

FAO-OIE GLOBAL FMD CONTROL STRATEGY

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WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

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Contents

- **FMD WG vision and workplan**
- **Resource documents**
- **Progress on the implementation of the global Strategy**
- **FAO and OIE activities contributing to the global strategy**
- **Challenges and priorities**

35th GF-TADs FMD WG meeting

(29-30 Jan, 2019 Rome, Italy)

Conclusions of the meeting were to:

- Leverage on synergies with PPR and Rinderpest Secretariats
- Strengthen collaboration with partners on implementation of the FMD Global Strategy
 - SWOT analysis of regional dynamics and identify areas of high impact
 - Regional Economic Communities, AU-IBAR, FAO and OIE regional and national offices, Ref centres

Per GF-TADs gsc10 recommendation:

- Develop socioeconomic guidelines for impact assessment
- Develop a strategic plan for resource mobilisation and advocacy with partners
- Increase awareness at national level and visibility

Vision and Action Plan 2019-2020

Mitigating the challenges

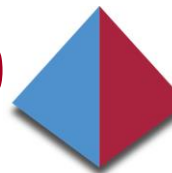
- At least one roadmap meeting for all sub-regions
- Socio-economic guidelines
- Support from Reference Laboratories
- Strengthening of the existing lab and epi networks
- Coordination of regional efforts
- Engagement of key stakeholders, donors and decision makers
- PCP support officer system
- Resource mobilization

Strategy	Activity	1st Semester	2nd semester
1.	Collection of Point of Contacts (PCP, epi, lab)		
1.	Conduct PCP e-learning/webinar (before each RM)		
1.	PCP train the trainers (TACWOT) officers (20 people)		
1.1.2.	Develop Guidelines on socio-economic		
1.1.3 & 1.2.1	Expert teams to run 2 national workshops (to support development and implementation of RAP (5 countries to be identified) (per country)		
1.2.1 & 1.2.2	2 national workshops to support development and implementation of RUSP (countries to be identified eg. Bangladesh) (per country)		
1.1.4	Creation Roadmap scenarios in each RM regions (ToR) (progressively, in the regions where roadmaps are conducted)		
1.5.2	Creation of a Global Expert Group (GEG) + workshop for 10 experts		
1.6.1.	Second edition of PCP guidelines		
1.6.1.	Finalize and publish guidelines RAP		
1.6.1.	Drafting National Control Plan		
1.6.1.	Review check list questionnaires		
1.6.1.	Template for Member Countries report (ppt) for PCP stages 1-3		
1.6.1.	Template for Roadmap report		
2.1.1.	Identify and strengthen existing lab network and create lab network in the remaining regions-leader nomination		
2.1.1.	Physical/electronic meeting of the network (Westafrica 2017, Middle East 2018-2019)		ML
2.1.1.	Specific lab training (through lab network). Needs specific - 1 workshop	WFA	MF



Working Group workplan 2019-2020

Seven strategic objectives and activities



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GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



Promote the adoption & implementation of the PCP



Increase vaccine effectiveness



Ensure sufficient and sustainable laboratory competencies in all regions



Vet services and their infrastructure are improved following the PVS pathway



Improve epidemiology competencies



Synergies with other TAD control programmes



Ensure sustainability and safeguarding of the implementation of the global strategy

Resource documents

- PCP guidelines updated and published; RAG, fast track, roadmap platform (2nd Edition)
- Risk Assessment Plan template prepared
 - PCP stage 0 to 1 (English and to French) and training is ongoing
- Official control plan template is in review (for moving to stage 3)
- Electronic questionnaires for PCP stage self-assessment assessment




FAO-OIE FMD Vaccination & Post-vaccination Monitoring Guidelines



Translation
Arabic **French** **Russian**

Communication and awareness: GF-TADs website



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GF-TADS AND FMD

- ▶ PROGRESS ON FMD CONTROL STRATEGY
- ▶ ROADMAPS
- ▶ **EVENTS**

8th West Eurasia Roadmap Meeting for the Foot-and-Mouth Disease Progressive Control Pathway (FMD-PCP)

Shiraz, Iran
04 Mar 2019 - 06 Mar 2019
Keywords: Foot-and-Mouth (FMD) , Asia, Europe

1st Central Africa Roadmap Meeting on the Foot-and-Mouth Disease Progressive Control Pathway (FMD-PCP)

Douzla, Cameroon
25 Sep 2018 - 27 Sep 2018
Keywords: Foot-and-Mouth (FMD) , Africa

3rd East African Roadmap Meeting on the Foot-and-Mouth Disease Progressive Control Pathway (FMD-PCP)

Entebbe, Uganda
03 Jul 2018 - 05 Jul 2018
Keywords: Foot-and-Mouth (FMD) , Africa

4th Middle East Roadmap Meeting for the Foot-and-Mouth Disease Progressive Control Pathway (FMD-PCP)

Amman, Jordan
17 Oct 2017 - 19 Oct 2017
Keywords: Foot-and-Mouth (FMD) , Middle East

2nd SADC Roadmap Meeting on the Foot-and-Mouth Disease Progressive Control Pathway (FMD-PCP)

Dar es-Salaam, Tanzania
11 Sep 2017 - 13 Sep 2017
Keywords: Foot-and-Mouth (FMD) , Africa

