

# GF-TADs Foot and Mouth Disease Risk Assessment Training Workshop

19 - 21 September 2023 Johannesburg, South Africa



agriculture, land reform  
& rural development

Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA



BMZ



Federal Ministry  
for Economic Cooperation  
and Development



# Performance of the Veterinary Services: Assessment Tools

WOAH PVS Tool and the PCP-FMD Self Assessment Tool

*Neo MAPITSE*

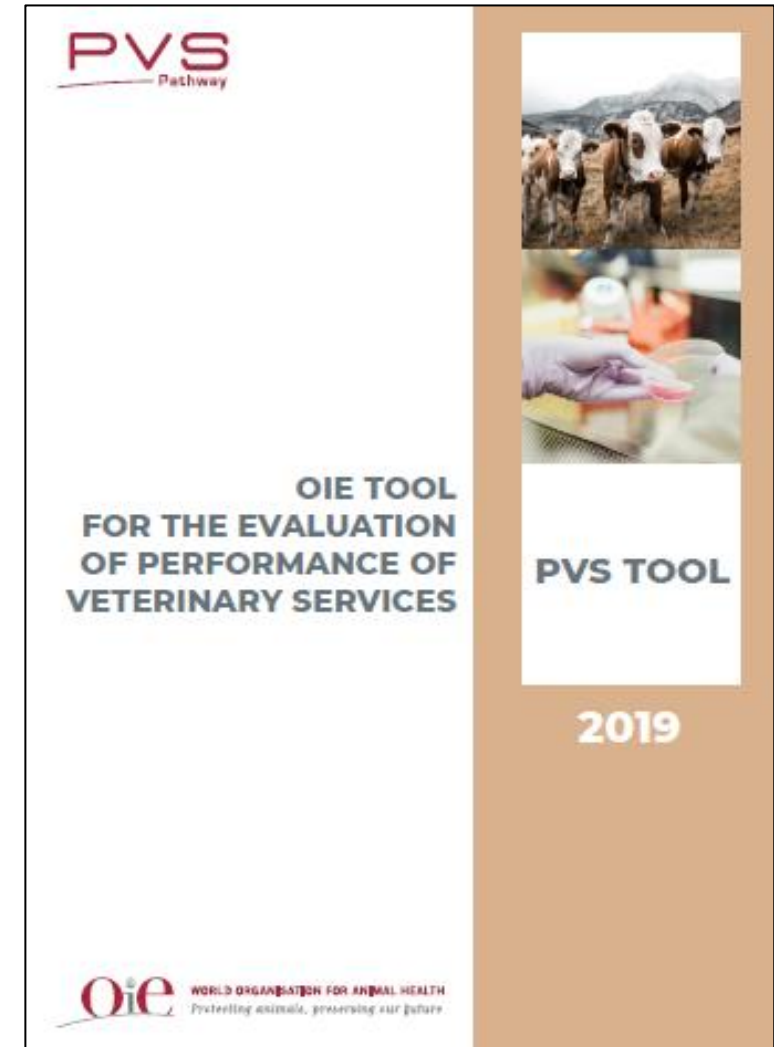
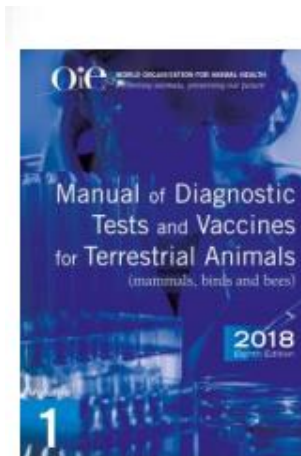
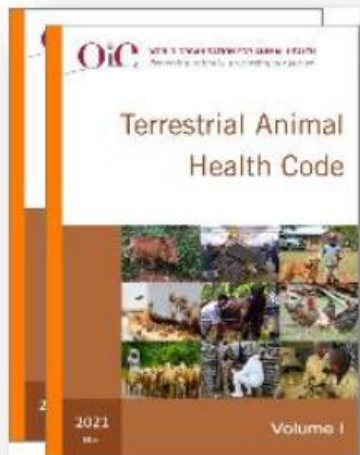
*Regional Activities Dept.*

*World Organisation for Animal Health*

# PVS Tool Objectives

The PVS Tool is designed to assess the performance of the VS by:

- Evaluating VS against TAHC standards (Terrestrial Code, Section 3- Quality of Vet Services)
- Identifying gaps and weaknesses in complying with WOAH International Standards
- Working with interested parties to develop a shared vision
- Identifying strategic initiatives and establishing priorities

