

GF-TADs FMD Working Group Activities

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Food and Agriculture
Organization of the
United Nations



GF-TADs
GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

Contents



- FMD vaccination and PVM guidelines
- Roadmap meetings: West Eurasia and West Africa
- Global FMD Control Strategy – where we are!
- Collaborations with EuFMD (Pillar III)
- FMD WG: priorities and plan for 2016-17

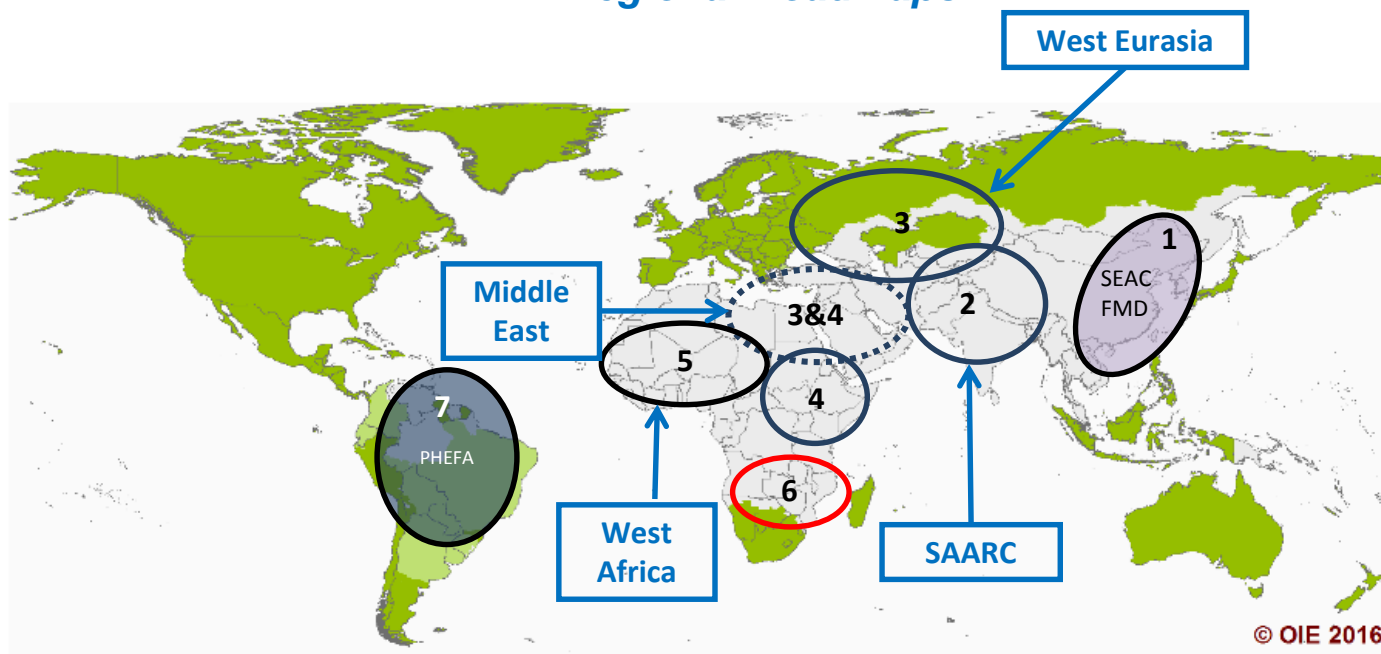
FMD vaccination *and* Post-vaccination Monitoring Guidelines



What is next?

FAO-OIE Press release, pocket guide, training sessions, backstopping

FMD Regional Roadmaps



- Member Countries and zones recognised as free from FMD without vaccination
- Member Countries and zones recognised as free from FMD with vaccination
- Countries and zones without an OIE official status for FMD

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7th West Eurasia Roadmap (virus pool 3)

