

Brucellosis in Indonesia : Challenges and Opportunities for Brucellosis Diagnosis, Surveillance and Control

Indonesia

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2nd WOAHP Regional Training Workshop on Brucellosis
Diagnosis

Beijing, P.R. China, 26 - 29 May 2026



Follow-ups done since last training in August 2025*

❑ *National Sharing session*

❑ *Conduct* on National Brucellosis proficiency testing as Brucellosis national reference laboratory to and part of ISO/ IEC 17043 activities for data analysis

The poster is for a 'SHARING SESSION' organized by Balai Besar Veteriner Maros. It is part of the 'WOAH Regional Training on Brucellosis Diagnosis'. The poster features three speakers: drh. Wiwik Dariani, M.Sc. (Presenter), drh. Didik Tulus Subekti, M.Kes. (Pembahas), and Dr. drh. Muflihanah, M.Si. (Moderator). It also includes the date and time (22 Agt 2025, 09.00 WITA) and a QR code for registration with the URL <https://s.id/SSBBVM2208>. The logo of Balai Besar Veteriner Maros is at the top, and the logo of bvetmaros is at the bottom.

BALAI BESAR VETERINER MAROS
MENGHADIRKAN

SHARING SESSION

WOAH Regional Training on Brucellosis Diagnosis

Presenter

Pembahas

Moderator

drh. Wiwik Dariani, M.Sc.
Katimja Informasi Veteriner
Balai Besar Veteriner Maros

drh. Didik Tulus Subekti, M.Kes.
Peneliti Pusat Riset Biomedis
Badan Riset dan Inovasi Nasional

Dr. drh. Muflihanah, M.Si.
Kapak Substansi Pelayanan Veteriner
Balai Besar Veteriner Maros

