FAO available support for FMD SAT1 Emergency Preparedness



SEACFMD Laboratory Network Meeting

10-11 November 2026, Manila, Philippines

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Technical Cooperation Project (Jul 2026-Jul 2027)

Preparedness for emerging FMD virus serotype SAT1 (TCP/RAS/4101):

Cambodia, Indonesia, Lao PDR, Mongolia, Philippines, Pakistan, Thailand, Viet Nam



OUTPUTS:

1. EARLIER DETECTION: assess risks and prepare for faster detection and investigation of unusual FMD events



2. RAPID DIAGNOSIS: laboratory readiness to identify and characterize FMDV SAT1

3. TIMELY RESPONSE: rapid implementation of disease control measures tailored to new viral strains



Implementation of activities are **responsive to country needs and the **evolving epidemiological situation***

***Collaboration to achieve the objectives with **other countries** not included in current TCP is welcome*

How the TCP supports the LabTAG REG-FMD workplan

TCP aims at supporting directly priority actions identified by the REG-FMD for 2026–2027

Strengthening the regional reference function

Support RRL-FMD in its role as ASEAN Reference Laboratory for FMD

- Provision/development of diagnostic reagents and protocols
- Proficiency testing schemes
- Training and technical backstopping
- Support for SAT1 preparedness and diagnostic capacity

Regional dissemination and capacity building

Share outputs and technical resources through the LabTAG Virtual Hub

- Updated diagnostic algorithms and protocols
- Training materials and virtual training, including PVM
- Contact information for technical experts and resource persons
- Peer support, Q&A and knowledge exchange
- Access to relevant diagnostic resources and guidance

Address some key challenges identified at the special session REG FMD (June 2026)

Vaccine effectiveness

Limited PVM capacity and field evaluation of vaccine performance.

Virus characterization

Gaps in FMDV genotyping and molecular epidemiology.

Diagnostic reagents

Access constraints for serology, PVM and molecular detection.

Sampling & identification

Low sample collection and virus identification from outbreaks.

Sample shipment

Financial and logistical barriers to reference laboratories.

Output 1: Surveillance and early warning systems for earlier detection and faster investigation of unusual FMD events are strengthened

Activities

1. **Assess risk pathways and identify the most likely routes and source for the introduction and spread of FMDV SAT1**

✓ • Risk Monitoring Tool (RMT): identify risk pathways for possible introduction of new FMDV strains (Jun-Sep 2026)

2. **SAT1 Rapid regional risk assessment:**

✓ • Regional rapid risk assessment (Sep-Oct 2026) published online ASAP

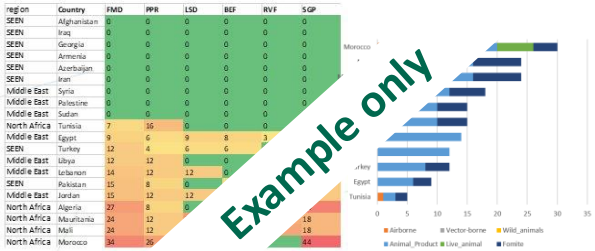
• Regional training workshop on national risk assessment (3-4 Dec 2026, Manila)

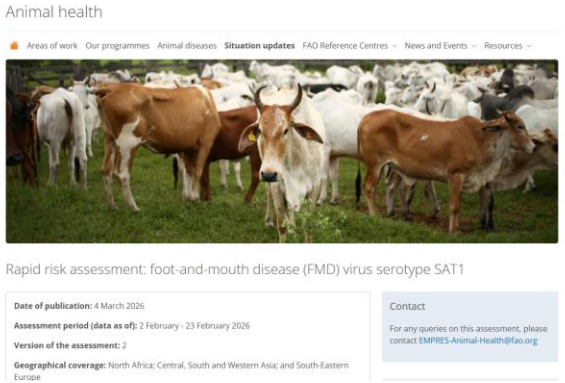
3. **Training and support for improved outbreak investigation, sample collection:**

• Regional tutored virtual training courses on FMD outbreak investigation (Jan 2027)

• 4 countries requested support for National virtual training courses (from Feb 2027)