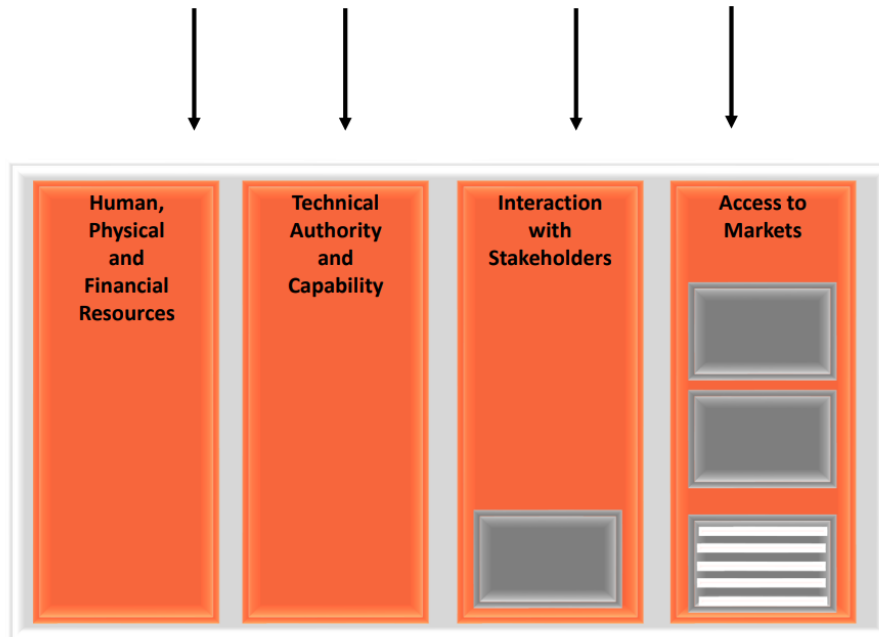


## Performance of Veterinary Services (PVS Tool)

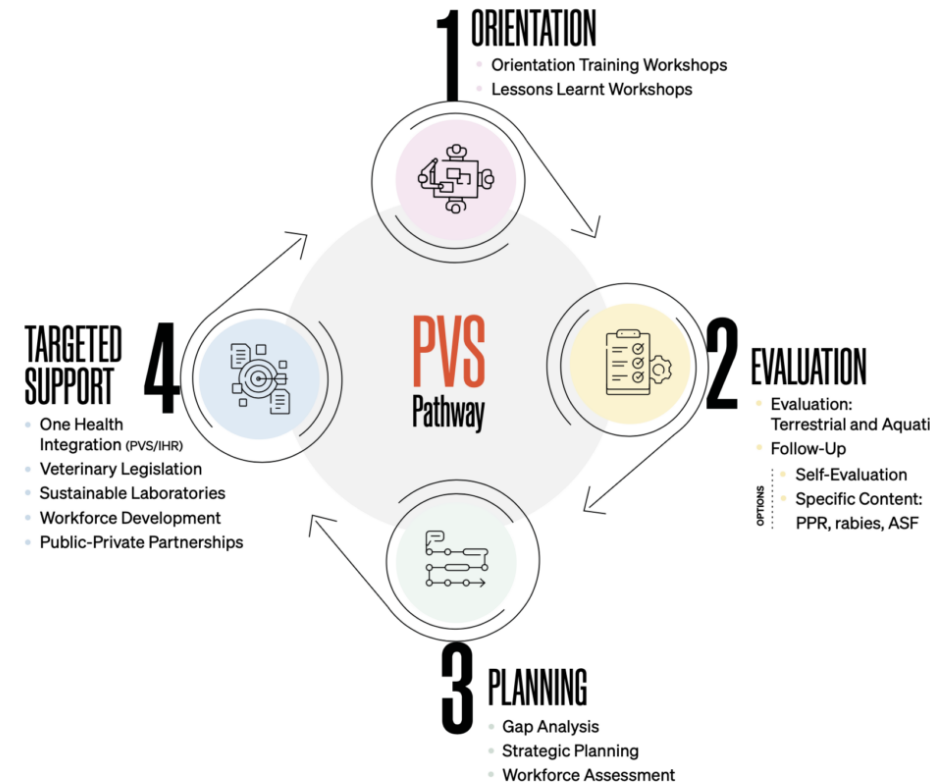
### An enabling environment for FMD control activities

- Evaluation : Independent and Self evaluation
- Structure:

#### 4 Fundamental Components



45 Critical Competencies  
5 Levels of Advancement





## Performance of Veterinary Services (PVS Tool)

**A Critical Competency (CC)** is:

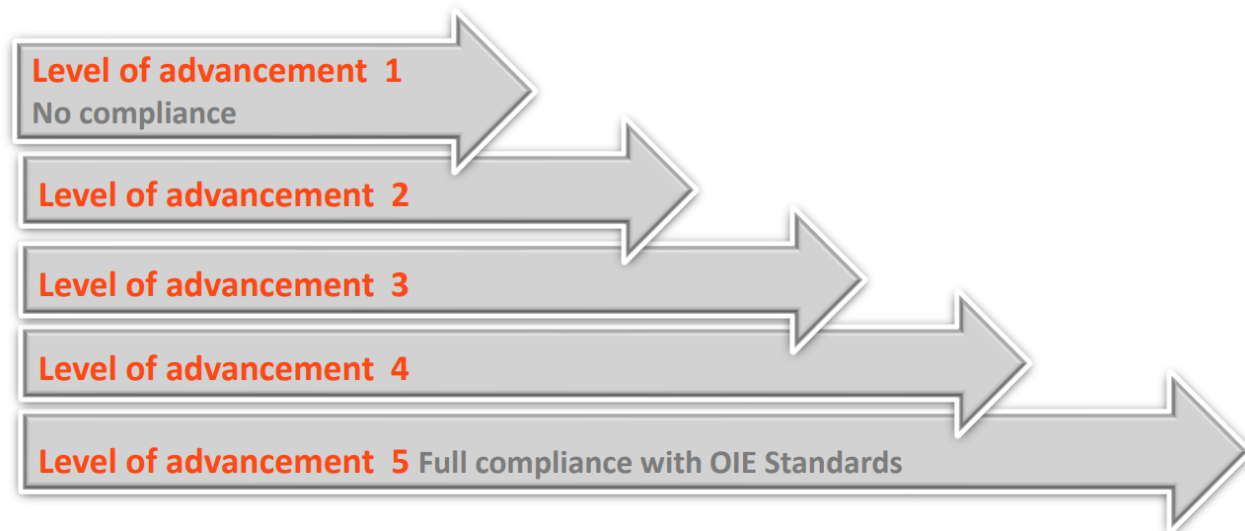
‘a specific competency required for the VS to comply with WOAHA standards’

45

Q – How many critical competences in WOAHA  
PVS evaluation tool **are directly relevant to FMD  
Control?**

35

For each critical  
competency, 5 levels of  
Advancement:



5

## Critical competency

### I-8. OPERATIONAL FUNDING

#### DEFINITION

The ability of the VS to access operational resources adequate for their planned and continued activities (e.g. salaries, contracts, fuel, vaccines, diagnostic reagents, personal protective equipment, per diem or allowances for field work).

