

GF-TADs

GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES

Africa



Food and Agriculture
Organization of the
United Nations



World Organisation
for Animal Health
Founded as OIE



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Rinderpest post-eradication activities - Perspective of the FAO-WOAH Joint Advisory Committee for Rinderpest (JAC)

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Outline

- Declaration of eradication and establishment of the JAC
- Maintaining global freedom from Rinderpest
- Remaining challenges in the post-eradication era

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1. Declaration of eradication and establishment of the JAC

Rinderpest activities post-eradication

- ▶ 2001 - Last reported case of rinderpest
- ▶ 2011 - Declaration of global freedom from rinderpest
 - ▶ OIE and FAO entrusted by Member Countries with oversight of post-eradication activities
 - ▶ Establishment of FAO-OIE Joint Advisory Committee on Rinderpest
 - ▶ FAO and OIE Member Countries agreed to:
 - ▶ Destroy rinderpest virus containing material or store it in one of a minimum number of approved facilities
 - ▶ Prohibit research involving rinderpest (unless approved by OIE and FAO)
 - ▶ Report annually to OIE on stocks of virus held in their country

The FAO-OIE Rinderpest Joint Advisory Committee

- Established in 2012, on recommendation of the Joint FAO/OIE Committee on Global Rinderpest Eradication and the resolutions adopted by both organizations.
- Tasked with advising FAO and OIE on:
 1. Virus sequestration policy for the approval/de-listing by FAO and OIE facilities for holding rinderpest virus containing materials and rinderpest virus vaccine strains;
 2. Procedures for the development, production, and storage of vaccine for preparedness plan;
 3. Approval process for future research involving rinderpest virus .



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2. Maintaining Global Freedom from Rinderpest

FAO and WOAHA's achievements in
conjunction with JAC advising tasks

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▶ Accidents happen

- ▶ The last case of smallpox was *after* eradication – a laboratory accident in 1978
- ▶ Viable variola samples discovered at US FDA, in 2014

▶ “the risk of an animal accidentally becoming infected with rinderpest virus originating from a laboratory cannot be considered negligible, and must be highly uncertain”

- ▶ Beauvais, W., et al. 2013. *Preventive Veterinary Medicine* 112: 248-256

1. Virus Destruction and Sequestration

In 2011 – 44 laboratories in 35 countries storing virus, some under insufficient conditions of biosecurity

In 2022 – 5 laboratories in 5 countries storing virus, plus 7 FAO-OIE designated Rinderpest Holding Facilities in 6 countries



Pictures from a FAO destruction missions

1. Virus Destruction and Sequestration



Advocacy missions and simulation exercises

2. FAO-OIE Rinderpest Holding Facilities

FAO-OIE designated holding facilities to store rinderpest virus containing materials and the global reserve of rinderpest vaccine

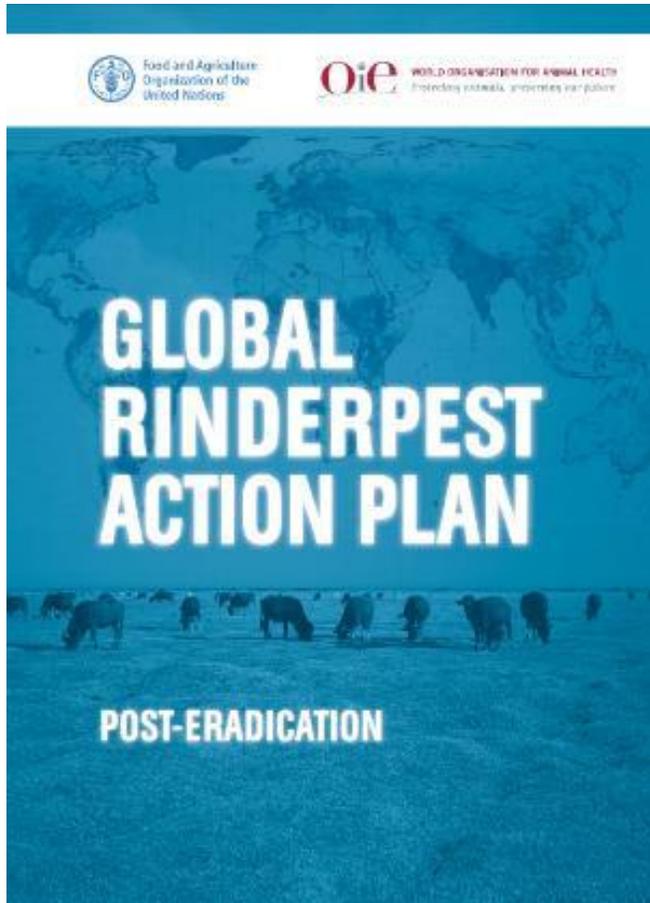
A) Rinderpest Holding Facility for storing rinderpest virus containing material, excluding vaccine stocks

1. African Union Pan African Veterinary Vaccine Centre (AU-PANVAC), Debre-Zeit, **Ethiopia**.
2. Centre de coopération internationale en recherche agronomique pour le développement (CIRAD), Montpellier, **France**
3. China Institute of Veterinary Drug Control/China Veterinary Culture Collection Center (IVDC), Beijing, **China**
4. High Containment Facilities of Exotic Diseases Research Station, National Institute of Animal Health, Kodaira, Tokyo, **Japan**.
5. USDA-APHIS, Foreign Animal Disease Diagnostic Laboratory (FADDL), Plum Island, New York, **United States of America**.
6. The Pirbright Institute, **United Kingdom**.