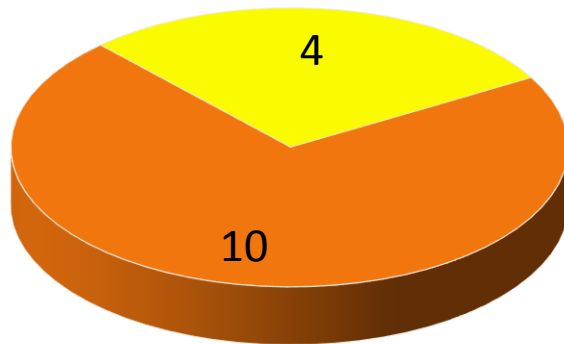
April 2016

First roadmap in 2008
14 countries

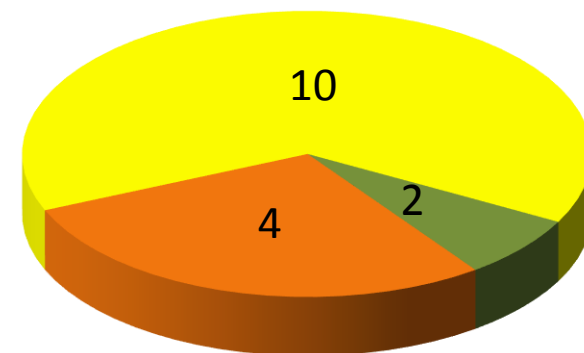
	Validated Stages										Provisional Stages (not validated)									
Countries	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
Afghanistan (absent in Bishkek)	0	1	1		1	1	1	1	1	1	2	2	2	2	3	3	3	4		
Armenia	2	2	2		2	2	2*	2*	2	2	3	3	3	3	4	4	5	5		
Azerbaijan	2	2	2		2	2	2*	2*	2	2	3	3	3	3	3	3	4	4		
Georgia	2	1	1		1	1	2*	2	2	2	3	3	3	3	4	5	5	5		
Iran	2	2	2		2	2	2	2	2	2	2	2	3	3	3	4	4	4		
Kazakhstan	1	1	1		1	1	2*	**	**											
Kyrgyzstan	1	0	0		1	1	2*	2*	2*	3	3	3	4	4	5	5	5	5		
Pakistan	0	1	1		1	1	2*	2	2	2	2	3	3	3	3	3	4	4		
Tajikistan	0	1	1		1	1	1	1	1	2	3	3	4	4	4	4	4	4		
Turkey (Thrace)										4	4	4	5	5	5	5	5	5		
Turkey (Anatolia / Marmara-Aegean)										2	3	3	4	4	4	4	5	5		
Turkey (Remaining Anatolia)	1	2	2		2	2	2	2	2	2	2	2	2	3	3	4	4	4		
Turkmenistan	0	0	0		1	1	1	1	1	2	2	2	2	3	3	4	4	5		
Uzbekistan (absent in Bishkek)	0	1	1		1	1	1	1	1	2	3	3	3	4	4	5	5	5		
Assessed by RAG Middle-East																				
Iraq		1	1	1	1	1	2*	2*	2*											
Syria		1	1	1	1	1	2*	2*	2*											



2012



Present



■ stage 0 ■ Stage1 ■ Stage 2 ■ Stage 3

Support to WEA Roadmap

- **Simulation exercise**
 - Technical expertise
 - 4 phases
 - Identification of needs / preparatory / field deployment/ assessment
- **Link with other regions**
- **Secretariat** hosted by the OIE SRR in Kazakhstan