#### LEVELS OF ADVANCEMENT

1. Operational funding for the VS is neither stable nor clearly defined and depends on irregular allocation of resources.
2. Operational funding for the VS is clearly defined and regular, but is inadequate for their required baseline operations (e.g. basic disease *surveillance*, disease control and/or veterinary public health).
3. Operational funding for the VS is clearly defined and regular, and is adequate for their baseline operations, but there is no provision for new or expanded operations.
4. Operational funding for new or expanded operations is on a case-by-case basis, and not always based on *risk analysis* and/or benefit-cost analysis.
5. Operational funding for all aspects of VS activities is generally adequate; all funding, including for new or expanded operations, is provided via a transparent process that allows for technical independence, based on *risk analysis* and/or cost-benefit analysis.

## Performance of Veterinary Services (PVS Tool)

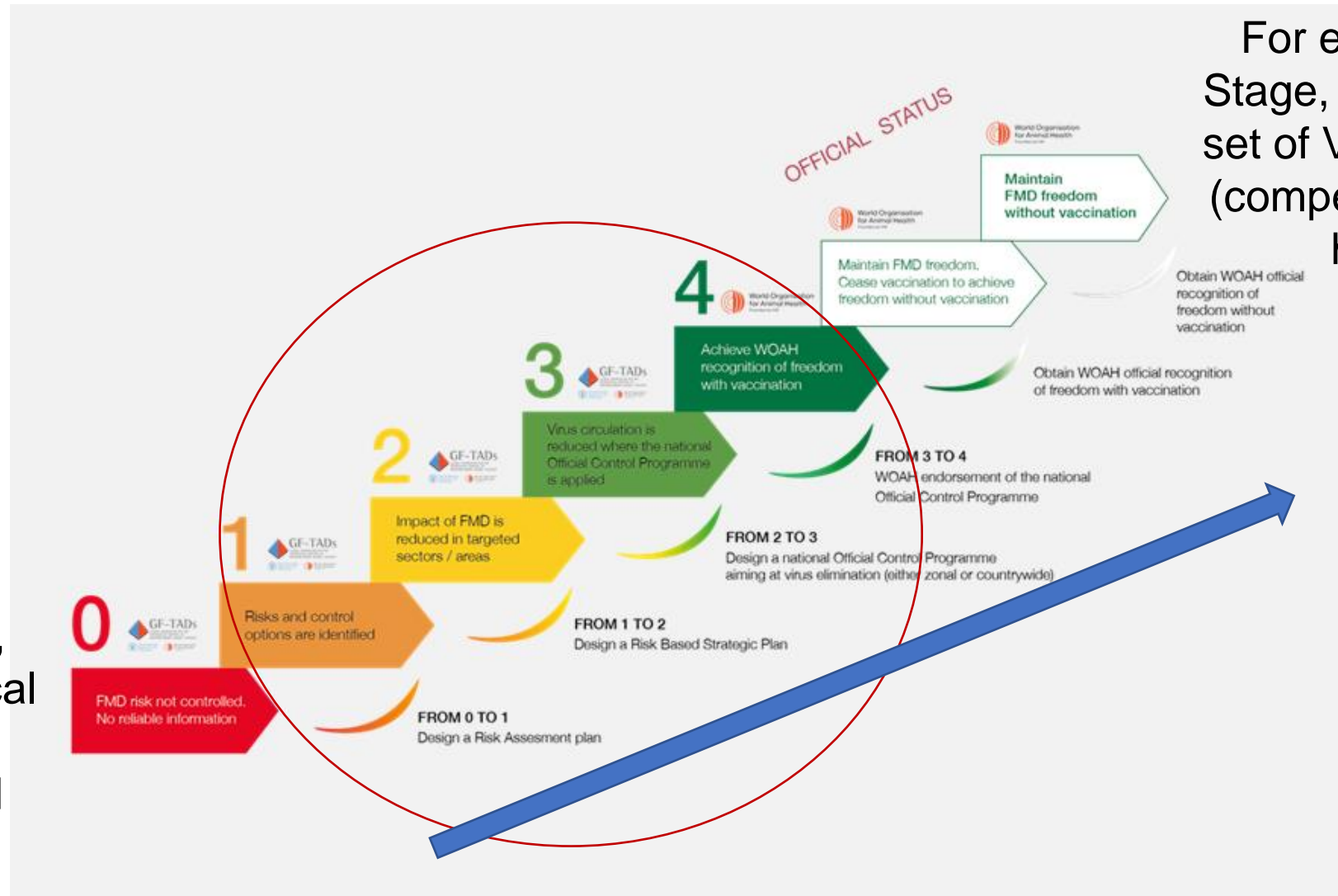
### Link PCP-FMD stages and PVS

- FMD PCP Stage 1  
13 CCs
- FMD PCP Stage 2  
26 CCs (= 13 + 13)
- FMD PCP Stage 3  
35 CCs (= 13 + 13 + 9)

### Different Levels of advancement (Stepwise)

Critical competences	PCP1	PCP2	PCP3
I.1.A. Veterinarians and other professionals	2	3	3
I.1.B. Veterinary para-professionals and other technical personnel	2	3	3
I.2.A. Professional competencies of veterinarians	3	3	3
I.2.B. Competencies of veterinary para-professionals	/	3	3
I.3. Continuing education	3	3	3
I.4. Technical Independence	/	/	3
I.5. Planning, sustainability and management of policies and programmes	/	/	3
I.6.A. Internal coordination (chain of Command)	/	3	3
I.7. Physical resources and capital investment	2	2	3
I.8. Operational funding	/	3	4
I.9. Emergency funding	/	/	3
II.1A Access to veterinary laboratory diagnosis	2	2	2
II.1B. Suitability of national laboratory system	/	2	3
II.1.C. Laboratory quality management system	/	/	2
II.2 Risk analysis and epidemiology	3	3	3
II.4 Quarantine and border security	/	/	3
II.4. Passive surveillance, early detection and outbreak investigation	/	2	3
II.4.B. Active surveillance and epidemiology	/	2	3
II.5 Emergency preparedness and response	/	/	3
II.6 Disease prevention, control and eradication	/	3	3
II.8B Ante- and post mortem inspection at abattoirs and associated premises	/	/	3
II.8. Veterinary medicines and biologicals	/	3	3
II.11 Animal feed safety	/	2	3
II.12.A. Herds, animal identification, tracing and movement control	/	/	3
II.12.B Identification, traceability and control of products of animal origin	/	/	2
III.1 Communications	2	3	4
III.2 Consultation with stakeholders	3	3	3
III.3 Official representation	2	3	3
III.5. Regulation of the profession by Veterinary Statutory Body	/	2	3
III.7. Veterinary Clinical Services	/	2	3
III.6 Participation of producers and stakeholders in joint programs	2	3	3
IV.1.A. Veterinary legislation quality and coverage	2	2	3
IV.2.B. Implementation of legislation & compliance	/	2	3
IV.5. Transparency	2	3	3
IV.6 Zoning	/	2	3

