Title of presentation

Chapter title

**Brucellosis:** 

## currentsituation

Fayçal Meziani Co-authors : Lina Awada & Paolo Tizzani World Organisation for Animal Health

Workshop on the Surveillance, Diagnosis, Control and Prevention of Brucellosis in Arab Countries

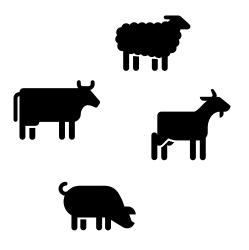


# INFORMATION GATHERED BY WOAH

Date

### **Brucellosis in the WOAH List of diseases**

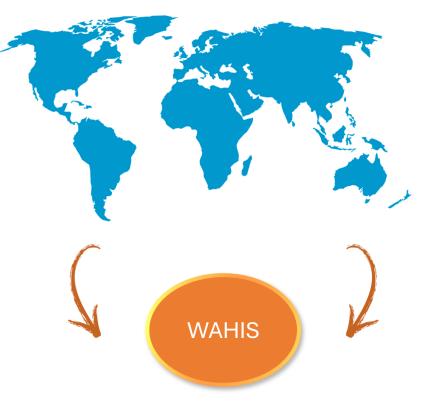
- WOAH conducts an annual prioritisation exercise with its Members to define a list of priority diseases (around 120 diseases in 2024).
- By becoming a Member of WOAH, countries formally undertake to share information on their animal health situation with regard to these diseases, in accordance with WOAH Standards and procedures.
- In 2024, there are **4 brucellosis on the WOAH List** of Diseases:
  - Infection with *Brucella abortus*
  - Infection with *Brucella melitensis*
  - Infection with Brucella suis
  - Ovine epididymitis (*Brucella ovis*)



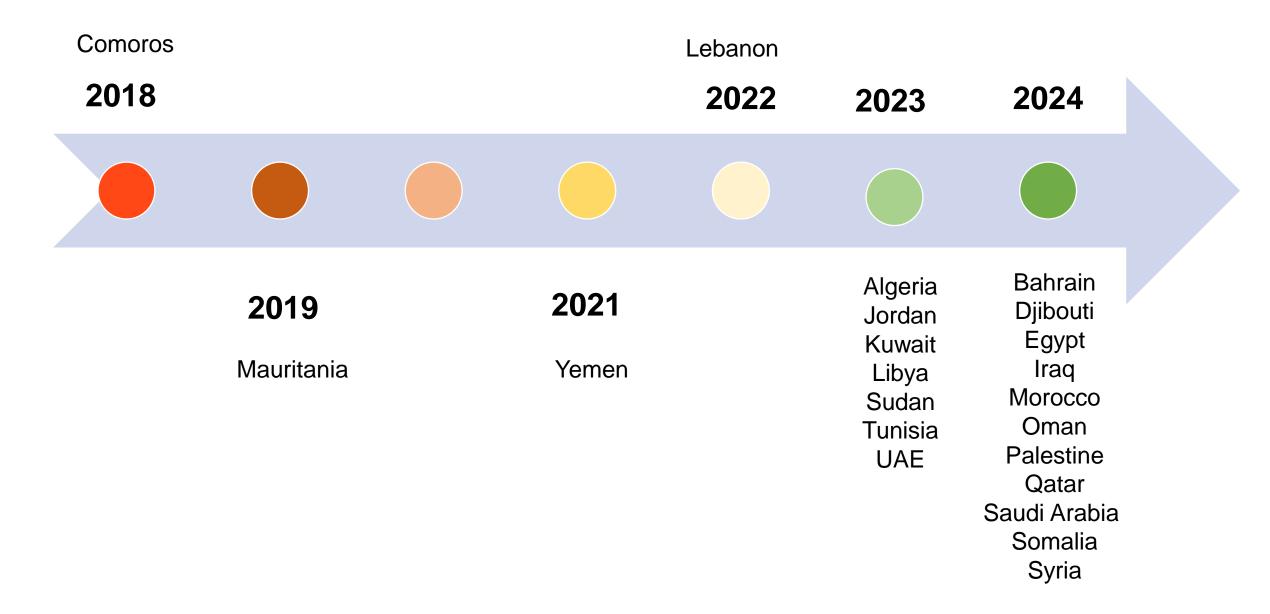
#### 100 Information sharing through WAHIS, for brucellosis

- Every six months : all Members are requested to share information on
  - **situation** in domestic animals and wildlife (presence/suspicion/absence/no information collected)
  - **Surveillance, preventive and control** measures applied among the list proposed by WOAH (by species)
  - For diseases present : summary of the **number of outbreaks, cases**, deaths, and other figures (option to disaggregate by province/month)
- Whenever Members face an exceptional epidemiological event (first occurrence, recurrence of the disease/strain, sudden and excepted change, unusual host)
  - Immediate notification through WAHIS within 24 hours
  - Weekly follow up reports until the situation is stabilised or resolved

#### **National authorities**



Most recent information received from the members of Arab League as of 30 October 2024



## DISEASE SITUATION REPORTED BY NATIONAL AUTHORITIES

Date

#### Interpretation of Disease occurrence codes as reported via WAHIS

**Disease present:** the disease was reported as present in the entire country for at least one semester within the covered period in either domestic or wild species

**Disease limited to zones:** the disease was reported as present but limited to one or more zones for at least one semester within the covered period in either domestic or wild species

