



World Organisation
for Animal Health
Founded in 1924

中华人民共和国农业农村部
Ministry of Agriculture and Rural Affairs of the People's Republic of China



中国动物卫生与流行病学中心
China Animal Health And Epidemiology Center

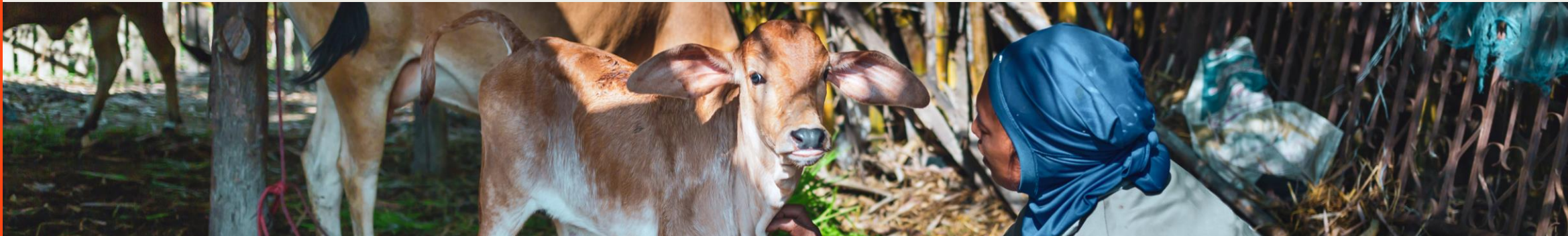
WOAH Laboratory Twinning on zTB and Benefits for Asia Pacific Region

Liu, Mengda

Division of Zoonosis Surveillance

China Animal Health and Epidemiology Center

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1. THE INTRODUCTION OF WOAH REFERENCE LABORATORIES

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Role of WOAH Reference Laboratory



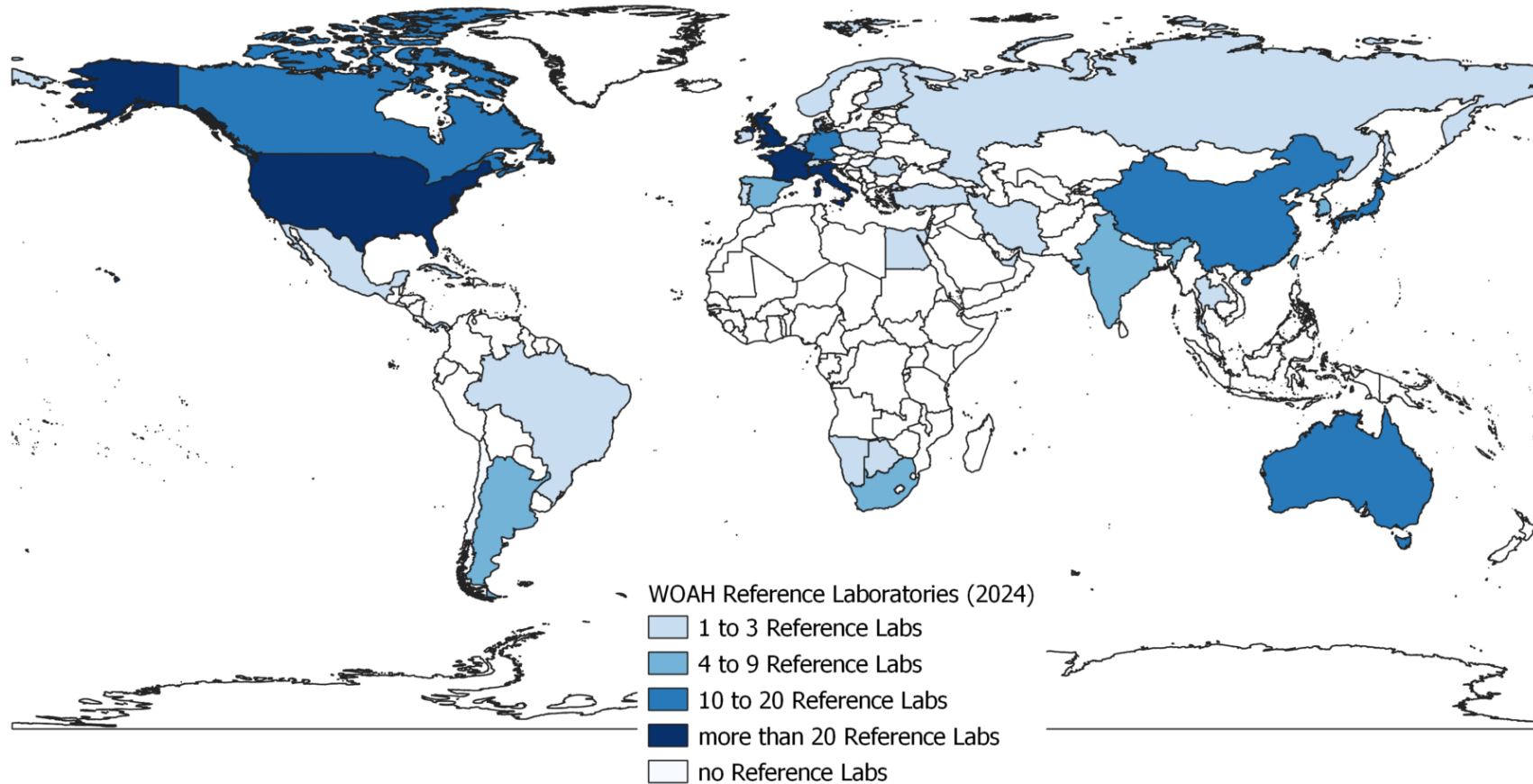
- Use and Promote diagnostic methods or vaccines as WOAH Standards
- Develop, standardize, and validate diagnostic and control procedure
- Provide scientific and technical advice on disease control measures
- Offer scientific and technical training for WOAH members
- Establish and maintain a network, organize regular inter-lab proficiency testing