Support to WEA Roadmap

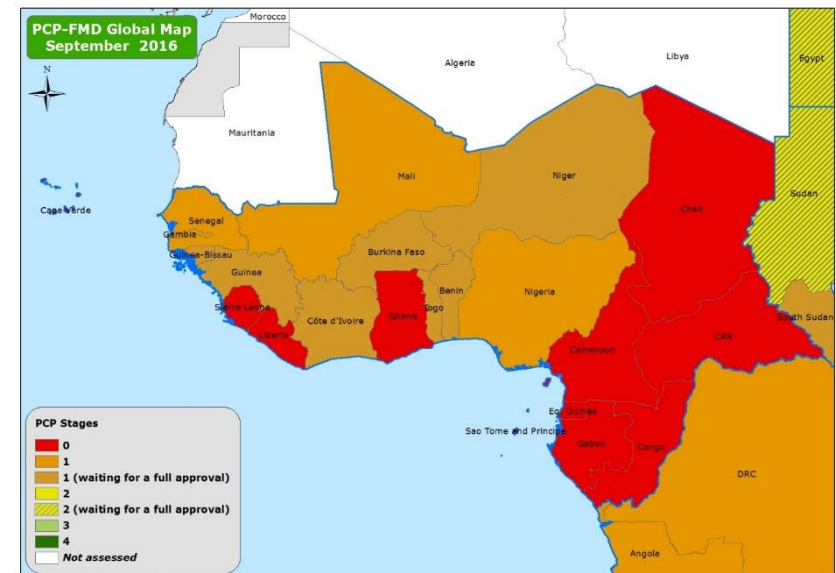
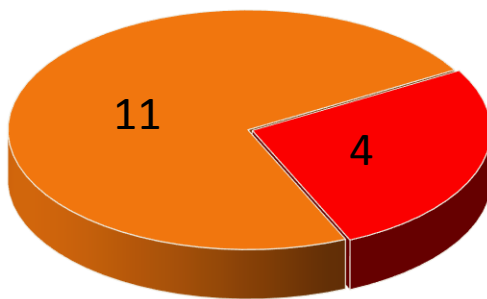
- GCP/TAJ/013/EC **“Strengthening Institutions and Capacity of the Ministry of Agriculture and State Veterinary Inspection Service for Policy Formulation”** in Tajikistan.
 - training to design disease control programmes, implement and evaluate random sample surveys and monitor progress in controlling target diseases.
- TCPF **“Support in set up and launch of the Strategic Plan for Development of Veterinary Services of the Kyrgyz Republic 2017 - 21’**
 - assistance in development of the risk-based approach for animal disease control strategies. This would include a technical workshop on risk-based surveillance and control of animal diseases and support in development of the Risk Based Strategic Plan for FMD control.

1st FMD Roadmap for West Africa, Lome, Togo, September 2016

- FAO-OIE-EuFMD webinars to introduce PCP principles and assessment
- 60 participants from 15 countries, RESOLAB, AU-IBAR, Pastoralist Organizations, Pirbright, ANSES, USDA, EuFMD, ECOWAS, Merilal, OIE & FAO
- FMD-PCP training on principles and PCP assessment steps
- RAG member were nominated

- **Stage 0:** Cape Verde, Ghana, Liberia and Sierra Leone
- **Stage 1:** Senegal, Nigeria, Gambia and Mali
- **Provisional Stage 1*:** Benin, Cote d'Ivoire, Burkina Faso, Guinea, Guinea Bissau, Niger and Togo

■ stage 0 ■ Stage1



1st FMD Roadmap for West Africa

September 2016



Country	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Benin	1*	1	1	1	1	2	2	2	2	3
BF	1*	1	1	2	2	2	3	3	3	3
Cape V	0	0	0	<u>1</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>4</u>	5	5
RCI	1*	1	1	1	1	2	2	2	2	3
Gambia	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	2
Ghana	0	1	2	2	2	3	3	3	3	4
Guinea	1*	1	1	1	2	2	3	3	4	5
Guinea B	1*	1	1	2	2	<u>2</u>	<u>4</u>	4	4	4
Liberia	0	1	1	2	2	3	3	4	4	4
Mali	1	1	1	1	2	2	2	3	3	3
Niger	1*	1	1	2	2	2	2	2	3	3
Nigeria	1	1	2	2	2	3	3	3	4	4
Senegal	1	1	1	2	2	2	3	3	3	4
Sierra L	0	1	1	1	2	2	3	3	4	4
Togo	1*	1	2	2	2	2	2	3	3	4

Regional Priorities

1st FMD Roadmap for West Africa

- Raise awareness on disease recognition and timely reporting
- Establish or reinforce active surveillance
- Enhance accurate and timely diagnosis of FMD
- The regional laboratory and epidemiology networks to formulate a 3- to 5-year work plan
- Improve cross border and regional coordination and harmonization on surveillance, control and share of information
- Combine control of FMD with livestock diseases such as PPR and CBPP
- FAO, OIE and EuFMD to provide capacity building activities to the national points of contact
- AU-IBAR and ECOWAS to approach donors to contribute to the funding of national Assessment Plan and Risk-Based Strategic Plan.