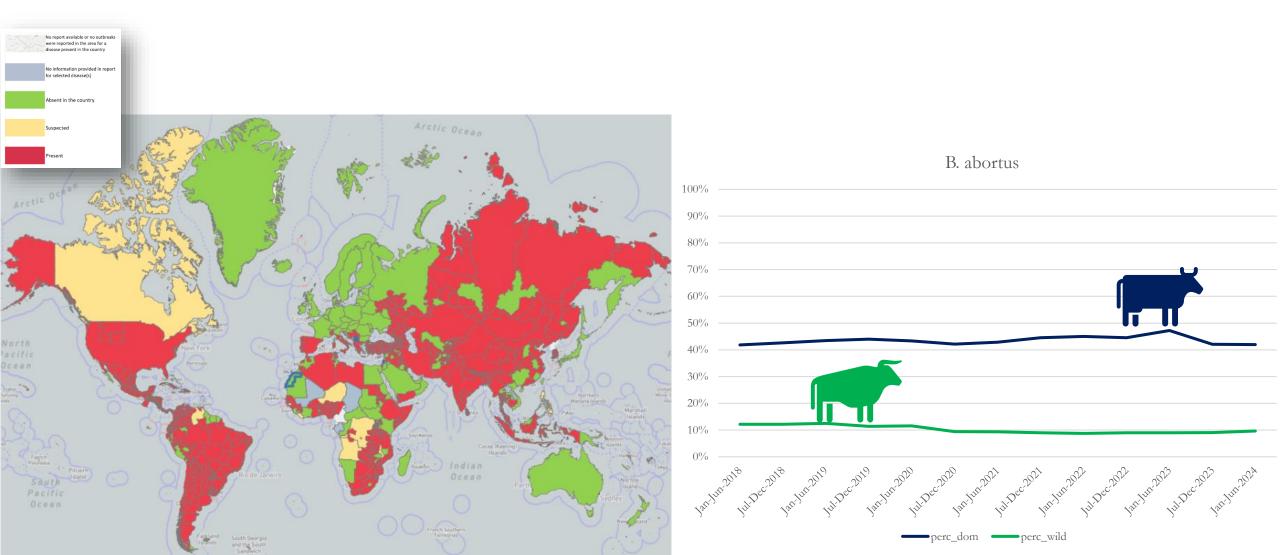
**Disease suspected:** the presence of the disease was suspected but not confirmed

**Disease absent:** the disease was absent in the country during the covered period

**No information:** No information is available about the presence or the absent of the disease during the covered period in both domestic and wild species

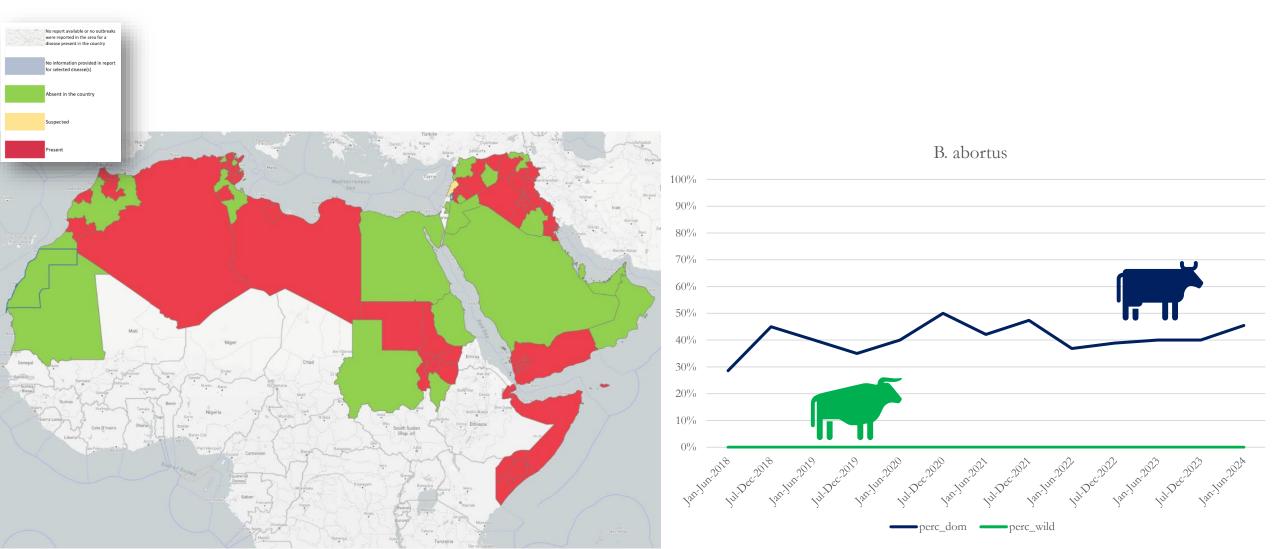
#### **Global distribution 2018 – 2024 – B. abortus**

On average reported present/suspected in **44%** of the countries / territories in domestic animals and **10%** in wildlife **Stable trend** in countries / territories reporting the disease present



