

Presentation Title: **Challenges and Opportunities for Brucellosis Surveillance and Control**

Country: Bhutan

Mr. Karma Tsheten

Sr. Lab Technician

National Centre for Animal Health

WOAH Regional Training Workshop on Brucellosis Diagnosis
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Prevalence of 2% as per the national survey conducted in 2017

No vaccination: low efficacy and risk associated

“Test and Cull” strategy targeting elimination



Bovines



Wildlife (Takin)



Swine



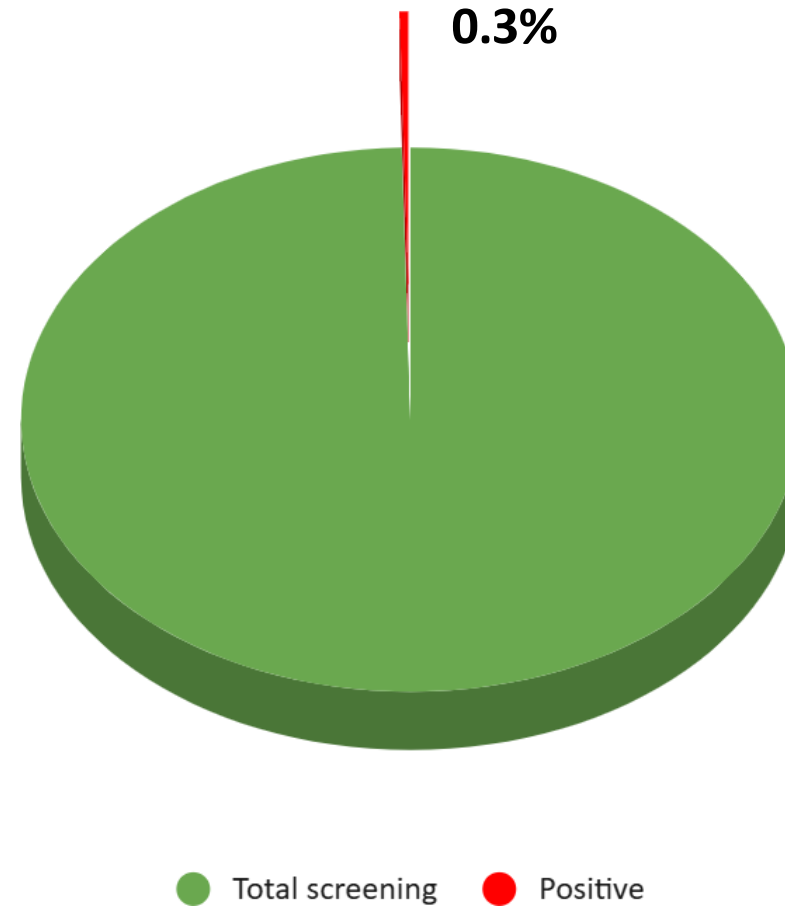
***Bhutan's national goal of eliminating
bovine brucellosis by 2029
(Department of Livestock's mission)***