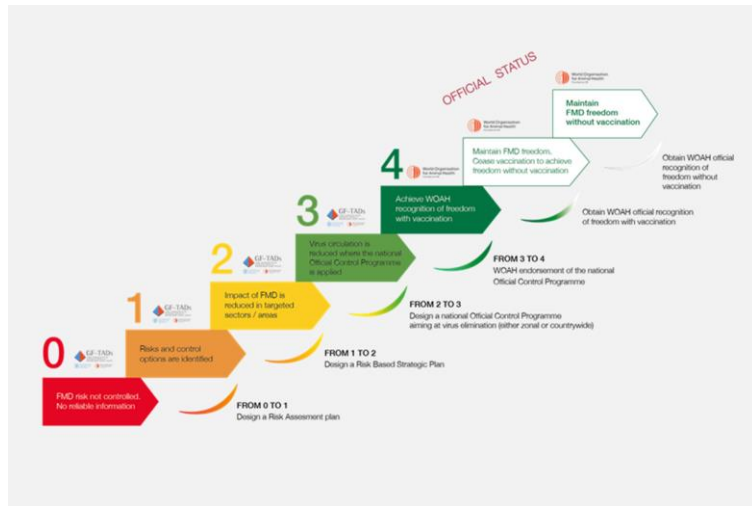
## Performance of Veterinary Services (PVS Tool)



For each PCP Stage, there are a set of VS capacity (competences) to have

For each PCP Stage, there are a set of 'typical FMD activities' to implement. Expected outcomes.



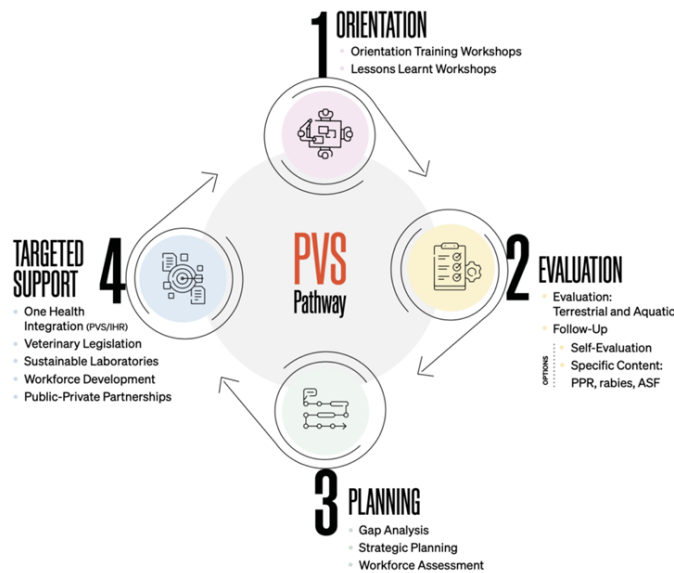


**PCP STAGE 1 FOCUS:** “To gain an understanding of the epidemiology of FMD in the country and develop a risk-based approach to reduce the impact of FMD ”



What is needed at the end of PCP1?

- CC I.9 Emergency funding or
- CC III. 2 Consultation with stakeholders or
- CC I.4 Technical independence



# The PVS CCs relevant to FMD control in the RAP and RBSP

## RAP

## RBSP

### Risk Assessment Plan for FMD

Table 2B: for OIE PVS missions conducted after 2019 ([7<sup>th</sup> Edition](#) of the PVS tool). (/): Critical Competencie that will be critical at later PCP-FMD Stages.

