

World Organisation for Animal Health

Australian Aid

SEACFMD

SEACFMD Laboratory Network Meeting

RRLFMD-Pakchong Update (Technical Support)

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Director of RRLFMD-Pakchong

10-11 November 2026
Manila, The Philippines

To plays a key role of Reference Laboratory for ASEAN Member States.

- Strengthen RRLFMD–Pak Chong as a regional capacity-development
- Coordinate regional quality assurance and proficiency testing Program
- Establish a regional surveillance and research by the region network



RRLFMD–PAKCHONG ACTIVITIES, 2025–2026

Strengthening regional preparedness and laboratory capacity for foot-and-mouth disease

1 FMD DIAGNOSIS AND CONFIRMATION



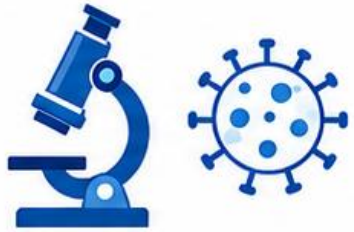
Rapid detection, laboratory confirmation, and characterization of FMDV

2 BSL-3 & BIOSAFETY



Renovation, commissioning and operational readiness

3 REFERENCE DIAGNOSIS



Detection, serotyping, virus isolation and VP1 sequencing

4 SAT1 PREPAREDNESS



rRT-PCR, SOPs, reagents and regional training

5 VACCINE MATCHING



Antigenic assessment and post-vaccination monitoring

6 QUALITY ASSURANCE



ISO/IEC 17025, proficiency testing and ISO/IEC 17043 preparation

7 RESEARCH & INNOVATION



RT-ddPCR, portable PCR and rapid diagnostic development

8 ONE HEALTH SURVEILLANCE



Carrier studies and livestock–wildlife interface investigations

Workflow: FMD diagnostic and Confirmation

Sample submission

Member to RRLFMD-Pakchong

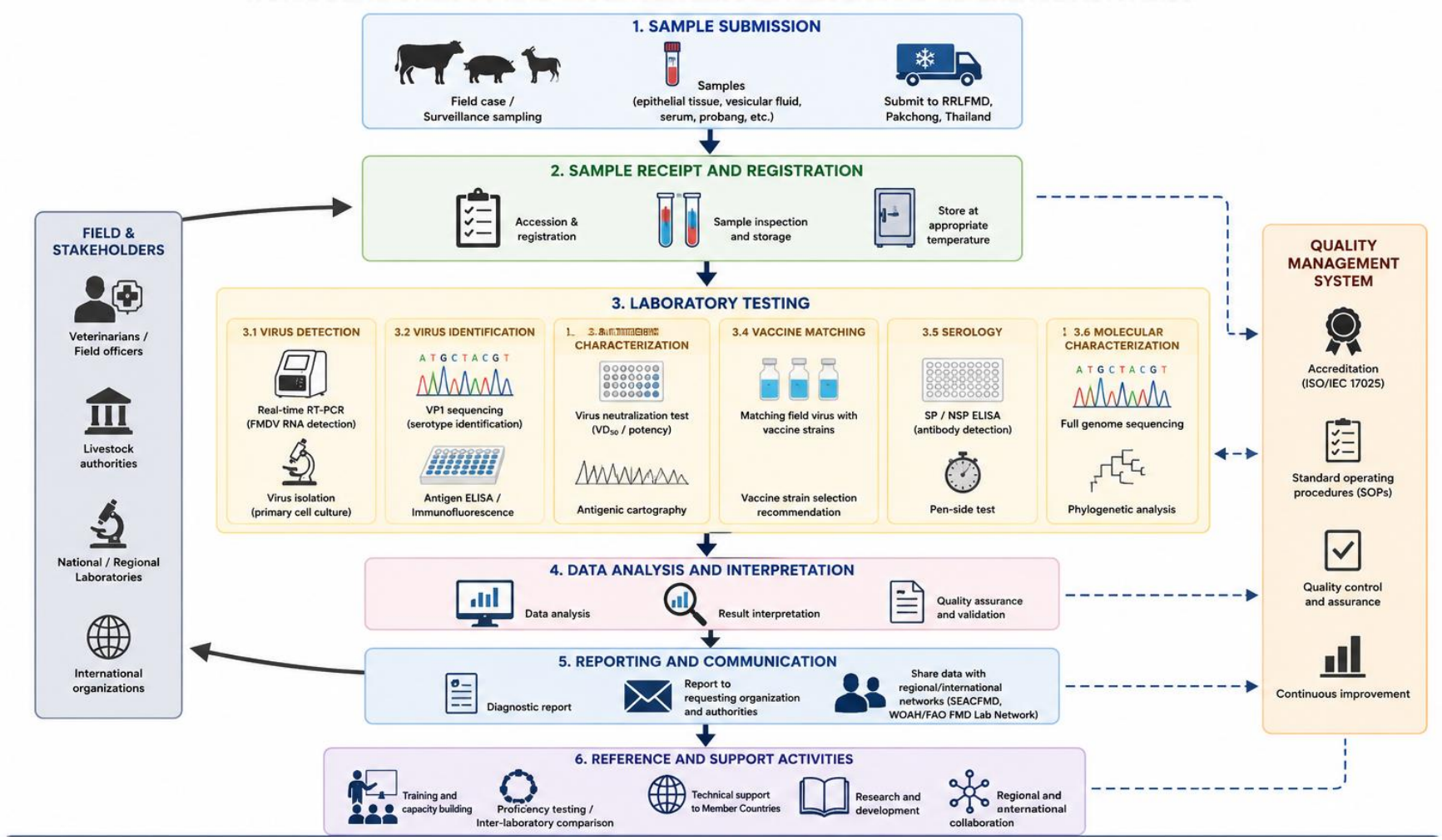
- FMD diagnosis
- Feedback

Shipping cost support by FAO?