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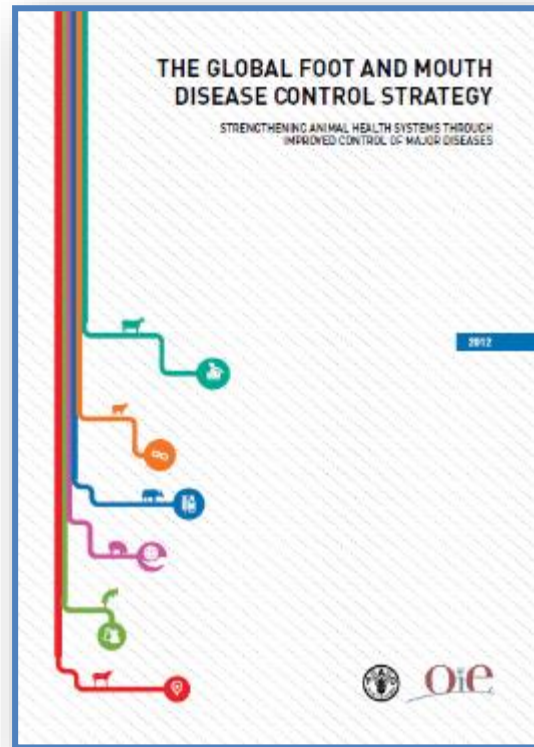
Comments and suggestions: GF-TADs webmaster

Global FMD Control Strategy

Three components



1. Disease control to freedom status



2. Veterinary Services reinforcement

PCP

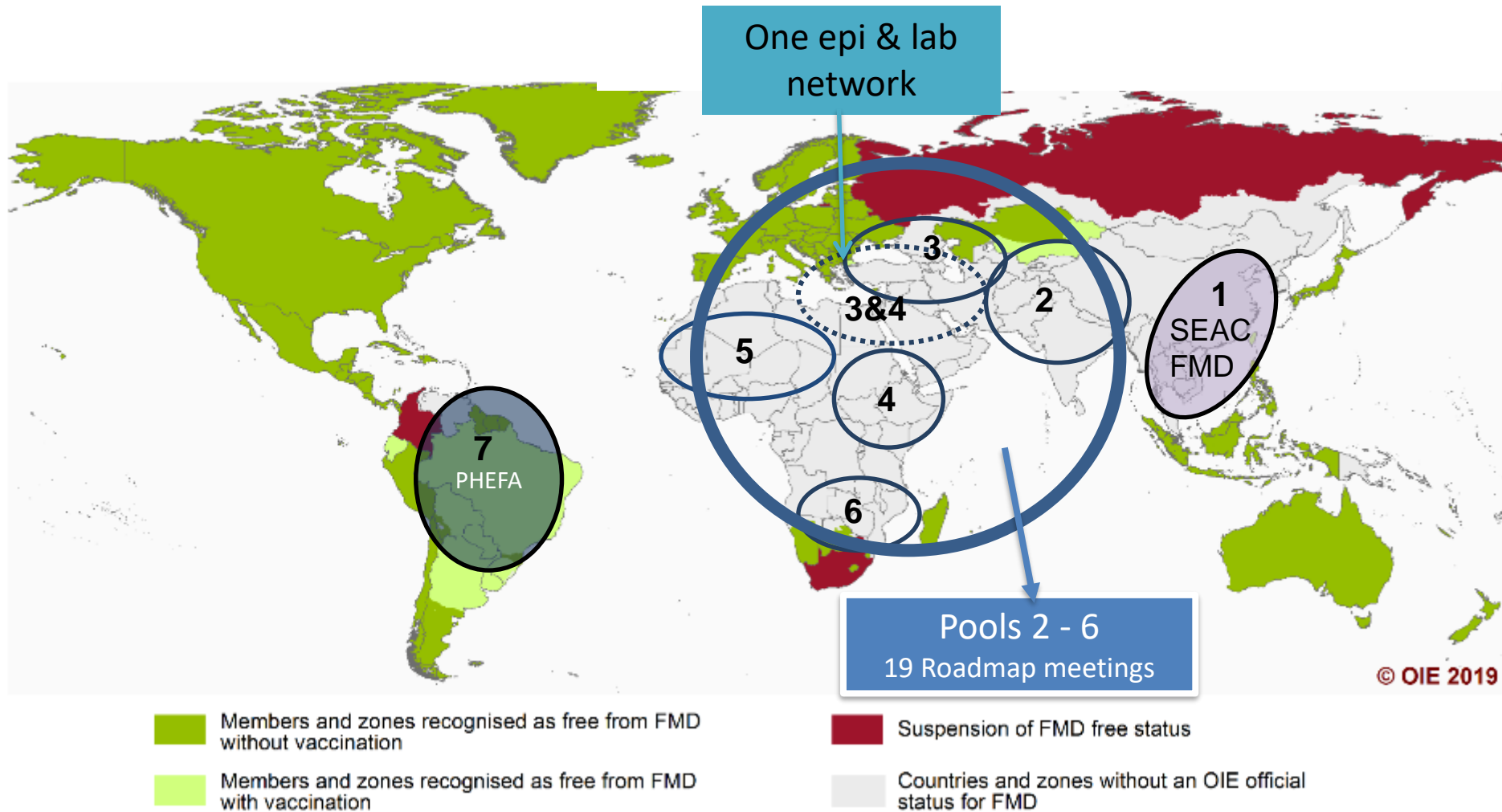


3. Reducing the impact of other major infectious diseases

PVS Pathway



Regional Roadmap and Network Meetings (2012 – 2019)