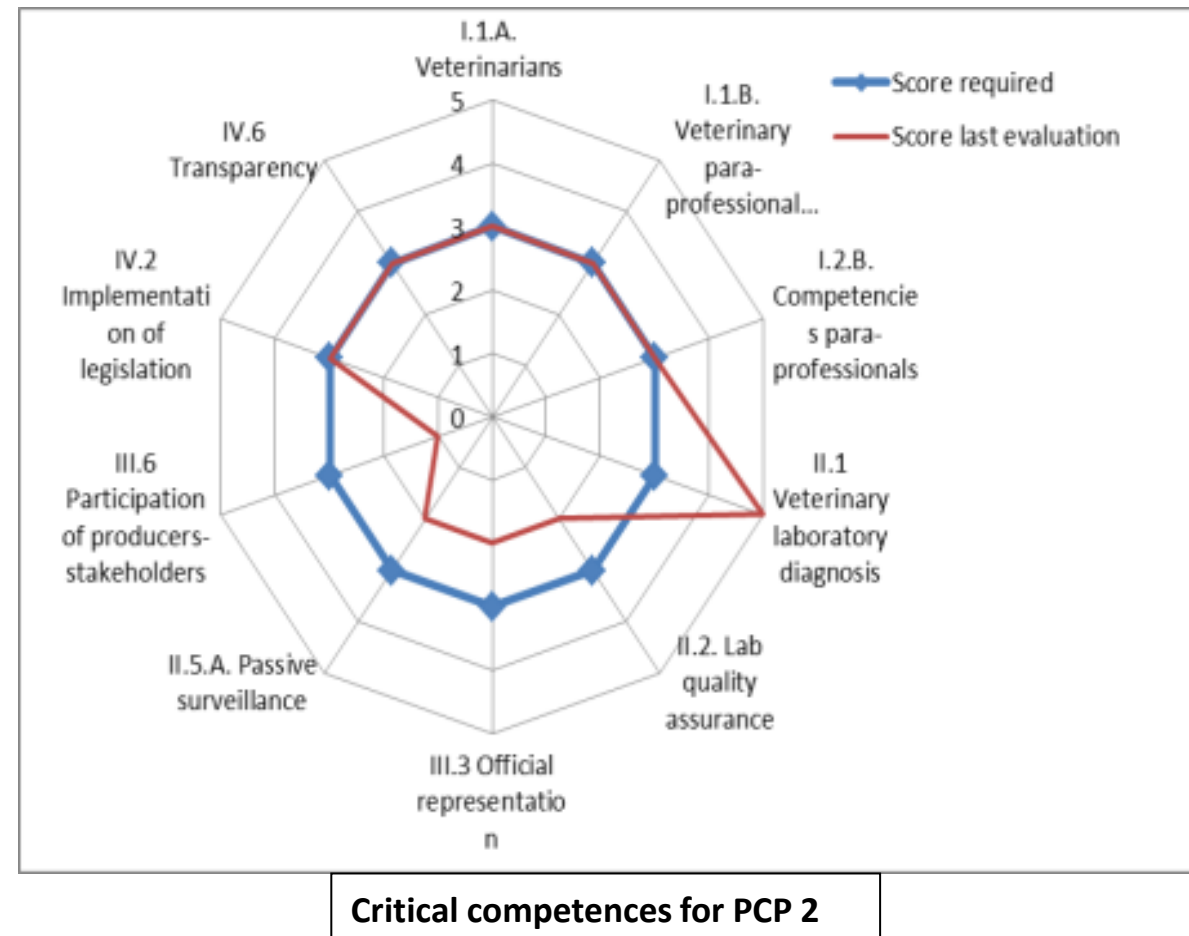
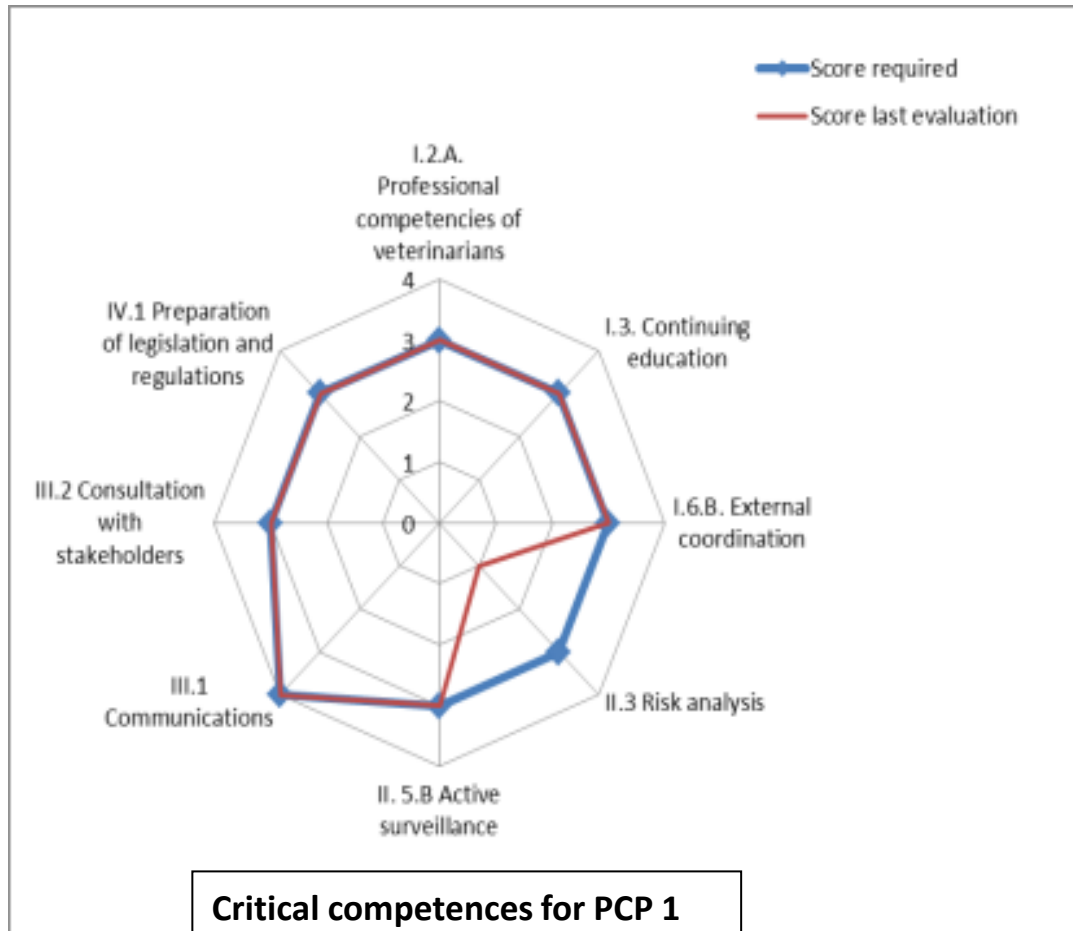
OIE PVS Critical Competencies Relevant to FMD Control <small>As per the OIE Tool for the Evaluation of Performance Veterinary Services (OIE PVS Tool) <a href="#">Seventh edition</a> (2019)</small>	Expected CC level			Country's CC level		Output(s) relevant to improve the CC (use chapter 3, e.g. 1.1; 1.2 etc.)
	PCP-FMD Stage 1	PCP-FMD Stage 2	PCP-FMD Stage 3	PVS mission	Self-evaluation	
I.1.A. Professional and technical staffing of veterinarians and other professionals (university qualified)	2	3	3			
I.1.B. Professional and technical staffing of veterinary para-professionals	2	3	3			
I.2.A. Competencies and education of veterinarians	2	3	4			
I.2.B. Competencies and education of veterinary para-professionals	/	3	3			
I.3. Continuing education	2	3	3			
I.4. Technical Independence	/	/	3			
I.5. Planning sustainability						

### Risk-Based Control Strategy for FMD

Table 3B: for OIE PVS missions conducted after 2019 ([7<sup>th</sup> Edition](#) of the PVS tool). (/): Critical Competencie that will be critical at later PCP-FMD Stages.

