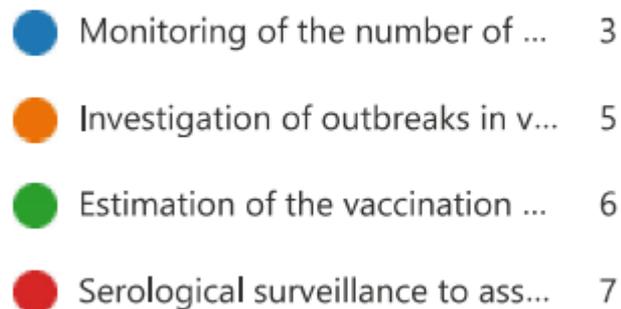
Post Vaccination Monitoring

Do you carry out any post-vaccination monitoring activities?

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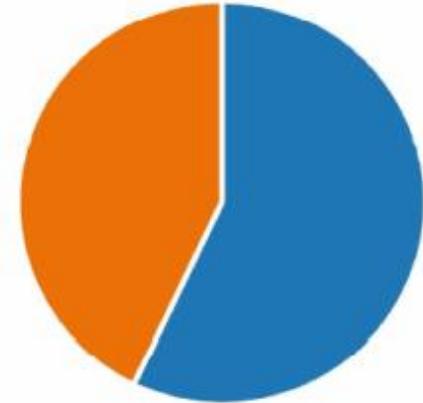


If Yes, what kind of activities are you conducting?



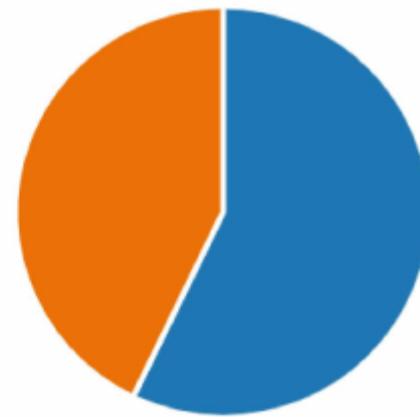
Post Vaccination Monitoring

Are you satisfied with the existing FMD vaccination coverage/population immunity?

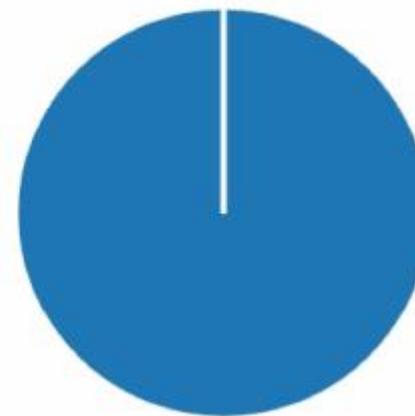


Post Vaccination Monitoring

Any FMD outbreak reported in the vaccinated herd?

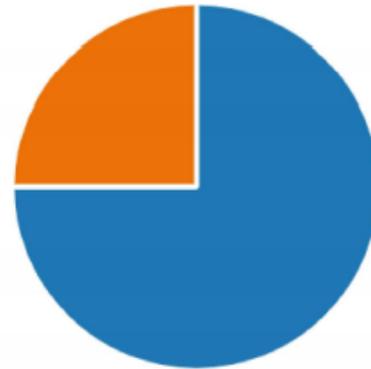


If yes, did you type the virus types/ strain?



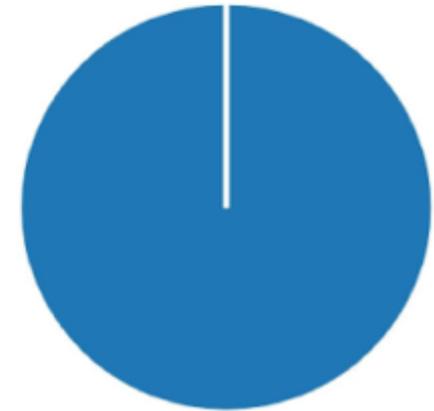
Post Vaccination Monitoring

Is the virus strain/ types involved in FMD outbreak similar to the vaccine types/ strain or due to another virus types/ strain?

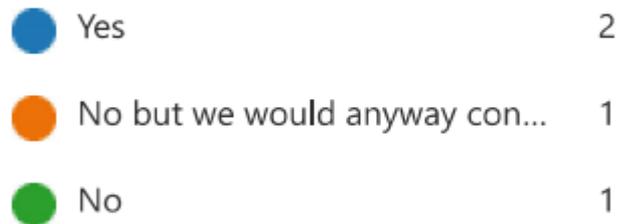


FMD Free countries

Do your country have an FMD Contingency Plan?



Is FMD emergency vaccination considered by your country?