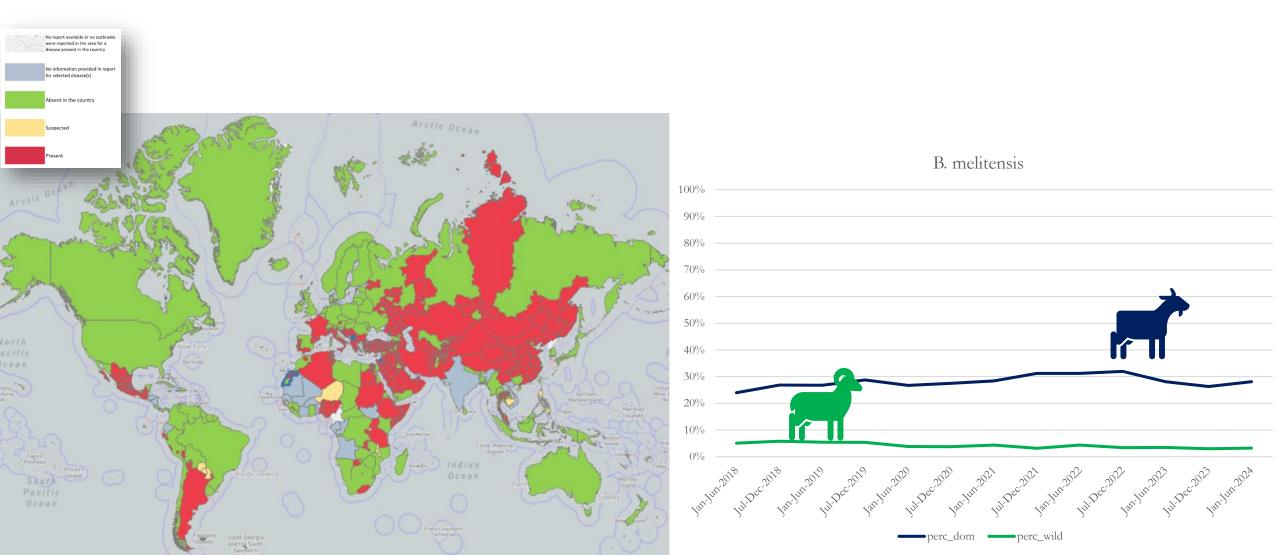
#### **Regional distribution 2018 – 2024 – B. abortus**

Present / suspected at least once in 12/22 Members (**12** in domestic animals – **0** in wildlife) On average reported present/suspected in 41% of the Members in domestic animals and 0% in wildlife Stable trend in Members reporting the disease present



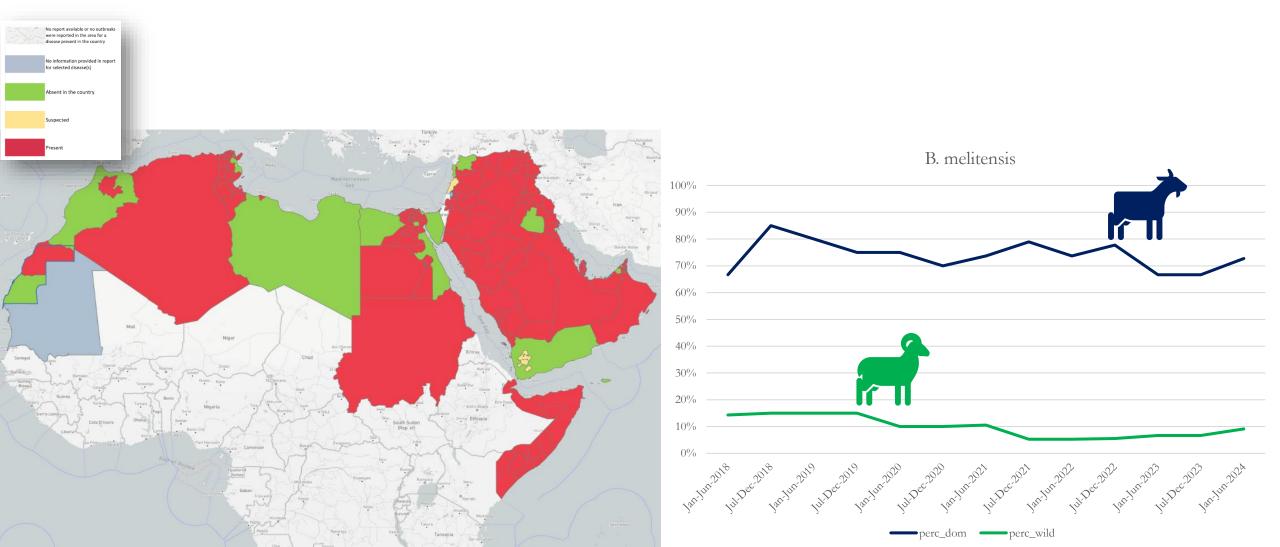
#### **Global distribution 2018 – 2024 – B. melitensis**

On average reported present/suspected in **28%** of the countries / territories in domestic animals and **4%** in wildlife **Stable trend** in countries / territories reporting the disease present



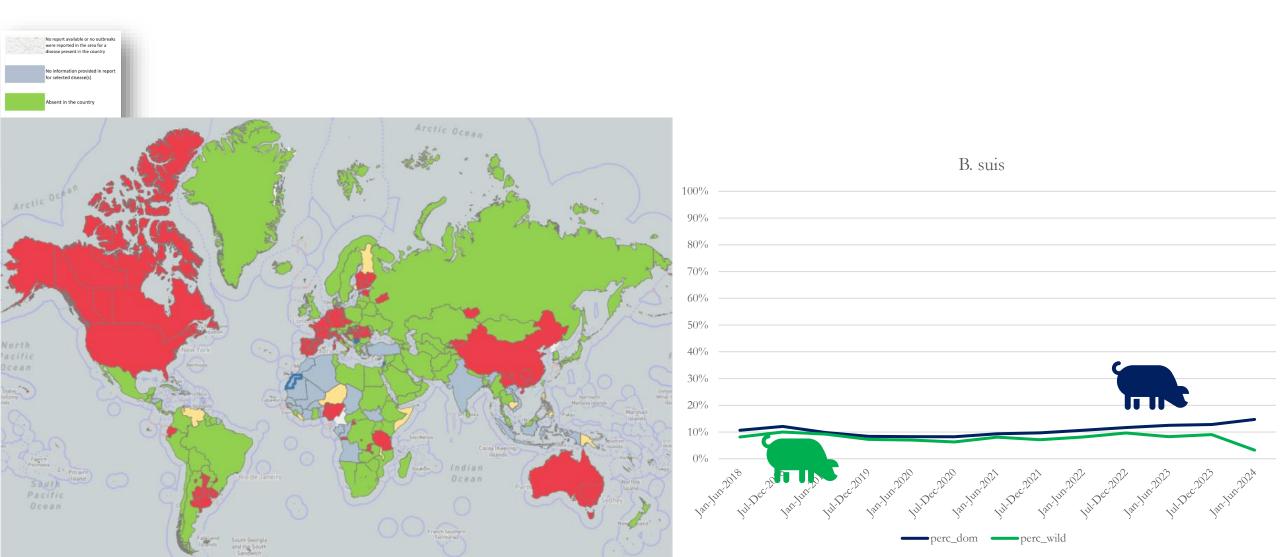
#### 100 Regional distribution 2018 – 2024 – B. melitensis

