



# Brucellosis

## OIE Twinning Laboratory Program

### France-Thailand



**B. Garin-Bastuji & M. Ekgatat**

EU / OIE & FAO Reference Laboratory for Brucellosis- ANSES – Maisons-Alfort, France  
NIAH, DLD, Bangkok, Thailand

Thailand-Japan Conference on Animal Health  
The 25<sup>th</sup> Year anniversary of National Institute of Animal Health  
Rama Gardens Hotel, Bangkok, Thailand  
May 30-31, 2012



# The OIE Twinning projects

## Why:

- *“to assist laboratories in developing or in-transition countries to build their capacity and scientific expertise with the eventual aim that some of them could become OIE Reference Laboratories in their own right”*

## How:

- *“a link between an existing OIE Reference Laboratory or Collaborating Centre and another laboratory in a developing or in-transition country must be established for exchange of scientific expertise and capacity building”*
- *“the twinning concept could imply a transfer of knowledge, training and expertise”*

# The Brucellosis OIE Twinning Program France-Thailand

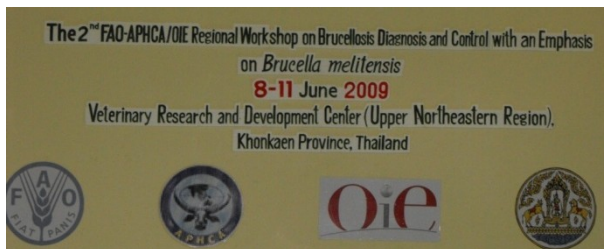
## ☞ Birth of a collaboration:

### *FAO-APHCA/OIE Regional Workshops on Brucellosis Diagnosis and Control*

- 1<sup>st</sup> in Chiang Mai and Lampang, 20-23 October 2008



- 2<sup>nd</sup> in Khon Kaen, 08-11 June 2009



☞ *First visit of Anses team to NIAH*

☞ *Recommendations for a twinning project implementation*

# The Brucellosis OIE Twinning Program France-Thailand

- ☞ Three-year project: 2010-2013 (99.000 €)
- ☞ Main objectives:
  - to strengthen the level of expertise in brucellosis serological diagnosis/screening & bacteriological isolation of *Brucella* by culture
  - implementing reference activities
    - ☞ (i) control and standardisation of diagnostic reagents and vaccines,
    - ☞ (ii) organization of Regional serology proficiency ring-trials and,
    - ☞ (iii) *Brucella* typing and molecular detection and identification.

# Brucellosis OIE Twinning: Work program

- ☞ 3 annual training sessions of NIAH staff at Anses
- ☞ 3 visits of Anses to NIAH
- ☞ Participation of NIAH to the EU/OIE proficiency RT *in order to monitor the progress in the quality of serological testing in NIAH;*
- ☞ Collection of large volumes of serum from positive cattle, buffaloes, sheep and goats in order to establish a common serum collection for:
  - the establishment of regional secondary standard sera (standardised against the OIE international standard sera),
  - further organisation of regional ring-trials and,
  - quality assurance and test validation controls

# Brucellosis OIE Twinning: Work program

- ☞ The establishment of a NIAH collection of *Brucella* strains:
  - Reference strains to be provided by AFSSA (type strains and strains for antigen and vaccine production)
  - Field strains isolated by NIAH from infected cattle, buffaloes, sheep and goats at the regional level
- ☞ Assistance in completing the quality assurance system in place (*acc. 17025 ISO/CEI std.*)
- ☞ The provision of NIAH with *Brucella*-phages and monospecific sera for a rapid implementation of *Brucella* biotyping at NIAH
- ☞ Assistance in designing research activities:
  - sero-prevalence surveys (during the twinning project),
  - studies on the distribution, both, geographical and by animal species, of *Brucella* species in the region.

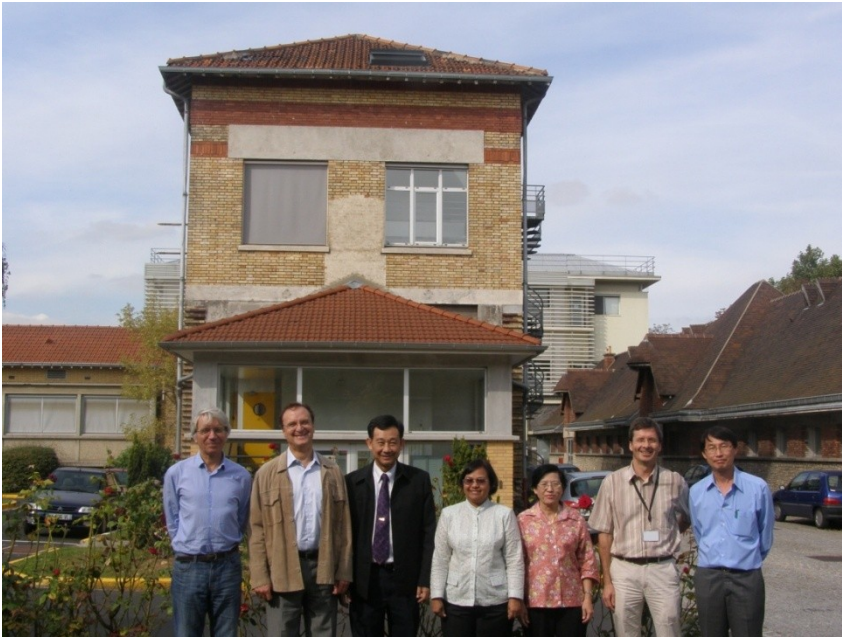
## ***In conclusion:***

 *The achievement of all project objectives are expected to:*

- strengthen the Asia Pacific impact of NIAH
- ensure its capability of implementing regional activities expected from an OIE reference laboratory
- by stimulating an active network of regional diagnostic expertise for the surveillance and control of animal brucellosis

 ***See also the poster (this conference)***





ขอบคุณครับ

*Thanks for your attention...*