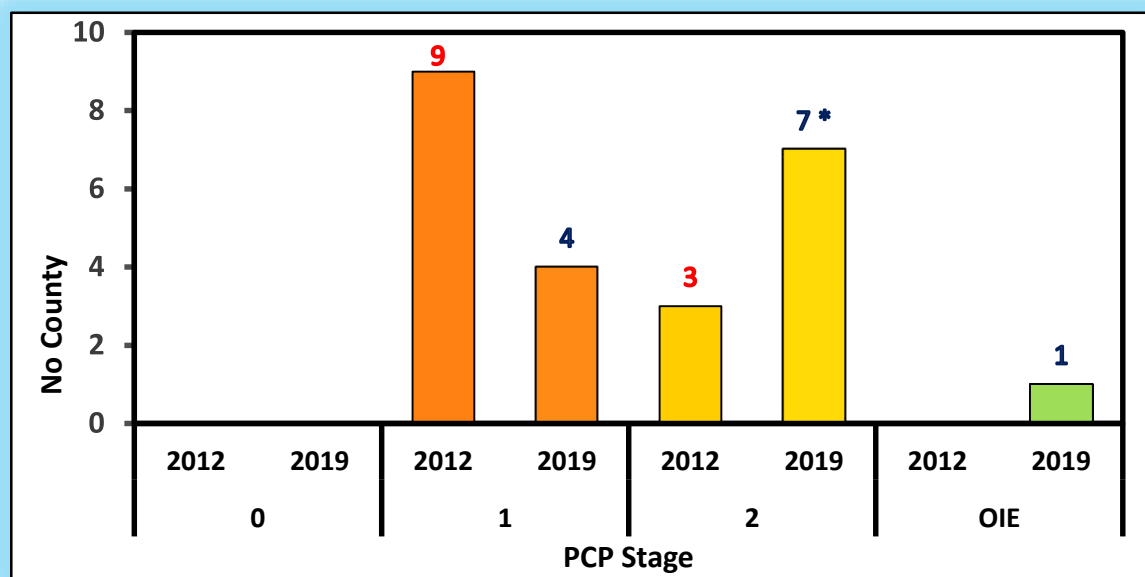
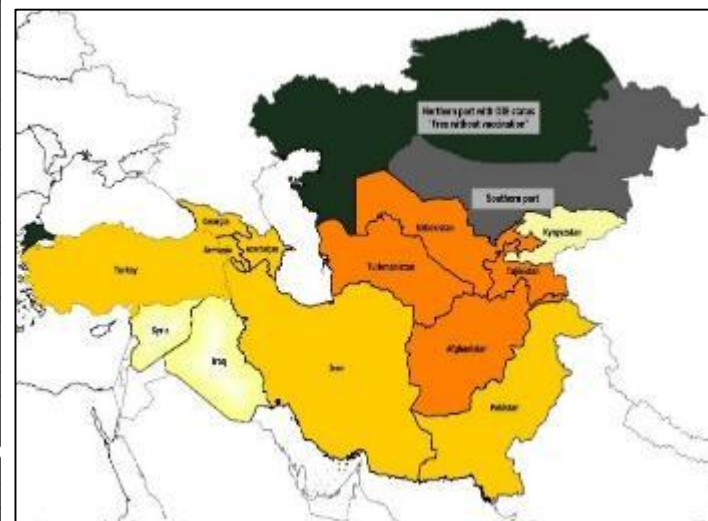
REGIONAL ROADMAPS 2017- 2019

West Eurasia

Countries absent from the meeting and
not assessed in 2019

assessed foreseen

	Validated Stages													Provisional Stages (not validated)					
Countries	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Afghanistan (absent)	0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	4	
Armenia	2	2	2	2	2	2	2*	2*	2	2	2	2	2	2	3	3	3	4	
Azerbaijan																			
Abkhazian peninsula (Beslaning)	2	2	2	2	2	2	2*	2*	2	2	2	2	3	3	3	3	4	4	
	2	2	2	2	2	2	2*	2*	2	2	2	2	2	2	3	3	4	4	
Georgia	2	1	1	1	1	1	2*	2	2	2	2	2	3	4	FwV	FwV	FwV	...	
Iran	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
Kazakhstan																			
9 northern regions	1	1	1	1	1	1	2*	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	
5 southern regions	1	1	1	1	1	1	2*	**	**	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	
Kyrgyzstan	1	0	0	0	1	1	2*	2*	2*	2*	2*	2	3	3	3	4	4	4	
Pakistan	0	1	1	1	1	1	2*	2	2	2	2	2	2	3	3	3	3	3	
Tajikistan	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
Turkey																			
Thrace			FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	FwV	
Anatolia									2	2	2	2	3	4	4	FwV	FwV	FwV	
Turkmenistan	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	3	3	4	
Uzbekistan	0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	4	
Assessed by RAG Middle-East																			
Iraq		1	1	1	1	1	2*	2*	2*	2*	2*	2*	2	2	3	3	3	3	
Syria		1	1	1	1	1	2*	2*	2*	2*	2*	2*	2	3	3	3	3	3	