Present at least once in 19/22 Members (**18** in domestic animals – **3** in wildlife) On average reported present in 74% of the Members in domestic animals and 10% in wildlife Slighly decreasing trends in Members reporting the disease present in domestic animals and in wildlife



#### **Global distribution 2018 – 2024 – B. suis**

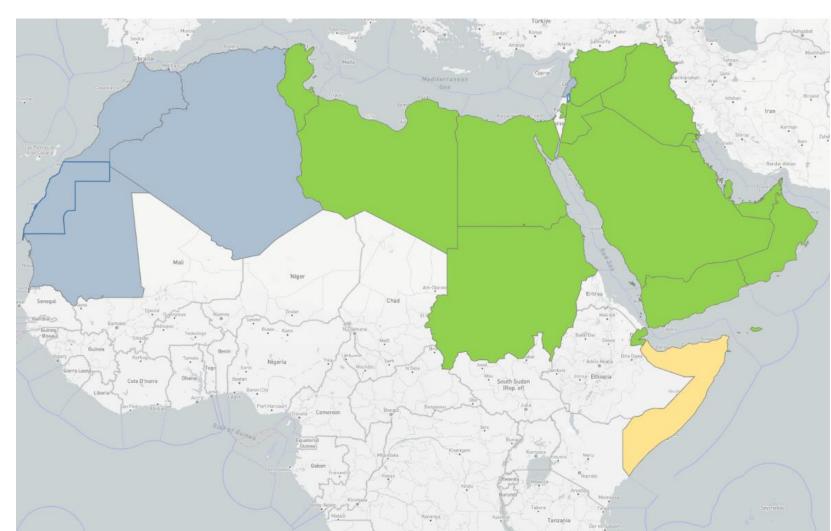
On average reported present/suspected in **11%** of the countries / territories in domestic animals and **8%** in wildlife **Stable trend** in countries / territories reporting the disease present



### **Regional distribution 2018 – 2024 – B. suis**

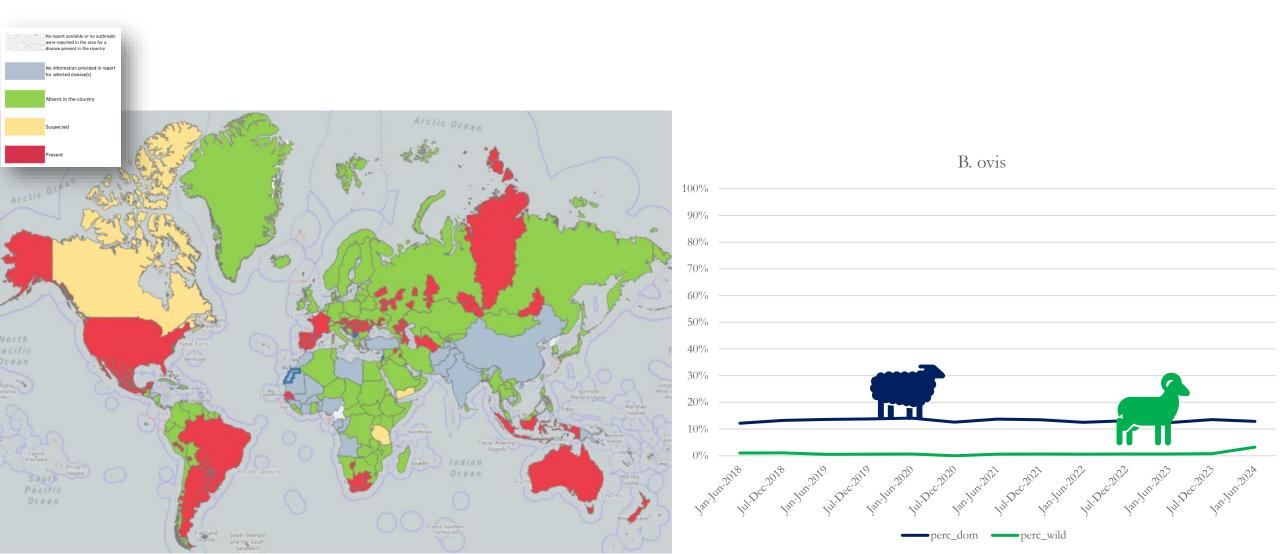
Present/suspected at least once in 11/22 Members (**0** in domestic animals – **3** in wildlife) On average reported present/suspected in 0% of the Members in domestic animals and 0% in wildlife No trend in Members reporting the disease present – only one Member (Somalia) reporting the disease suspected in 2018 - 2022





