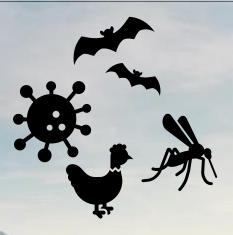


Biological Threat Reduction and FIRABioT









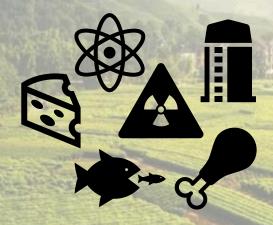
Infectious diseases, including emerging zoonoses and vector-borne pathogens



Geological events: earthquakes, volcanoes and tsunami



Adverse weather and climatic events: storms, floods, fire and drought



Technological disasters and contamination of food and feed chains



Transport and maritime accidents, including oil spills

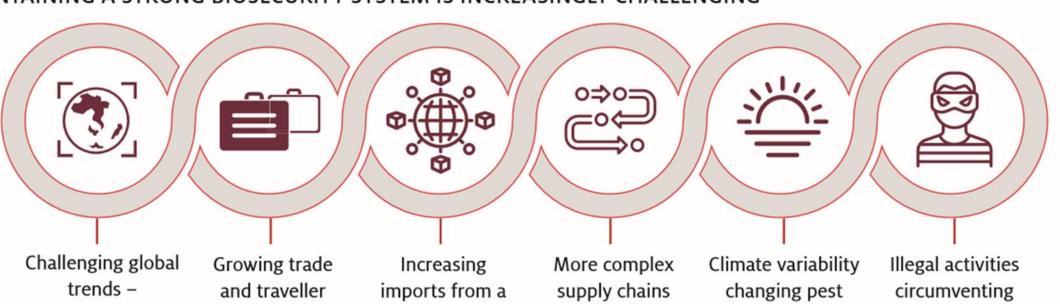


Agro-crime, agro-terrorism, cybersecurity, conflict, refugees



BIOSECURITY THREATS

MAINTAINING A STRONG BIOSECURITY SYSTEM IS INCREASINGLY CHALLENGING

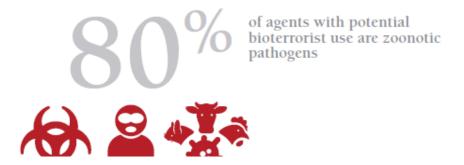


Goods and logistic chains volumes

wider range of countries

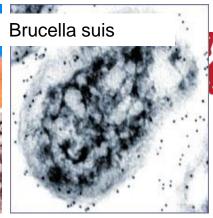
and disease distributions biosecurity controls



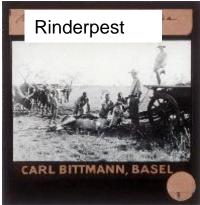


Fight pathogens at the animal source to protect human health











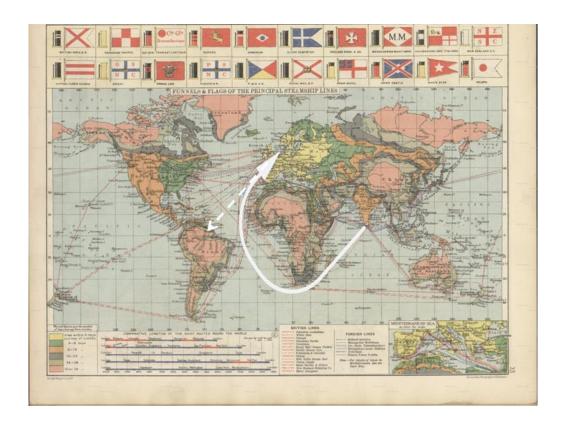
The World Organisation for Animal Health (WOAH)