* Pending control plan

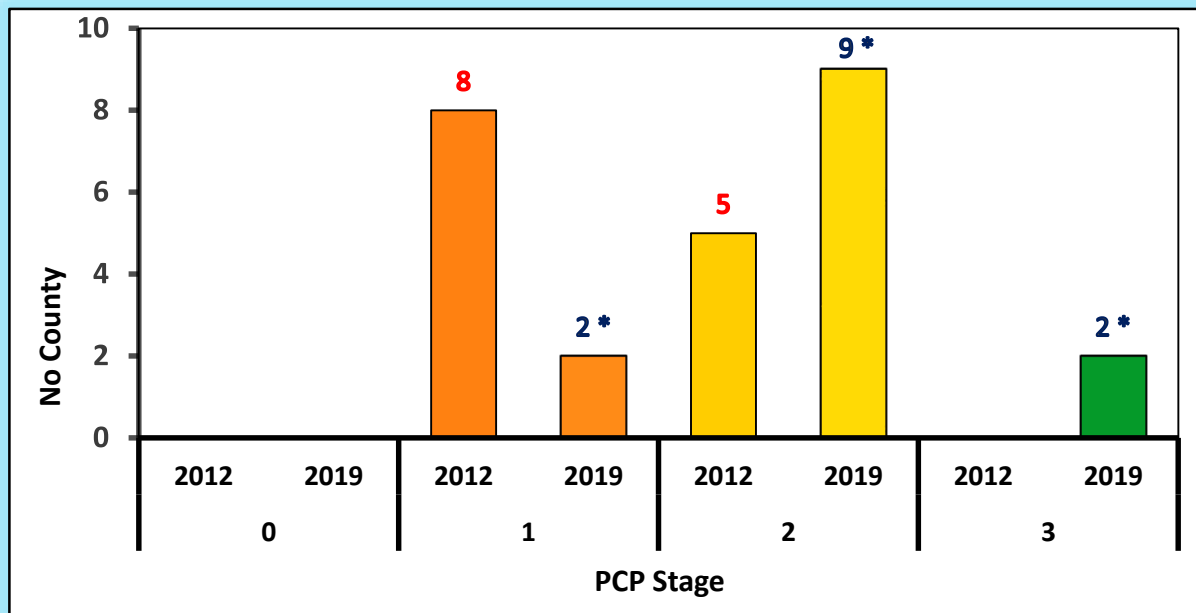
Middle East

4th Roadmap in 2017

13 Countries

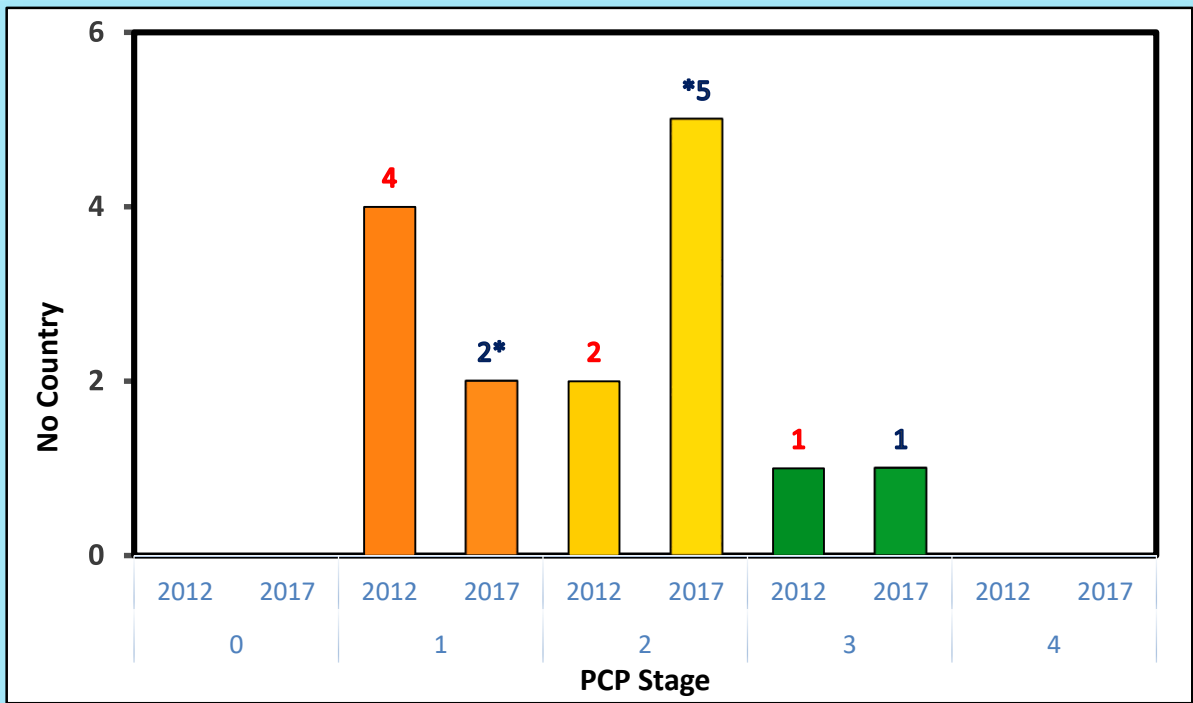
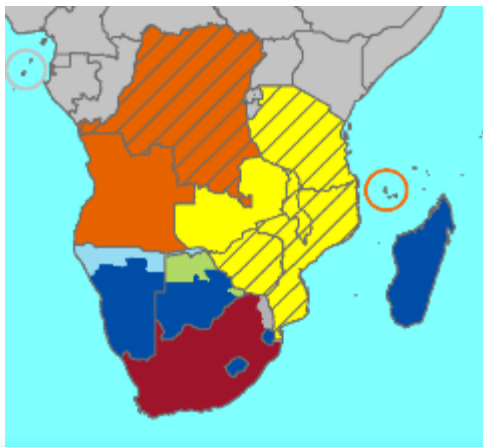


* Pending control plan



Southern Africa (SADC)