1. THE INTRODUCTION OF WOAHP REFERENCE LABORATORIES

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World Distribution of WOAHP Reference Laboratories



<https://www.woah.org/en/what-we-offer/expertise-network/reference-laboratories/>



1. THE INTRODUCTION OF WOAH REFERENCE LABORATORIES

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WOAH Reference Laboratory for Bovine Tuberculosis



<https://bulletin.woah.org/?panorama=4-2-2-oie-ref-lab-tb-en>

- Argentina

Gerencia de Laboratorios (GELAB) del Servicio Nacional de Sanidad y Calidad Agroalimentaria (SENASA)

- France

Agence nationale de sécurité sanitaire de l'alimentation, de l'environnement et du travail (ANSES)

- United Kingdom

Animal and Plant Health Agency

Animal and Plant Health Agency

is an executive agency of the UK Department for Environment, Food & Rural Affairs.

is the main delivery partner in the eradication programme.



<https://aphascience.blog.gov.uk/2023/04/28/his-majesty-the-king-visits-apha-veybridge/>

- England is currently implementing a bovine TB eradication plan with the aim to be TB free by 2038
- Wales and Northern Ireland pursuing similar but country specific strategies
- Scotland is currently officially TB free.



2. PROCEDURES FOR DESIGNATION OF WOAHA REFERENCE LABORATORIES

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Procedures for Designation

1. Submission of an application
2. Preliminary screening of application
3. Evaluation by the relevant WOAHA Specialist Commissions
4. Endorsement by the WOAHA Council
5. Communication on the outcome of the evaluation with the applicant laboratory
6. Designation of WOAHA Reference Laboratories by the Assembly

- The WOAHA Laboratory Twinning Programme

WOAHA Reference Laboratories and Collaborating Centres (as “parent” institutes) to assist “candidate” institutes wishing to improve their capacity and scientific expertise.

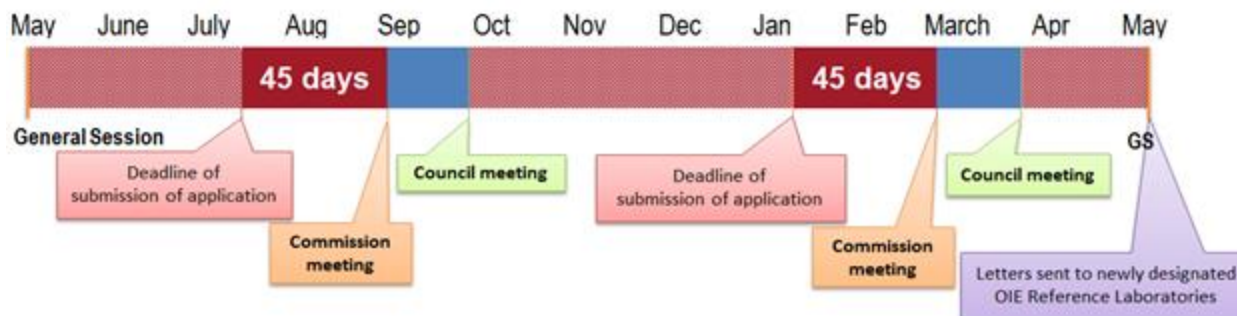
Projects ongoing

Lumpy Skin Disease: South Africa – China P.R. (2023-)