OIE PVS Critical Competencies Relevant to FMD Control <small>As per the OIE Tool for the Evaluation of Performance Veterinary Services (OIE PVS Tool) <a href="#">Seventh edition</a> (2019)</small>	Expected CC level			Country's CC level		Output(s) relevant to improve the CC (use number(s) from chapter 3, e.g. 1.1; 1.2 etc.)
	PCP-FMD Stage 1	PCP-FMD Stage 2	PCP-FMD Stage 3	PVS mission	Self-evaluation	
I.1.A. Professional and technical staffing of veterinarians and other professionals (university qualified)	2	3	3			
I.1.B. Professional and technical staffing of veterinary para-professionals	2	3	3			
I.2.A. Competencies and education of veterinarians	2	3	4			
I.2.B. Competencies and education of veterinary para-professionals	/	3	3			
I.3. Continuing education	2	3	3			
I.4. Technical Independence	/	/	3			
I.5. Planning, sustainability and management of policies						

# Examples of outcomes of an assessment







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# The Self-Assessment Tool of the Progressive Control Pathway for Foot-and- Mouth Disease

## SAT-v2

## Tutorial



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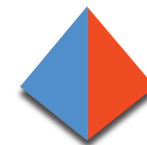


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# The Self-Assessment Tool of the Progressive Control Pathway for Foot-and- Mouth Disease

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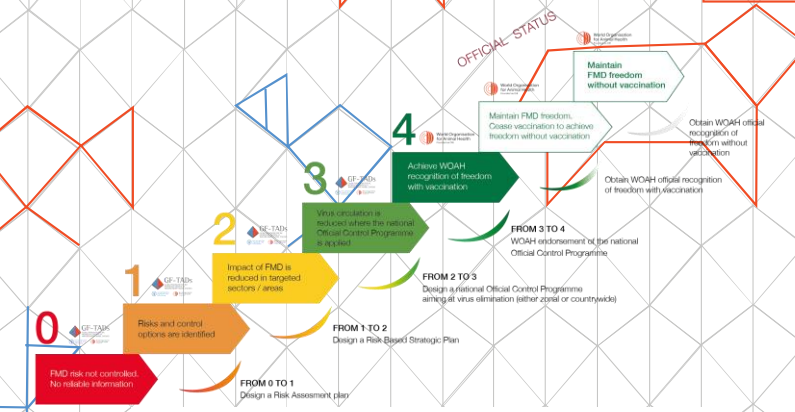
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# Objectives of the SAT v2



- Self-assess your country's progression along the PCP-FMD stages 0-3
- Identify the gaps and needs in the short and medium term,
- Guide and facilitate the communication with national decision-makers and development partners
- Used during Regional PCP-FMD Roadmap meetings to assist the Regional Advisory Group to assess the PCP-FMD Stage for each country



**GF-TADs**  
 Progressive control pathway for FMD (PCP-FMD)  
 TOOLS FOR THE PROGRESSIVE CONTROL OF TRANSBOUNDARY ANIMAL DISEASES





# Introduction to the SAT-v2



FMD\_SAT\_v2.xlsx - Excel

The Self-Assessment Tool for the foot-and-mouth disease Progressive Control Pathway (version 2) (SAT-FMD-v2)

This version of the Self Assessment Tool (SAT-FMD v2) is being piloted to replace the former Self-assessment Questionnaires and SAT.

The SAT-FMD-V2 is intended to help to understand how well a country is progressing on PCP-FMD Stages 1, 2 and 3. Thirty-six indicators have been defined across four categories that are critical for FMD control (1) Livestock and Stakeholders, 2) Surveillance and Diagnostics, 3) Prevention, control and evaluation and 4) Veterinary Services). For each indicator, criteria for assigning a score between 1-4 are provided. **Please note that the scores DO NOT directly correspond to the PCP-FMD stage.** Each score has been mapped to the appropriate stage of the PCP-FMD, provided in the "SAT-PCP correspondence" tab.

The actual acceptance into PCP-FMD Stages 1, 2 or 3 depends on the assessment by the Regional Advisory Group (RAG) with support from the GF-TADs FMD Working Group (WG). To apply for PCP-FMD Stages 1, 2 or 3, the country has to have an accepted Risk-Assessment Plan (RAP), Risk-Based Strategic Plan (RBSP) or Official Control Programme (OCP) respectively. This is indicated in the 'Country Information' section of the tool.

**More details are given in the "Instructions" section.** Once all sections have been completed, this SAT produces a summary to support countries prioritizing the activities needed to progress FMD control in the short and medium terms. The summary is also helpful for the RAG and the GF-TADs FMD WG to get a good understanding about the FMD control activities in place in your country. In addition, the output will be helpful to discuss with national authorities, external donors and international organizations the short and medium term gaps and needs that require support and attention.

We hope that this SAT-FMD-v2 is helpful to you and your Veterinary Services to prioritize the next steps to progressive FMD control.