Testing Result 2024-2025

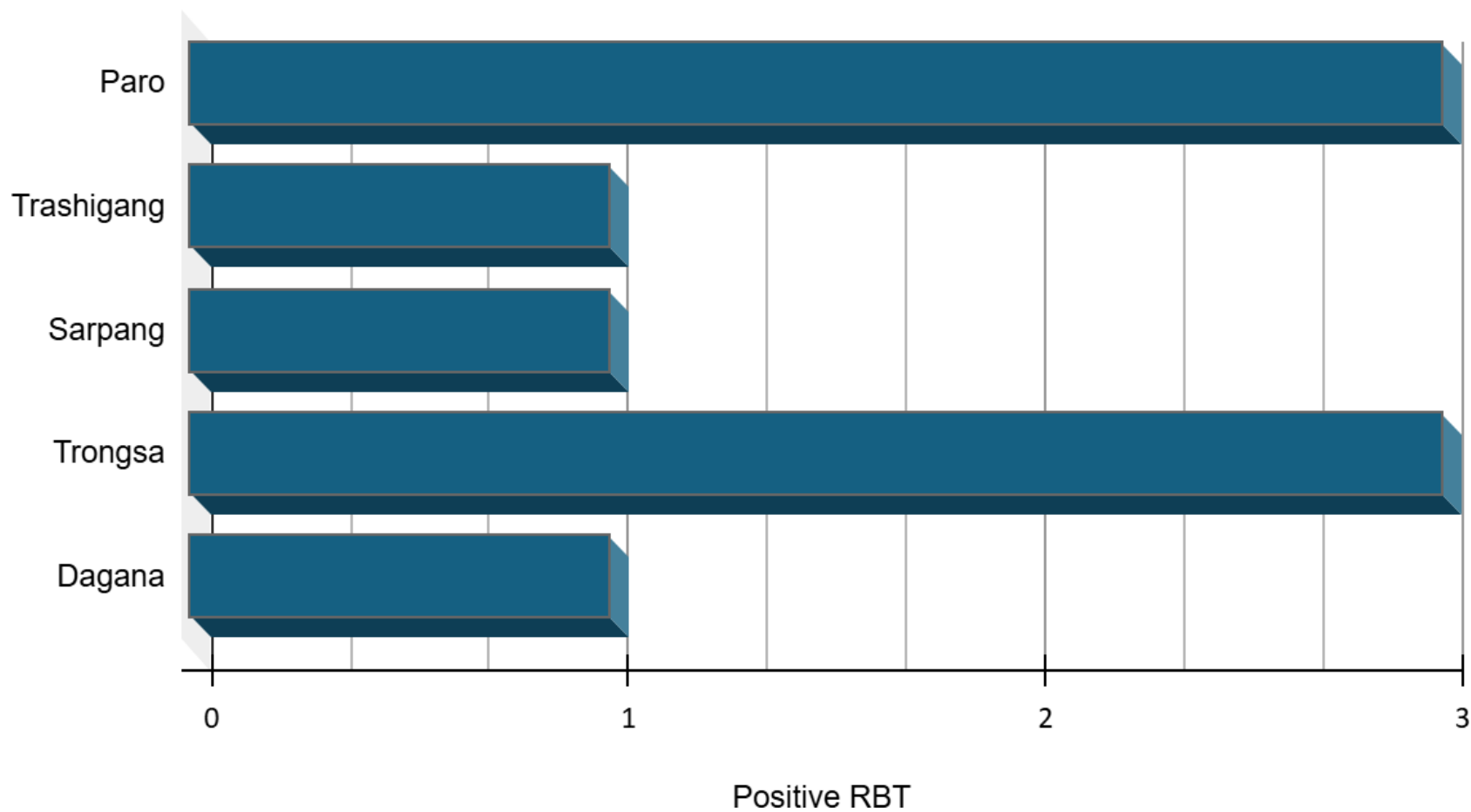
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Total Tested Vs Positive for RBT