Bovine TB: UK – China P.R. (2023-)

African Swine Fever: UK – Philippines (2021-)

Brucellosis: China P.R. – Pakistan (2022-)



<https://www.woah.org/en/what-we-offer/expertise-network/reference-laboratories/>



2. PROCEDURES FOR DESIGNATION OF WOAHA REFERENCE LABORATORIES

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Our Application Process



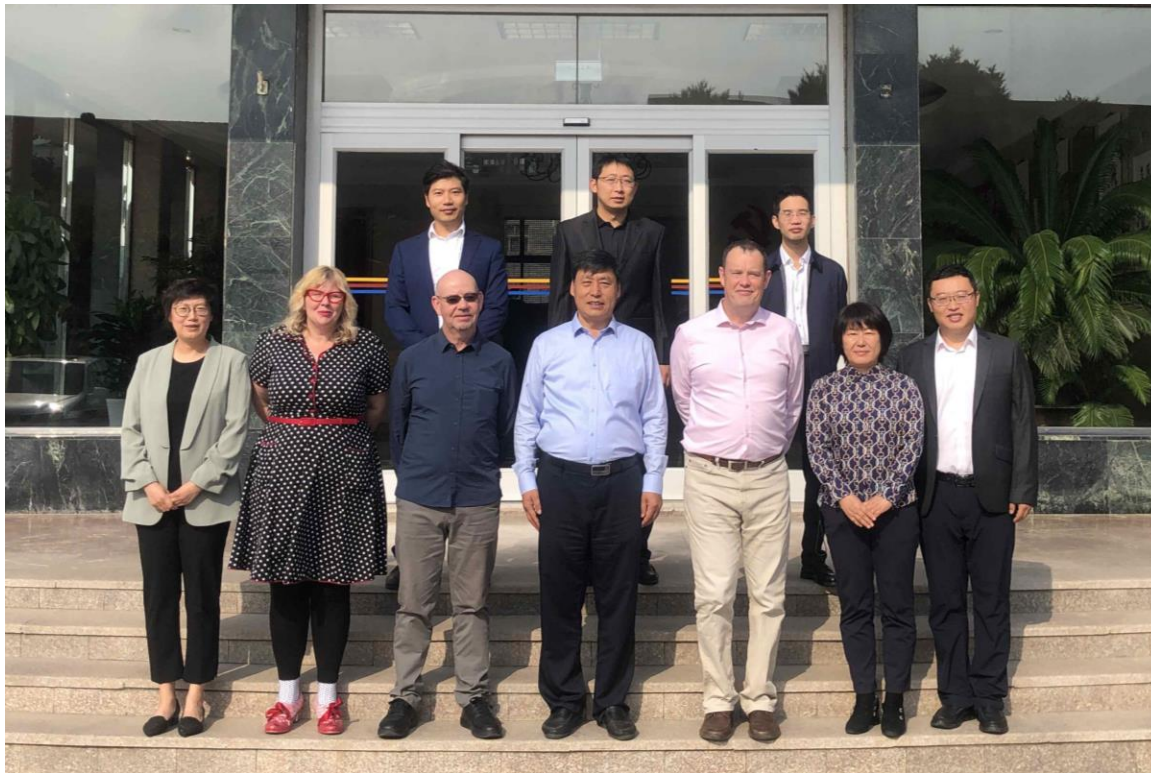


2. PROCEDURES FOR DESIGNATION OF WOAH REFERENCE LABORATORIES

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Aims of Our Twinning Programme

We reach the standard of WOAH Reference Laboratory by learning experience and knowledge of animal tuberculosis control from APHA.



- Capacity building in laboratory diagnostics and test validation
- Capacity building in laboratory safety and laboratory quality management
- Capacity building in policy and disease eradication/control programmes



