

Foot and Mouth Disease in Southeast Asia

Dr. Ronello C. Abila

OIE,Regional Coordinator and

Dr. Wilai Wilai Linchongsubongkock

Head, FMD Regional Reference Laboratory



Foot and Mouth Disease

- caused by a virus of the genus
 Aphthovirus, family Picornaviridae.
- seven serotypes of FMD virus
- O, A, C, SAT 1, SAT 2, SAT 3, and Asia 1,
- Disease of cloven-footed animals
- No public health importance



Species affected

- Domestic animals Cattle, pigs, sheep, goats and buffalo
- many species of cloven-hoofed wildlife, such as African buffalo, deer, antelope and wild pigs may become infected
- apart from the African buffalo wildlife involvement in the epidemiology of FMD in the domesticated species is not certain
- strains of FMD virus that infect cattle have been isolated from wild pigs and deer



Clinical signs

- Vesicular diseases
- vesicles(blisters) and erosions of the epithelium of the mouth, nares, muzzle, feet, and teats
- fever, lameness, inappetence
- Highly contagious
- High Morbidity, low mortality





Impact on Farmer's livelihood

- Loss draft power
- Low productivity
- Added cost on treatment
- Reduced value of their livestock
- Reduced farmer's income



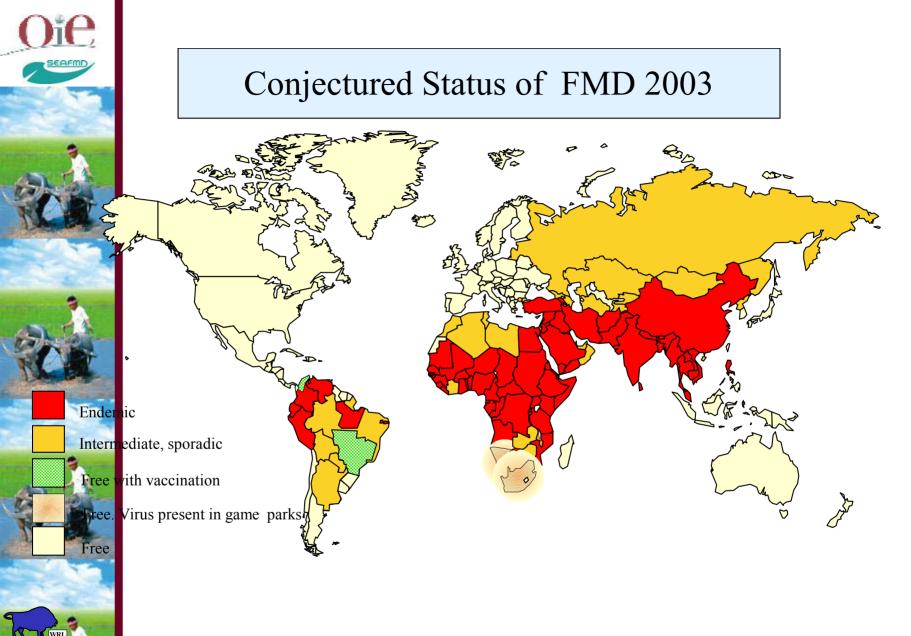


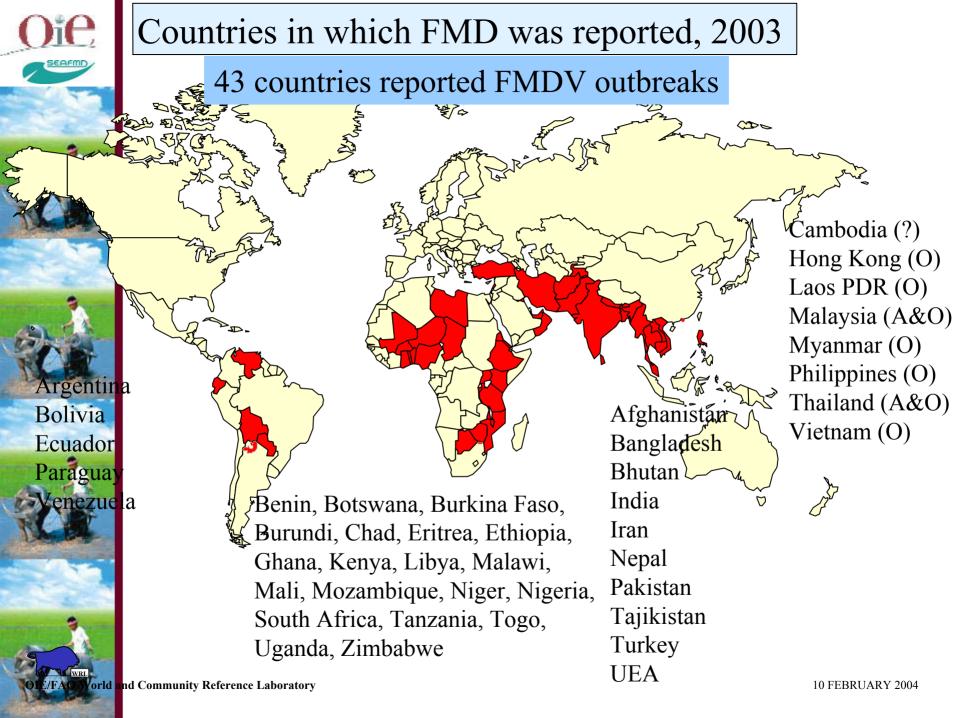


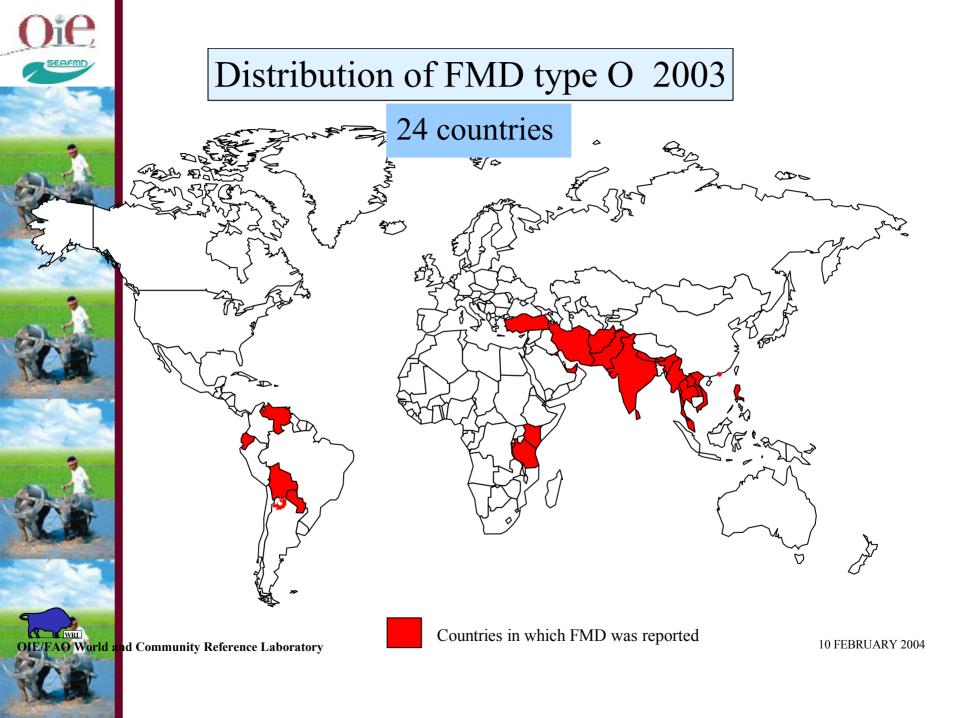
Countries recognised by the OIE as free from foot and mouth disease without vaccination

(According to the provisions of Chapter 2.1.1 of the OIE Terrestrial Animal Health Code)

