

Biosecurity threat: 2022 in focus

Dr Beth Cookson
Deputy Australian Chief Veterinary Officer
9 November 2022



The situation



Global bioinsecurity?

Lumpy Skin Disease confirmed in Sumatra, ra alert for Australia

Dr Ross Ainsworth, 03/03/2022

The Indonesian government last night signed off on an Emergency Declaration following confirmation that Lumpy Skin Disease (LSD) has been identified in Sumatra, increasing the risk of the disease entering Australia.

The World Organisation

influenza as outbreaks

Animal Health (OIE) call

increased surveillance of

poultry and wild birds int

The international animal health agency (OIE) is also being notified.

Lumpy skin disease is a viral disease of cattle and buffalo that can cause painful skin lesions, fever, watery eyes



African swine fever:

An unprecedented global threat

A challenge to livelihoods, food security and biodiversity Call for action

> African swine fever still a threat

Foot-and-mouth fears for Australia as Indonesia grapples with outbreak

AGE Street Villy District Filternet Add an E Warrelick Long.





Help keep family & friends informed by sharing this article



ead rapidly across the globe since The World Organization for Animal of the virus coupled with the increased New Year, has biosecurity authorities ng Δustralia in illegally imported

Thousands of birds killed amid 'bigges ever outbreak of bird flu in Britain'

By James Ashworth First published 6 January 2022







The 'biggest ever outbreak of bird flu in Great Britain' has been blamed for kill thousands of birds in the UK.

Wild and captive birds across the country have died or been killed as a result the virus, with climate change suggested as having increased the severity of outbreak:

A conservation success story on the Scottish and English border has been dealt a m ent months after 4000 barnacle geese died as a result of bird flu.

> s, just a few hundred of the geese remained in the Solway Firth, but follow campaigning and changes to the law their numbers increased to over 30 Royal Society for the Protection of Birds (RSPB) has said that up to 10% population have perished amid outbreaks of bird flu across the four nation

> umpy skin disease found in Indonesia, puttin orthern biosecurity on high alert

Result / By Centel Progerote





The new biosecurity landscape



Continually & rapidly evolving situation



Multiple threats across different regions/countries & industries/sectors

Estimated probability of an LSD outbreak in Australia in the next 5 years

An estimated 3 to 4-fold increase in the perceived probability of a LSD outbreak







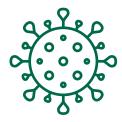
Map: LSD outbreaks 2019 - 20 (OIE)

Map: LSD outbreaks 2021 - 22 (OIE)

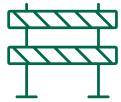
The drivers



A world of biosecurity connections (regional outbreaks)



A world recalibrating (COVID-19)



A fractured & uncertain world (geopolitics)



A world of extremes (climate change)

Risk pathways



Regulated goods and people movement: increased quantity & more complex

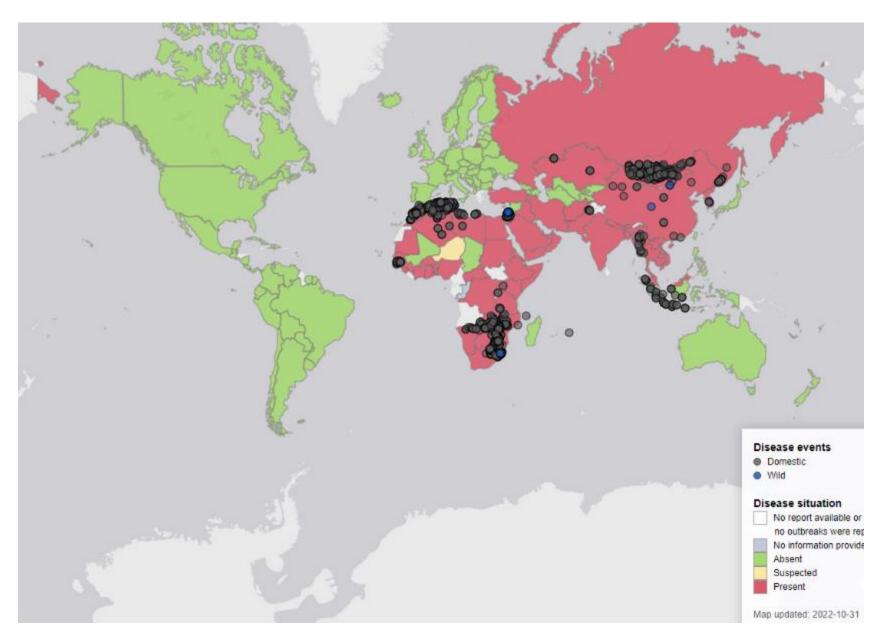


Unregulatable natural pathways: greater threat reflecting the current regional situation