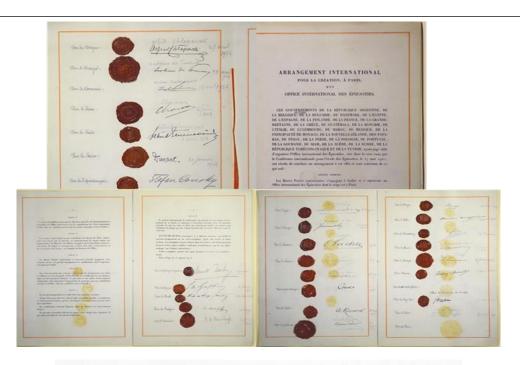


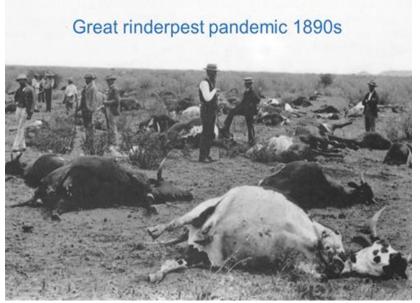




Rinderpest and WOAH













- Transparency
- Scientific information
- International solidarity

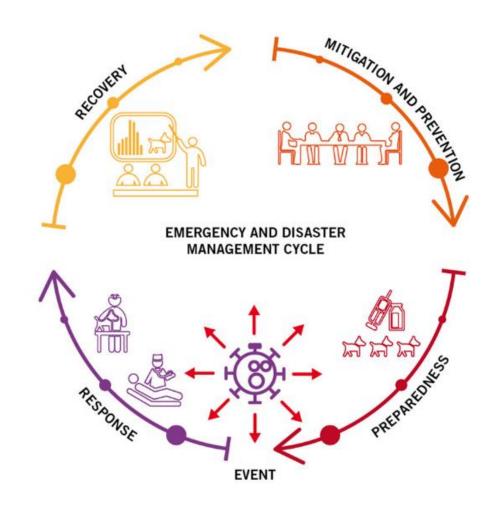
- Sanitary safety
- Promotion of veterinary services
- Food safety and animal welfare

ANIMAL HEALTH AND WELFARE EMERGENCIES

What is an emergency?

'A serious, unexpected, and often dangerous situation requiring immediate action'

• Emergency management is the organisation and management of roles and responsibilities, resources and capabilities and actions required across all phases of the emergency management cycle



DISASTER

A serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts, which exceeds the ability of the affected community or society to cope using its own resources'. (United Nations Office for Disaster Risk Reduction – UNISDR, 2015

- Natural disasters, technological/man-made, infectious diseases....
- Need for multi-sectoral and interdisciplinary approach



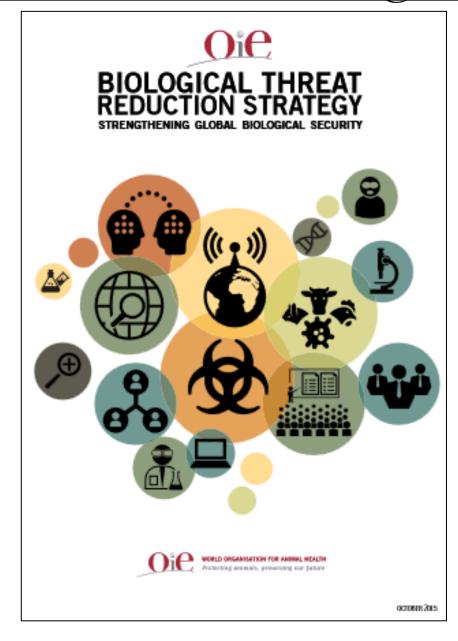


Sendai Framework for Disaster Risk Reduction 2015 - 2030





Biological threat reduction



biological threat or 'biothreat' refers to the
accidental or deliberate
release of a pathogen or
toxin into a susceptible
population



Where do biological threats and emergencies come from?