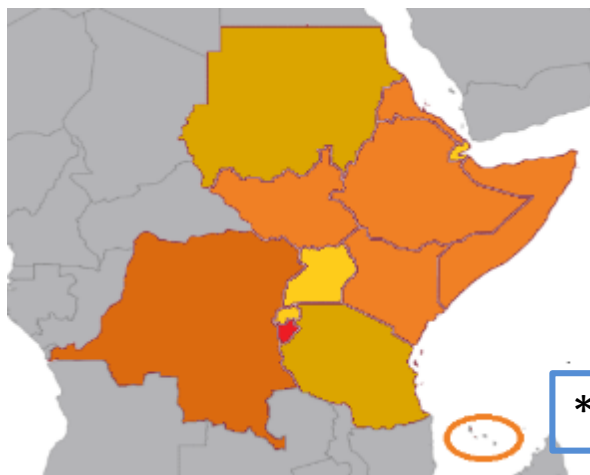
15 Countries



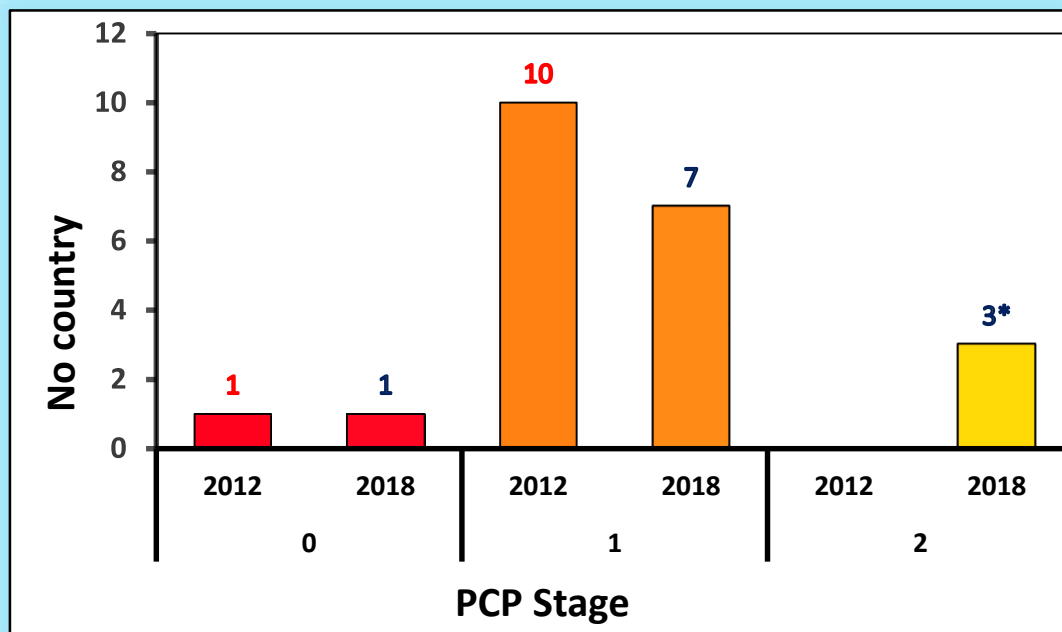
East Africa

3rd Roadmap in 2018

11 Countries



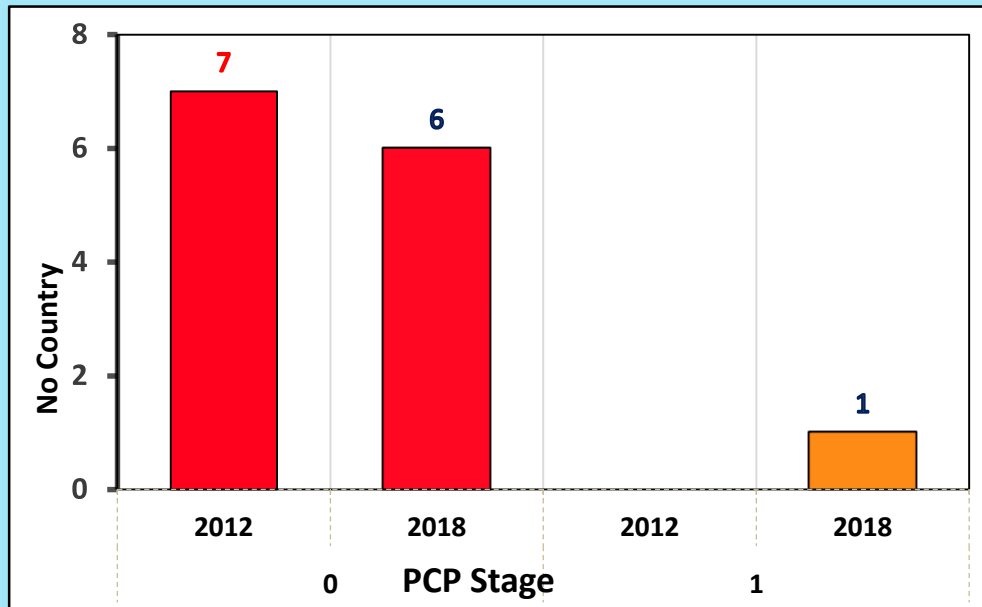
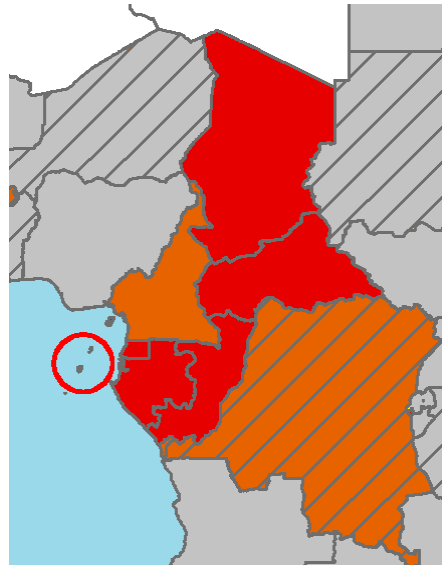
* Pending control plan