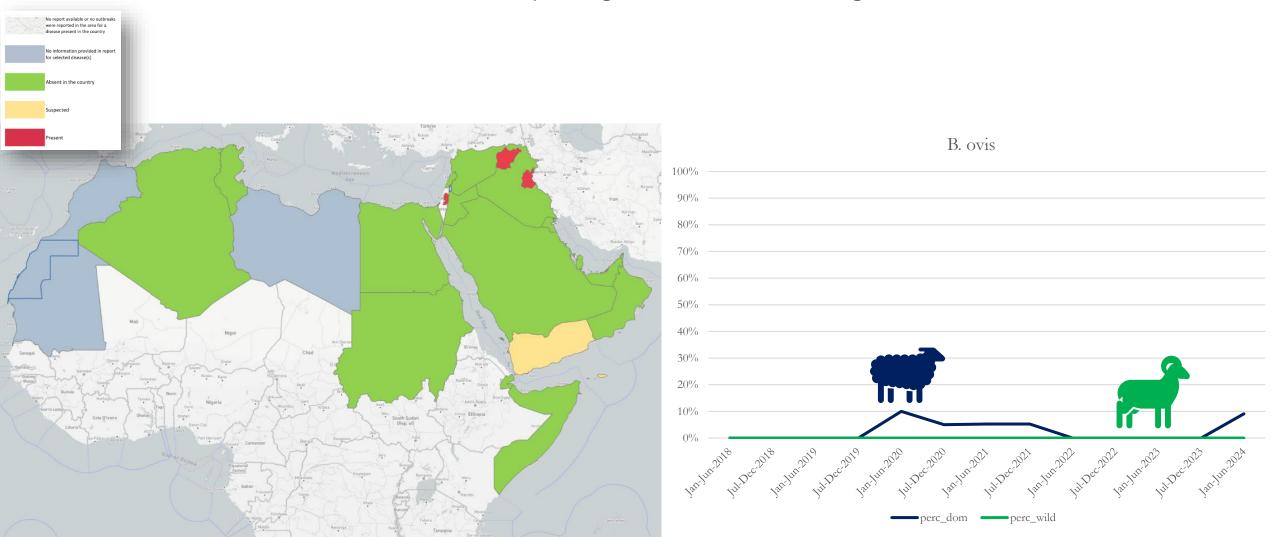
#### **Global distribution 2018 – 2024 – B. ovis**

On average reported present/suspected in **13%** of the countries / territories in domestic animals and **1%** in wildlife **Stable trend** in countries / territories reporting the disease present



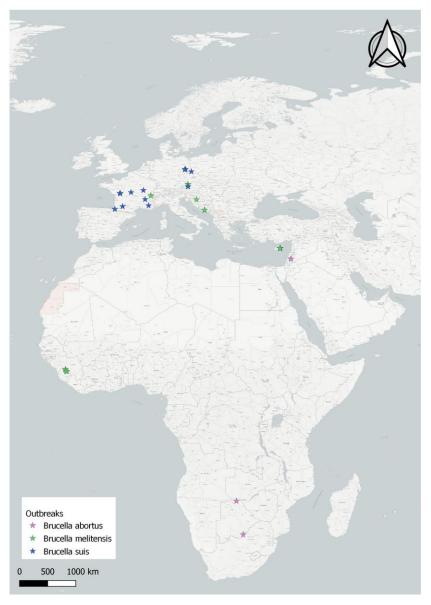
#### **Regional distribution 2018 – 2024 – B. ovis**

Present/suspected at least once in 3/22 Members (**3** in domestic animals – **0** in wildlife) On average reported present / suspected in 3% of the Members in domestic animals and 0% in wildlife No trend. Occasional reporting in 2019 – 2022 and again in 2024



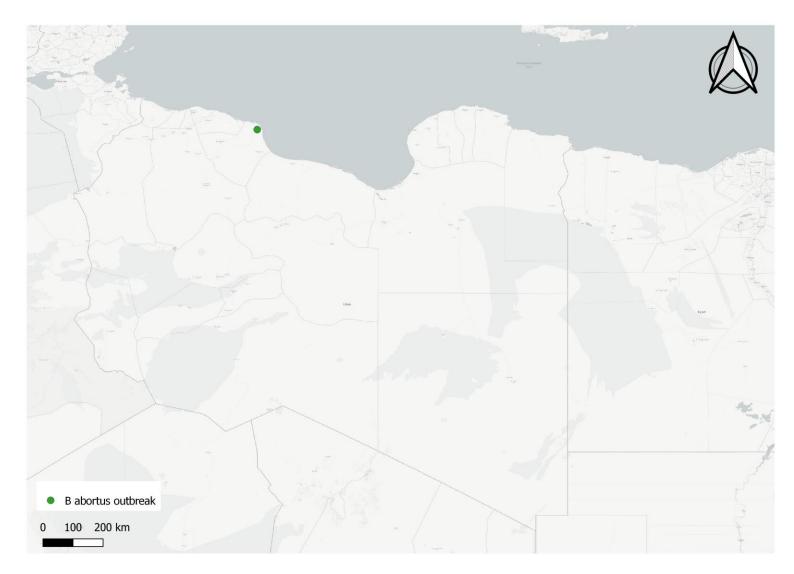
#### **Brucella 2018 – 2024 – Exceptional events at global level**

12 Immediate notification reporting the recurrence of B. abourtus (N=3), B. melitensis (N=6), and B. suis (N=3)



#### **Brucella 2018 – 2024 – Exceptional events**

Only **one** Immediate notification reporting the recurrence of B. abortus in Lybia (event start date = **July 2020**). Event resolved