Naturally occurring

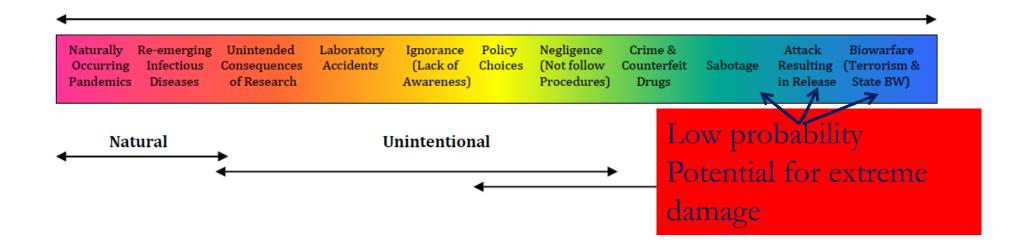
- Imported cases
- Regional outbreak
- Global event
- Pandemic
- Re-emerging
- Newly emerging

Accidents

- Laboratory accidents
- Nosocomial infections

Deliberately caused

- Criminal intention.
- Bio- and Agro-terrorism
- Biological warfare





When foot-and-mouth disease stopped the UK in its tracks



WHAT IS A
TRANSBOUNDARY
ANIMAL DISEASE?

"A HIGHLY CONTAGIOUS DISEASE WHICH CAN SPREAD RAPIDLY ACROSS BORDERS"



Peste de Petits Ruminants (PPR)



Anthrax

African Horse Sickness (AHS)



HOW DO THEY SPREAD?

International movements (legal and illegal)

- Live domestic animals or wildlife
- Animal products meat, feathers, milk, hides, semen, ova, embryos, offal
- Animal feed

Fomites (people (clothes), vehicles, machinery)

Wildlife e.g. wild spreads spreading avian influenza ("bird flui")

Air and water (wind, rivers)

Vectors

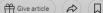
IMPORTANCE OF TRANBOUNDARY ANIMAL DISEASES

- Impacts on health and welfare of animals, humans, and wildlife
- Impacts on biodiversity
- Disruption to trade and agriculture industry
- Impact on food production and safety
- Indirect losses, e.g., tourism
- Political and national security implications



The New Hork Times

Blair Postpones Election Because of Foot-and-Mouth Epidemic







By Tom Buerkle, International Herald Tribune April 3, 2001

LONDON— In one of the biggest political gambles of his leadership, Prime Minister Tony Blair on Monday formally announced a one-month postponement of local elections to concentrate on combating foot-and-mouth disease, effectively signaling that his Labour government would seek re-election on





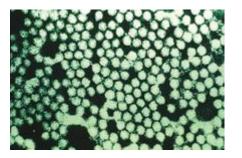
Biological AGENTS OF CONCERN

- High rate of illness among those exposed
- High rate of death among the affected
- Short time between onset of illness and death



- No known treatment
- Animal-to-animal/human transmission
- Easy to produce and disseminate
- Difficult to diagnose, control and eradicate







Australia Group control lists: identification of exports which need to be controlled so as not to contribute to the spread of biological weapons

- Biological agents including toxins
- Dual use equipment, technology, software

57 viruses 22 Bacteria 18 Toxins 2 Fungi



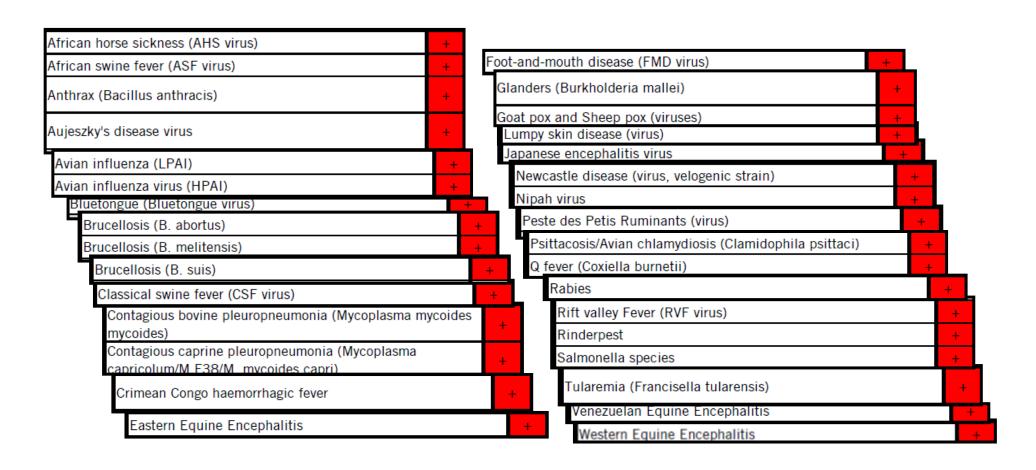
WOAH list:

single list of notifiable diseases which

- have all the same degree of importance in <u>international trade</u> and which are
- classified as specific hazards

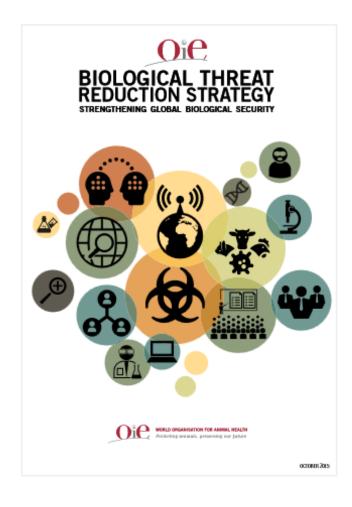
116 diseases, infections, infestations

RELEVANCE OF / RELEVANT PATHOGENS





Biological Threat Reduction



WOAH's strategy for biothreat reduction addresses 5 key areas:

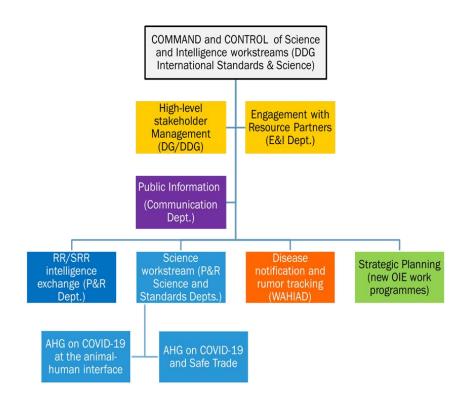
- Policies, advocacy, and communication
- Maintaining expertise and setting standards, guidelines, and recommendations
- International cooperation
- Global disease intelligence
- Capacity-building and solidarity



- WOAH Standards oblige Members to notify occurrence or re-occurrence of a WOAH listed or emerging disease. Official report shared to all Members through WAHIS to inform early warning (Members encouraged to report suspicions of deliberate outbreak to the WOAH but not mandatory)
- Epidemic Intelligence Active search and rumour tracking including through GLEWS+ with FAO (+WHO if zoonotic) (criminal activity may be on darknet)
- Risk assessments with FAO (+ WHO if zoonotic) (only been done for natural events)
- Information exchange with INTERPOL under provisions of WOAH-INTERPOL MoU

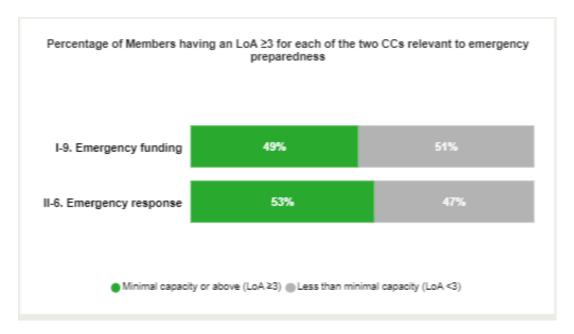
WOAH Response

- Activate internal WOAH Incident Management System
- Mobilisation of expert groups through network of Reference Centres
- Respond to requests of assistance from Members
- Participate in FAO emergency response missions
- Cooperate with FAO, INTERPOL, WHO and other partners and mechanisms such as UNODA, UN Secretary General Mechanism, BWC ISU Interagency Standing Committee