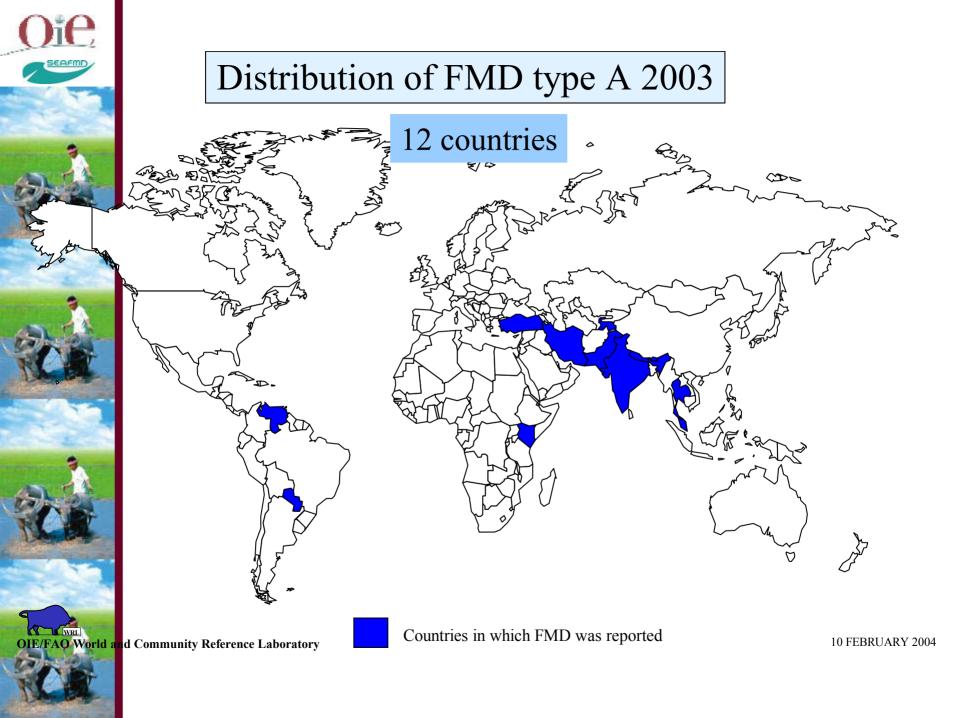




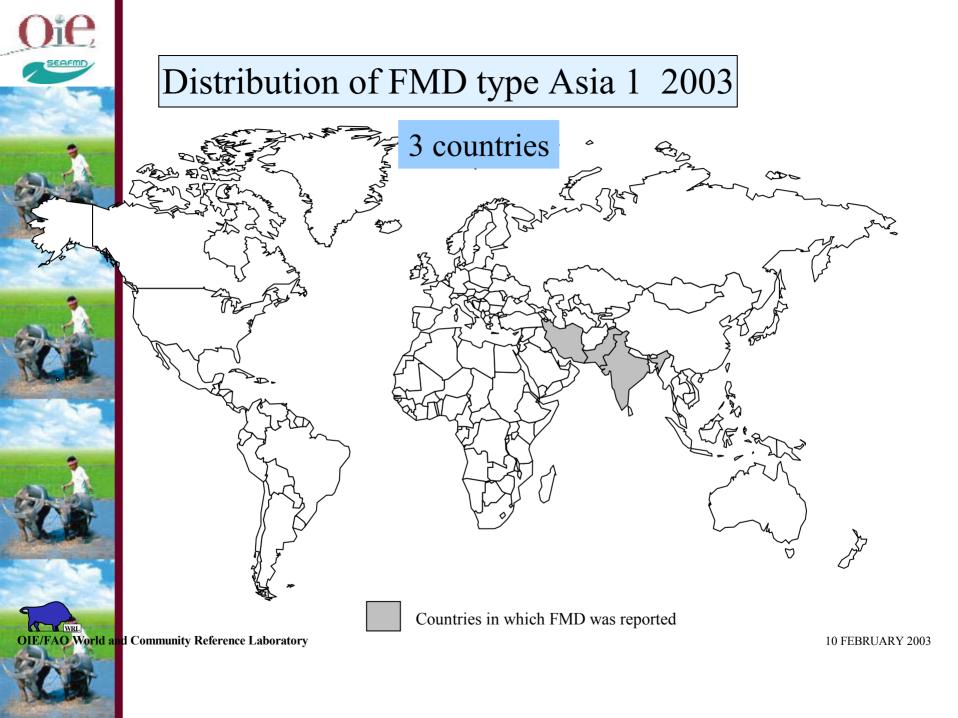




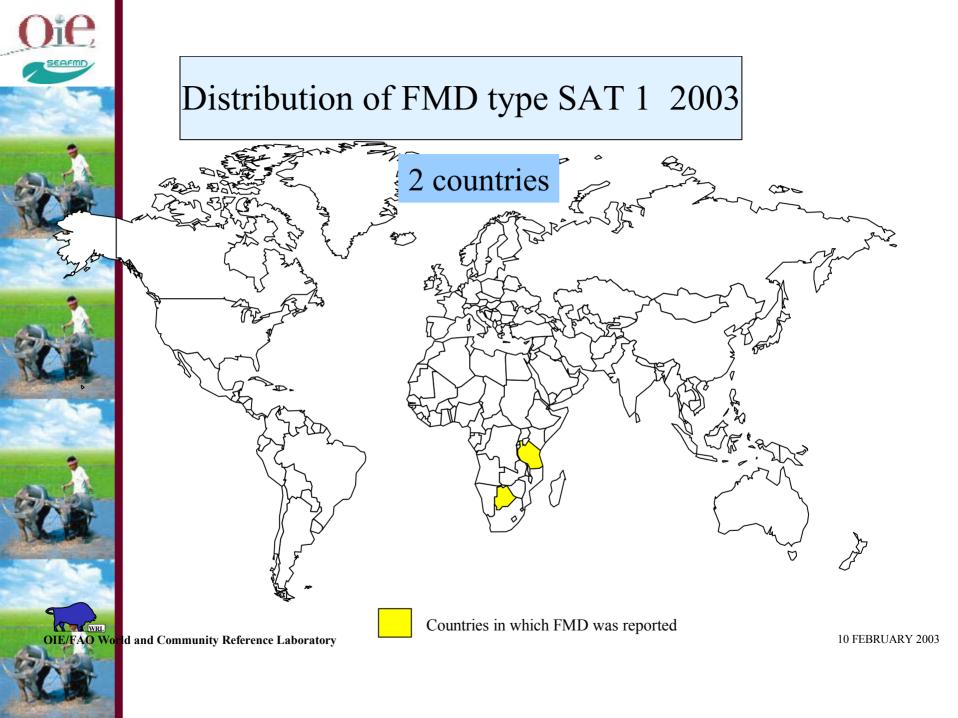
15 countries which submitted FMD type O isolates to the **OIE/FAO** World Reference Laboratory in 2003 orld and Community Reference Laboratory **10 FEBRUARY 2004**