• Support for outbreak investigation and sample collection and testing available



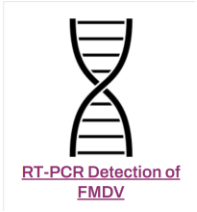


Output 2: Enhanced laboratory diagnostic and viral characterization capacity for rapid and accurate identification of new FMD strains

Activities

1. **Provision of emergency supplies** to national and regional reference laboratories for SAT1 confirmation (ongoing in 6 countries)
2. **Support for sample shipment to Regional Reference Laboratories and WRLFMD** (support available to conduct genome sequencing and vaccine matching) (ongoing 1 country)
3. **Capacity building in national reference laboratories**, including testing for FMDV SAT1 confirmation and characterization (Q1 2027):
   - Virtual training: 13 modules tutored online training (Q1 2027)
   - Tentative hands-on practical laboratory training (Q2 2027)
4. **Support proving performance of National Reference Laboratories** through participation to the global PTS organized by WRLFMD (ongoing)





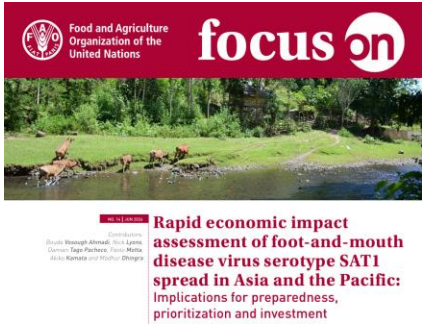
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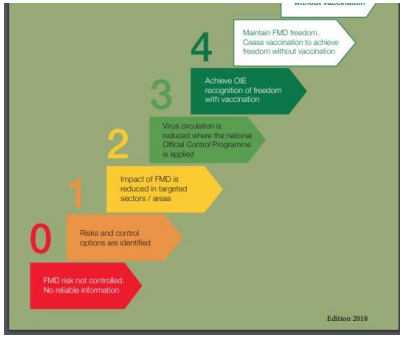
WOAH/FAO
Foot-and-Mouth Disease
Reference Laboratories
Network

Output 3: Improved preparedness and rapid response tailored to new viral strains

Activities

1. **Generate evidence to sensitize policy makers about FMDV SAT1 preparedness: estimate SAT1 economic impact Asia** across 33 countries (~USD 2 billion per year under a medium-impact but excluding trade disruption, control costs, and downstream market effects) https://openknowledge.fao.org/handle/20.500.14283/ce0418en
2. **Technical support to review and update national contingency** plans and/or FMD control programmes (ongoing)
3. **Support high-level guidance on vaccine** specification and selection and vaccination in emergency response
   - Asian–African FMD Prevention and Control Technology Workshop (Lanzhou, China, 3-5 Aug 2026)
   - Regional consultation on vaccines and vaccination (Q2-Q3 2027)
4. **Training and support for simulation exercises:**
   - **Multicounty training on designing simulation exercise** (table-top) to test early detection, outbreak response and communication mechanisms (Q2-Q3 2027)





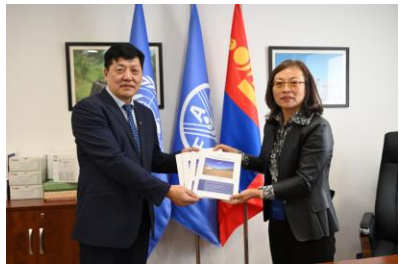
Emergency assessment mission to support Mongolia’s response to FMD virus serotype SAT1 (06-15 Aug 2026)

1. Assessed the epidemiological situation of the FMD SAT1 outbreak
2. Reviewed outbreak investigation, surveillance activities, livestock movement control and emergency response measures
3. Reviewed coordination among veterinary services, laboratories and emergency management agencies
4. Identified immediate and medium-term technical and operational gaps
5. Developed practical recommendations to strengthen Mongolia's preparedness for, and response to, future FMD outbreaks









October 2026:

✓ Support provided to conduct post-vaccination monitoring and strengthen surveillance and diagnostic capacity for further SAT1 incursions



Thank you