### **Self declation of freedom**

#### Egypt

(valid since January 2021)

Self declaration of freedom in some compartments for *B. abortus,* 

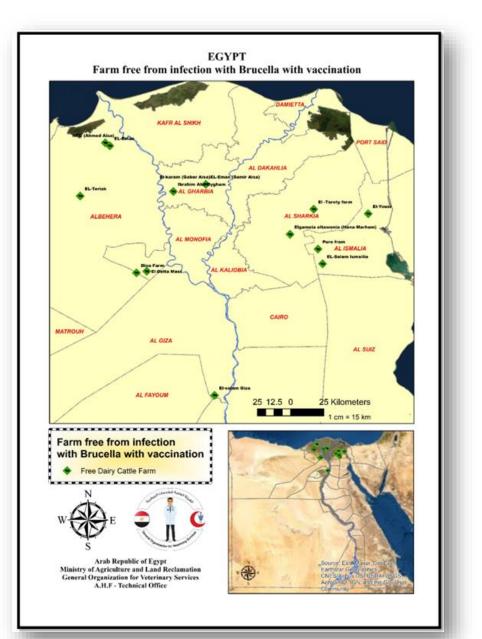
D. abortus,

B. melitensis

B. Suis

Self-declaration by Egypt of Compartment free from infection with Brucella with vaccination

Declaration sent to the OIE on 5<sup>st</sup> August 2021 by Abdel Hakim Ali, OIE Delegate for Egypt and Chief Veterinary Officer.

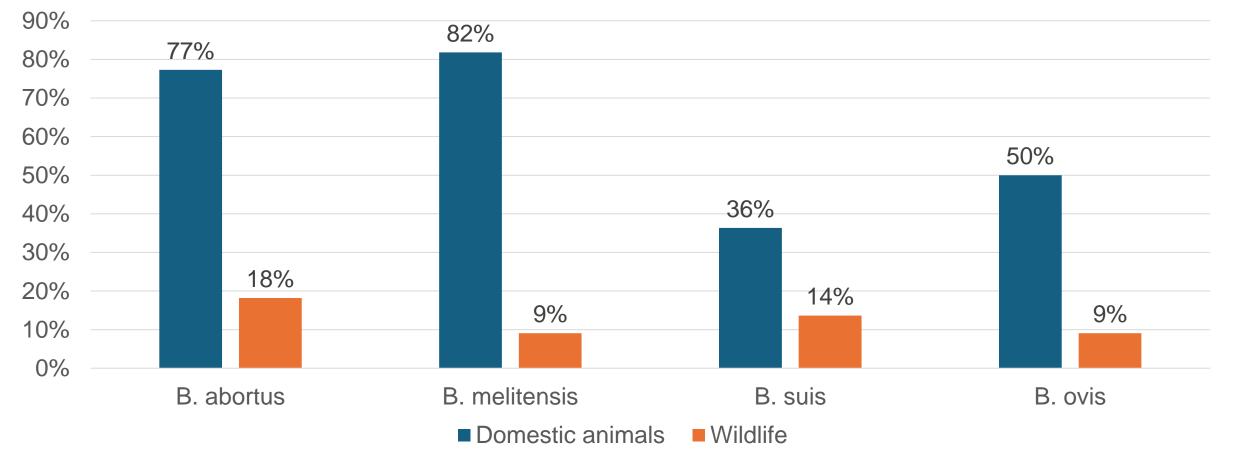


## SURVEILLANCE **ACTIVITIES REPORTED BY NATIONAL** AUTHORITIES

Date

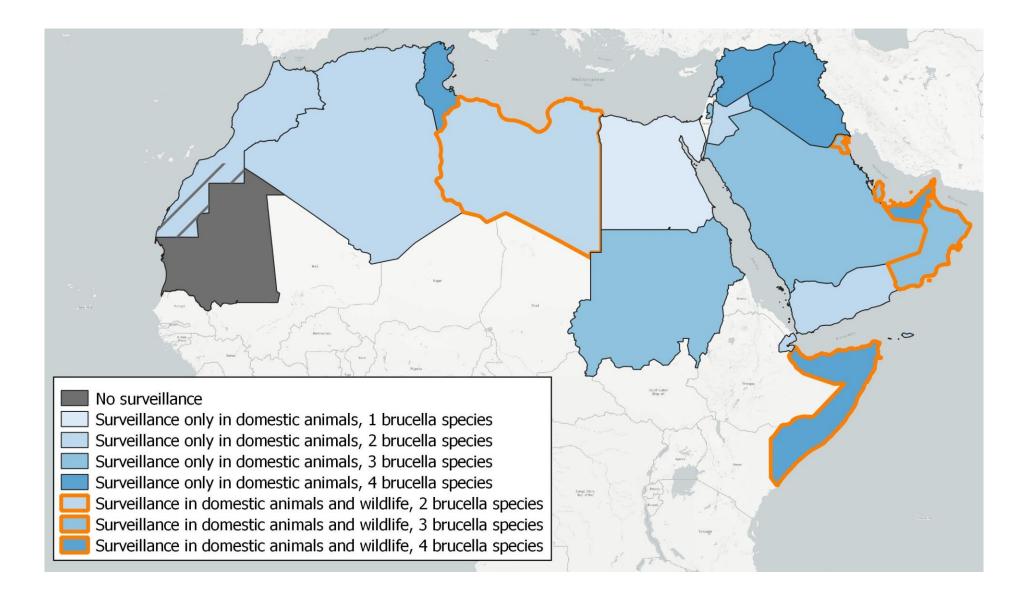
#### **Surveillance in members of Arab League**