WOAH Observatory Annual Monitoring Report





- Data since 2016 (n=40)
- Level of Advancement greater than or equal to 3 considered "compliant"
- Compliance rates:

CC I-9 49%

CC II-6 57%

Both 38%

BUILDING RESILIENCE AGAINST AGRO-TERRORISM AND AGRO-CRIME

- Build and strengthen multisectoral capacity to respond to agro-terrorism and agrocrime whilst aiming to build resilience against all animal health emergencies
- Strengthen regional and international cooperation
- Foster engagement of veterinary and law enforcement sectors
- Priority regions are North
 Africa, Middle East and South
 East Asia









Global Conference on Emergency Management 3-5 April 2023, Paris

- Highlight emergency preparedness needs to take an all-hazards approach involving multiple sectors and show how this can be operationalised
- Focus on animal health-security interface
- Strengthened international emergency management network







- WOAH develops a sustainable work programme emergency management utilising an ALL HAZARDS approach to emergencies
- WOAH Members should:
 - Collaborate with other agencies and ministries in emergency management
 - Base emergency management planning on risk analysis to inform national and regional priorities
 - Collaborate with other Members in emergency management planning



https://doi.org/10.20506/bull.2023.1.3394

SG89/8

Original: English

WORLD ORGANISATION FOR ANIMAL HEALTH, VETERINARY SERVICES AND AQUATIC ANIMAL HEALTH SERVICES ENGAGEMENT IN GLOBAL, REGIONAL AND NATIONAL EMERGENCY MANAGEMENT SYSTEMS

Matthew Stone¹, Daniel Donachie², Chadia Wannous², Keith Hamilton²

¹ SPADE Solutions Ltd, Wellington, New Zealand
² World Organisation for Animal Health, Paris, France

Executive Summary: Avian influenza, Ebola, African swine fever and COVID-19 epizootics, epidemics and pandemics in recent years have highlighted infectious diseases emergencies affecting public health and animal health. Emergencies from adverse weather events are expected to increase in frequency and severity driven by climate change.





Inception of Fortifying institutional resilience against biological threats (FIRABioT) Project

- WOAH-FAO-INTERPOL Agro-Crime Project (including Global Conference)
- Previous GAC funded biothreat work
- COVID-19 after-action
- Technical Item and Resolution GS 2022
- Global Partnership and African Signature Initiative



FIRABioT



01

Improve WOAH's ability to anticipate, respond and recover from emergencies and ensure business continuity

02

Strengthen WOAH
Members' abilities
and capacities to
respond to
emergencies,
particularly in Africa

03

Demonstrate value of WOAH as a partner for security organisations



Project breakdown

Establish a WOAH Incident Management System

Improve capacity of WOAH Members to respond to emergencies resulting from deliberate releases (focused on Africa)

Scientific and evidence-based guidance and standards for emergency management developed

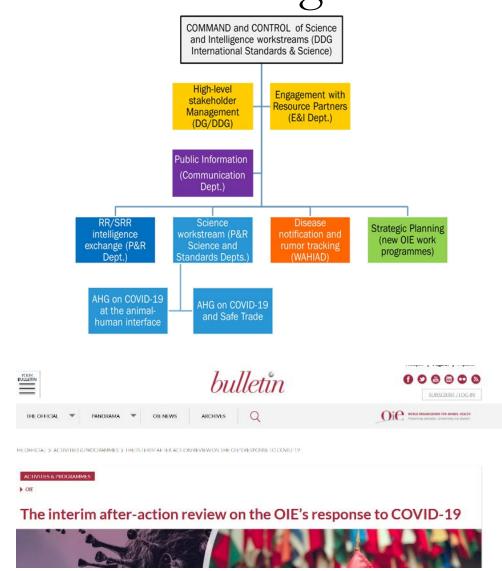
Dissemination of good practices for emergency management (including for deliberate releases)



Establish a Sustainable WOAH Incident Management

System (IMS)