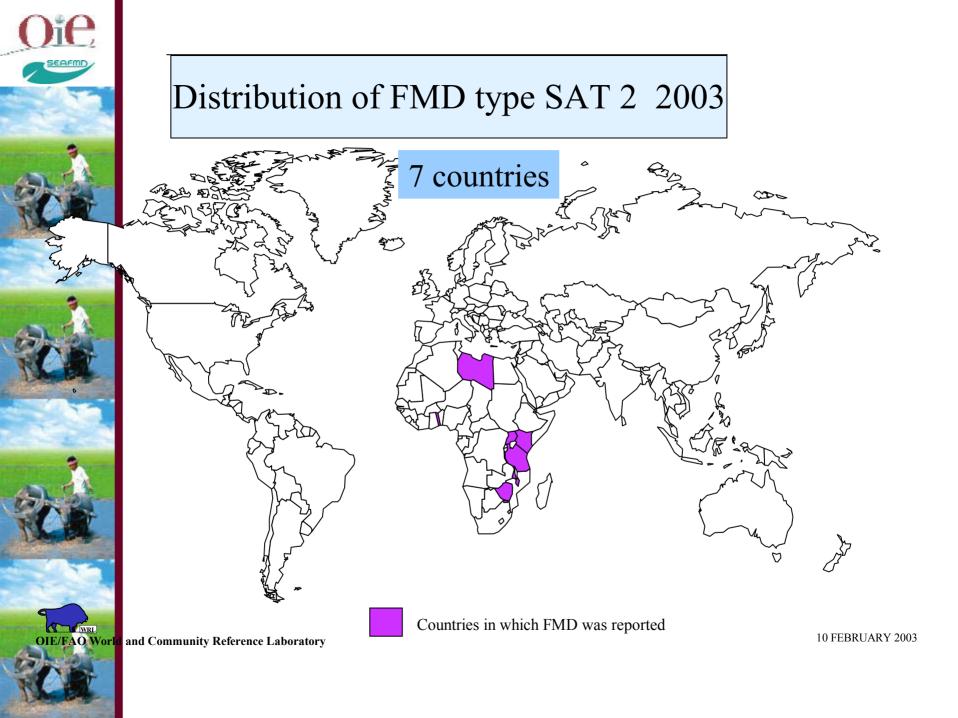


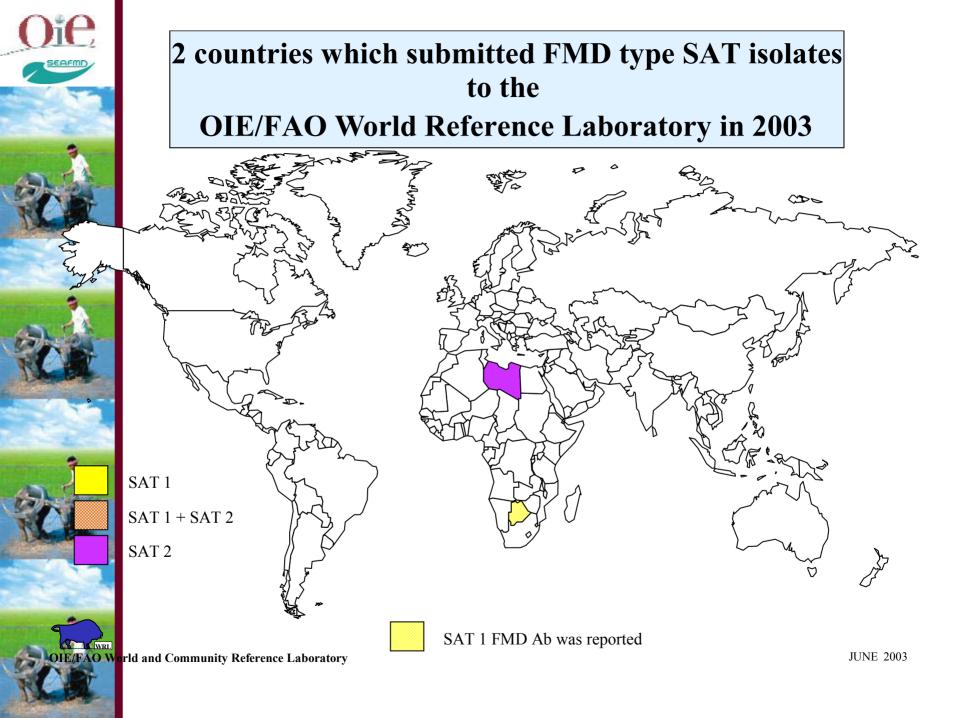
6 countries which submitted FMD type A isolates to the **OIE/FAO World Reference Laboratory in 2003** 10 FEBRUARY 2004 Vorld and Community Reference Laboratory