FMD Free countries

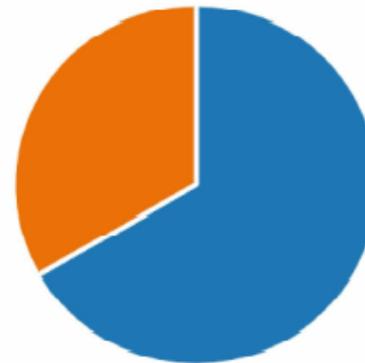
Is FMD emergency vaccination considered by your country?

● Yes	2
● No but we would anyway con...	1
● No	1



If not, have you identified the source/ company from where you will get the FMD vaccination in case of FMD recursion in your country?

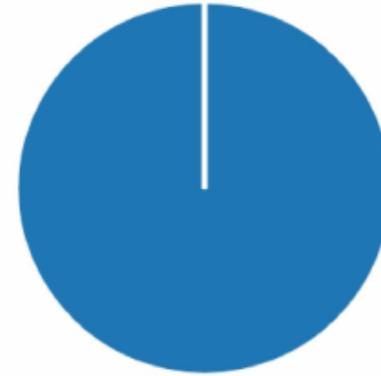
● Yes	2
● No	1



FMD Free countries

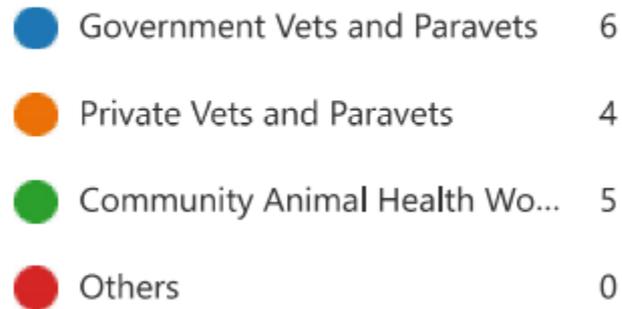
Is compliance with the OIE standard a prerequisite for the vaccine to be purchased/used in emergency?

Yes	3
yes, but in case of real emerge...	0
yes but the cost of the vaccine...	0
No	0

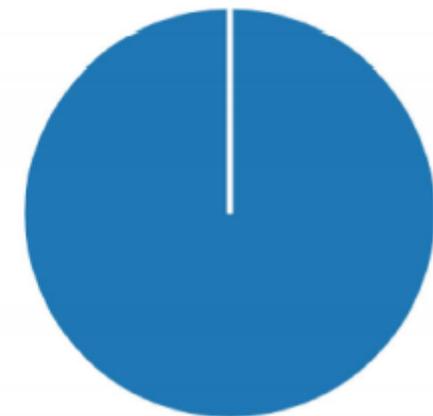


Logistics for FMD vaccination

Who carries out FMD vaccination in your country?

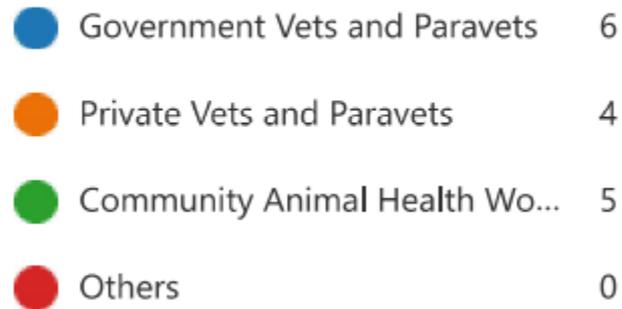


Do you train the vaccination team?