Next Planned Roadmap Meetings

3rd SAARC: December 2016

4th Middle East: Early 2017

2nd SADC: 2017

FMD situation in South Asia from Jan 2014 to Dec 2015

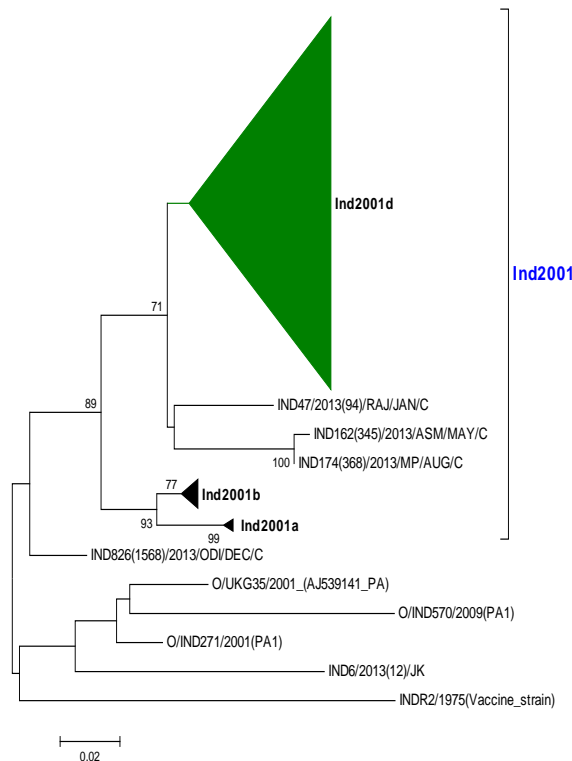
(as presented by countries in 4th FAO RSU-SAARC Lab Director's Meeting, June, 2016)

Country	No of specimen received	Test Applied	No positive	Time taken to provide diagnosis	Presenter
Afghanistan	1276	Real Time or ELISA	896	2 days	GoAf
Bangladesh	225	ELISA	223	3-5 days	GoBD
Bhutan	11	ELISA	11	1 day	GoBh
India	182	ELISA Multiplex	115	~3 days	FMD RDL Mukteswar
Maldives	0	-	0	-	GoMLD
Nepal	224	ELISA	65	2-4 days	GoNP
Pakistan	1800	ELISA PCR	1150	3-5 days	GoPK
Sri Lanka	93	ELISA	75	2 days	GoSL