1 countries which submitted FMD type Asia 1 isolates to the **OIE/FAO World Reference Laboratory in 2003** MARCH 2003 AO World and Community Reference Laboratory



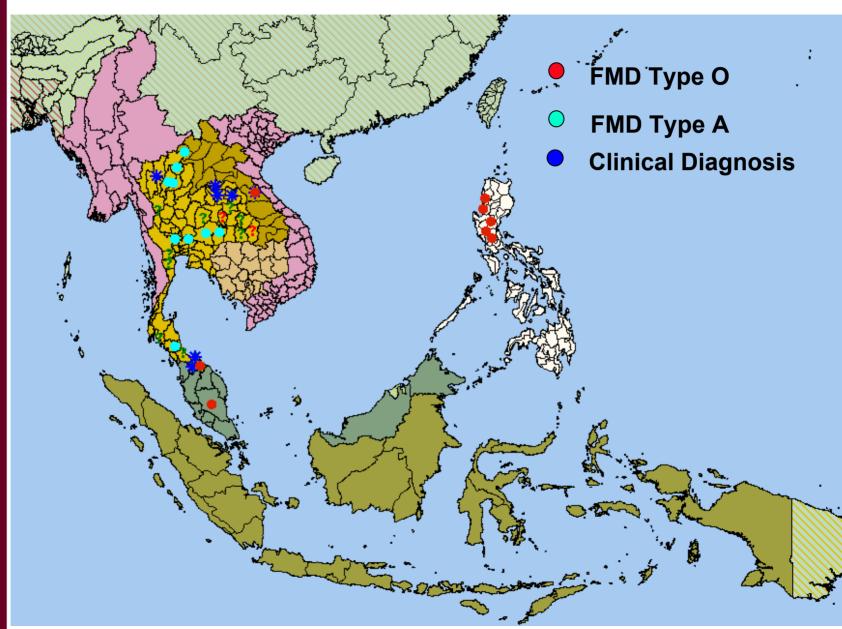




2 countries which submitted SVD isolates to the **OIE/FAO World Reference Laboratory in 2003** FAO World and Community Reference Laboratory JANUARY 2004