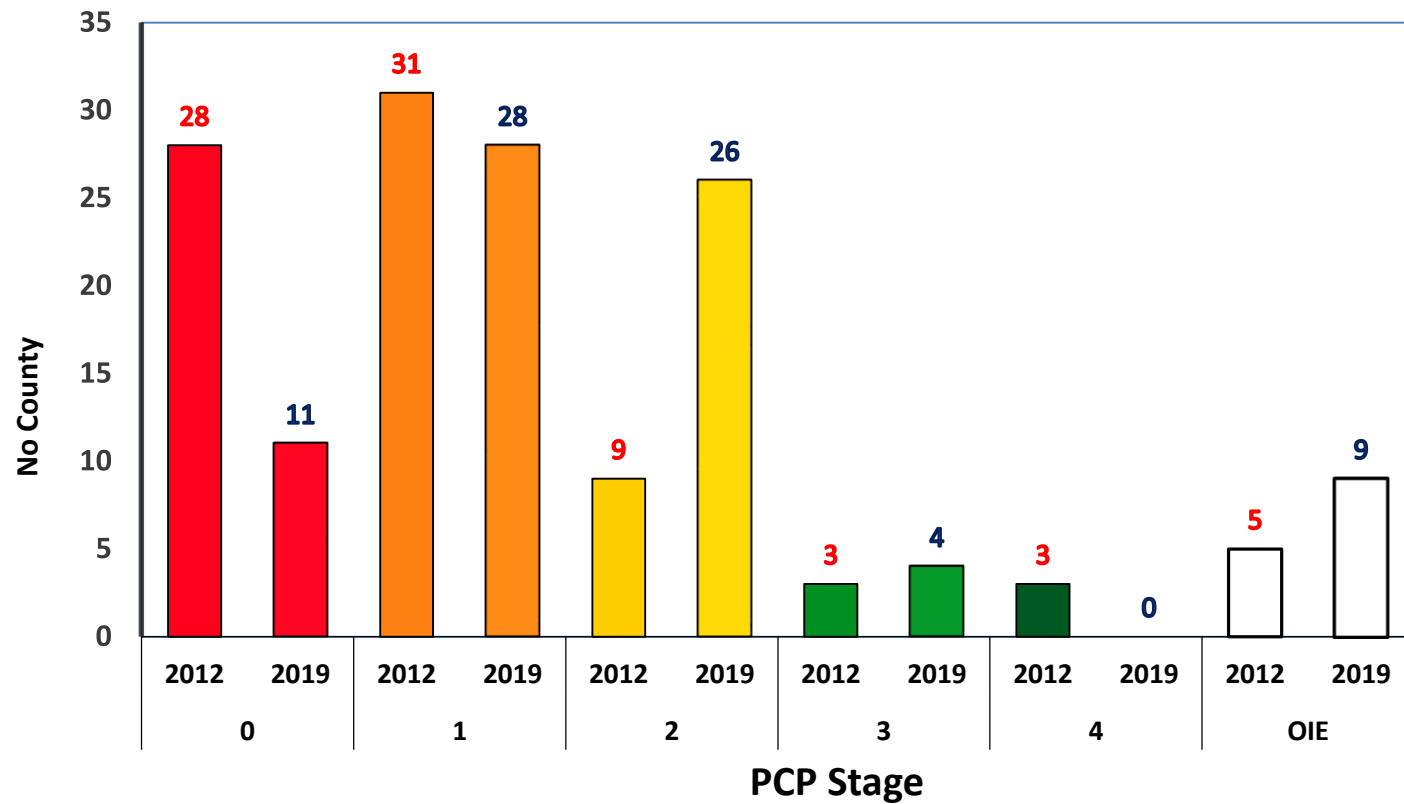
Central Africa

1st Roadmap in 2018

7 countries



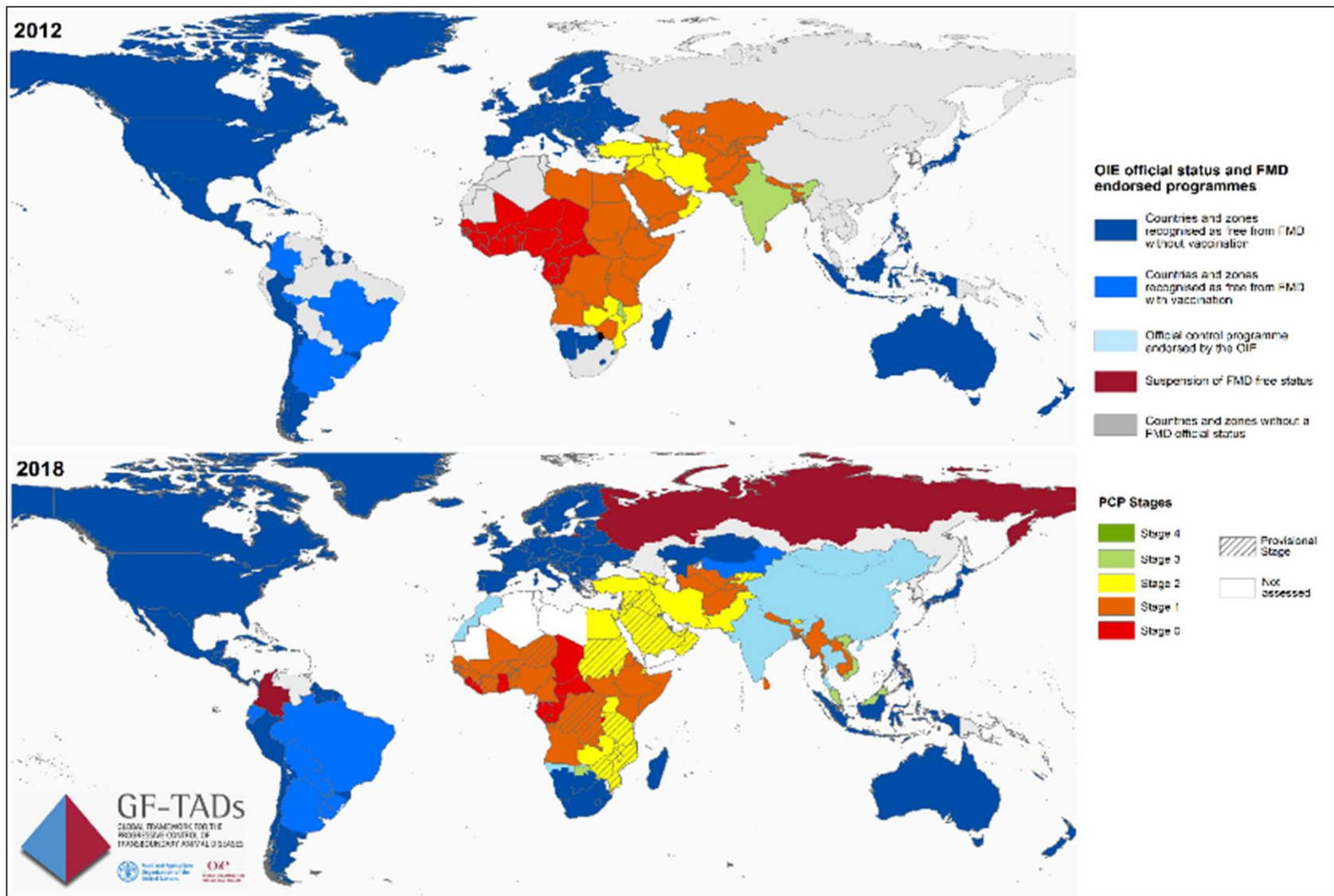
No. Country in Each PCP Stage (79 total)