For more information, please do not hesitate to contact the GF-TADs FMD WG at: [FAO-FMD@fao.org](mailto:FAO-FMD@fao.org); [WOAH-FMD@WOAH.org](mailto:WOAH-FMD@WOAH.org); and/or [Eufmd@fao.org](mailto:Eufmd@fao.org);

<a href="#">Instructions</a>	Instructions for the use of the PCP-FMD Self Assessment Tool	<a href="#">SAT-PCP Correspondence</a>	Matrix showing how the SAT indicator scores are related to the PCP-FMD
<a href="#">Country Information</a>	Provides information about the country, the assessor and previous assessments (if any)	<a href="#">Summary</a>	Scores for the 4 SAT-FMD categories and an overall score will be automatically calculated and graphics generated. A narrative description can be added by the assessor, to discuss results (e.g. strengths and gaps, evolution between several assessments) and main conclusions.
<a href="#">Self-Assessment questionnaire</a>	The SAT-FMD-V2 questionnaire includes 4 categories and 36 indicators. For each indicator, one out of four options can be selected		

SAT-FMD Version 02

Introduction | Instructions | Country Information | SAT-FMD Questionnaire | Results Summary | SAT-PCP correspondence

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Introduction

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# Instructions and help



FMD\_SAT\_v2.xlsx - Excel

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Instructions for the use of the Self Assessment tool for the PCP-FMD ver.02

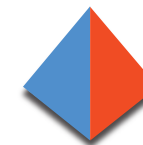
- Please fill the information regarding the country in the "Country Information" sheet. Details on the country and assessor (name, email, affiliation, etc.) as well as the country information about the PCP-FMD is to be completed.
- The assessment is best carried out by a team, ideally including national experts in epidemiology, diagnostics, socio-economics and policy.
- Carefully review the "SAT-FMD Questionnaire" and check the notes for additional information.
- In the 'Assigned Score' column (I), use the dropdown menu to assign one score (per row) which best describes the situation for each indicator based on your assessment and evaluation. Check "N/A" (column H) if information is not applicable. If N/A is selected, this indicator will not be taken into consideration for the scores in the Summary.
- If situation stands between two scores, please select one score and describe the reason for hesitation in the column for comments (column K).
- For analysis, once the "SAT-FMD Questionnaire" sheet has been filled, use the "Result Summary" sheet to visualise the scores for the 4 different SAT-FMD categories and total score, that will be automatically calculated and graphics generated.

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**Please read the instructions**



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# Country information

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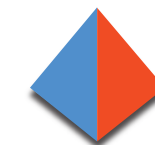
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Information on the country assessment		Members of the FMD national task force			
<b>* : Compulsory information</b>		<b>Name - Surname</b>	<b>E-mail</b>	<b>Institute</b>	<b>Department</b>
Country name*					
Prepared by:*					
Position:*					
E-mail:*					
Department:					
Institution:*					
Date prepared:*(mm/yyyy)					
Mobile:					
Position/Occupation of stakeholders/staff interviewed for assessment:*					
<b>Information about the PCP-FMD</b>		<a href="#">← Go to previous page</a> <a href="#">Go to next page →</a>			
For more information, please consult the GF-TADs website					
Current PCP-FMD stage (choose only one from the dropdown list)					
Date (year) of acceptance to this Stage					
FMD Control Strategy document (choose only one from the dropdown list)					
Has the control strategy been officially endorsed by the Veterinary Authority?					
<b>Information about previous SAT assessment(s)</b>					
Date of previous assessment (B) (mm/yyyy)					
Name of assessor(s) for previous assessment (B)					
Affiliation of assessor(s) for previous assessment (B)					
Date of previous assessment (A) (mm/yyyy)					
Name of assessor(s) for previous assessment (A)					
Affiliation of assessor(s) for previous assessment					
Additional Comments					
<b>Information on PVS missions carried out</b>					
For more information, please consult the WOAHP website					
Type of PVS (most recent) (choose only one from the dropdown list)					
Date (year)					
Type of PVS (choose only one from the dropdown list)					

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➤ FMD taskforce team



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# The Questionnaire



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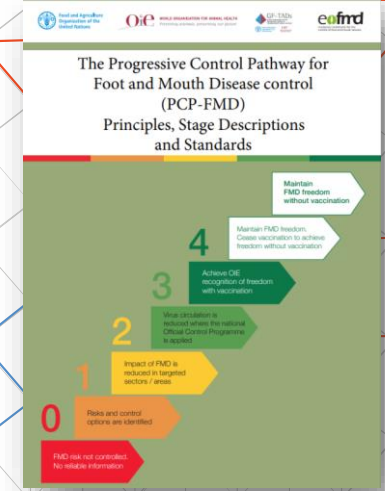
AQS

Self Assessment for the PCP-FMD Questionnaire (v1.0)

SELECT ONLY 1 OPTION per row THAT BEST DESCRIBES THE SITUATION and complete "Assigned Score" (Column I) scoring either 4, 3, 2, 1 or "N/A" if Not Applicable. If N/A is selected, this indicator will not be taken into consideration for the scores in the Summary.

Indicator No.	Component	Category	Topic	4	3	2	1	Assigned Score	Notes	COMMENTS
1	Livestock sector and stakeholders	Livestock population	Epidemiological units	A complete and up-to-date list of epidemiological units (ie farms or villages with susceptible species) is available for the purposes of FMD control. The information about epidemiological units is geo-referenced and stored on a centralised information system.	A complete and up-to-date list of epidemiological units (ie farms or villages with susceptible species) is available for the purposes of FMD control.	A list of epidemiological units is available, but it is not complete or it is out-of-date (more than approximately 5 years old).	There is no list of epidemiological units available.		It is important to know the total number and spatial distribution of epi-units with FMD susceptible livestock in order to plan surveillance and put the information about outbreaks in context.  The geographic location of all epi-units is needed in the later stages of the PCP-FMD when rapid detection and response to all FMD outbreaks is essential.	
2	Livestock sector and stakeholders	Livestock population	Susceptible species	Complete and up-to-date information about the number and location of susceptible species is available for the purposes of FMD control/disease control for the entire country. The information is geo-referenced and stored on a centralised information system.  Information about susceptible wildlife populations is also available (i.e. estimated number and distribution).	Complete and up-to-date information about the number and location of susceptible species is available in areas of the country where the FMD control program is active.  Information about susceptible wildlife populations is available (i.e. estimated number and distribution) but may be incomplete.	The numbers of susceptible species are available by administrative sub-unit (ie district or province), but may be incomplete or out-of-date (more than 5 years old).	There is little or no information about the number or location of susceptible species.		Information about the number and spatial distribution of FMD susceptible livestock is needed in order to plan surveillance, and put the information about outbreaks in context.  Information about the number and distribution of susceptible species is needed to plan, implement and evaluation vaccination and other control measures.	
3	Livestock sector and stakeholders	Socio-economics	Value chain description and mapping	The value chains of all FMD susceptible species present in the country are described in up-to-date reports (within the last 5 years) including a description of: • milk/meat production trends • animal movements within the country including international movements, transhumance as well as local movements.	The value chains of key FMD susceptible species present in the country are described in up-to-date reports (within the last 5 years) including a description of: • milk/meat production trends • live-animal movements within the country including informal movements as well as imports and exports (origin, destination, destination).	The value chains of some FMD susceptible species have been studied, but the reports are incomplete or not validated or not up-to-date.	The livestock value chains have not been studied or analysed.		Value-chain analysis is needed to get a good understanding of the livestock sector (population size, distribution, stakeholders involved,	