2. PROCEDURES FOR DESIGNATION OF WOAHP REFERENCE LABORATORIES

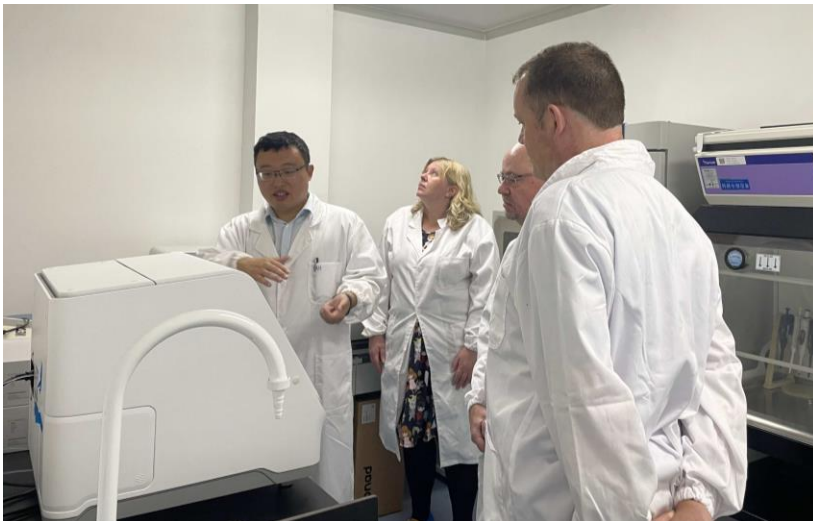
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First visit: APHA to CAHEC



Build capacity and CAHEC staff expertise in

- 1. Bovine TB laboratory diagnostics (including bovine TB culture, interferon gamma testing) and test validation.**
- 2. Laboratory safety and laboratory quality management relevant to bovine TB.**
- 3. Bovine TB policy and disease eradication/control programmes.**



Conclusion

Overall, based on observation and evidence gathered, APHA's assessment is that CAHEC has a strong foundations on which to base a future WOAHP reference laboratory application.

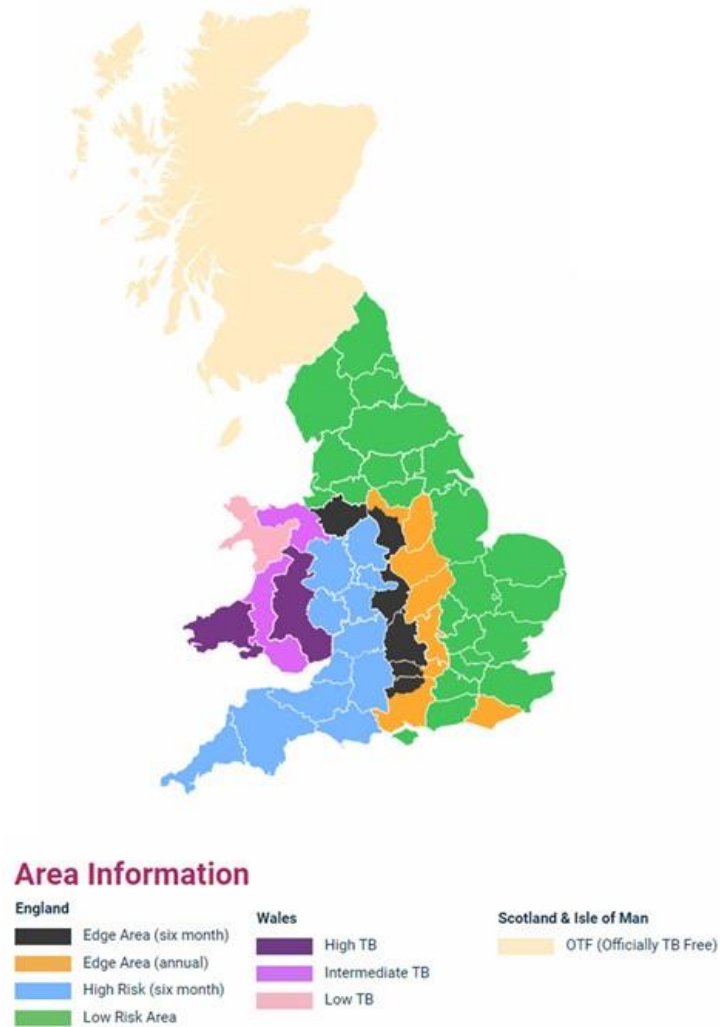


2. PROCEDURES FOR DESIGNATION OF WOAHA REFERENCE LABORATORIES

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Second visit: CAHEC to APHA

We just visited to APHA laboratories at **Starcross** (High Risk Area in England) and **Carmarthen** (Wales) to observe bTB testing operations including culture, PCR, interferon gamma and serology.