Illegal activities
(intentional or nonintentional): continued
vigilance essential

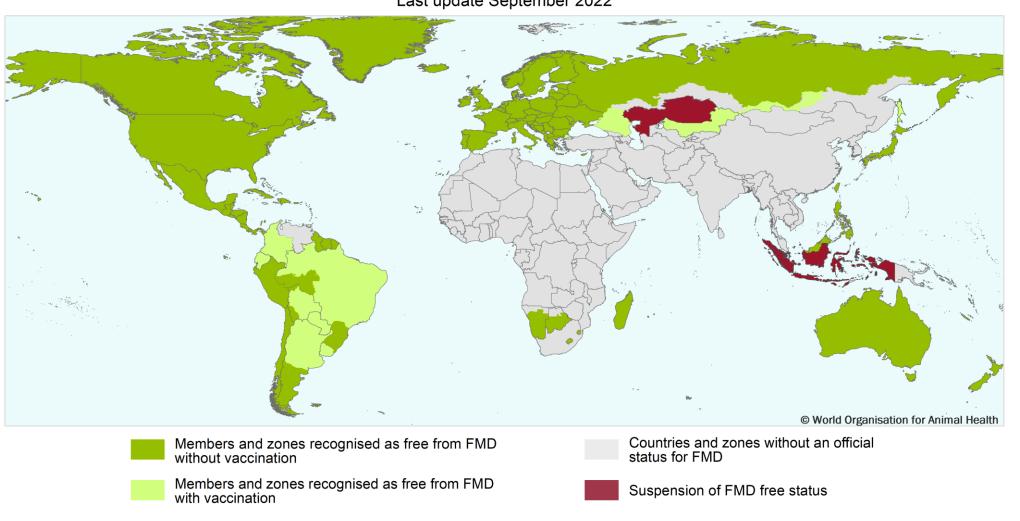
Foot-and-mouth disease



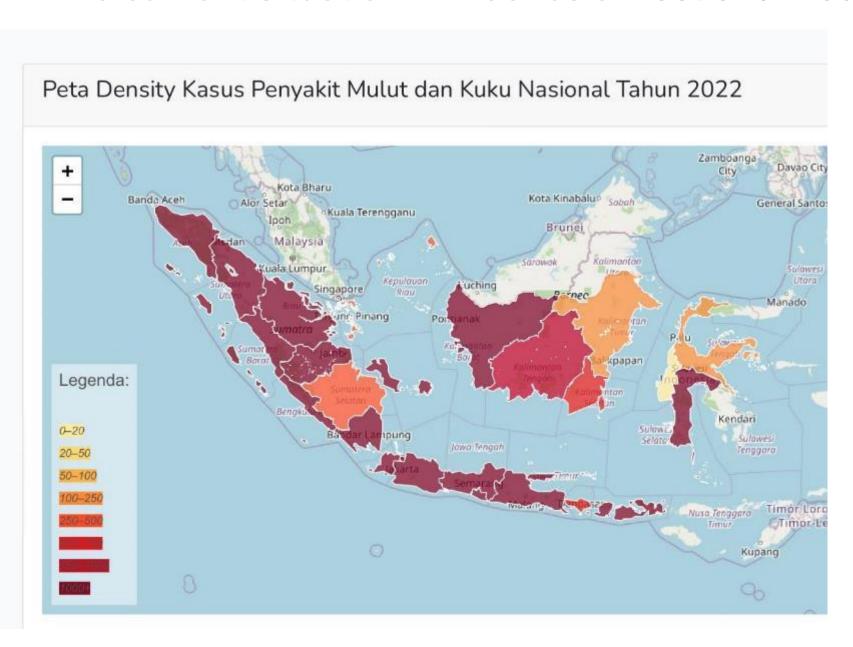
Foot-and-mouth disease

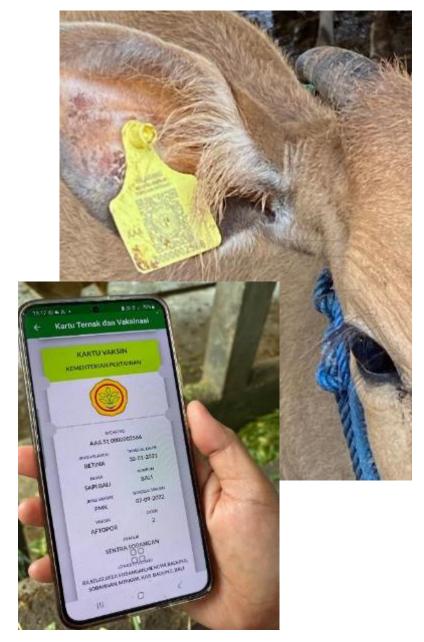
WOAH Members' official FMD status map

Last update September 2022

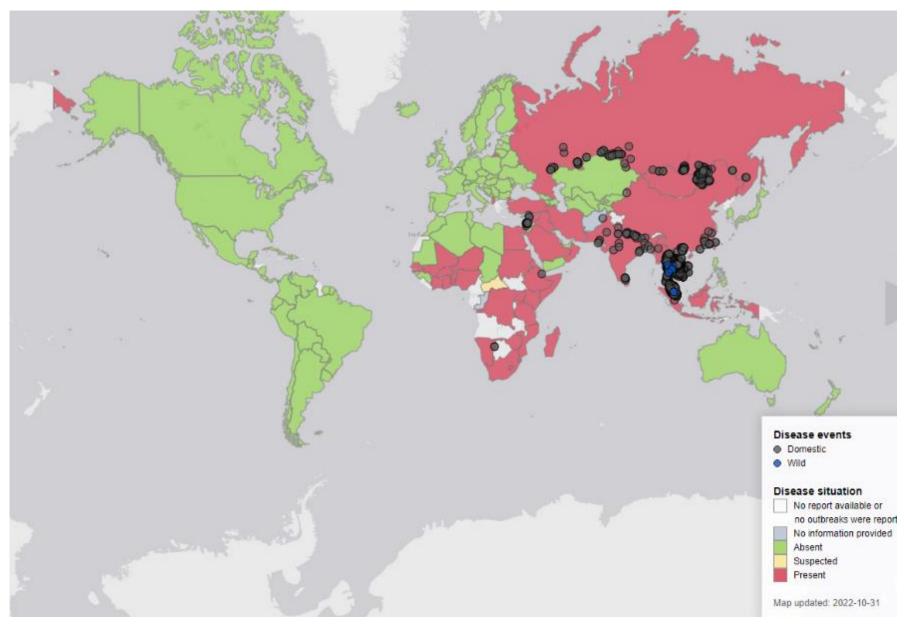


The current situation in Indonesia: Foot and mouth disease





Lumpy skin disease



The current situation in Indonesia: Lumpy skin disease