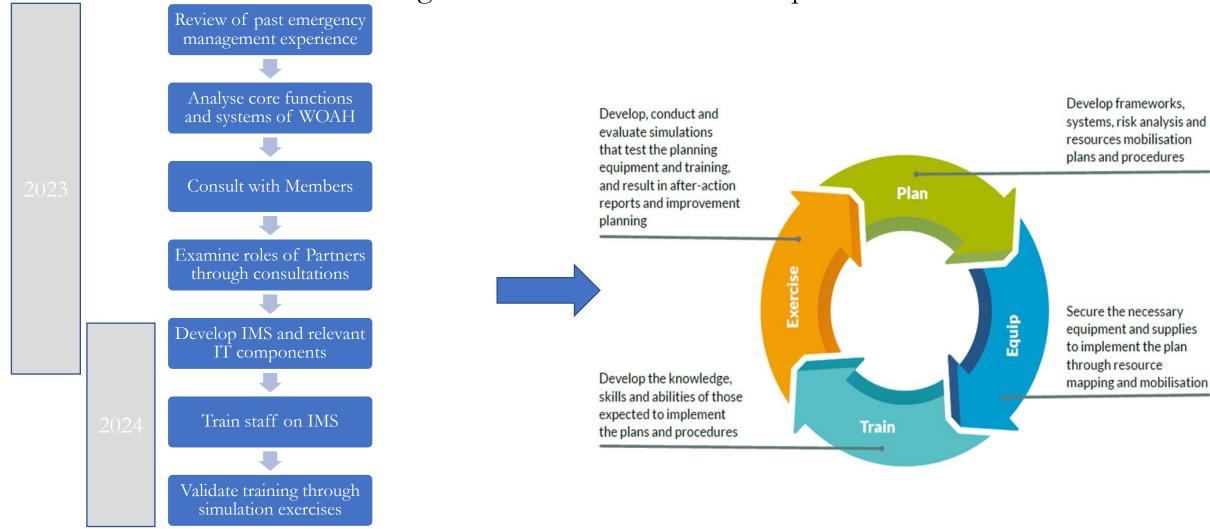
- Recommendation from Technical Item Resolution (GS 2022)
- IMS must take all-hazards approach, build on past experiences and be able to support WOAH, its Members and Partners during international emergencies
- Business continuity and crisis management component