Tanggal/Waktu

22 Agt 2025
09.00 WITA

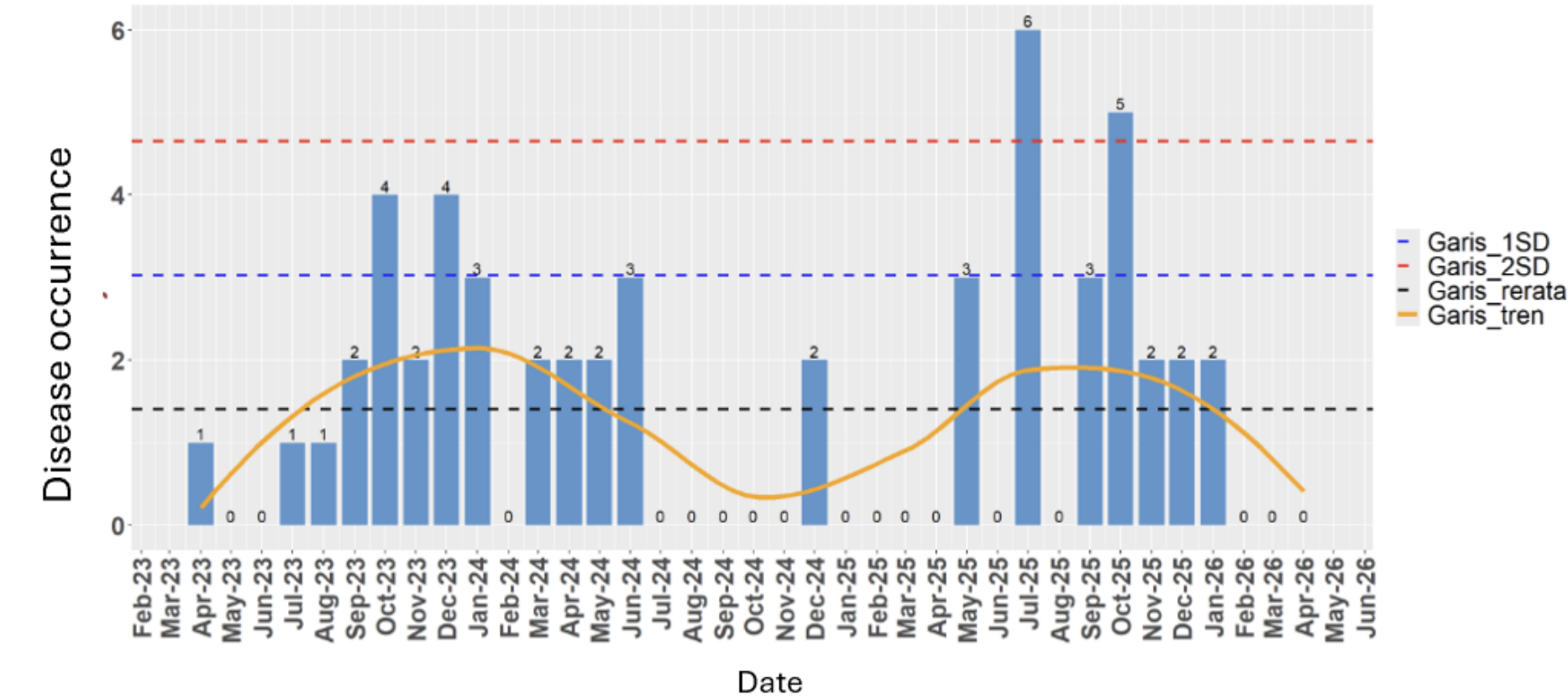
Pendaftaran

<https://s.id/SSBBVM2208>

bvetmaros

Current disease situation

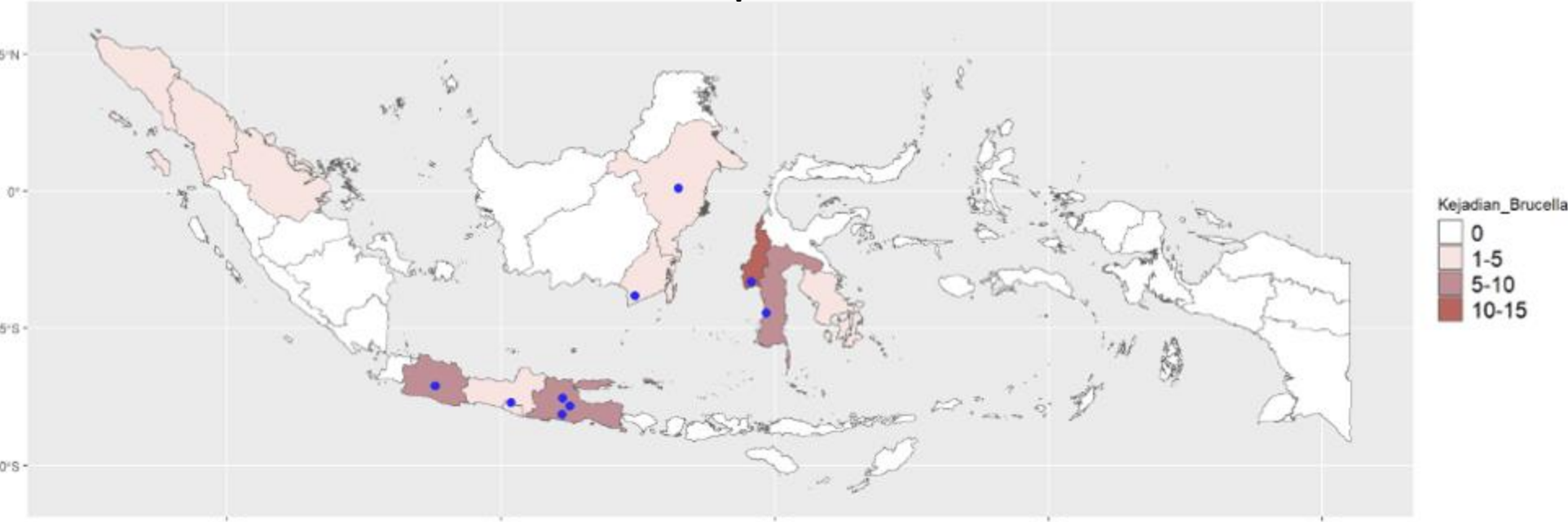
National Temporal Distribution of Brucellosis from April 2023 to April 2026



Provinces and Districts Reporting Brucellosis from April 2025 to April 2026

Province	District	Village s	Occurance	Cases
Di Yogyakarta	Sleman	2	2	2
	Bandung	3	3	9
Jawa Timur	Blitar,Jombang,Kot a Batu	5	5	23
	Tanah Laut	1	1	7
	Kutai Kartanegara	1	1	1
Kalimantan Timur	Polewali Mandar	6	7	12
	Barru	4	4	7
Sulawesi Selatan				