Hasn't spread as quickly as we thought. Under reported?

Vaccination rollout is slow.

FMD response is a higher priority for Indonesia



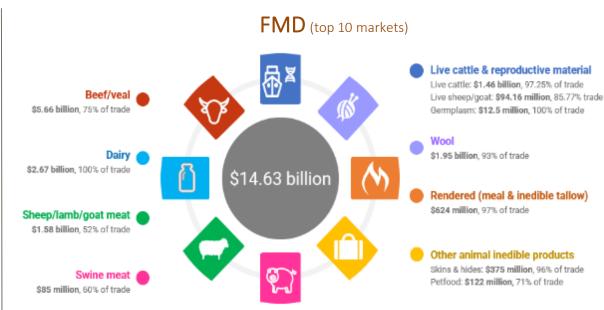
The implications & response

Trade implications

Predicted impact on exports



Options can be considered pre-emptively to minimise trade impact



Options limited for pre-emptively minimising trade impacts

Prevention is key.

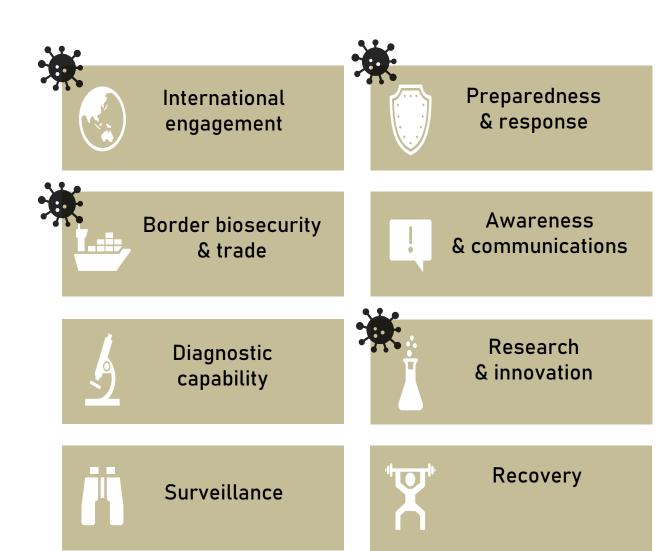
Efforts must be make to strengthen Australia's ability to rapidly respond to, and eradicate, any outbreak





