Status of Global FMD Control Programs

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The Global FMD Control Strategy

Developed in 2012: by the FAO- OIE FMD working group in consultation with the experts and regional representations

Number of Countries: 87

Duration: Fifteen years

<table>
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<tr>
<th>Components</th>
<th>Costing US$ Mil (5 years)</th>
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<td>Vaccination</td>
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Global Approach

- FAO-OIE FMD WG- coordinating GS implementation
- Global Network: OIE-FAO FMD reference laboratory network

- Global list of leading experts; in
  - Laboratory diagnostics
  - Epidemiology
  - Vaccine and vaccination
  - Socio-economics and economics
  - Disease management and control

- Languages: English, French, Russian and Arabic
- Well trained on PCP-FMD

- If interested, send CV to FAO-FMD@fao.org & OIE-FMD@oie.int
National Approach

- Use of **PCP-FMD** guidelines as tool for implementation
- Countries’ investment and control plans (FAO, OIE and donor support)
- Performance of veterinary services (PVS)
- Guiding documents being developed:
  - Post vaccination monitoring
  - Serosurveillance
  - Disease investigation
  - Socioeconomic guidelines
  - Templates for drafting control plans
- Training and webinars
Progressive Control Pathway for FMD

1. Identify risk and control options
   - FMD epidemiology
   - Identify hotspots
   - Map value and market chains
   - Understand socio-economic impacts
   - Formulate control options

2. Implement risk-based control
   - Implement risk-based control strategy
   - Stakeholder consultation & engagement
   - Targeted vaccination
   - Monitor and evaluate

3. Implement control strategy to eliminate circulation
   - Eliminate virus circulation
     - Implement aggressive control policy
     - Continue routine surveillance
     - Early detection and rapid response
     - Vaccination
     - Eliminate FMD in zones or country
     - OIE-endorsed national control plan
Regional Roadmap Meeting Convened Since 2012

OIE Member Countries' official FMD status map

Last update May 2015

Click on a specific region to zoom in

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Regional Approach

• Regional control strategy
• Regional roadmap meetings for country assessment (PCP stage)
• Regional laboratory and epidemiology networks
  o Eastern Africa: EARLN and EAREN
  o West Africa: RESOLAB and RESEPI
  o West Eurasia: WELNET and EPINET
  o SAARC: epidemiology and lab networks
  o ME: not established
Regional Roadmap Platform

CVOs and FMD national specialists participate
development partners invited

- Share information on FMD virus circulation and vaccine selection- country reports
- Review of national control plan
- PCP stage acceptance: questionnaire, interview and assessment by regional advisory group (RAG)
## Feedback to Country (example)

<table>
<thead>
<tr>
<th>Country</th>
<th>Assessment 2012</th>
<th>Review (SAQ, Presentation, Interview)</th>
<th>RAG assessment 2014</th>
<th>Evolution since 2012</th>
<th>Actions for country agreed by RAG</th>
<th>Actions expected from RAG</th>
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<td>Well detailed RBSP Sero-surveys Econ impact studies</td>
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<td>PVS-PCP 7 critical competencies including small ruminants (Re-)analyse sero surveys for risk-factors Update value chain analysis and socio-economic studies Revise RBSP - Risk hotspots – risk estimation - Coherence</td>
<td>Follow-up on provisional Stage 2</td>
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### Kenya: stage 1 (2014)

- Strategic FMD control plan
- Identification of "Hotspots"
- Commitment to regional approach
- Strengthening Veterinary Services
- Circulating strains
- Socio-economic impact
- FMD distribution & hypothesis
- Value chain analysis
- Plan to study epidemiology and socio-economics

![Map of FMD Jan to July 2014](image)
Countries and their PCP Stages
West Eurasia Roadmap (virus pool 3)
2012 to present