Characterization of recent viruses: FMD_RDL

Serotype O

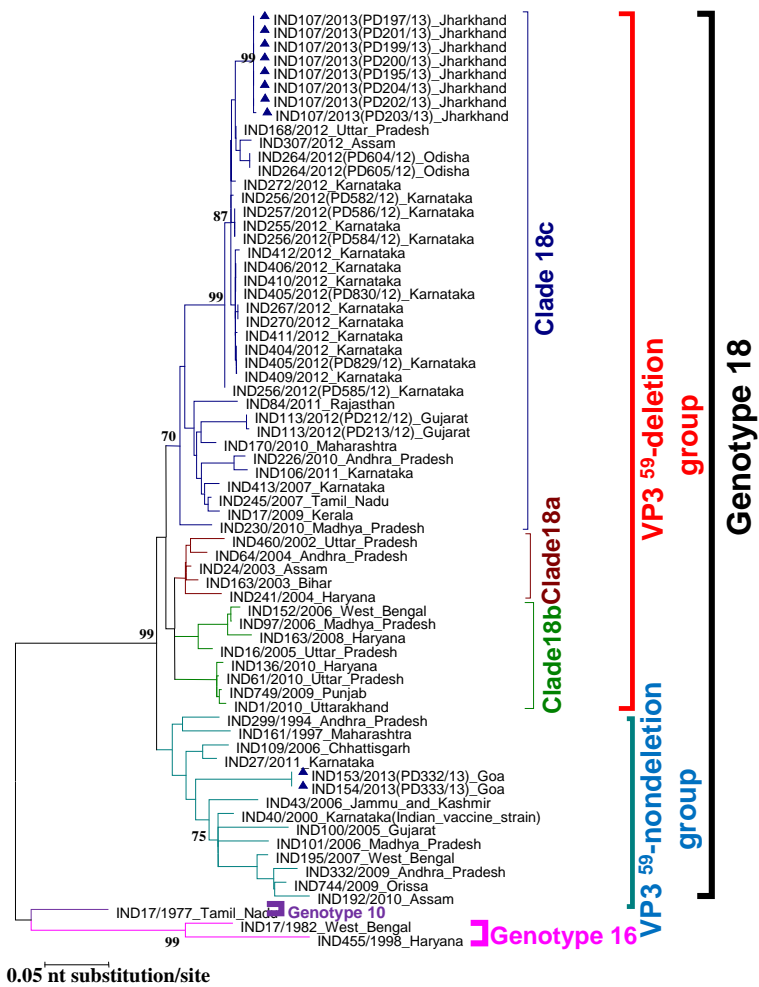


Ind2001 and PanAsia are the major lineages of Indian sub-continent

Ind2001 caused several outbreaks during 2013 in India, Bangladesh and Bhutan

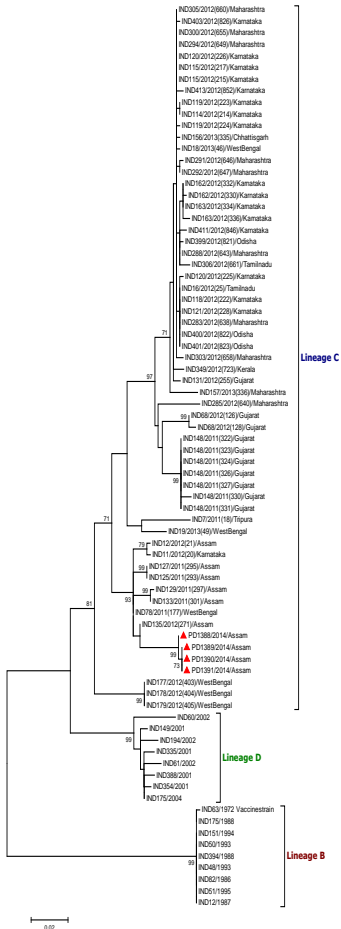
Reported from Libya, Tunisia and Algeria for the first time in 2013

Since its actual identification in the year 1997, the lineage has diversified globally in to at least four sub-lineages (Ind2001a, b, c and d)



Serotype A

- ✓ Exclusive presence of **Genotype 18 of Asia** **topotype**
- ✓ **Cocirculation** of both **VP3⁵⁹-deletion** and **nondeletion** variants.
- ✓ **Post-2010, Clade 18c** apparently **the only active clade** in the **deletion group**