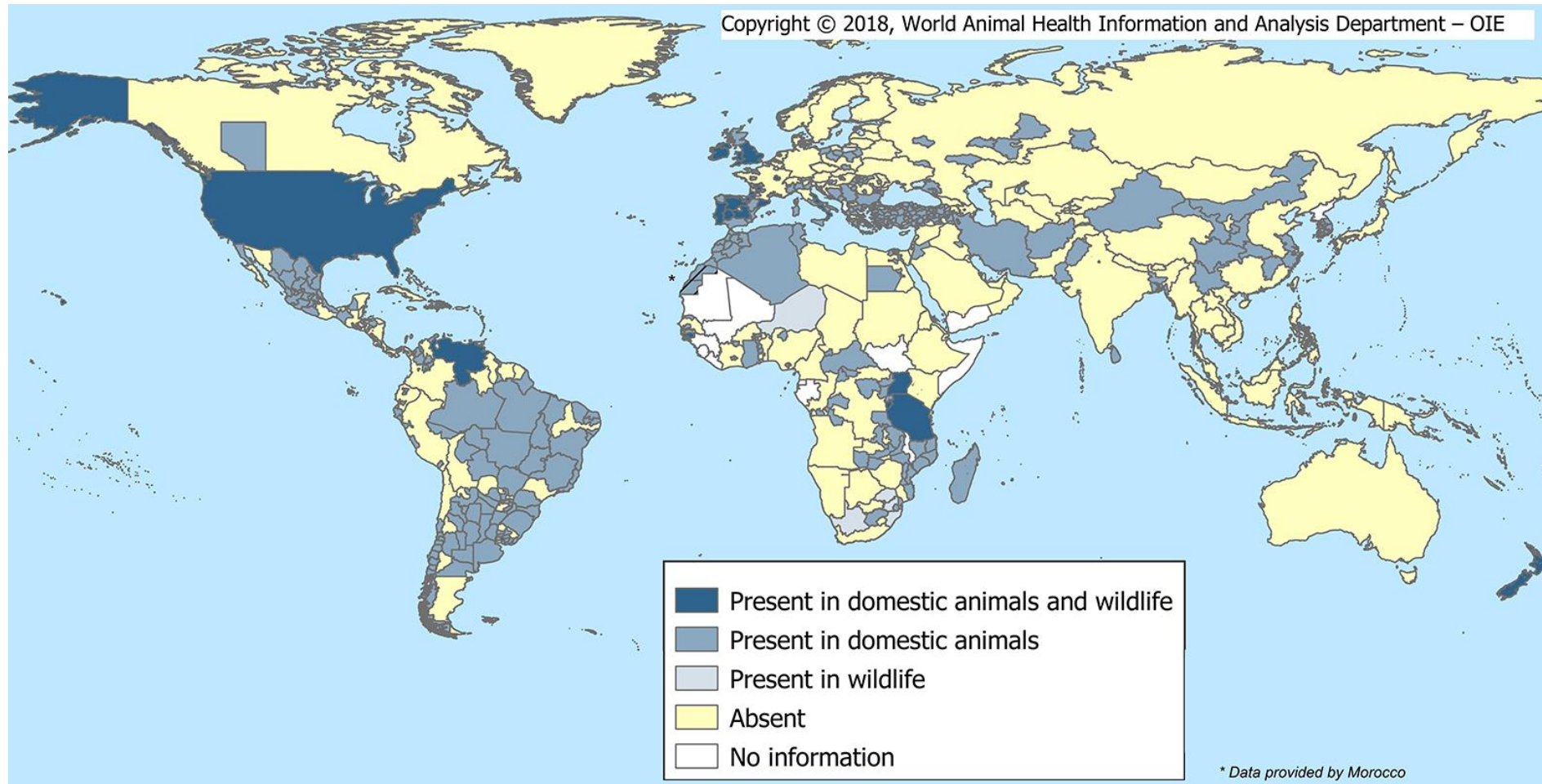




3. BENEFITS OF A WOAH REFERENCE LABORATORY

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Background of Bovine TB in the Asia-Pacific Region





3. BENEFITS OF A WOA H REFERENCE LABORATORY

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Benefits for China

In the process of becoming a WOA H reference laboratory ,

1. Develop diagnostic methods and investigation procedures that are more suited to the epidemic situation in China.
2. Establish proper handling and compensation mechanisms for positive animals and explore the possibility of reusing them.
3. Investigate the prevalence of the disease in wildlife and analyze the risks to livestock and humans.
4. Explore the feasibility and effectiveness of vaccine prevention and control.
5. Gradually achieve effective control and elimination of bovine tuberculosis, summarizing cost-effective prevention and control experiences.



Benefits for Asia Pacific Region

1. Develop and promote effective diagnostic methods.
2. Distribute reference materials for diagnosis.
3. Help member countries exchange experiences, enhance testing capabilities, and strengthen laboratory construction through organizing training sessions, conferences, and outbound exchanges.
4. Promote effective control programs.

Ultimately, we aim to achieve effective control of bovine tuberculosis in the Asia-Pacific region.





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Thank you!

Liu, Mengda

2024.9.26

Qingdao, China