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➤ 36 indicators  
➤ 4 attainment levels  
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# Results summary



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Category	Topic	PCP-FMD stage that corresponds to country score				
		0	1	2	3	4
Livestock population	Epidemiological units			2		
Livestock population	Susceptible species			2		
Socio-economics	Value chain description and mapping	1				
Socio-economics	Socio-economic impact			2		
Stakeholders	Stakeholder engagement and compliance			2		
Surveillance tools and procedures	Case definition	1				
Surveillance tools and procedures	Outbreak investigation	1				
Surveillance tools and procedures	Passive surveillance: reporting			2		
Surveillance tools and procedures	Passive surveillance: awareness				3	
Surveillance tools and procedures	Active surveillance				3	
Surveillance tools and procedures	Sequencing				3	
Surveillance tools and procedures	Virology				3	
Surveillance tools and procedures	Vaccine matching				3	
Data management	Collation of data and information				3	
Data management	Information systems			2		
Data management	Data analysis			2		
Data management	Risk assessment			2		
Communication	Result dissemination				3	
Movement controls	Internal animal movements			2		
Movement controls	Animal identification			2		

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PCP Stage	Livestock sector and stakeholders	Surveillance and diagnostics	Prevention control and evaluation	Veterinary Services	OVERALL
1	100%	100%	100%	100%	100%
2	80%	85%	91%	86%	86%
3	0%	54%	27%	57%	39%
4	0%	0%	9%	0%	3%
Reliability*	100%	100%	100%	100%	100%

\*Reliability is a measure of how many questions were answered. 90%-100% is considered reliable (● green). From 70%-89% is considered medium (● yellow). Less than 70% is considered low reliability (● red).

Level of progress along the PCP-FMD, by stage

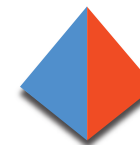
Legend: Livestock sector and stakeholders (blue), Surveillance and diagnostics (orange), Prevention control and evaluation (grey), Veterinary Services (yellow), OVERALL (dark blue)

100% 90% 80% 70% 60% 50% 40% 30% 20%

1 2 3 4

PCP-FMD Stage

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# Results summary



	PCP Stage	Livestock sector and stakeholders	Surveillance and diagnostics	Prevention control and evaluation	Veterinary Services	OVERALL
% completed	1	100%	100%	100%	100%	100%
	2	80%	85%	91%	86%	86%
	3	0%	54%	27%	57%	39%
	4	0%	0%	9%	0%	3%
Reliability*		● 100%	● 100%	● 100%	● 100%	● 100%

\*Reliability is a measure of how many questions were answered. 90%-100% is considered reliable (● green). From 70%-90% is considered medium (● yellow). Less than 70% is considered low reliability (● red).



# SAT scores and PCP-FMD Stages correspondence



Correspondence between FMD-SAT scores and PCP-FMD stages (For information only)

Indicator No.	Component	Category	Topic	FMD-SAT scores				PCP-FMD stages				
				4	3	2	1	PCP 0	PCP 1	PCP 2	PCP 3	PCP 4+
1	Livestock sector and stakeholders	Livestock population	Epidemiological units	A complete and up-to-date list of epidemiological units (ie farms or villages with susceptible species) is available for the purposes of FMD control.  The information about epidemiological units is geo-referenced and stored on a centralised information system.	A complete and up-to-date list of epidemiological units (ie farms or villages with susceptible species) is available for the purposes of FMD control.	A list of epidemiological units is available, but it is not complete or it is out-of-date (more than approximately 5 years old).	There is no list of epidemiological units available.	1	2	2	3	4
2	Livestock sector and stakeholders	Livestock population	Susceptible species	Complete and up-to-date information about the number and location of susceptible species is available for the purposes of FMD control/disease control for the entire country. The information is geo-referenced and stored on a centralised information system.  Information about susceptible wildlife populations is also available (i.e. estimated number and distribution).	Complete and up-to-date information about the number and location of susceptible species is available in areas of the country where the FMD control program is active.  Information about susceptible wildlife populations is available (i.e. estimated number and distribution) but may be incomplete.	The numbers of susceptible species are available by administrative sub-unit (ie district or province), but may be incomplete or out-of-date (more than 5 years old).	There is little or no information about the number or location of susceptible species.	1	2	2	3	4
				The value chains of all FMD susceptible species present in the country are described in								

Introduction | Instructions | Country Information | SAT-FMD Questionnaire | Results Summary | **SAT-PCP corresponden**

## GF-TADs

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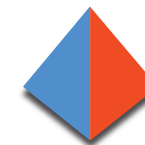
World Organisation  
for Animal Health  
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Request for assistance?

Please contact the GF-TADs FMD Working Group at  
[FAO-FMD@fao.org](mailto:FAO-FMD@fao.org) and [WOAH-FMD@woah.org](mailto:WOAH-FMD@woah.org)

Thank you



**GF-TADs**

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