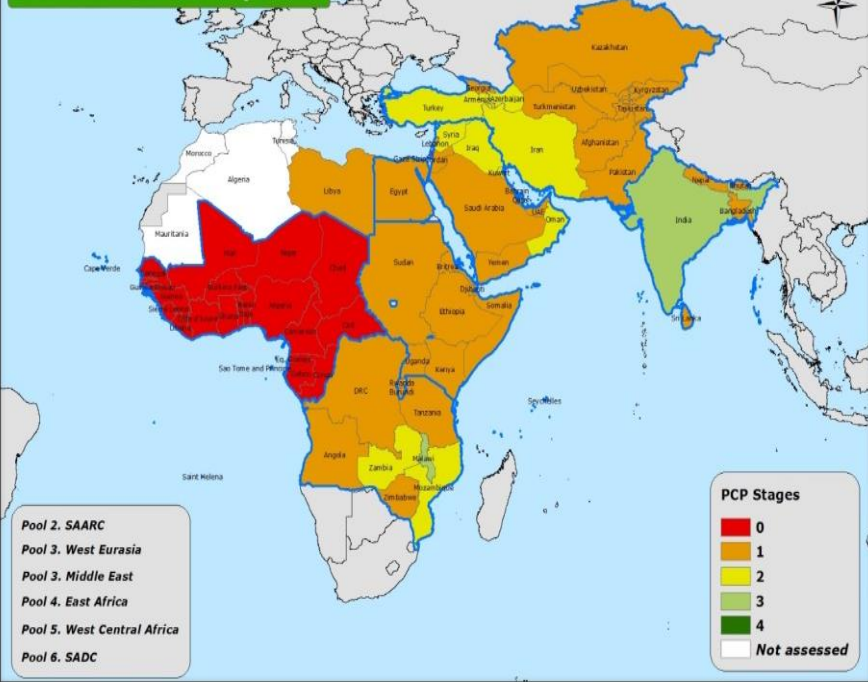


Serotype Asia1

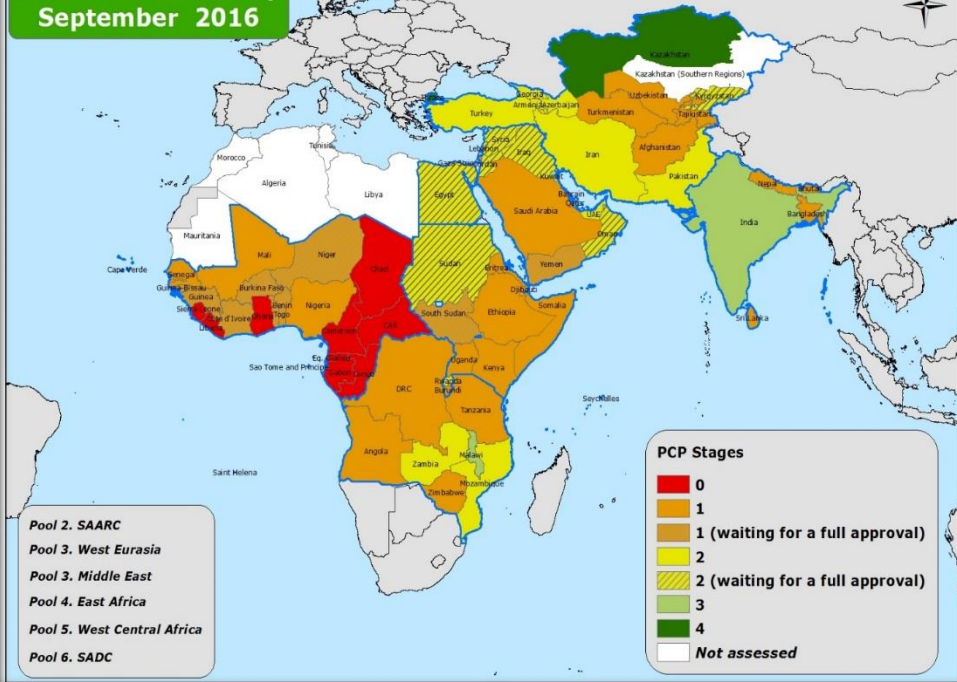
- Outbreaks owing to serotype Asia1 were much less during 2014-15.
- During the period, 4 serotype Asia 1 field isolates collected from the state of Assam were subjected to phylogenetic analysis.
- All the isolates were found to cluster within lineage C (Group VIII) indicating its supremacy in the field since the year 2005

PCP-FMD Global Map 2012-16

PCP-FMD Global Map 2012



PCP-FMD Global Map
September 2016



South East Asia

- Vaccine banks
- Animal movement studies and management
 - main trade roads
 - zoning approach
 - protocol
- control trade

The Americas

- Support to the maintenance of FMD free status
- Support to countries still not free from FMD
- Field missions
- Discussion on the vaccination against serotype C