The global situation of FMD in 2012 and 2018

OIE Official FMD free status and official control program

GF-TADs FMD PCP stages



EuFMD Support to the Global Strategy Pillar III

- Roadmap meetings;
- PCP Support officers (PSO);
- Global access to PCP-FMD training resources;
- E-Learning;
- Guidelines on socioeconomic impact analysis;
- Support in translation of documents and PCP tools.

OIE activities contributing to the Strategy



OFFICIAL RECOGNITION OF FMD FREE STATUS & ENDORSED PROGRAMS

31% of official statuses and programs were on FMD in 2018.

Conduct FMD or FMD/PPR missions

OIE Workshops on status recognition and endorsement of programmes

OIE/EuFMD Pilot workshops

-Safe Trade and FMD Control, *Istanbul April 2018*

-FMD and Containment Zone,
Belgrade Oct 2018



REVISION OF THE TERRESTRIAL CODE'S FMD CHAPTER

Surveillance methods for shorter recovery period

VACCINES

Vaccination chapter 4.17 (**new**), adopted in 2018

OIE Policy Paper on Vaccine Banks (Oct. 2018)

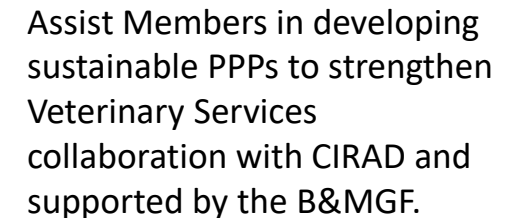
Pirbright - AU-PANVAC Twinning: FMD vaccine quality control in Africa launched April 2019

OIE FMD Vaccine bank for South-East Asia FMD vaccines: *delivered 6.7 million doses to eligible countries in Asia (Jan 2019)*





PUBLIC-PRIVATE PARTNERSHIP (PPP)



The diagram illustrates the four phases of the innovation process:

- 1. IDENTIFICATION**: Identification of a problem or opportunity.
- 2. EVALUATION**: Assessment of the potential value and feasibility of the idea.
- 3. DEVELOPMENT**: Development of a prototype or business plan.
- 4. COMMERCIALIZATION**: Commercialization of the innovation through marketing and sales.

PVS missions, Twinnings of Laboratories, Veterinary legislation support programme as tools for the implementation of the Global Strategy

FAO activities contributing to the Strategy



E-LEARNING MODULES

Disease recognition
Field investigation
Filed biosecurity



CREATING AWARENESS

Increasing awareness about FMD, PPR
and rinderpest to livestock keepers and
veterinarians (Africa and Asia)



IMPROVEMENTS TO FMD CONTROL

Building resilience and self-reliance
of livestock keepers by improving
control of FMD and other TADs”
USD 16,754,787



NATIONAL

Enhancement of FMD Control in
Pakistan” – USD 2,648,276

North Africa

FAO and EuFMD

- Support North African countries in the surveillance and control of FMD
- Providing FMD diagnostic kits to North African countries
- PVM Workshop (Algeria – Morocco – Tunisia)
18-20 march 2019
- Technical meeting to support FMD risk-based strategy plan in Libya - 21-22 March 2019



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Surveillance Evaluation Tool (SET)

➤ SET methodology

- Comprehensive assessment of animal health surveillance capacities
- Input from stakeholders centrally & *in field*
- 90 indicators of surveillance scored → results automatically generated

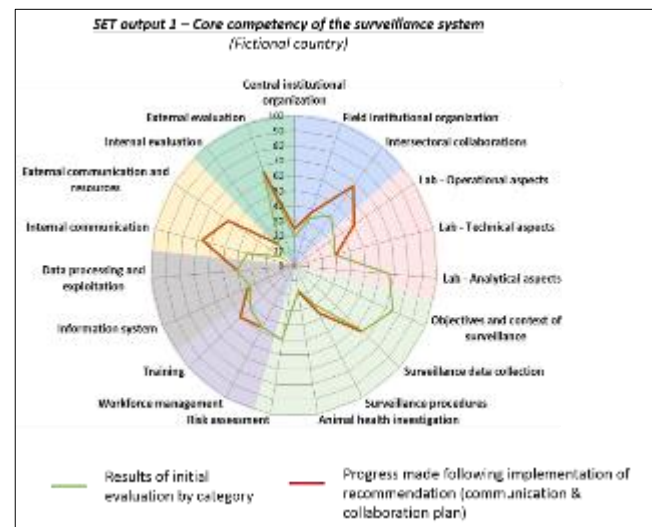
➤ Results

- Strengths/weaknesses of AH surveillance
- Country-specific action plans for improvements developed with veterinary services (VS)

➤ Status of evaluations

- 14 countries evaluated
- Reports posted online when validated by Vet Services

http://www.fao.org/ag/againfo/programmes/en/empres/tools_SET.html



External evaluation
(led by FAO HQs or regional office)

Self-evaluation
(led by FAO country office)



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In-service Applied Veterinary Epidemiology Training (ISAVET)

- Tailored to the Ministry of Agriculture
- Four months training: 4 wk of hands-on training and 3 months of mentored field project
- Beneficiaries: 14 African counties – 180 vets
- Senegal and Ethiopia- FMD surveillance data analysis and outbreaks