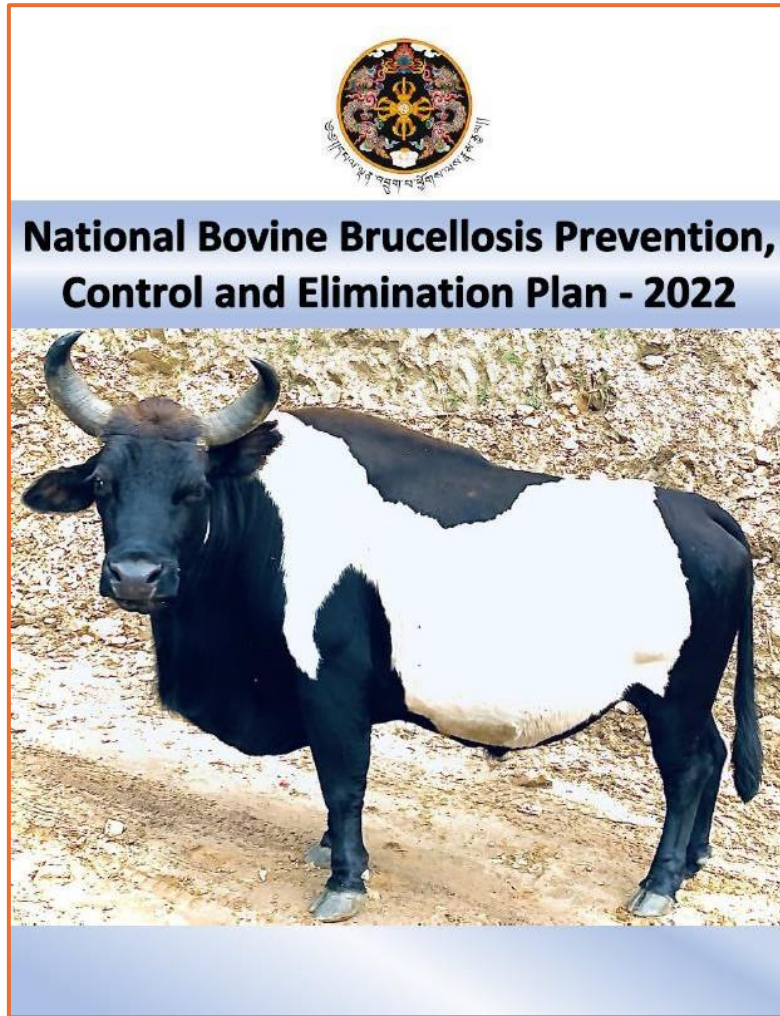
RBT Positive District



Test Available	Detection	Accessibility
ELISA kits	Antibody	NVL (NCAH), Regional
RBT	Antibody	All Districts



- *Passive Surveillance (RBT Screening from movement permit)*
- *Active Surveillance (Samples in Repository)*
- *Nation wide elimination*



Prevention strategy

Regulated import of animals

Inter/Intra-Dzongkhag movement of animals: movement permit (health and vaccination certificate)