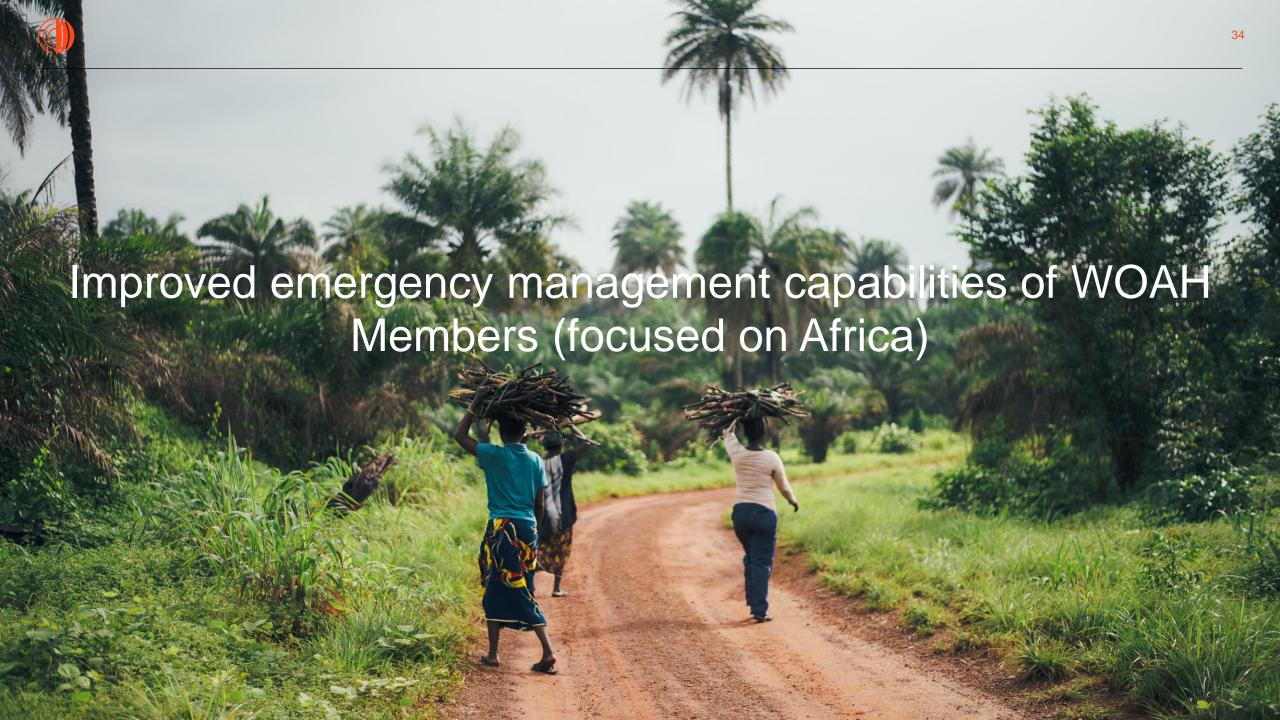


WOAH IMS

Align and respect WOAH's mandate, based on Member expectations and roles of Partners.

Management and IT consultants required







Members Needs Assessment

Expression of interest sent to Delegates of 25 countries, responses received from 10:

- 1. Algeria
- 2. Rebulic of the Congo
- 3. Côte d'Ivoire
- 4. Kenya
- 5. Madagascar
- 6. Malawi
- 7. Morocco
- 8. Namibia
- 9. Tanzania
- 10. Zimbabwe



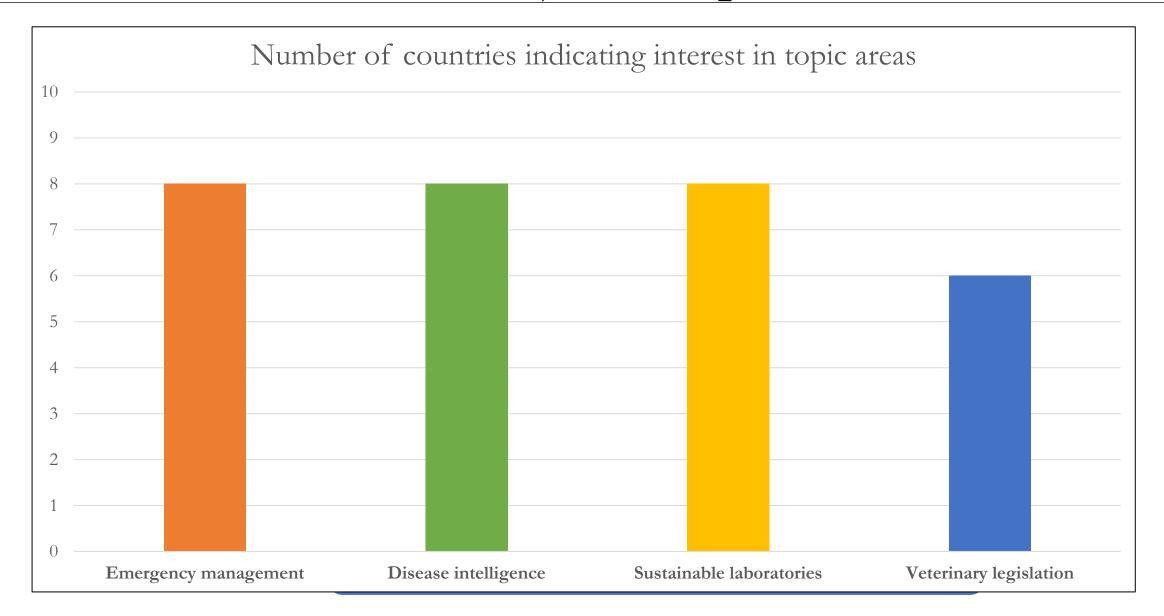
Fortifying Institutional
Resilience Against Biological
Threats (FIRABioT) Project