National Spatial Distribution of Brucellosis from April 2023 to April 2026



Current disease situation

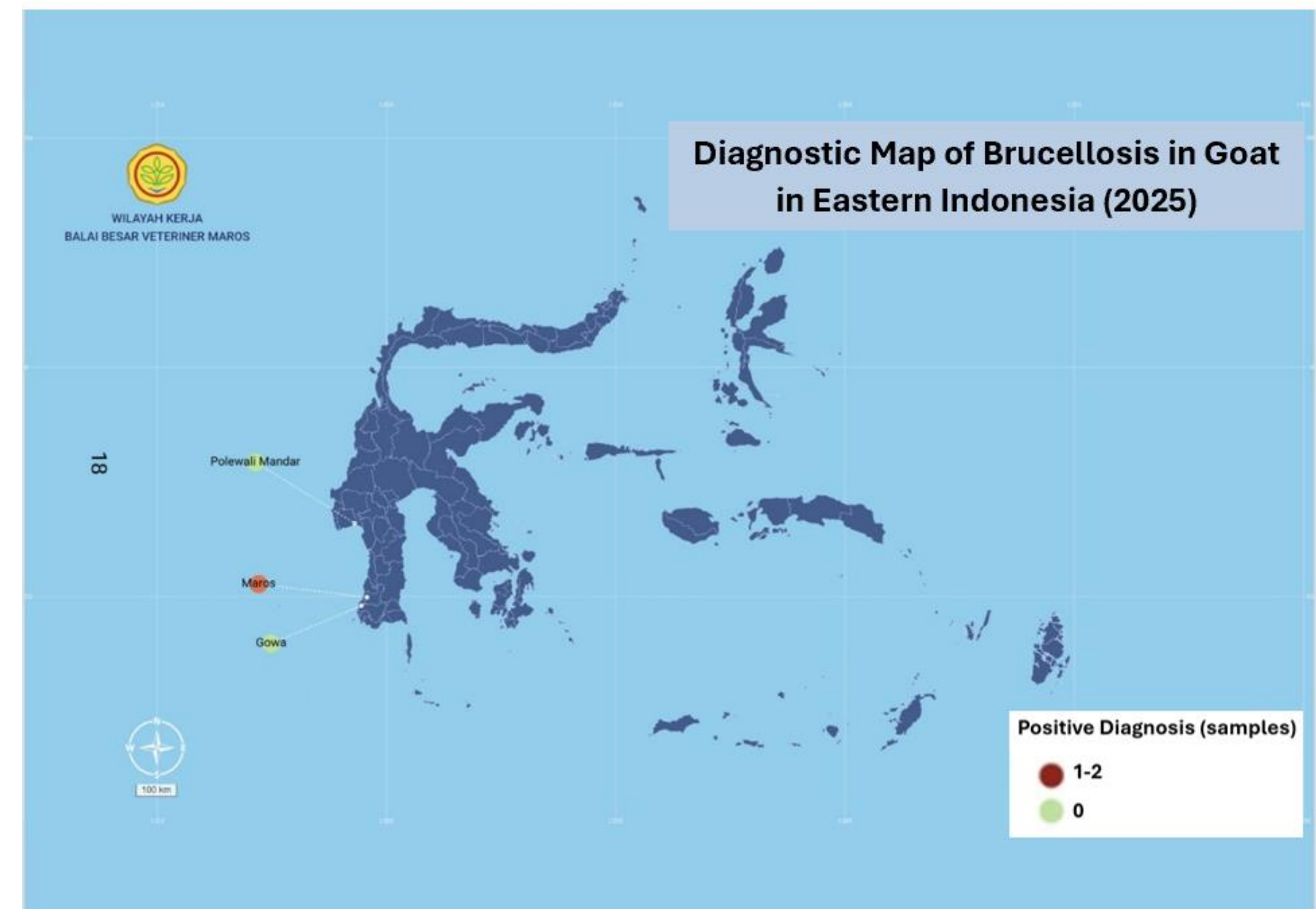
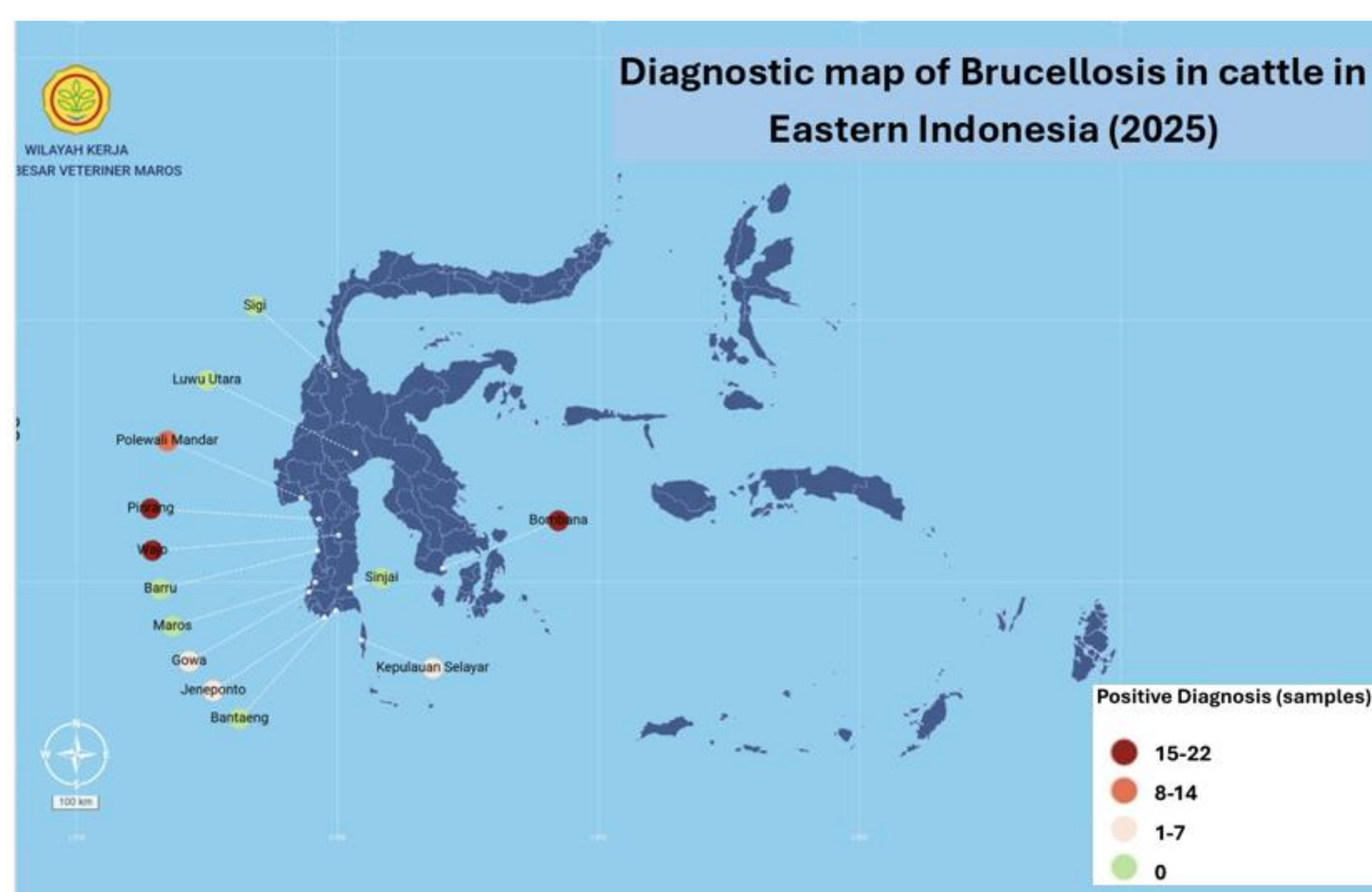
Brucellosis-free region