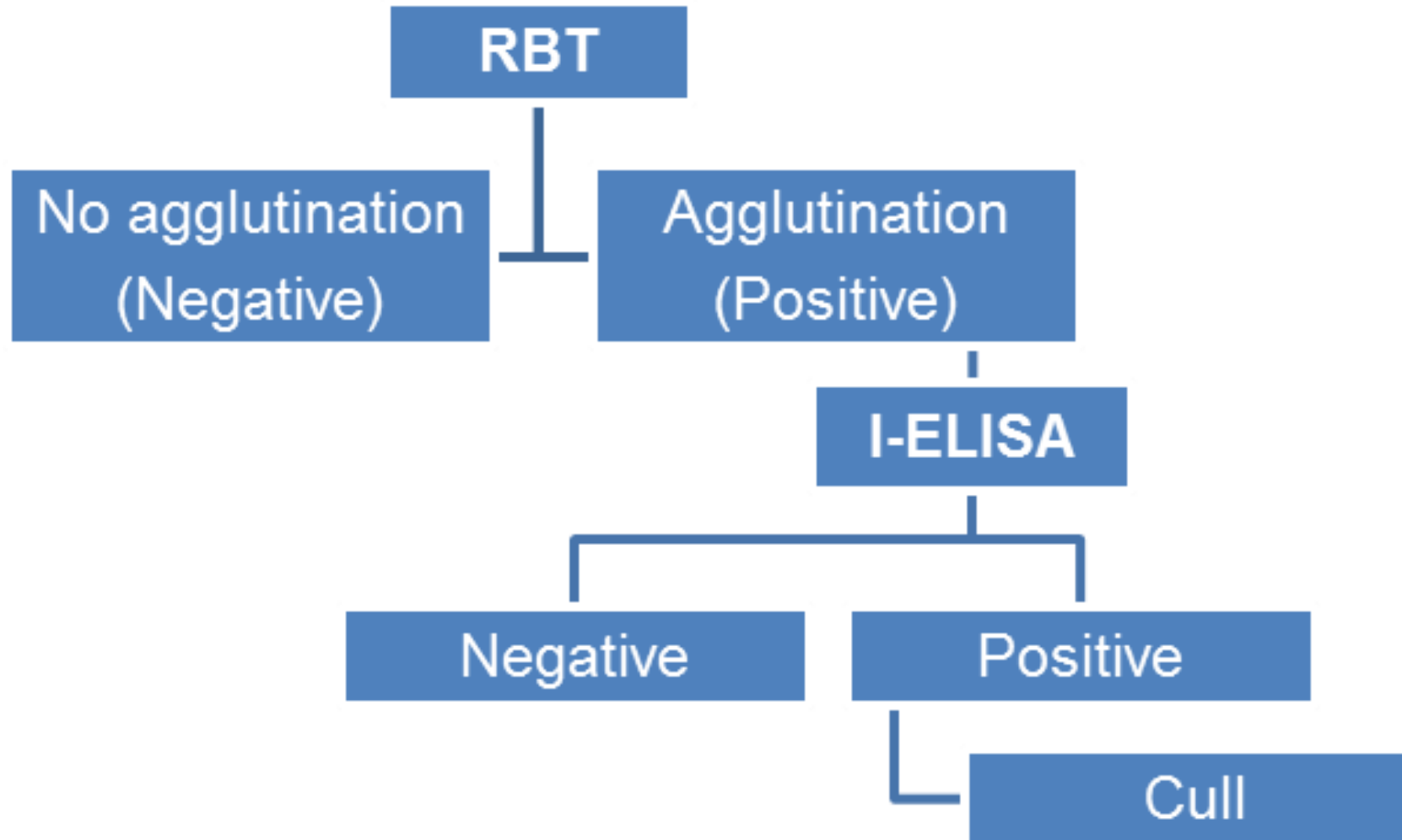
Outbreak declaration

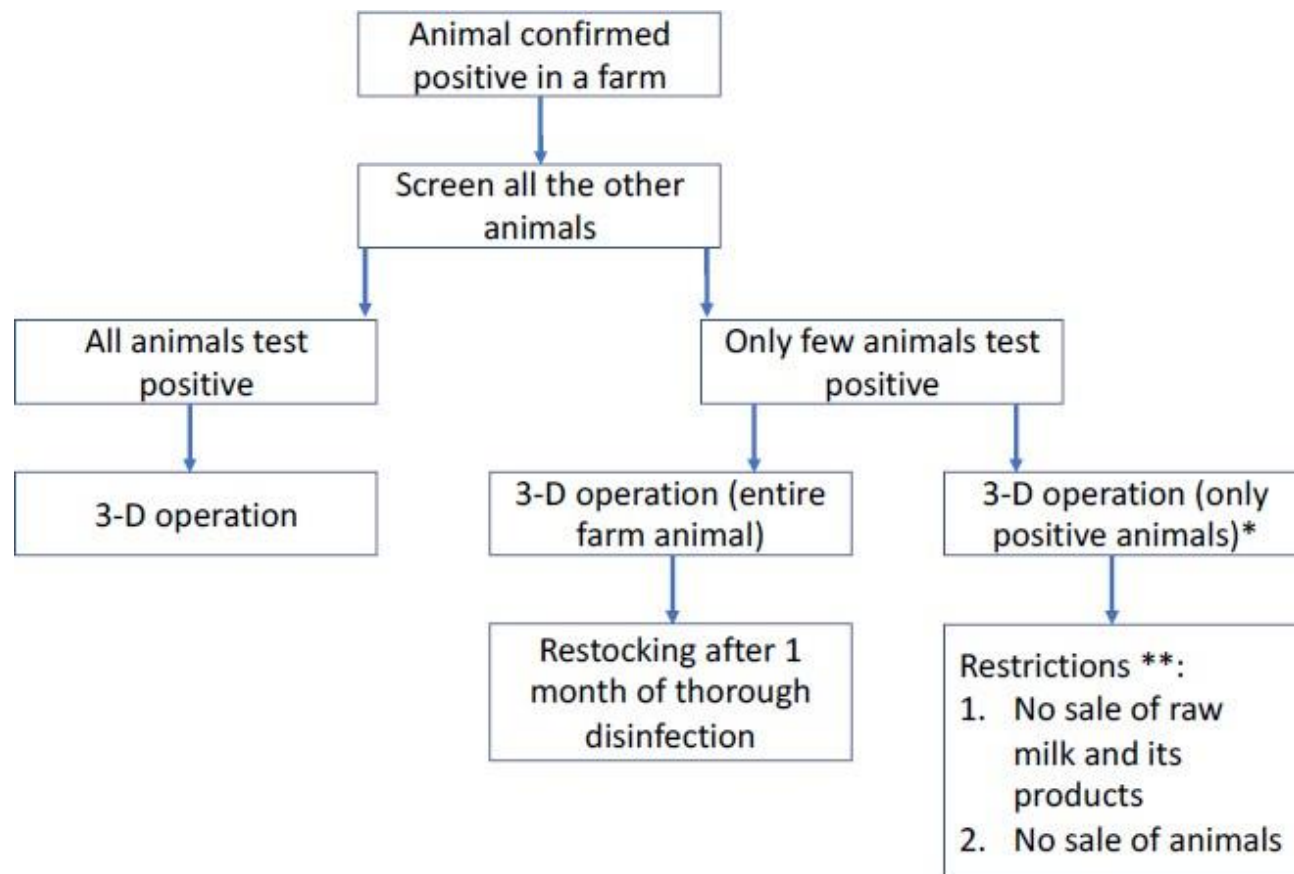
Declaration and impose ban on movement of animals and animal products from the infected farms and other applicable farms based on risk assessment



