

Food and Agriculture Organization of the United Nations



FAO's Initiatives on Emergency Management & Biological Threat Reduction



Joshua Kimutai, Regional Laboratory Specialist, FAO, ESA

Regional Training Seminar for WOAH National Focal Points for Veterinary Laboratories (cycle III,) Gaborone, Botswana, 8 – 10 July 2025



FAO's role in emergency management of biological threats

- Operates under the One Health and GEMP frameworks to address biological threats at the animal-human-environment interface
- Supports countries across the emergency management cycle:
 - Preparedness contingency planning, simulation exercises
 - Detection laboratory and surveillance capacity building
 - Response rapid emergency deployment and coordination
 - Recovery post-crisis support and system strengthening
- Promotes risk analysis to inform prevention and response strategies.
- Strengthens multisectoral coordination among animal health, public health, and security sectors for effective, integrated biothreat management.



FAO tools for biosafety, biosecurity, biorisk and biothreat





Key achievements



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Challenges



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Immediate, (within 1 year)

- Deploy BSBS assessment tools in priority labs
- Conduct 10+ pathogen inventory exercises
- Train 50+ lab staff on infectious shipment handling
- Support BS/BS policy drafting in 5+ countries
- Procure biosafety cabinets, PPE, waste management

Priority interventions

Medium-term (1-3 years)

- Implement 10 national BS/BS roadmaps
- Launch ToT programs and integrate BS/BS curricula
- Harmonize cross-border BS/BS protocols
- Establish digital BS/BS monitoring platforms
- Conduct regional One Health simulation exercise

Long-term (3+)

- Develop 2–3 regional BS/BS Centers of Excellence
- Upgrade labs to meet FAO/WOAH/ISO biosafety standards
- Build a regional network of certified BS/BS officers
- Harmonize legislation with AU/ECOWAS/EAC frameworks



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FAO's work with laboratory networks



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Lab/Epi Networks in SSA

Network	Region	Countries	Labs/Systems	Key Partners	
RESOLAB	West & Central Africa	21	National & ECOWAS, zonal labs FAO, AU–IBAR,		
RESEPI	West & Central Africa	21	(48+ labs) National Epi Units	WOAH ECOWAS, FAO, AU-IBAR, WOAH	
EARLN	East Africa	12	National & zonal labs (50+ labs)	FAO, IGAD, AU–IBAR, WOAH	
EAREN	East Africa	12	National Epi Units	FAO, IGAD, AU-IBAR, WOAH	EARLN/EAREN RESOLAB/RESEPI E LIC-VEILAB/EPI E EA/SADC
LTC-Vet Lab	Southern Africa	16	National & zonal labs	SADC Region	
EIS	Southern Africa	16	(20+ labs) National Epi Units	SADC Region	Source: Mapchat.net



PPR and ASF

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PPR ಹ

Network

FAO Countries

Ethiopia, Sudan, Guinea

GF-TADs Africa, EAREN/EARLN

Actions

Coordinated mass vaccination campaigns and postvaccination sero-monitoring

'] Impact

Ethiopia reported a 60% drop in PPR outbreaks between 2015–2020

Guinea (post-vaccination monitoring after 2020-2021 vaccination campaign under Mano-River project) indicated an increase of 35.6% in seroconversion.

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FAO Countries

Uganda and Kenya

Network

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EAREN/EARLN/AUIBAR

Actions

Cross-border surveillance and harmonized reporting protocols

ASF

| Impact

Uganda traced outbreaks to porous border markets and implemented movement control



Conclusion



FAO plays a critical role in reducing biological threats

Tools and frameworks build long-term capacity



Partnerships and One Health collaboration are key





Protecting people, animals, and the environment everyday