Bali island
Lombok island (West Nusa Tenggara Province)
Sumbawa island (West Nusa Tenggara Province)
Kalimantan island
Sumatera Barat, Riau, Jambi and Kepulauan Riau
Lampung, Bengkulu, Sumatera Selatan dan Kepulauan Bangka Belitung
Sumba island (East Nusa Tenggara Province)
Madura island (East Jawa Province)
North Sumatera Province
BBPTU-HPT Baturraden



- ❑ Current situation of Brucellosis in Indonesia as reported in iSIKHNAS (cattle and goat, 2025)
- ❑ Estimated prevalence of brucellosis large and small ruminants on the 2024 meta-analysis study by Ridlo et al. (2024) was 3.25%
- ❑ The bacterial species that has been identified is *Brucella abortus*.
- ❑ Economic losses had been estimated by Basri et al. (2017) in large ruminants in Indonesia reached IDR 3.6 trillion/year (1.8% of the total livestock asset value in Indonesia)

Current disease situation

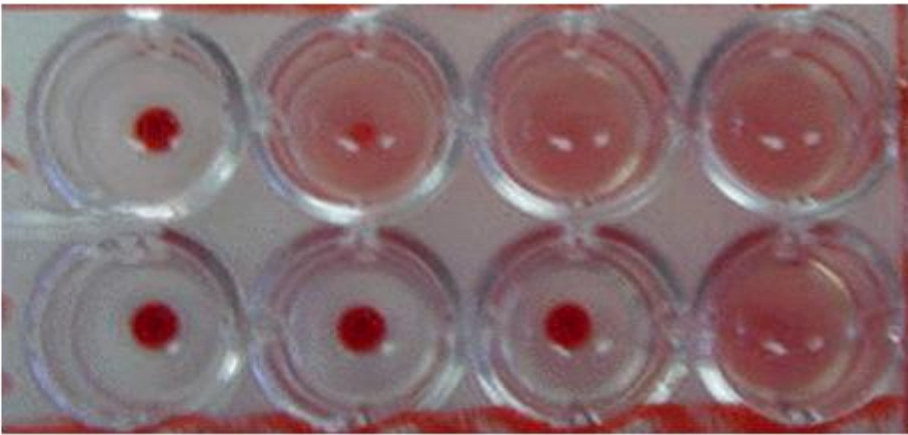


Disease Diagnostics

Serological Test :

