



OIE



Brucellosis

OIE Twinning Laboratory Programme

France-Thailand

ANSES & NIAH-DLD





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

- 1st in Chiang Mai and Lampang, 20-23 October 2008



- 2nd 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.



OIE



Brucellosis OIE Twinning: Work programme

- 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), **validated by ANSES**
 - further organisation of regional ring-trials and,
 - quality assurance and test-validation controls





Brucellosis OIE Twinning: Work programme

- **The establishment of a NIAH collection of *Brucella* strains:**
 - Reference strains already provided by ANSES (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 (already sent to ANSES for confirmation)
- **Assistance in completing the quality assurance system in place (ISO/IEC 17025:2005)**
- **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 (Project of PhD thesis)



OIE



3rd visit of ANSES





OIE



Brucellosis OIE Twinning: activities and other relevant

- All activities under programme were completed on December 31, 2013, but collaboration still goes on...



Thailand-Japan Joint Conference on Animal Health 2012

- Invitation of Dr. Bruno Garin-Bastuji – 2 presentations



Thailand-Japan Joint Conference on Animal Health 2012

- NIAH and RVRDCs – poster presentations: brucellosis laboratory surveillance and Twinning for 6 posters

The collage features six posters with the following titles and authors:

- Brucellosis : seroprevalence in upper northern region of Thailand** (Wenya Choochong*)
- Seroprevalence of *Brucella abortus* In Eastern Thailand** (Wenya Choochong*)
- Seroprevalence of Brucellosis in Livestock in Western Thailand during 2009-2011** (Sornthich Kongsriyong*)
- THE LABORATORY SURVEILLANCE OF BRUCELLOSIS IN CATTLE, BUFFALO, GOATS AND SHEEP DURING 2009 TO 2011 IN REGION 1** (Sornthich Kongsriyong*)
- Brucellosis seroprevalence of livestock in Lower Northeastern region, Thailand from 2009 to 2011** (Sornthich Kongsriyong*)
- Brucellosis OIE Laboratory Twinning Programme France/Thailand** (Egualot M* & Corbin-Bouché E*)

Each poster includes an introduction, methodology, results, and conclusions, along with various data tables and graphs. The posters are overlaid on a blue background with a yellow wave at the top.



OIE



Brucellosis OIE Twinning: activities and other relevant

- The participation of NIAH (free of charge) to the European/International proficiency ring-trials in order to monitor the progress in the quality of serological testing in NIAH : **satisfactory results**
- Rose Bengal antigen: 5 batches controlled
- Conduction of individual training on "Brucellosis and Diagnosis"
 - 2 veterinary officers from Disease Investigation Center in Subang, Indonesia (5-8 June 2012)
 - 1 veterinary officers from the Philippines (brucellosis laboratory) (14-25 January 2013)
 - Lao PDR: **expected in July 2014**



OIE



Brucellosis OIE Twinning: activities and other relevant

- Invitation – presentation on brucellosis both in Thai and in international conferences for veterinary officers, public health officers and farmers (2013- 9 times, 2014 – 3 times)
- Participation on document preparation of the guidelines on brucellosis control and surveillance for public health and animal health officers
- Contribution to the One Health Project in Thailand



OIE



The Brucellosis OIE Twinning Program France-Thailand

👉 In conclusion:

👉 The achievement of all project objectives :

- strengthened the Asia-Pacific impact of NIAH
 - ensured its capability of implementing regional activities expected from an OIE reference laboratory
 - contributed to an active network of regional diagnostic expertise for the surveillance and control of animal and human brucellosis
- Application to the designation of NIAH as a Regional OIE Brucellosis Reference Laboratory***



OIE



The way forward

- Enhancing the Brucellosis laboratory network in Asia-Pacific region for the benefit of the Animal and Public Health in the Region
- This also depends on your active participation and engagement!



OIE



Acknowledgements





OIE





OIE



Thanks for your Attention