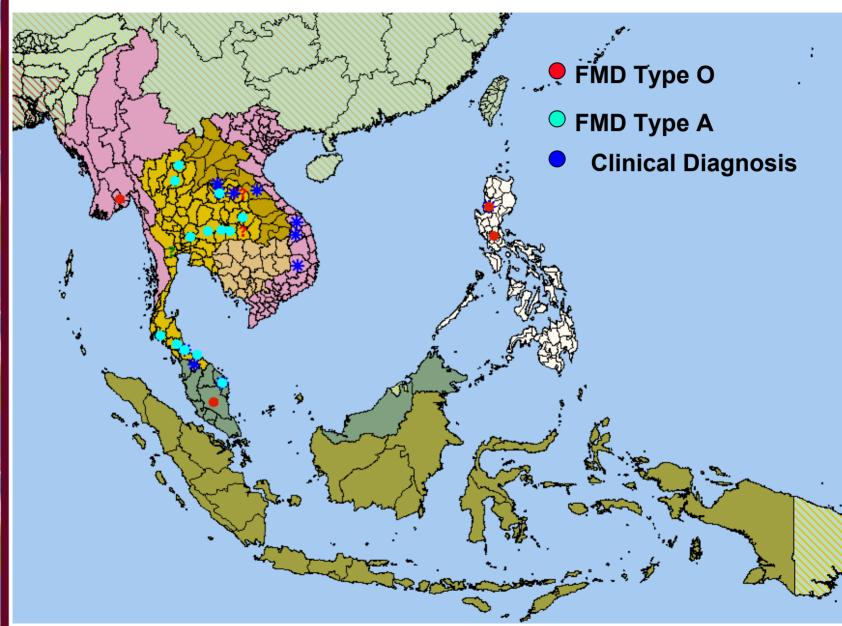


January 2004

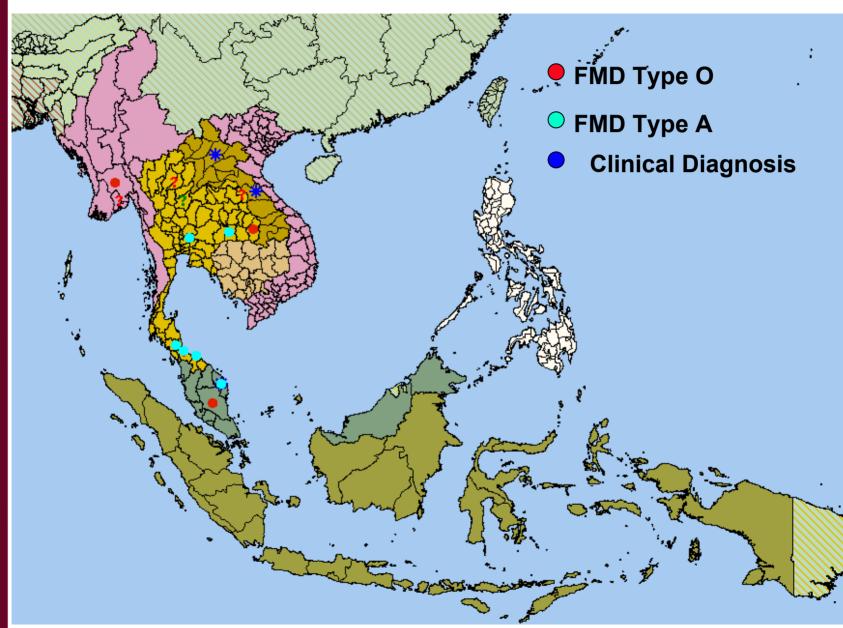




February 2004

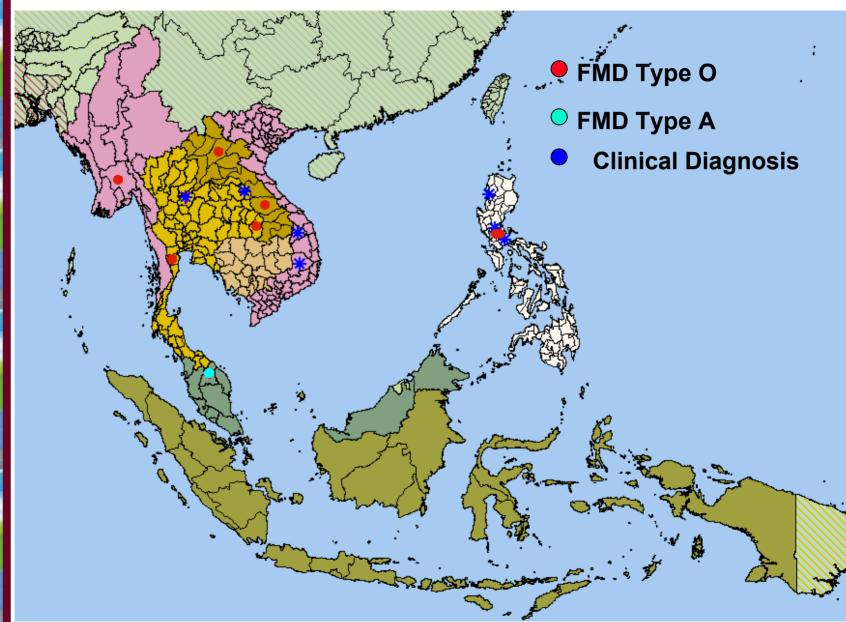


March 2004



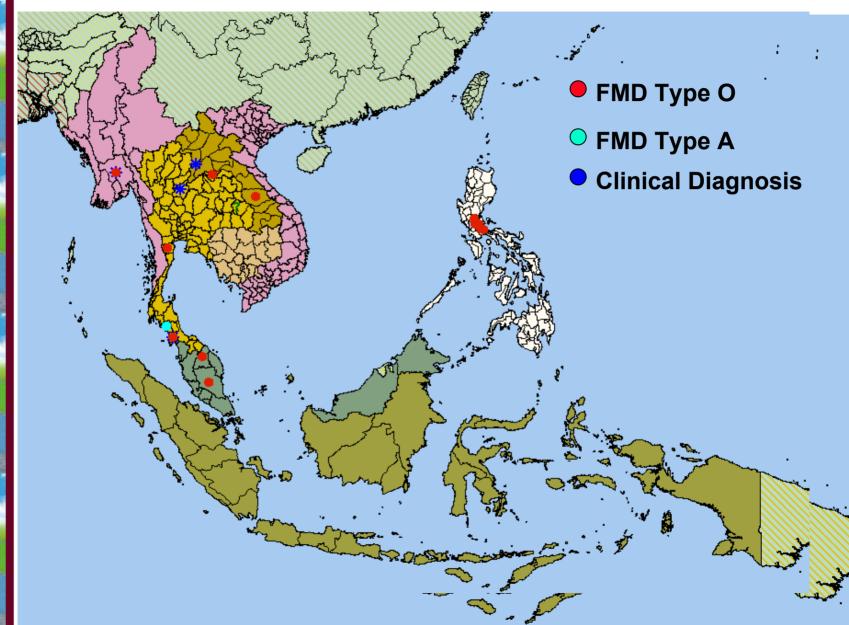


April 2004



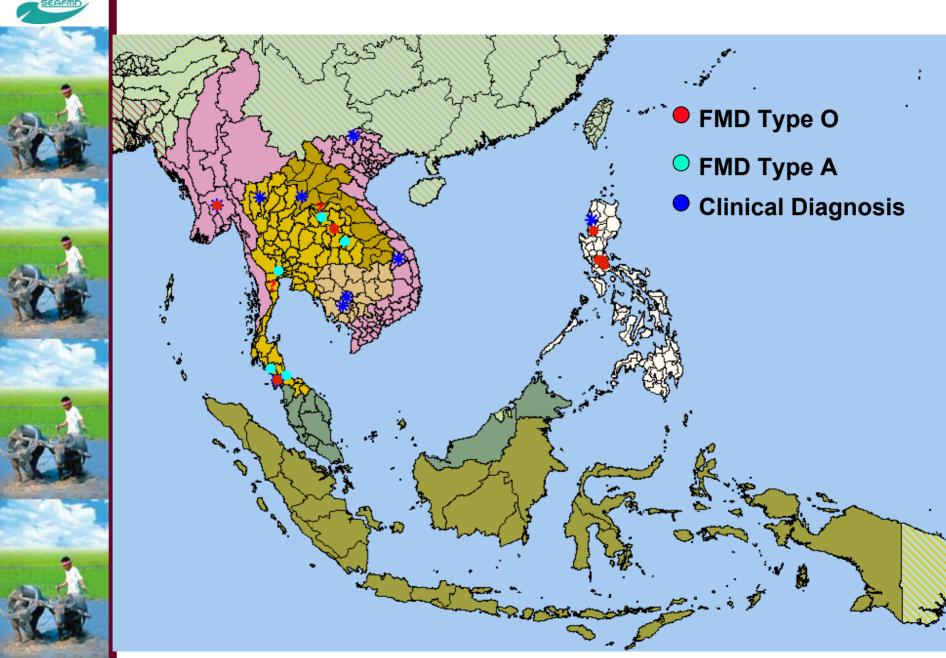


May 2004



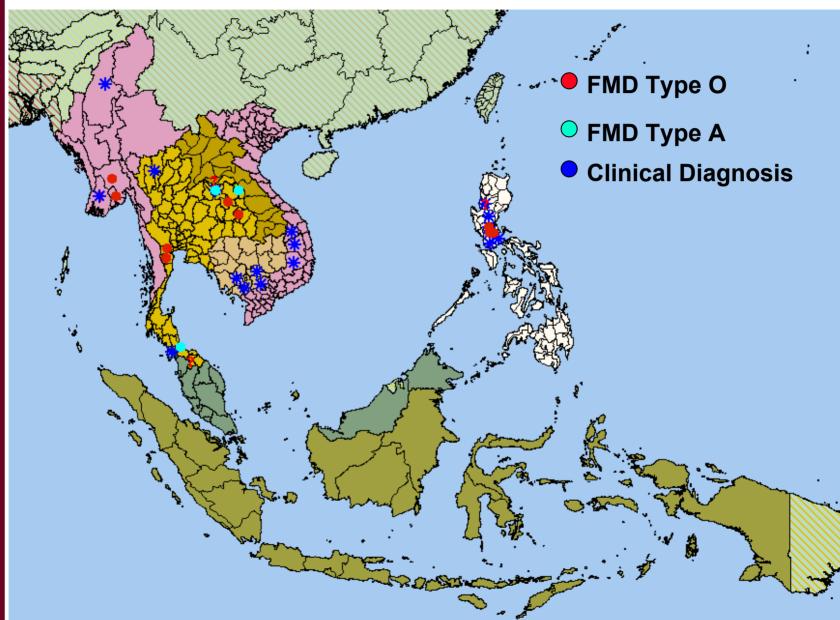


June 2004



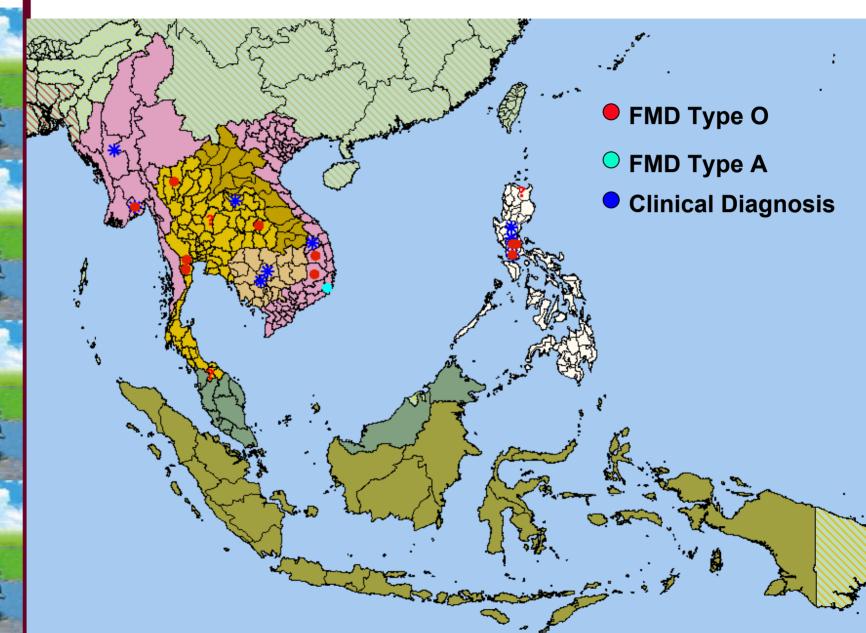


July 2004



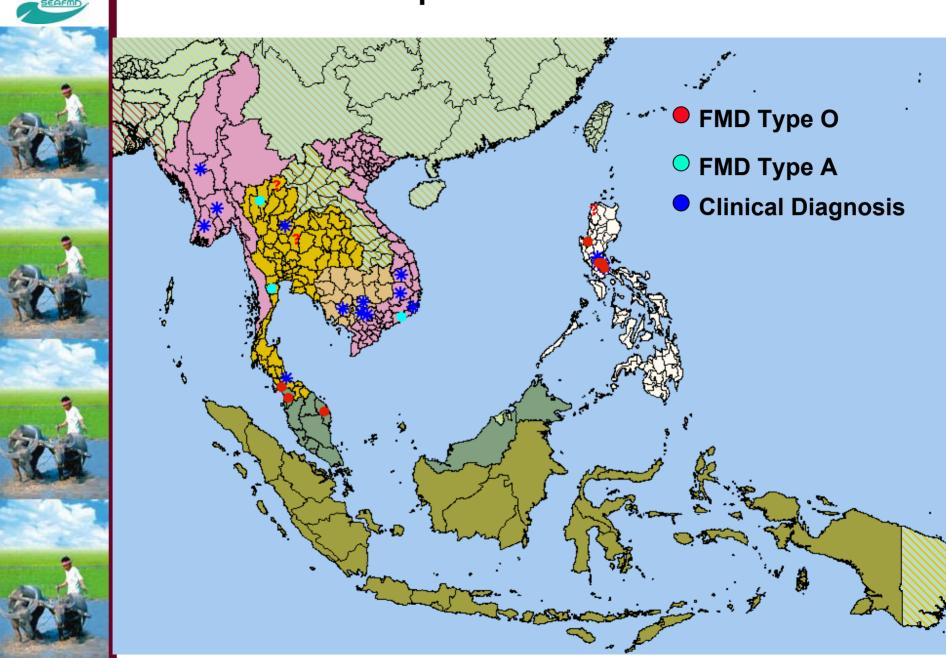


August 2004





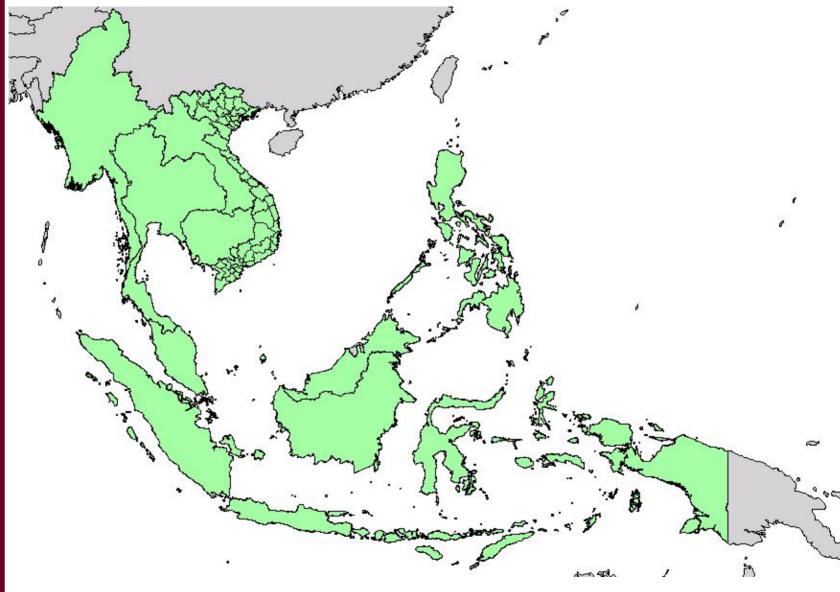
September 2004







Southeast Asia FMD Campaign





ffice International des Epizootes (OIE)
Southeast Asia Foot and Mouth
Disease (SEAFMD) Campaign





- 1994 OIE Sub-Commission for FMD Control in Southeast Asia
- 1995 1st Meeting
- 1997 OIE Regional Coordinating Unit (RCU) for SEAFMD was established in Bangkok



- Phase I (1997 to 2000)
- Funding from Sweden, Australia, OIE Tokyo,
- Support from Thailand and member countries (in Kind)



- Phase II (2001 to 2004)
- Funding mainly from Australia
- Support from OIE Tokyo and in kind contribution from Thailand and member countries



Goal

 to increase food security and alleviate poverty amongst the rural small holder producers of livestock.