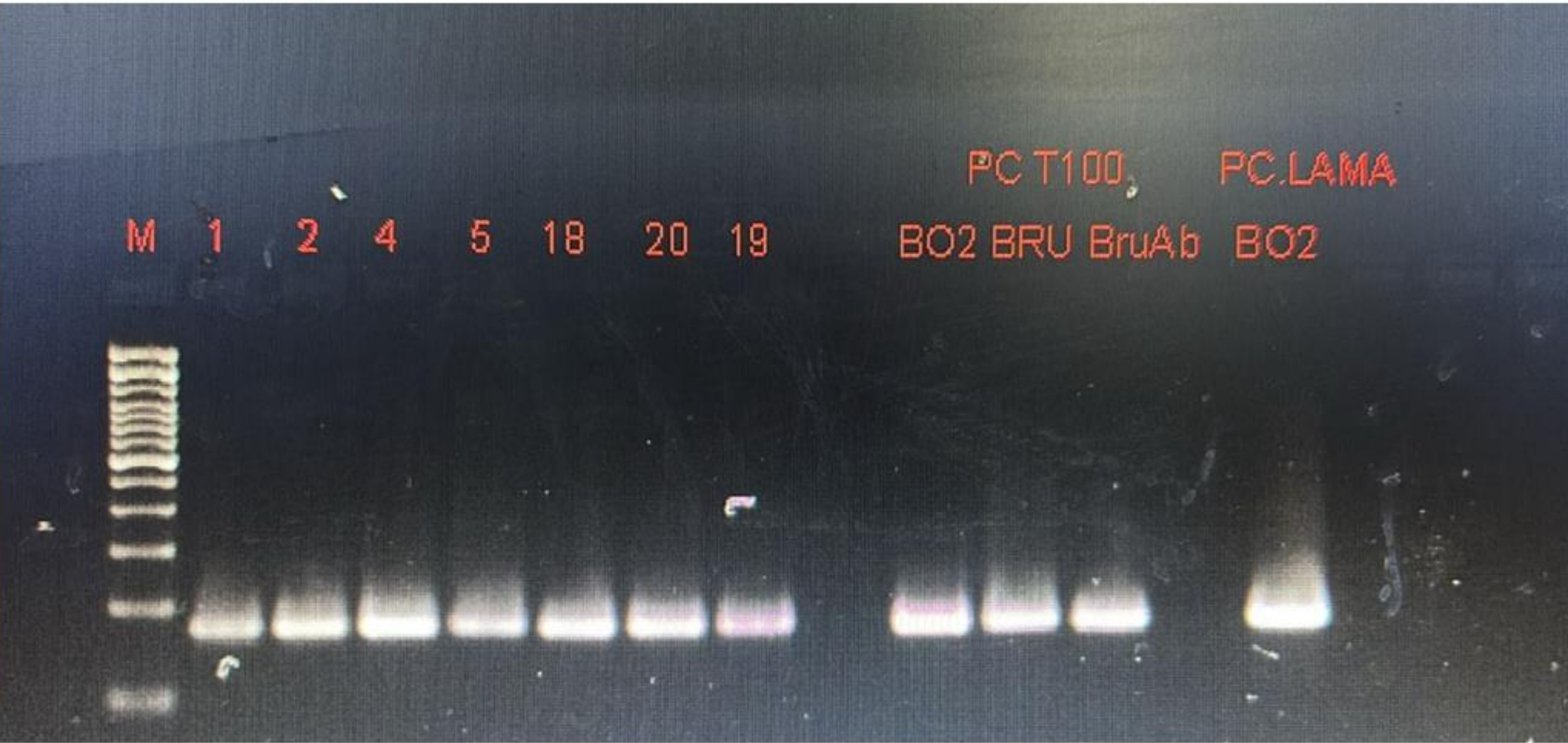
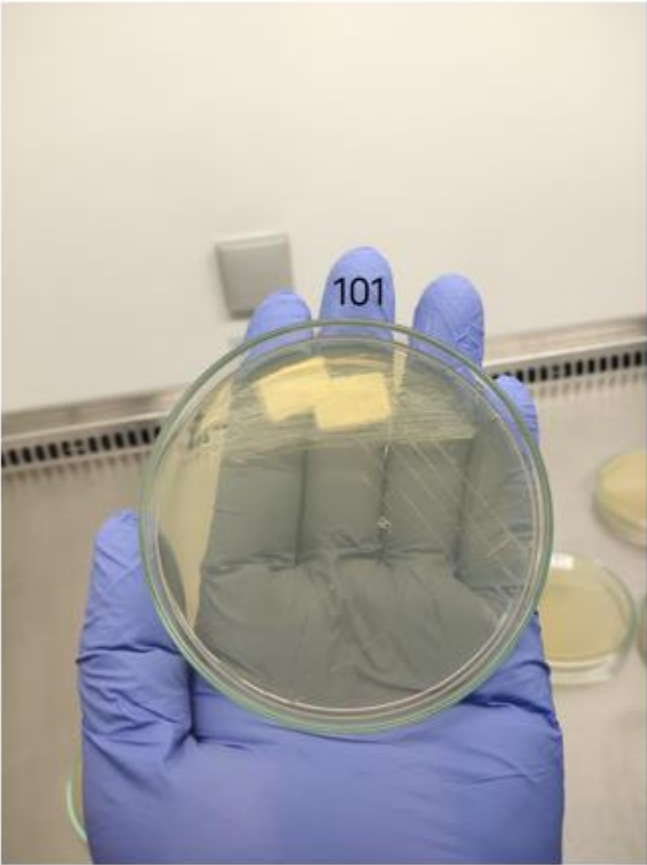
- RBT
- CFT
- iElisa