ISAVET Training Options:

- 1.* Frontline (4 months)
2. Intermediate (9 Months)
3. Advanced (2 years)

CAHWS Training*

* Current FAO focus: 2017 - 2021

Laboratory Capacity Building

GHSA & Emerging Pandemic Threats (EPT)

Animal health
capacity increased
in 35 countries

- Bangladesh
- Benin
- Bhutan
- Burkina Faso
- Cambodia
- Cameroon
- Chad
- China
- Côte d'Ivoire
- Democratic Republic of the Congo
- Egypt
- Ethiopia
- Ghana
- Guinea
- India
- Indonesia
- Jordan
- Kenya
- Lao People's Democratic Republic
- Liberia
- Mali
- Mongolia
- Myanmar
- Nepal
- Niger
- Nigeria
- Philippines
- Senegal
- Sierra Leone
- Thailand
- Togo
- United Republic of Tanzania
- Uganda
- Viet Nam
- Zimbabwe

GLOBAL

- Veterinary Laboratory Policy
- Global Laboratory Leadership Pro.
- LIMS/ IT developments
- Bioinformatics

NATIONAL & REGIONAL

- Quality assurance
- Biosafety and biosecurity
- Procurement of equipment/reagents/consumables
- Bench training on serology and molecular techniques
- Lab assessment and gap analyses



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EMERGENCY RESPONSE MISSIONS on FMD

Emergency Management Centre

- **FMD mission to Zambia (16 – 25 April 2018)**

- Outcome / Active surveillance at dip tanks contributed to improving the vaccination programme and planning



- **FMD mission to Malawi (9 – 13 July 2018)**

- Advise on additional mitigation measures (markets, movements, biosecurity, awareness, vaccination)
- Outcome / Development of an action plan

- **FMD mission to Mauritania (03 – 09 October 2018)**

- Assessment of the national epidemiological situation / Development of a control program

FAO Regional workshop Regional Workshop on FMD and other TADs

Vladimir, Russia, 29-30 November 2017

- Nine countries of Central Asia, Caucasus and Russian Federation
- **The objectives:**
 - increase networking between the countries and FAO/OIE collaboration/ref centers
 - risk Based approach and how to apply them for domestic and wildlife, outbreak investigations and control
 - gain better knowledge of FMD, LSD and ASF
 - collaboration and share information among countries



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Training on FMD in response to incursion of serotype O for West and Central Africa

February 25-28, 2019

- May- September 2018, wide spread of FMD outbreak
- 137 outbreaks report in 11 countries. Topotype O EA-3
- Affecting cattle, sheep, goats, pigs with high mortality in young animals

Training objectives:

- update on the FMD situation in the region;
- assist countries in the design of national surveillance plans and prepare risk assessment plan (RAP);
- training on how to conduct a field investigation, collect and preserve dx samples;
- bench training on FMD diagnosis and sample shipping to the reference centers.



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Follow-up & Recommendations

- **Countries to:**

- prepare national FMD risk assessment plan (RAP) by 1 June 2019
- develop their national surveillance plan using the template provided
- collect available retrospective data on cross-border animal mobility over the past two years
- forbid the use of antibiotics for treatment of FMD infection

- **Organizations to:**

- support and reinforce the regional epidemiological and laboratory networks
- provide technical support on FMD risk assessment & national RAPs
- assist countries in sample shipments and dx reagents and kits
- organize a follow-up hands-on train the trainer workshop in 2020
- bench training especially on rtPCR, and technical advice on laboratory waste management
- assist countries to conduct FMD socio-economic impact studies
- eLearning modules on field investigation and farm biosecurity

Challenges

national, regional and global levels

Political will

National priorities may not be the control of FMD

Inadequate stakeholders engagement



Resources & skills

Shortage of resources at national, regional and international levels

Socio-economic, Risk assessment and risk management skills



Movement control and transparency

Cross-border movement control

Livestock migration

Timely information exchange



Diagnostic capacity & supplies

Shipment of samples to Ref Labs

Virus sequencing

Vaccine matching and procurement





Working Group priorities: 2019-2020

Regional roadmaps and networks

To assess progress and provide guidance to countries
Strengthen regional Epi/Lab networks

ME, WA:2019
EA,CA, WEA: 2020



Strengthen collaborations

Continue to collaborations with EuFMD for global access to learning and support tools
Collaborations within the GF-TADs, REC, Ref Lab and other partners to support implementation of the strategy



Improvement of PCP tools

Develop and translate guidelines
Promote socio-economic studies
Transition to more online support and management tools.
Advocate for Component 3



Technical support

Support Regional Advisory Group, assign technical PCP support officers (PSO) to countries to maintain momentum between roadmap meetings

Review national plans

Establish timeframes and deadlines for submission and review of national plans.
Develop a document management system



Progress

Global FMD Control Strategy

- Global FMD control is **feasible** and can be a driver to improve animal health systems, trade, nutrition and economic growth
- **System is established for assessing countries along the PCP**
- **PCP-FMD approach and reinforcement of veterinary systems are gradually gaining acceptance. Seventy nine countries are engaged and closely monitored with notable evidence of advancement**
- **Several countries developed and are implementing RBSPs**
- **A few countries advanced to OIE status**

Acknowledgments

- AGAH staff, decentralized offices and ECTAD teams
 - VonDobschuetz S., De Battisti C., Lockhart C., Bengoumi M., Rozstalnyy, Bonbon, E.
- OIE HQs and regional and sub regional offices
- EuFMD Secretariat
- Continental-Regional organizations: AU-IBAR, IGAD, EU
- Development partners (DTRA-USA; Italian government)
- Former Members of the FMD WG: Jemi Domenech, Giancarlo Ferrari, Julio Pinto, Peter DeLeeuw, Nadège Leboucq

Thank you for your attention



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