Outbreak Response Strategy

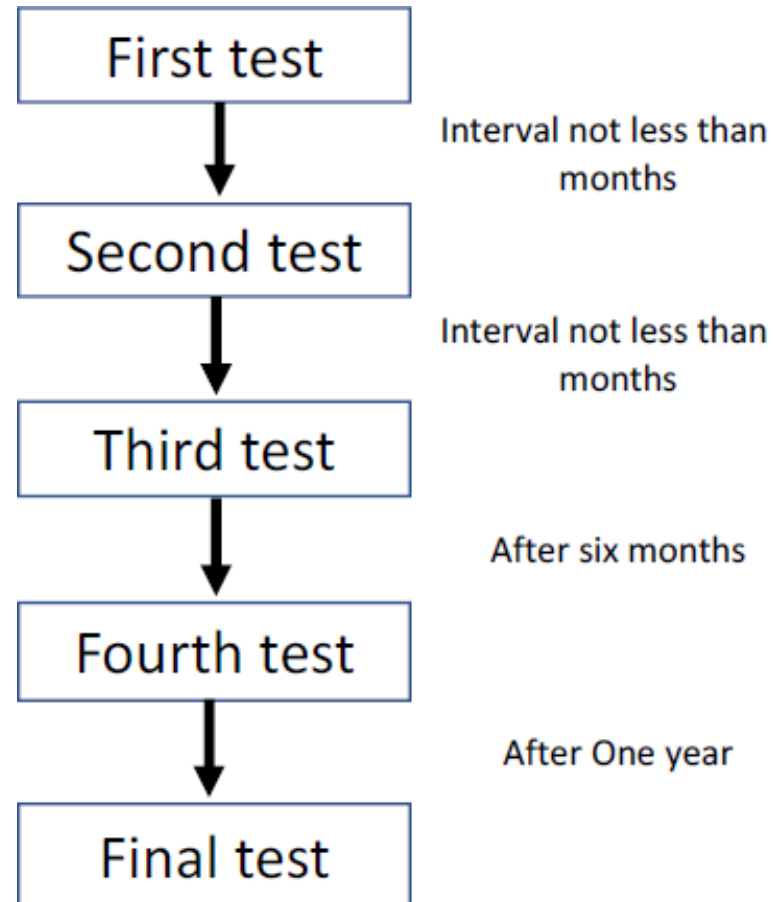
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*Rest of the animals should be screened as shown in figure 2 to declare farm clean of brucella infection

**Farmers can sell milk after pasteurization to company of processing plants that pasteurizes milk





Key challenges/issues

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- *Human Resource*
- *Funding*
- *Test Validation*
- *CFT Establishment*
- *Active (Nation wide) and Passive Surveillance (movement permit)*



- Strengthen our national laboratory
- Contribute to regional and global disease surveillance systems
- CFT diagnosis Twinning process with NIAH, Bangkok
- RBT Sample repository
- RBT reagent purchased and distributed all across the country
- Reviewed SoPs
- PT enrolled and conducted with NIAH, Bangkok for 6 labs in the country



Thank you!

Regional Representation for Asia and the Pacific
Food Science Building 5F - The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Tokyo, 113-8657
JAPAN

rr.asia-pacific@woah.org
rr-asia.woah.org

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