No	Interpretation	Description
a.		Value 0 (negative), no agglutination
b.		Value 1+, mild agglutination
c.		Value 2+, Moderate agglutination
d.		Value 3+, Complete agglutination



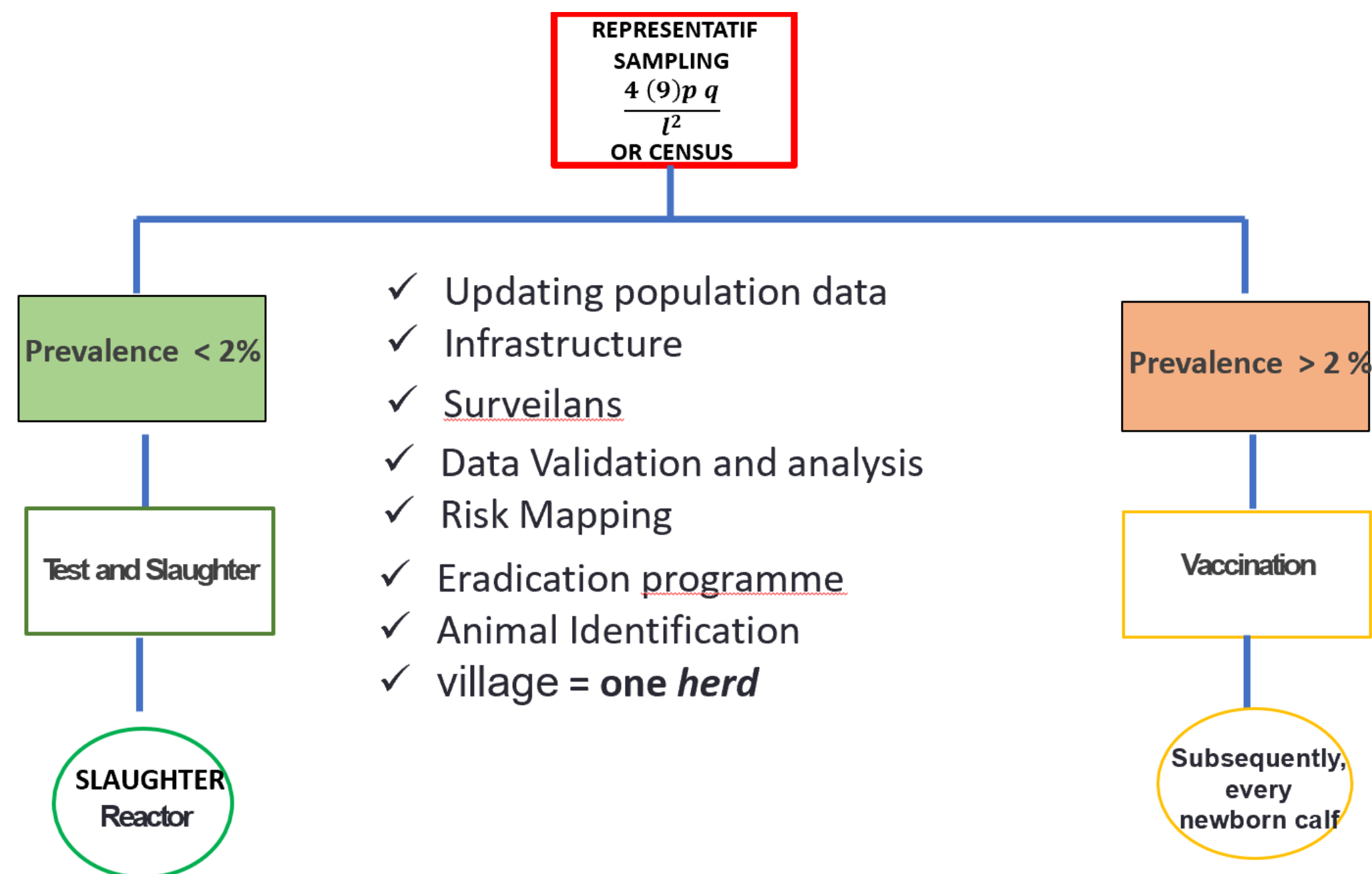
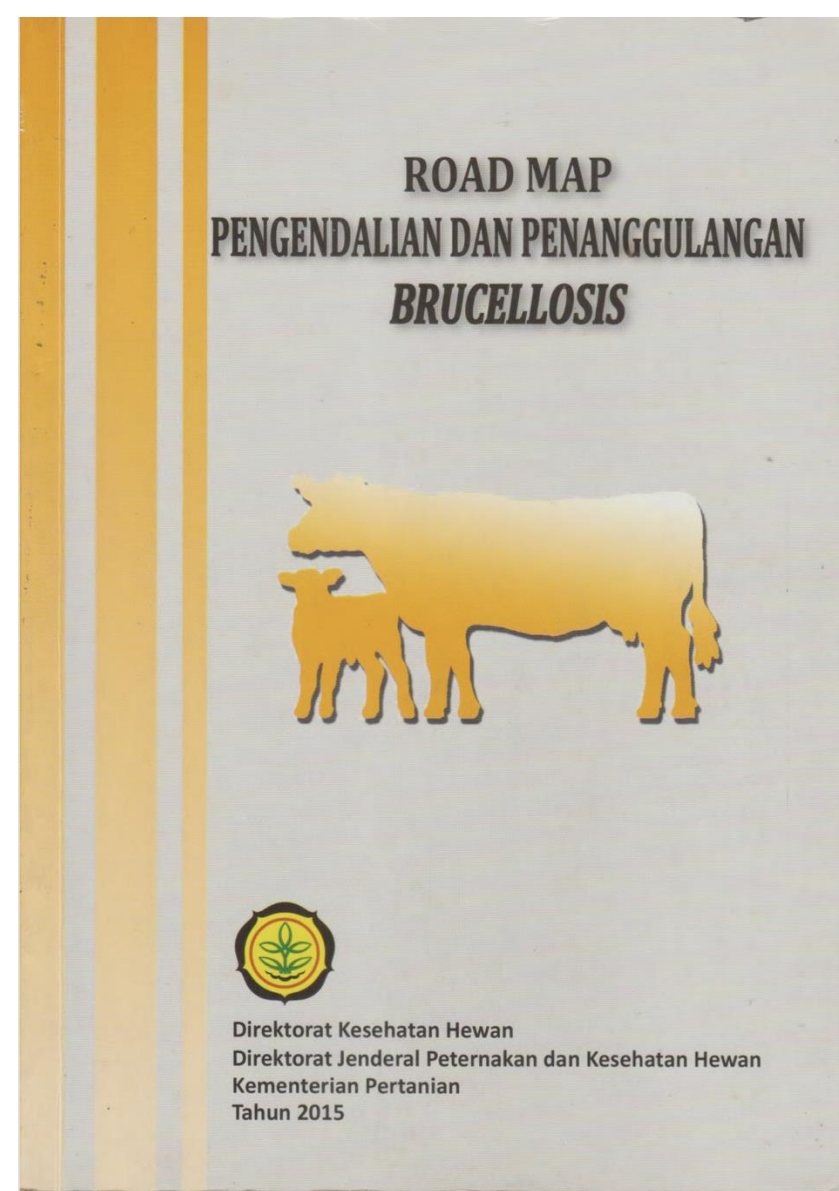
Identification of the agent

- Culture and identification of *Brucella abortus*
- Conventional PCR *Brucella abortus* (Gen eryl, BCSP31)