National lumpy skin disease action plan

- Released by Senator the Hon Murray Watt, Federal Minister for Agriculture, Fisheries and Forestry 13 October 2022
- 8 objectives, 27 activities
- Government and industry consultation
- Northern Australia Coordination Network \$4.33M over 2 years



Advocacy & relationships





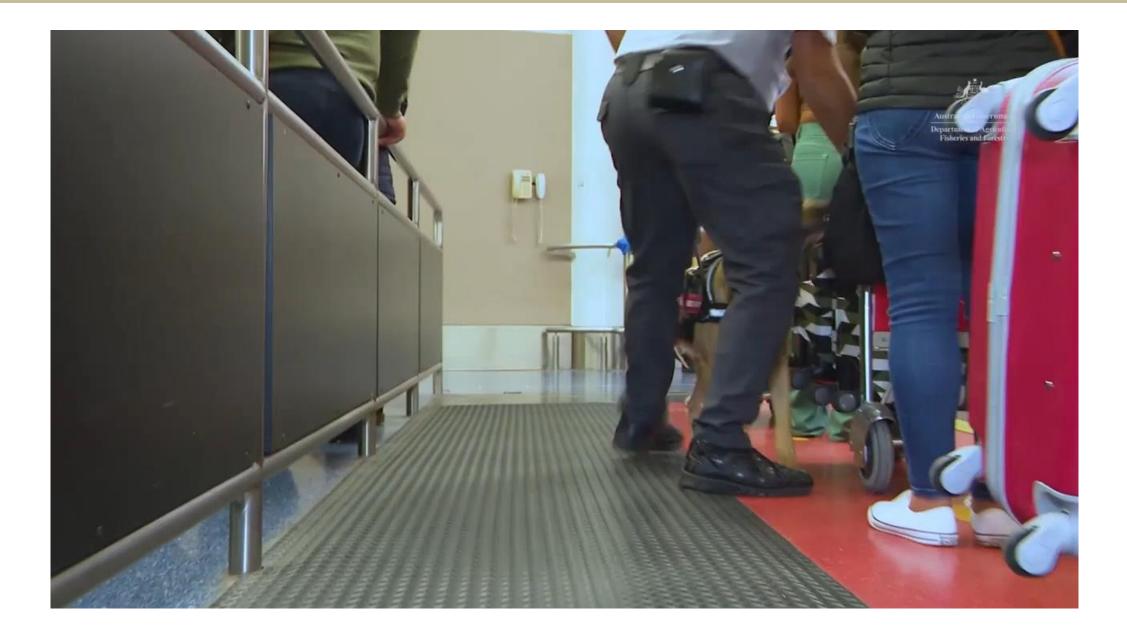
technical expertise



Vaccines



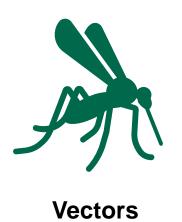


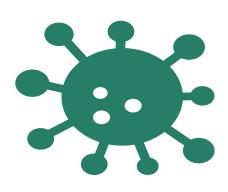




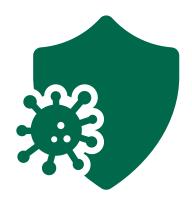








Live virus research at national laboratory/CSIRO



New vaccines?

The challenges, priorities & new paradigms

Challenges, priorities and new paradigms







Joint Interagency Taskforce: Exotic Animal Disease Preparedness

Report

5 September 2002



Challenges, priorities and new paradigms

FMD

- *Speed & scale of response
- *Social licence staying the course
- *Traceability

LSD

*The unknowns – vectors/vector control, modelling to predict disease spread and test containment and vaccination strategies *Vaccines - registration processes, investment in new vaccine technologies *Advocacy within the region for control – the 'forgotten' disease?

Overall, the system is strong, in particular in prevention and mitigation, and the system is sound

"...scale and speed of response required...would be significant and place considerable pressure on the system"

Joint Interagency Taskforce EAD Preparedness September 2022

Biosecurity readiness & leadership

UK orders temporary control zone after suspected FMD cases



The 10-kilometer zone was declared following suspicion of vesicular disease in pigs.

Compiled by staff | Jun 24, 2022

Government officials in the United Kingdom are enforcing a temporary foot and mouth disease control zone, following suspected cases in pigs near Norfolk.

In an update on the website, the Animal and Plant Health Agency said, "Following suspicion of vesicular disease in pigs, and as a precaution to prevent the spread of disease, a 10-kilometer temporary control zone has been declared around a premises near Feltwell, Kings Lynn and West Norfolk, Norfolk.

All in a days work!



Thank you.