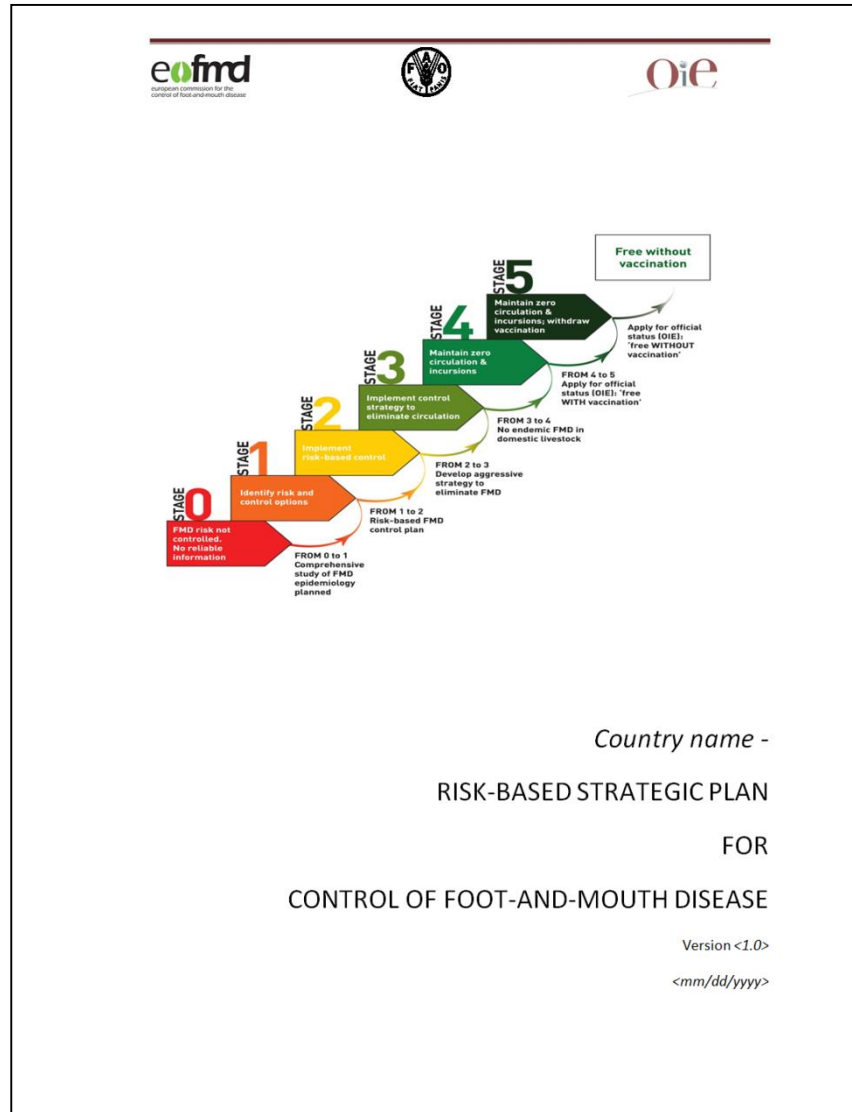
Horizontal activities in support to the Global Strategy

- Official status recognition
 - Regional workshops where a need has been identified
 - SEACMFD, SADC, Middle East
- Vaccine banks

Other horizontal activities of interest

- Revision of the FMD chapter – new concepts
 - Broader containment zone
 - Preventive vaccination in a free country/zone without vaccination
 - Vaccinated animals
 - Methods to give confidence in the freedom – more flexibility in terms of waiting period for recovery

Revised RBSP template



Major collaborations with EuFMD (Pillar III)

- Webinars and eLearning on PCP principles and implementation.
- Training on the PCP for the participants to the West Africa and SAARC Roadmaps.
- Workshop to support Kyrgyzstan in preparing its risk-based strategic plan.

Some (Major) Challenges Areas

- Diagnostics:
 - capabilities to carry out sustainable surveillance, field investigations, sample collection..etc

Reinforce activities of regional lab and epi networks (alternate roadmap and network meetings year to year)
 - Vaccine:
 - Low vaccine coverage and resources to buy vaccine
 - Vaccination regimens for small ruminants
 - Effective vaccination programs and good quality vaccine

Monitor vaccine effectiveness and evaluate manufactured vaccines (PVM guidelines)
 - Reporting and early warning:
 - Lack of early warning system and real-time disease reporting
 - Poor capture and reporting at village level

Communication for development
 - Endorsement of public-private partnership
- Involve private sectors in the development and implementation of CPs and engage in roadmap meetings