First roadmap in 2008
14 countries

2012

- 71% in stage 0
- 29% in Stage 1

Present

- 64% in stage 0
- 29% in Stage 1
- 7% in Stage 3

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- Stage 0: Dark Red
- Stage 1: Orange
- Stage 2: Yellow
- Stage 3: Green
## Countries and their PCP Stages
### SAARC Roadmaps (Virus pool 2)
#### 2012 to Present

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First roadmap in 2011
5-7 countries

![Pie chart showing PCP stages](chart.png)

![Map showing SAARC countries](map.png)
Countries and Their PCP Stages
Middle East
2012- present

First roadmap in 2012
12-14 countries

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2012
- Stage 0: 58%
- Stage 1: 42%

Present
- Stage 0: 33%
- Stage 1: 50%
- Stage 2: 17%
## Countries and their PCP stages

### East Africa
#### 2012 to present

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*Provisionally accepted

**First roadmap in 2012**

12 countries

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**2012**

- **8%** Stage 0
- **92%** Present

**Present**

- **17%** Stage 1
- **83%** Stage 2

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*Provisionally accepted*
Percentage of Countries per PCP stage
Virus Pools 2-4

Total n. of countries = 42
FAO on Ground

- FAO has 130 representations and regional/subregional
- Country support to reduce the burden of FMD in several countries including but not limited to:
  - Tunisia- vaccination and surveillance
  - Egypt- surveillance and diagnostic
  - Sudan- Diagnostic and surveillance
  - Afghanistan- PCP activities to move to stage 2
  - Loa- value chain and social network analyses
  - Cambodia- value chain and social network analyses
  - Vietnam- value chain and social network analyses
  - Uganda- CMC mission
  - India- FMD economic impact
  - Bangladesh- FMD economic impact
  - Bhutan- FMD economic impact
Some Area of Challenges

• Diagnostics:
  – capabilities to carry out sustainable surveillance
  – Field investigations and collection and shipping of samples

• Vaccine:
  – Low vaccine coverage and resources to buy vaccine
  – Vaccination regimens for small ruminants
  – Effective vaccination programs

• Reporting and early warning:
  – Lack of early warning system and realtime disease information system in regions
  – Poor reporting at village level

• Regional action plans:
  – FMD control for hot spots
  – Regional control plan
  – Animal movement/value chain

• Endorsement of public private partnership

• Surveillance and seromonitoring
Summary

• Global FMD control is feasible and can be a driver to improve the animal health system

• The mechanism for PCP-FMD stage acceptance is developed

• The uptake of FMD control is different; west Eurasian countries are more advanced than other regions

• PCP-FMD approach and reinforcement of vet services are gradually gaining acceptance. Sixty countries are engaged and 42 countries are closely monitored with evidence of advancement.

• Political will and engagement of international and regional organizations and development partners are crucial to the startup and sustainability of FMD control

• PCP principles could be adopted and used for control of other TADs as an optional possibility and after regional and national discussions

• Funding is needed to support the global strategy, particularly those countries at lower PCP stages

• Vaccination issues need to be addressed by the government authority and research community
Research Essentials for the Success of Global Control Strategy

- Vaccine issues: duration of immunity, cost, availability and quality
- FMD vaccination regimens for small ruminants
- Component 3: how to combine FMD control program with other TADs (i.e. CBPP, Brucellosis, LSD, PPR, HS)
  - Surveillance
  - Vaccination
  - Value chain and socioeconomic analyses
  - Disease awareness
- Review and refine virus topotypes and country composition of virus pools 3 and 5 considering the recent changes in virus movement
- Linking research projects in countries to PCP-FMD data for advancing countries and sharing information at the regional level in timely manner
Acknowledgments

- FAO Decentralized offices and ECTAD teams
- OIE HQs and regional and sub regional offices
  - EuFMD secretariat
  - Continental-Regional organizations: AU-IBAR, IGAD, EU
- Italian government for funding the FMD global secretariat, 2013-2015
- Former Members of the FMD WG: Jemi Domenech and Peter Deleeuw
Thank you for your attention