B) Rinderpest Vaccine Holding Facility for storing only manufactured vaccines, vaccine stocks and material solely for their production

1. Pan African Veterinary Vaccine Centre African Union (AU-PANVAC), Debre-Zeit, **Ethiopia**
2. Building for Safety Evaluation Research, Production Center for Biologicals, National Institute of Animal Health, Tsukuba, Ibaraki, **Japan**.
3. Centre de coopération internationale en recherche agronomique pour le développement (CIRAD), Montpellier, **France**
4. China Institute of Veterinary Drug Control/China Veterinary Culture Collection Center (IVDC), Beijing, **China**

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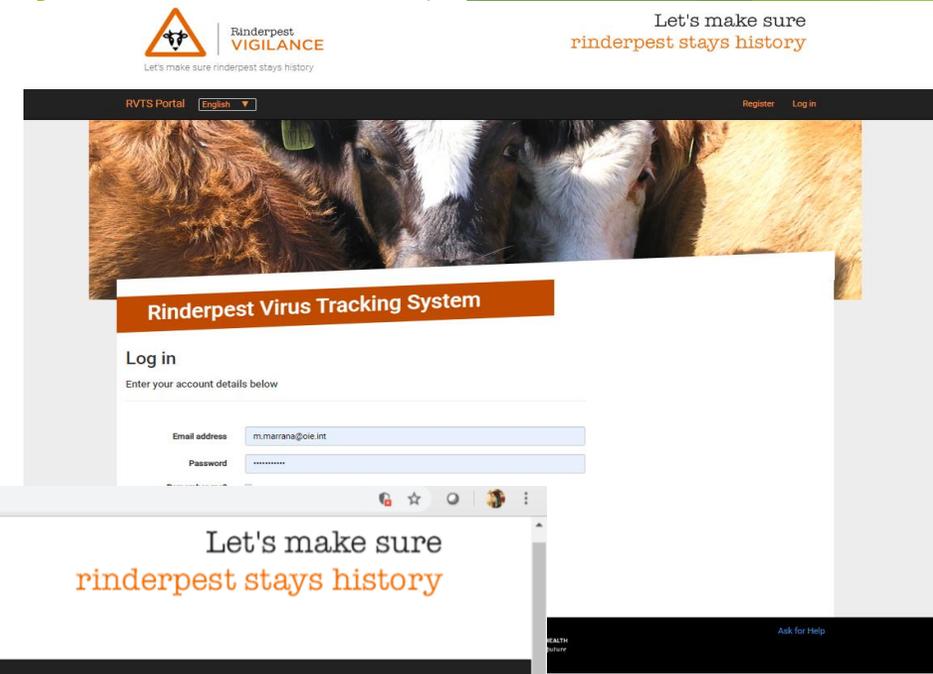


Global Rinderpest Action Plan

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Rinderpest Virus Tracking System

- ▶ Rinderpest Virus Tracking System
- ▶ Launched in 2018
- ▶ For OIE Members and RHF's to report on inventories annually



A screenshot of the Rinderpest Virus Tracking System inventory page. The page displays the Rinderpest VIGILANCE logo and tagline. Below the logo is a navigation bar with "RVTS Portal", "Inventory", "Annual Report", "ERRS", and "Admin". The user is logged in as "m.marrana@oie.int". The main content area is titled "Inventory" and "RHF List". It contains a table with the following data:

Name	Category	Country	Biosafety Level
AU-PANVAC	(A) (B)	ETHIOPIA	3
NIAH:National Reference Laboratory	(A)	JAPAN	3
USDA-APHIS (FADDL)	(A)	UNITED STATES OF AMERICA	3
The Pirbright Institute	(A)	UNITED KINGDOM	4
NIAH: Biological Research	(B)	JAPAN	2
CIRAD: Centre de coopération internationale en recherche agronomique pour le développement	(A)	FRANCE	3
China Institute of Veterinary Drug Control	(A) (B)	CHINA (PEOPLE'S REP. OF)	3

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3. Remaining challenges in the post-eradication era

Current challenges

Countries holding rinderpest virus:

- Five countries in two regions still holding rinderpest virus outside designated RHF

RHF:

- Too many RHFs and more countries interested in applying
- Large virus holdings in RHFs

Vaccine reserves:

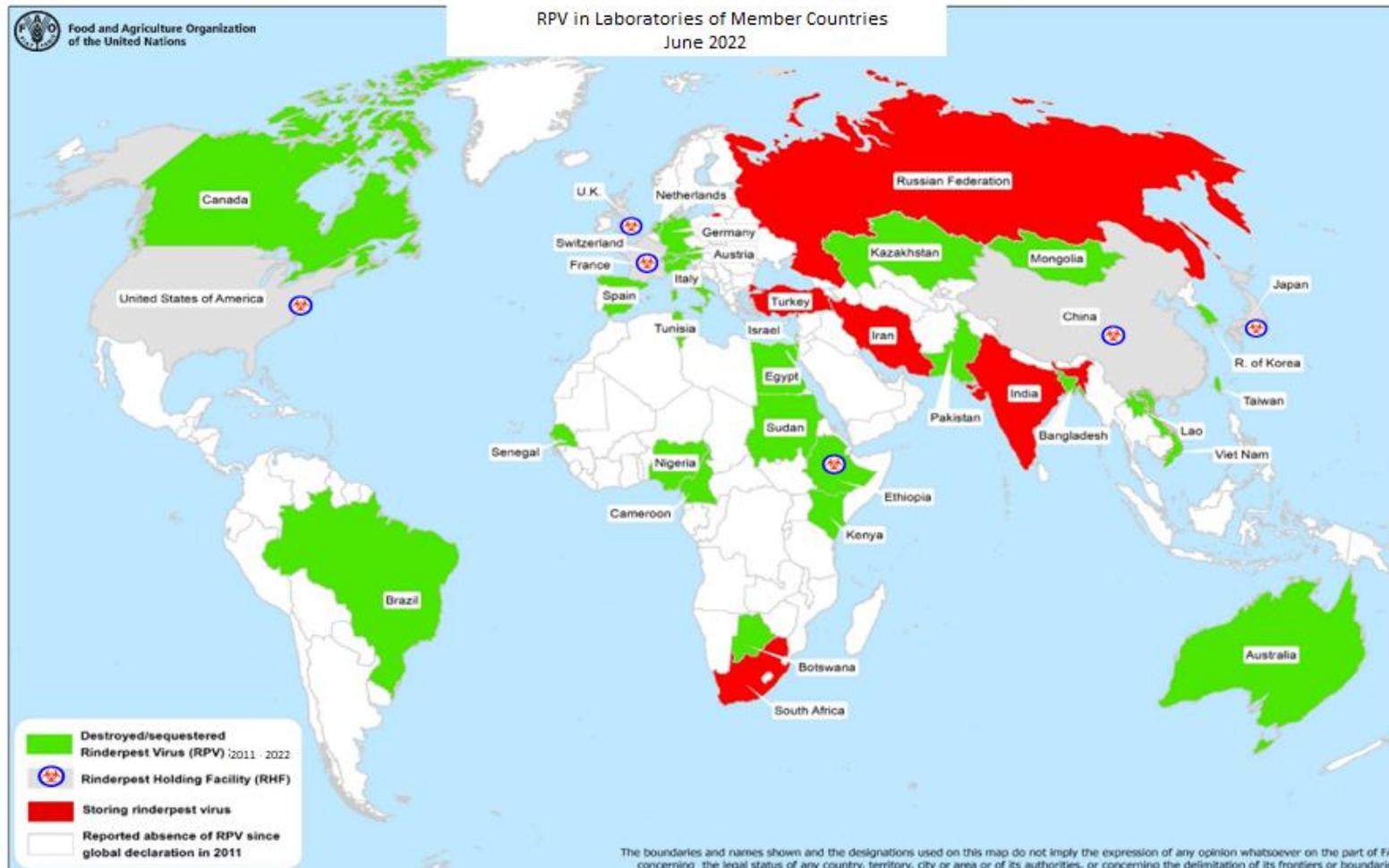
- Vaccine stockpile not enough & mostly outdated

Diagnostic capabilities:

- Inadequate non-infectious diagnostic kits for emergency response

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5 countries left holding rinderpest virus outside designated RHF

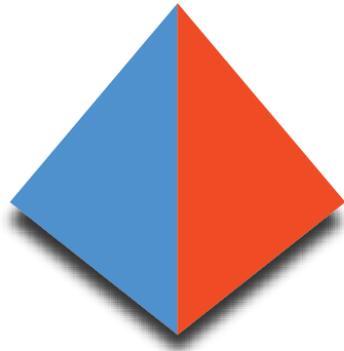


Acknowledgements

- ▶ FAO and WOAHA regional offices
- ▶ FAO country offices
- ▶ Joint advisory committee members
- ▶ Regional and continental organizations
- ▶ National and HQ technical consultants and support staff

- ▶ **Development partners:**
 - ▶ The Defense Threat Reduction Agency (DTRA) of the United States Department of Defense (DoD), USA
 - ▶ WMD Threat Reduction Program - Global Affairs Canada
 - ▶ Government of Japan Cooperative Programme
 - ▶ European Union

Thank you.



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