Purpose

 to increase the productivity and economic output of the livestock sector by controlling and eradicating FMD.

Objective

 to add value to the regional control program through SEAFMDC by employing a series of integrated and harmonised approaches to disease control

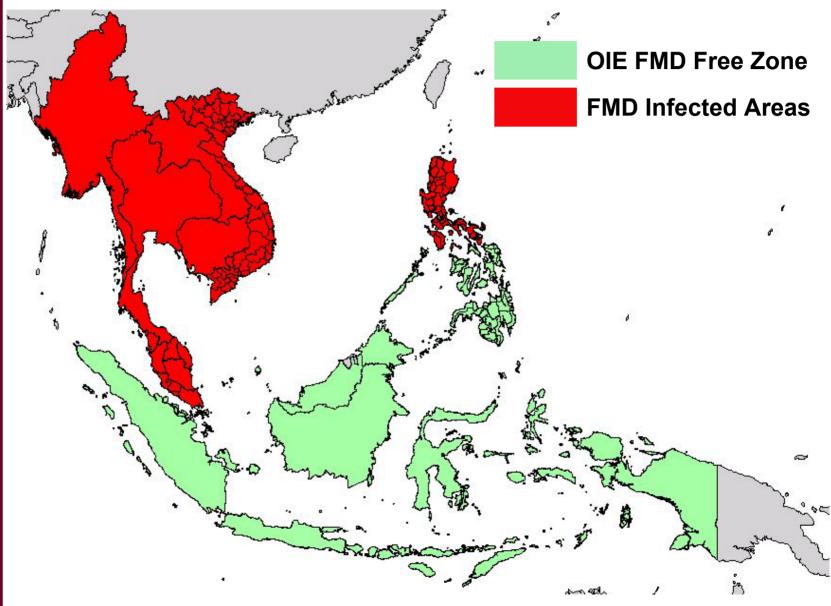


Components of SEAFMD

- International Coordination and Support
- Program management, resources and funding
- Public Awareness and Communication
- Disease surveillance, diagnosis, reporting and control
- Policy, legislation and standards to support disease control and zone establishment
- Regional research and technology transfer
- Livestock sector development including private sector integration
- Monitoring and evaluation