Request for interest (RFI) to build emergency management capacity and strengthen biosafety and biosecurity

Background to the request



Project Scope





Project Scope

Capacity building for laboratories, such as training on biosecurity methods

Simulation exercises

Capacity building and resource building for disease surveillance

Update legislation

Enhancing Veterinary
Services' ability to plan
for and respond to
emergencies



Consultancies and ad hoc Groups

- Based on needs from Members (Global conference recommendations and workshop consultations)
- Develop guidelines
 - E.g. multi-agency cooperation practical guidelines.
- Expert Group meetings
 - Recommendations for IMS
 - Standards for Terrestrial Animal (recommendation from Technical Item Resolution)



GUIDELINES FOR SIMULATION EXERCISES

A consistent set of good practices for preparing, delivering, and learning from animal health and welfare and veterinary public health simulation exercises for Veterinary Services.

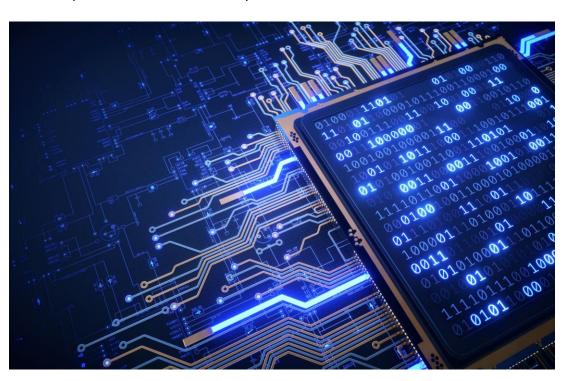






Global Conferences

• Global Conference on Information systems (recommendation from 2017 biothreat reduction conference) (October 2024)



• 3rd Global Conference on Biological threat reduction (March 2025) =

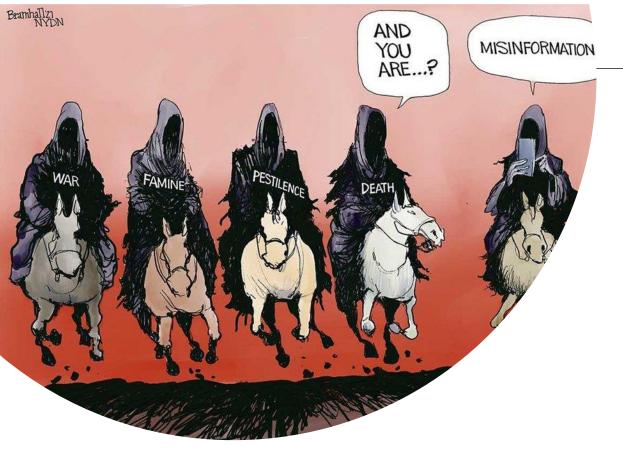




Communications and Publications



- Podcasts on emergency and disaster management
- Hire a graphic designer specifically for FIRABiot
- Learn from other projects e.g. EBO-SURSY
- Regular updates in WOAH News
- Journal articles
- Online repository



Disinformation and Misinformation Workstream

- Academic study understand impact of dis/misinformation in animal health. No study undertaken thus far.
- Use disinformation guidelines to develop training for communications focal points











WOAH and INTERPOL MoU Operationalisation

- INTERPOL Command and Control Workshop in Africa
- Agro-crime workshop (based on roadmap under current project)

Thank you Any questions?

12, rue de Prony, 75017 Paris, France

T. +33 (0)1 44 15 19 49 F. +33 (0)1 42 67 09 87

woah@woah.int www.woah.org <u>Facebook</u>

<u>Twitter</u>

<u>Instagram</u>

<u>LinkedIn</u>

YouTube YouTube

<u>Flickr</u>