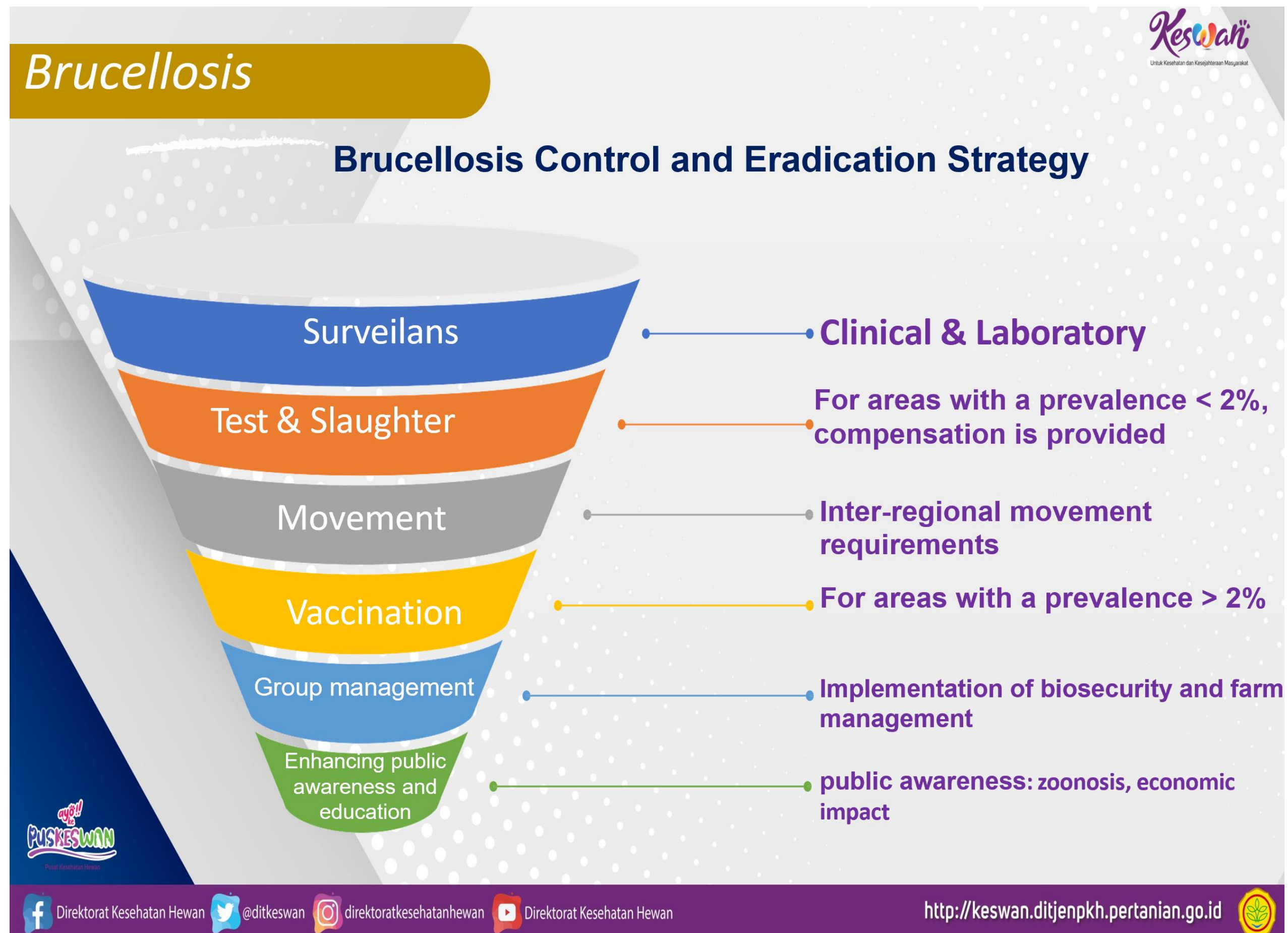


Disease Surveillance

1. Passive surveillance : reports of disease occurrence form field of animal health
2. Active surveillance : Structured disease survey method
 - ❑ Representative surveillance - to obtain baseline prevalence
 - ❑ Risk Base surveillance
3. Outbreak/ Case Investigation



Disease Prevention and Control or Preparedness Strategy



- 1.Changes in disease patterns due to shifting priorities**
- 2. Animal health policies and regulations**
- 3.Insufficient of funding and resources**
- 4.Low public awareness**
- 5. Limitations in vaccination programme**
- 6.Challenging geographical conditions**

- 1.Strengthening our reference laboratory
2. Developing proficiency testing programs for diverse testing methodologies
- 3.National harmonization of brucellosis diagnostic testing
- 4.Developing standard reference sera for National Quality Control (NQC).
- 5.Mapping the molecular epidemiology of brucellosis.
- 6.Establishing a laboratory twinning programme with a WOAHA Reference Laboratory.

Thank you!

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