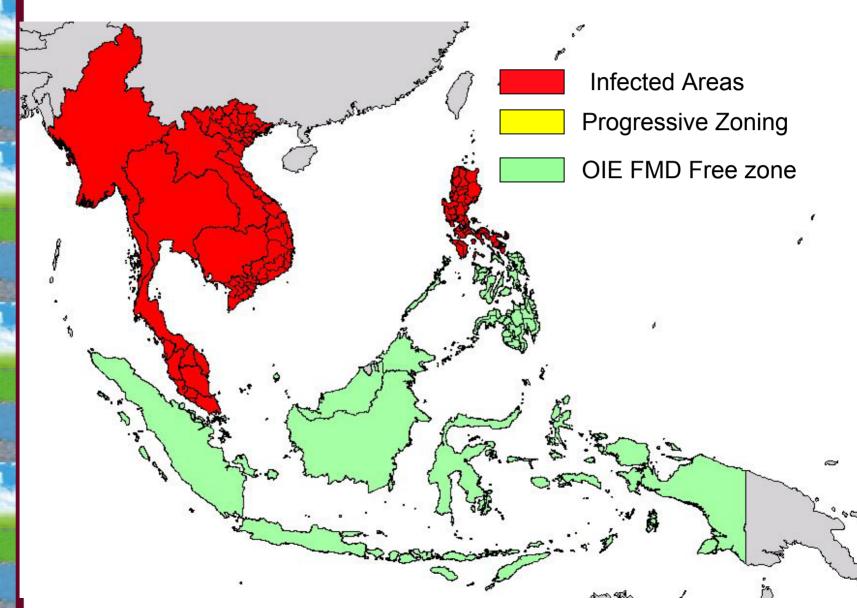


Southeast Asia FMD Status

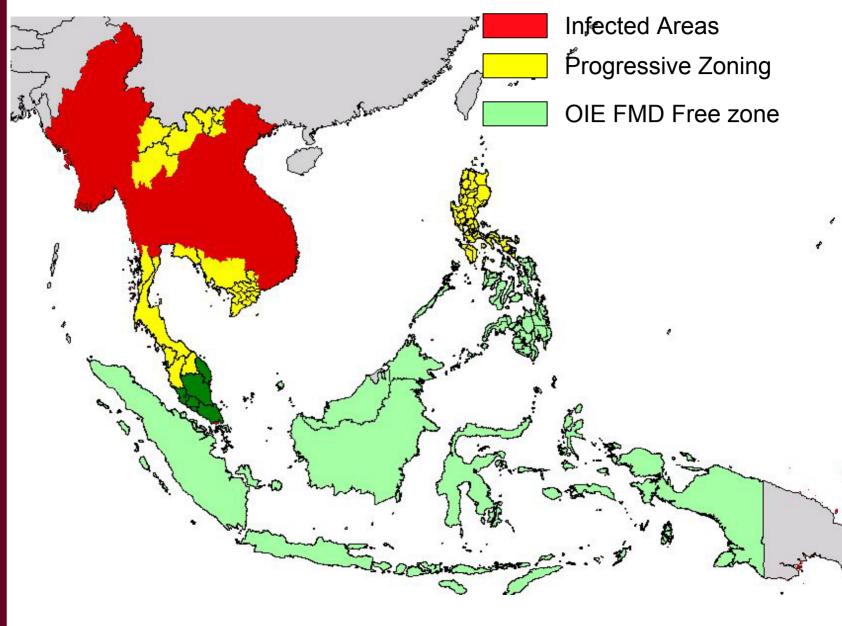




Southeast Asia FMD Progressive Zoning



Southeast Asia FMD Progressive Zoning

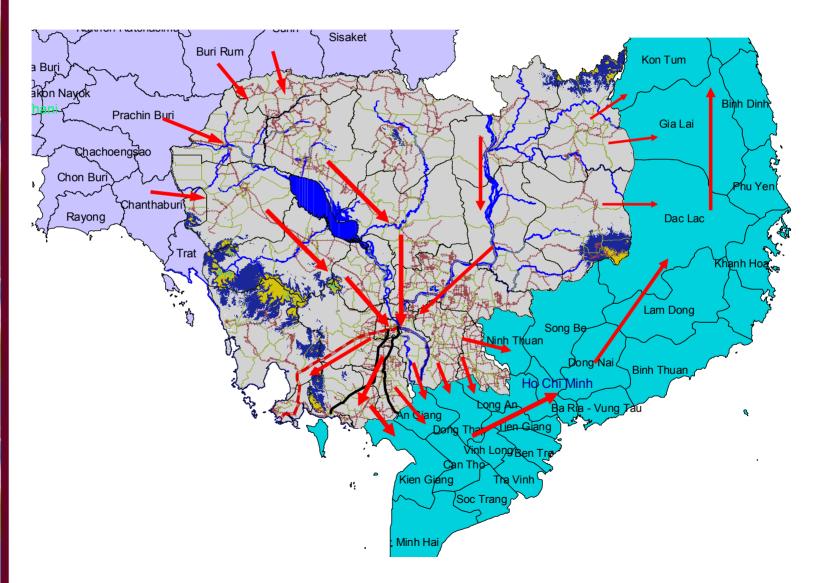




Progressive Zoning

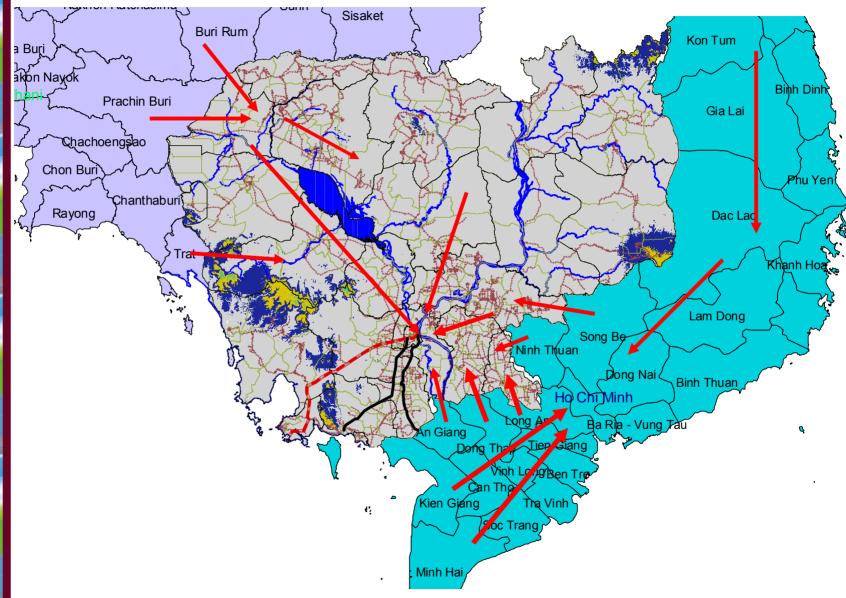
- Focus on zoning and animal movement management
- Study the feasibility technical and economic
- Epidemiological and economic studies
- Leadership by the countries
- Support by RCU and other agencies
- Participation and practical training
- Proposal for members and international donors

Cattle Movement 2004





Pig Movement 2004

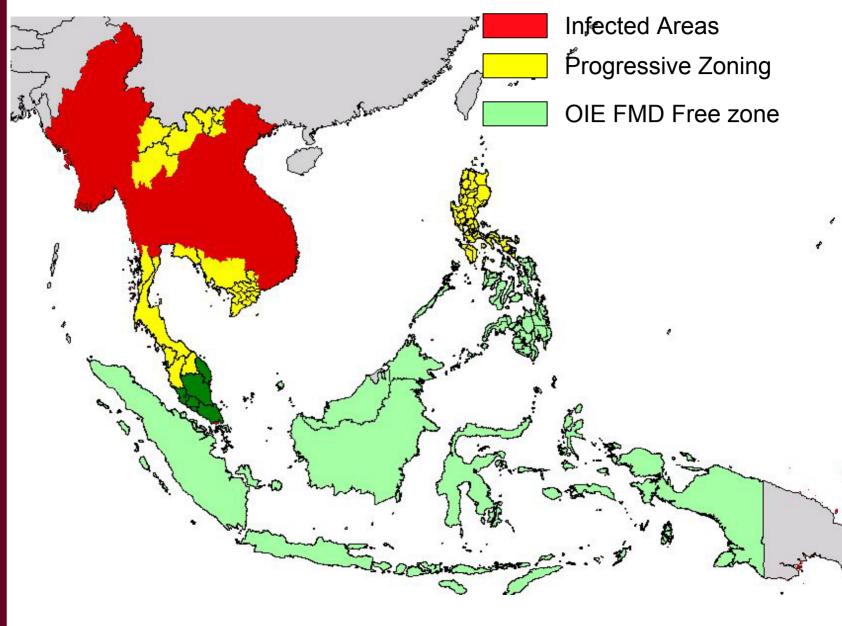




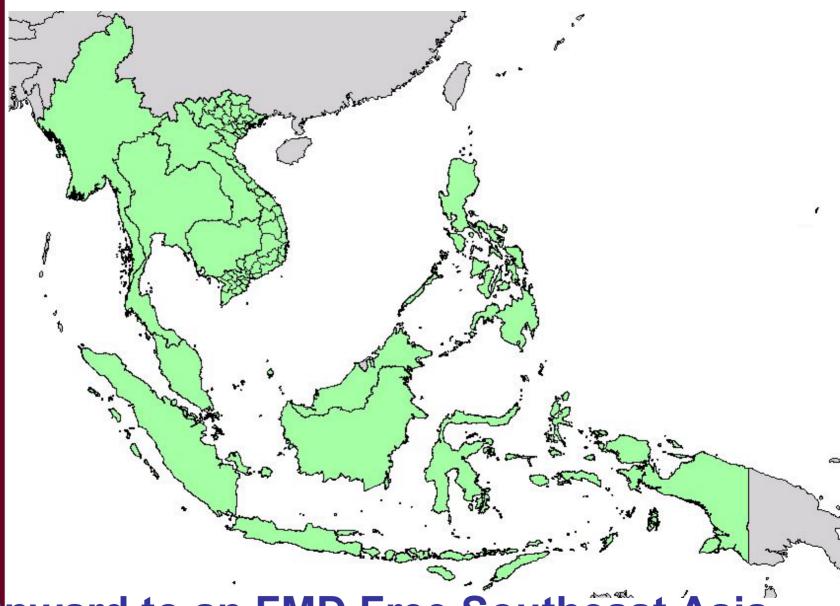
Zoning for Lower Mekong



Southeast Asia FMD Progressive Zoning



Southeast Asia FMD Campaign



nward to an FMD Free Southeast Asia