#### No. members of Arab League reporting surveillance activities to WOAH



Based on most recent information shared with WOAH as of 30 October 2024

#### **Surveillance in members of Arab League**



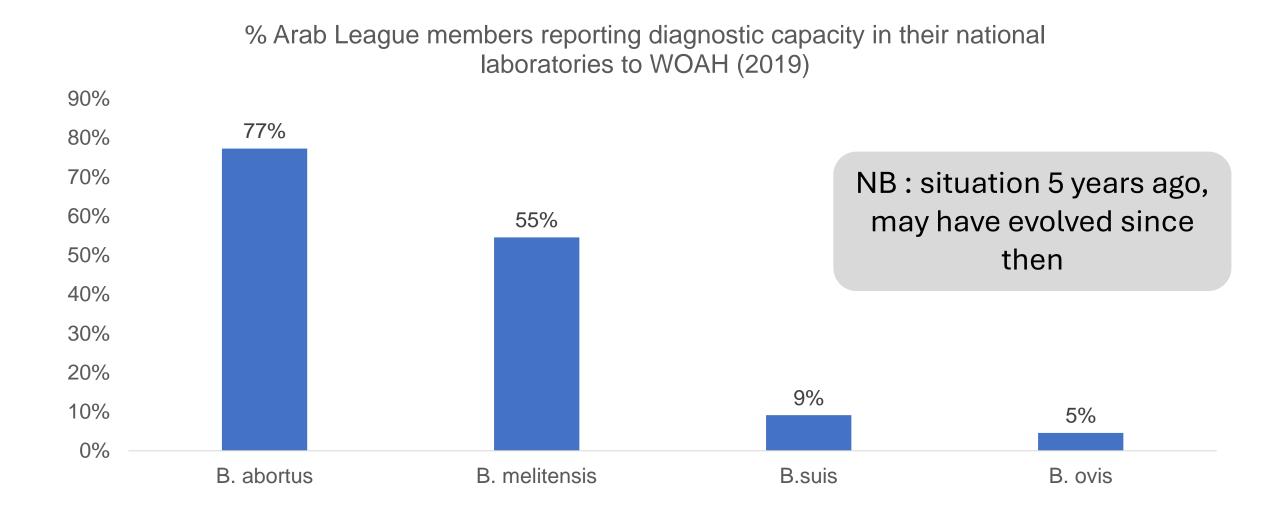
22

Based on most recent information shared with WOAH as of 30 October 2024

## DIAGNOSTIC CAPACITY REPORTED BY NATIONAL AUTHORITIES

Date

#### **Diagnostic capacity in national laboratories**



Based on information shared with WOAH for 2019 (collected through former version of WAHIS, not updated since then)

### **WOAH** laboratory twinning programme

- links an existing WOAH Reference Centre with a Candidate institute wishing to improve its capacity and scientific expertise
- Knowledge and skills are shared over a defined project period
- Thanks to the WOAH Laboratory Twinning Programme, more countries have access to high-quality diagnostic testing and improved technical capability
- Benefitted from twinning on brucellosis :
  - United Arab Emirates (with Germany, ended in 2016)
  - Sudan (with UK, ended in 2014)





### 100 Addressing gaps through sustainable lab missions

- Provide an in-depth analysis of the efficiency and sustainability of the national laboratory network
- A team of experts is commissioned to thoroughly review the needs in terms of physical, human and financial resources and evaluates overarching costs and requirements for sustainability to maintain operations at a targeted level and achieve business continuity.
- Outcome of the mission : strategic recommendations
- Benefitted from sustainable lab mission:
  - Sudan (in 2015)
  - **Tunisia** (in 2014)
  - Libya (in 2013)





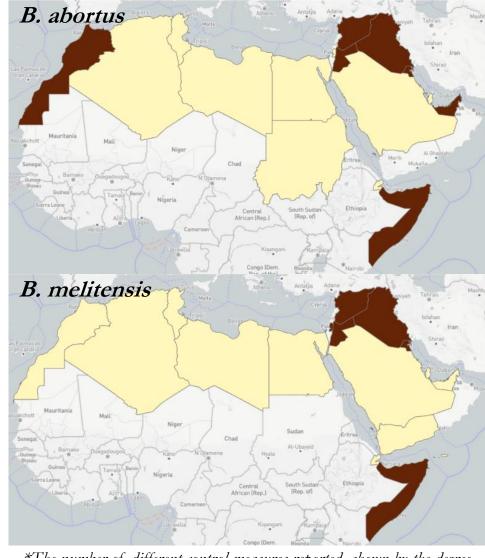
## PREVENTION & CONTROL REPORTED BY NATIONAL AUTHORITIES

Date

#### Movement control in place 2018 - 2024

*B. abortus*: **17 Members** reported movement control during the period

B. melitensis: **16 Members** reported movement control during the period



\*The number of different control measures reported, shown by the degree of colour.