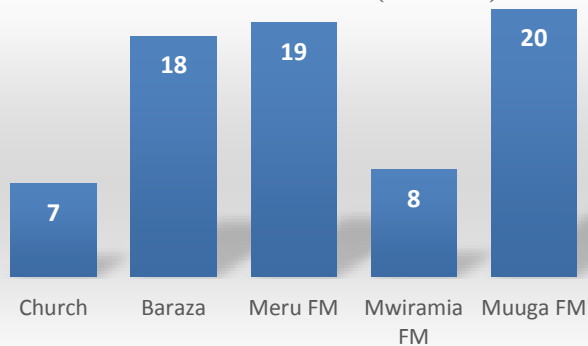
Awareness raising

FMD and other TADs

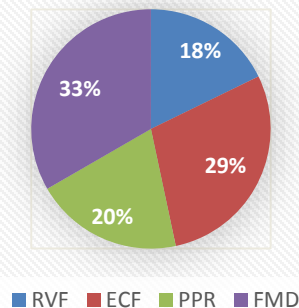
- Disease recognition and reporting
- For small holders, pastoralists, local vets and laypeople
- Kenya, Senegal, Ethiopia, Egypt, Nigeria
- Methodology (comm for development)
 - Needs assessment
 - Comm strategy
 - Comm material
 - Dissemination, M&E

Kenya

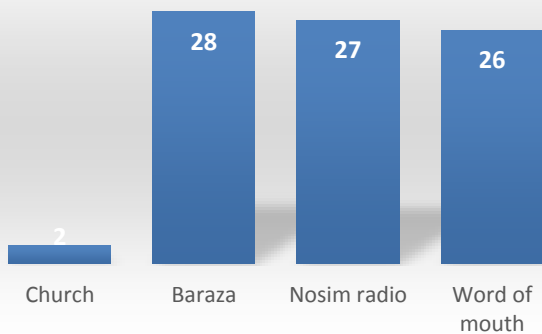
Source of info (Meru)



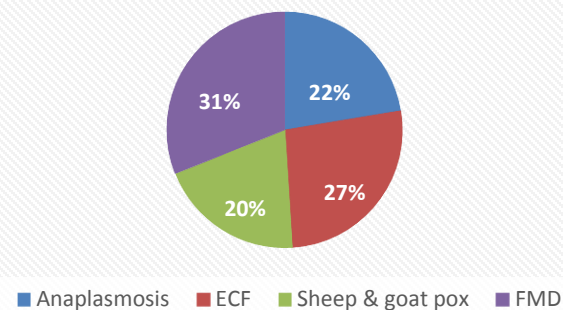
Diseases among livestock in Meru



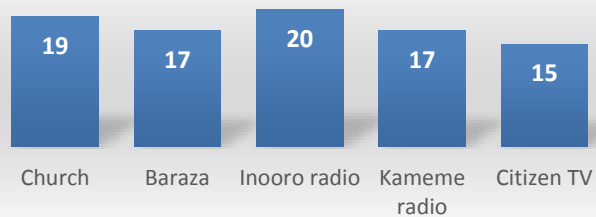
Kajiado



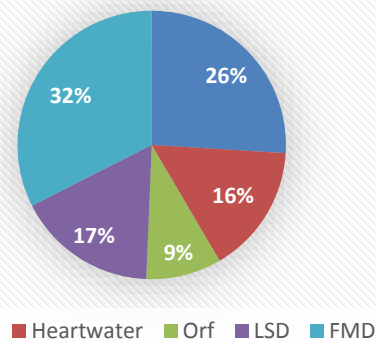
Diseases among livestock in Kiambu



Kiambu



Diseases among livestock in Kajiado



2016-2017 Priorities GF-TADs FMD Working Group with EuFMD

2016-2017

Train OIE and FAO field staff, RAG & global expert group on PCP

Identify training needs and conduct roadmap meetings

Prepare 5-year plan for the implementation of the global strategy (WG only)

Publish PVM guidelines- Done

Produce 2nd edition the PCP-FMD guidelines and its questionnaires

Update RBSP with components 2 and 3 (stage 1 to 2)- Done

Develop risk assessment plan (stage 0 to 1)

Thank you for your attention



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