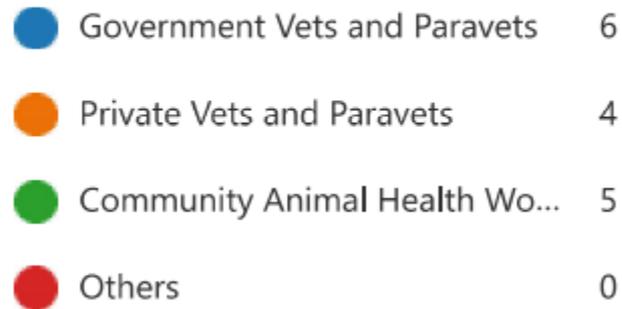
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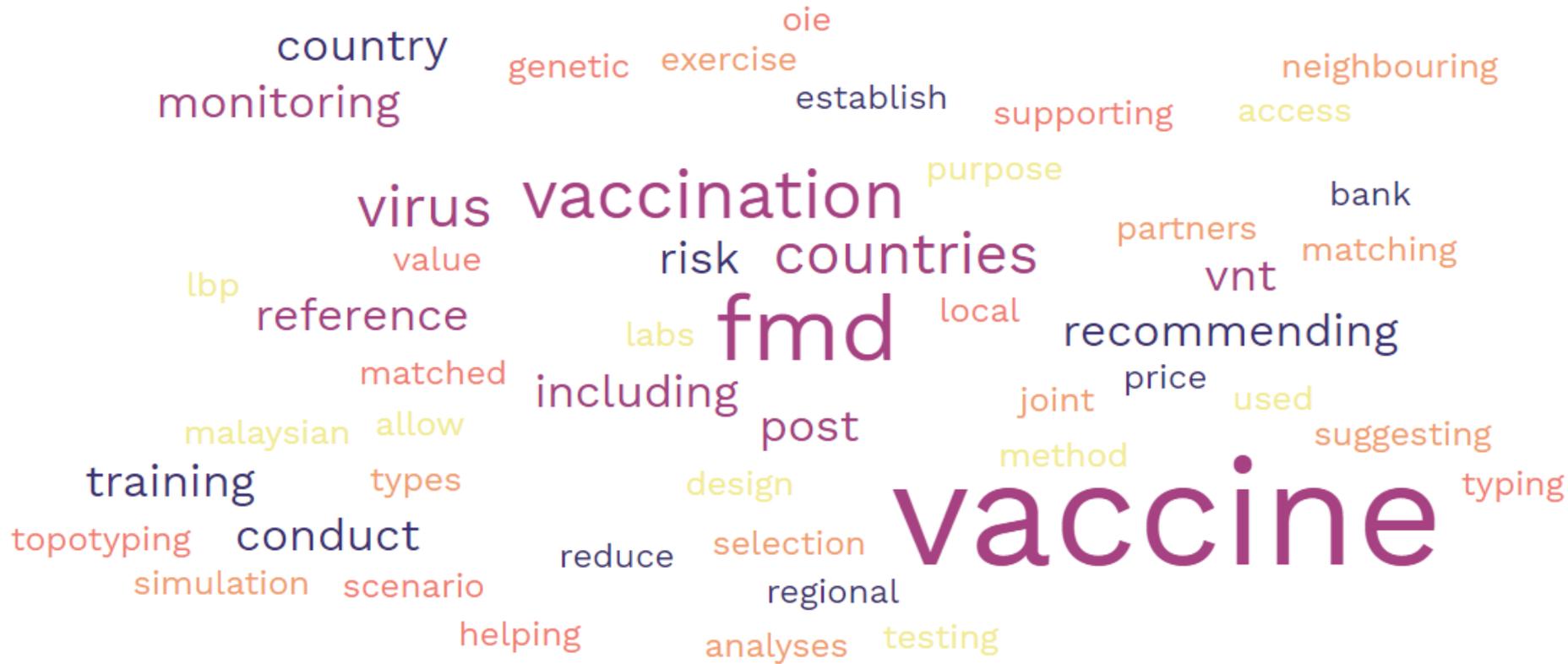


Logistics for FMD vaccination

Who carries out FMD vaccination in your country?



What support would you like OIE and other partners to provide to enhance FMD in vaccination in your country?



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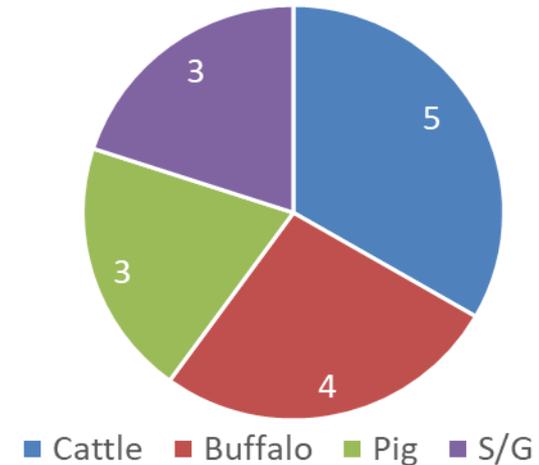
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FMD vaccination report

- Vaccination coverage
 - cattle (2 – 93%)
 - Buffalo (4 – 93%)
 - Pig (2 to 19%)
 - Sheep/Goat (4 to 99%)
- Vaccination coverage higher in those countries in higher FMD-PCP stage
 - For example - FMD vaccination coverage in cattle for PCP stage 3 is 44 to 62% and PCP stage 4 is 93%.

FMD Vaccination



Conclusion

- Survey provides useful information on:
 - Vaccination strategies
 - Types of vaccines used
 - Vaccination coverage
 - Existing legal instrument for procurement and registration of vaccines
 - Post vaccination monitoring activities
 - Challenges in FMD vaccination
- Way forward
 - Detail analysis and produce report with recommendations (for regional and country level)





Thank You
for your attention



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