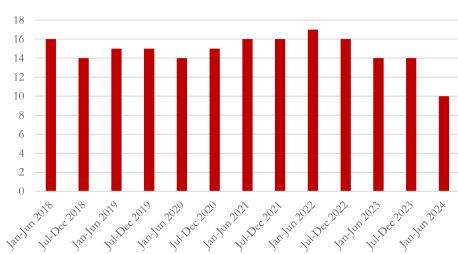
\*Control measures considered: movement contol and / or precaution at the borders

#### Movement control in place 2018 – 2024 - trend

*B. abortus*: no specific trend in number of Members reporting movement control through the period

B. melitensis: no specific trend in number of Members reporting movement control through the period

\*Control measures considered: movement contol and / or precaution at the borders



#### Movement control- B. abortus

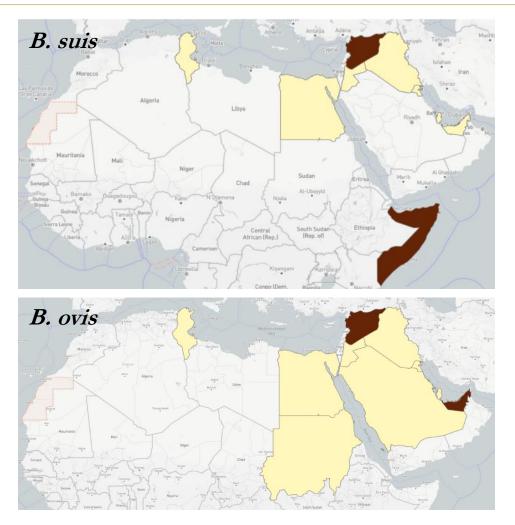




#### Movement control in place 2018 - 2024

*B. suis*: **10 Members** reported movement control during the period

*B. ovis*: **11 Members** reported movement control during the period



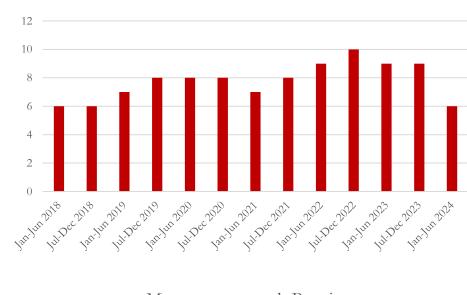
\*The number of different control measures reported, shown by the degree of colour.

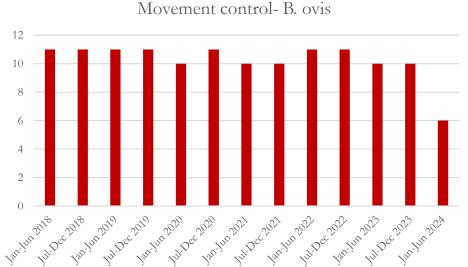
\*Control measures considered: movement contol and / or precaution at the borders

### Movement control in place 2018 – 2024 - trend

*B. suis*: increasing trend in number of Members reporting movement control through the period

B. ovis: no specific trend in number of Members reporting movement control through the period





Movement control- B. suis

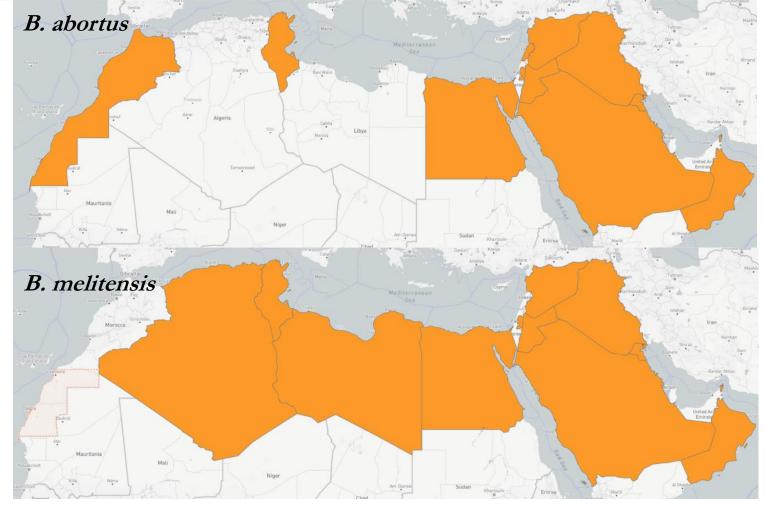
\*Control measures considered: movement contol and / or precaution at the borders

#### **Vaccination in place 2018 - 2024**

*B. abortus*: **5 Members** reported official vaccination during the period

B. melitensis: **11 Members** reported official vaccination during the period

B. Suis and B. ovis: **0 Members** reported official vaccination during the period



\*Members in orange reported officila vaccination at least once during 2018 – 2024

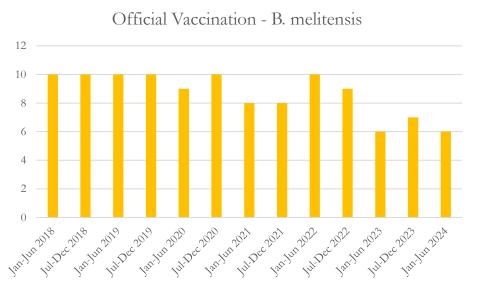
#### Vaccination in place 2018 – 2024 - trend

*B. abortus*: no specific trend in number of Members reporting official vaccination through the period

B. melitensis: slight reduction in number of Members reporting official vaccination through the period (to condier reporting biases)



Official Vaccination - B. abortus



- ✓ Some members with **outdated information due to late reporting**
- ✓ **Gaps in surveillance in wildlife** with large differences compared to domestic animals

Very little information available on the presence of the disease in wildlife

- ✓ Large variability in reported surveillance for the 4 Brucella across the Region
  - B. Abortus and B. militensis widespread in the Region
  - B. Suis and Ovis restricted to a few areas
- ✓ In general, the trend of disease occurrence for the different Brucella species in the Region is quite stable.
- ✓ B. melitensis is the only disease with a relatively high incidence of official vaccination in the Region.
- ✓ Movement control is widely applied for B. abortus and B. melitensis. Very limited for B. suis and Ovis

## Thank you

#### Contact

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