1

RRLFMD-Pakchong to WRL,UK

- FMD diagnosis confirmation
- Epidemiology information analysis for the region
- Feedback









- **Training and Knowledge Transfer**
  - **Organize practical laboratory training,** technical workshops, and knowledge-sharing activities.
  - **Facilitate technical exchanges among ASEAN laboratories** and international reference laboratories.
  - **Distribute the reagent** that collaborate with WOAH/FAO/WRL and continued technical mentoring. (e.g. SAT1)

Training Activities







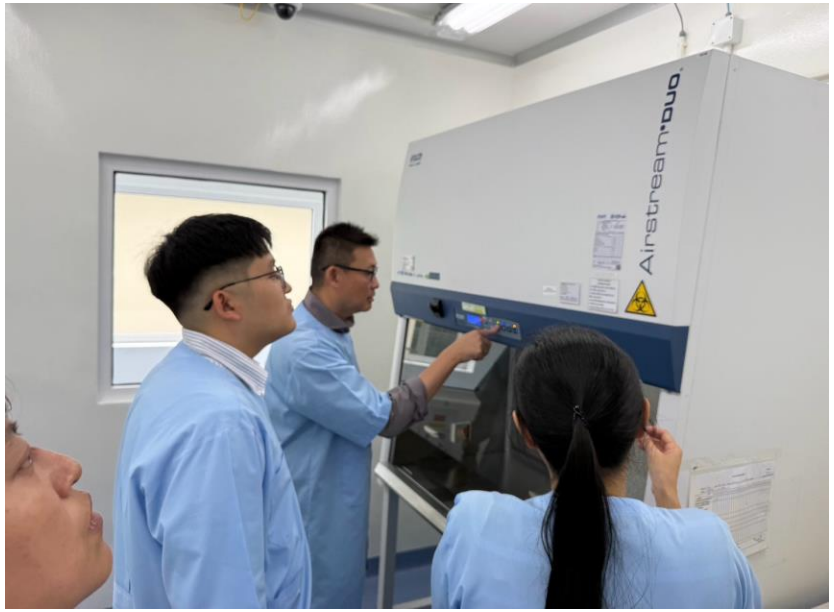


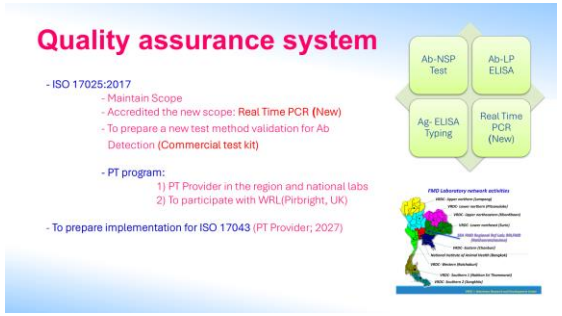








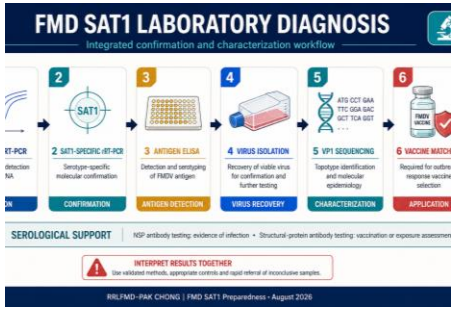




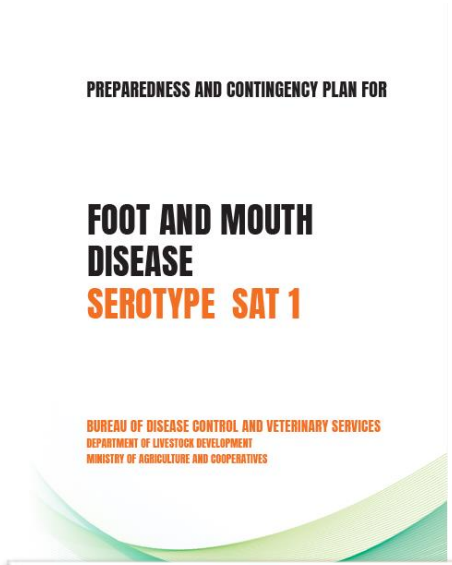








- # Quality Assurance & Proficiency Testing
  - Participating with WRL Annually
  - PT Provider
  - Validation for In house reagent
  - ISO 17025:2017
    - ELISA Typing
    - NSP Test
    - LPB ELISA
    - RT PCR
  - ISO 17043 : 2027 (Implementing 2027)
  - Biosafety and Biosecurity system (Certify Activity)



















Sustainable Regional Collaboration

Establish regular technical consultations and laboratory network meetings with regional and international partners (WRLFMD, FAO, RRLFMD-Pakchong, ACDP, MOPH, and ASEAN Member States).

Promote joint research, collaborative studies, and scientific publications with national and international institutions.

Support the developing of regional mechanism to identify laboratory capacity gaps and prioritize technical assistance.

Strengthen international partnerships to mobilize technical expertise, resources, and diagnostic reagents, including SAT1 preparedness support.

Future Support and Strategic Priorities

- **Advanced Molecular Diagnostic Capacity**
- **Preparedness for Emerging and Exotic FMDV Serotypes**
- **Strengthening Laboratory Quality and Biosafety Systems**
- **Vaccine Matching and Serological Surveillance**
- **Sustainable Regional Collaboration**

