



Food and Agriculture
Organization of the
United Nations



World Organisation
for Animal Health

8TH ANNUAL MEETING OF THE PPR GLOBAL RESEARCH AND EXPERTISE NETWORK (PPR-GREN)

25 – 27 NOVEMBER 2025 QINGDAO, CHINA



中华人民共和国农业农村部

Ministry of Agriculture and Rural Affairs of the People's Republic of China



中国动物卫生与流行病学中心
China Animal Health and Epidemiology Center

A GF-TADS initiative for
PPR control



GF-TADS
GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



Atypical Hosts and Wildlife Thematic Groups

PPR Global Research & Expertise Network (PPR-GREN)
Vienna, Austria, April 2018



- The **Wildlife Hosts Thematic Group** was one of the original PPR GREN thematic groups identified at the inaugural meeting at IAEA, April 2018.
- The **Atypical Hosts Thematic Group** was established during the 2nd PPR-GREN meeting in November 2019.
- Both the Groups were merged as Wildlife & Atypical Hosts Group at 7th PPR-GREN meeting in Abu Dhabi

Atypical Hosts and Wildlife thematic group

Objectives

- **Determine the susceptibility and role of wildlife and atypical hosts**
Assess which species can be infected, develop disease, or contribute to PPRV maintenance and transmission.
- **Identify potential susceptible species and spillover pathways**
Investigate whether wildlife or non-traditional hosts are susceptible/maintain the virus or facilitate virus movement between populations.
- **Strengthen surveillance at wildlife–livestock interfaces**
Develop and promote harmonized methods for sample collection, diagnostics, and reporting in multi-species settings.
- **Generate scientific evidence to guide global PPR eradication**
Provide data that supports risk assessments, control planning, and policy-making beyond sheep and goats.
- **Identify research gaps and set priorities**
Highlight areas needing further study—pathogenesis, species susceptibility, contact networks, and ecological drivers of PPRV circulation to describe PPR epi-systems.

Atypical Hosts and Wildlife thematic groups

Role as a platform:

- Knowledge exchange
- Priority setting of research
- Development, standardization and adoption of diagnostic tools and methods

Engagement of diverse stakeholders:

- Researchers & Academics
- Livestock & Wildlife Authorities
- National & International Organizations
- Wildlife Conservation Sector



PPR Wildlife/Livestock Interface Meeting,
Nairobi, Kenya (AU-IBAR) October 2025

The Research Landscape Before PPR-GREN

- **Fragmented efforts:** Isolated and regional studies without coordination
- **Limited data on:**
 - Atypical hosts: camels, cattle, buffalo, pigs, wildlife
 - Wildlife–livestock interfaces
- **Challenges faced:**
 - Lack of harmonized diagnostic protocols
 - Inconsistent study designs
 - Data silos – limited sharing across countries and institutions
 - Weak cross-sectoral collaboration (veterinary, wildlife, academia)

Research Advancements After PPR-GREN

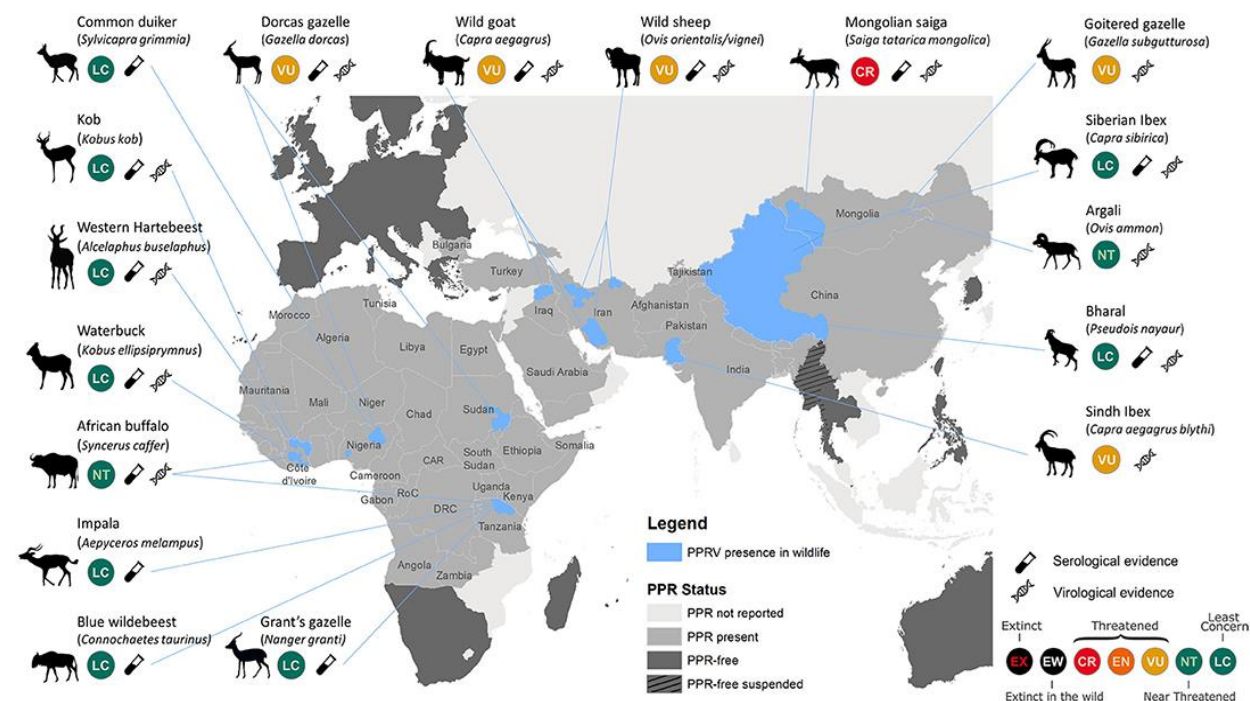
• Coordinated research:

- Multi-country studies on atypical hosts and wildlife
- Cross-sectoral collaboration (Nairobi meeting)

• Improved understanding of:

- Viral transmission at wildlife–livestock interfaces
- Seroprevalence and risk assessment in non-traditional hosts

Eradication of Peste des Petits Ruminants Virus and the Wildlife-Livestock Interface



Publication:

<https://www.frontiersin.org/articles/10.3389/fvets.2020.00050/full>

Research Advancements After PPR-GREN

- **Data and outputs:**

- Increased number of peer-reviewed publications and collaborative studies
- Contributions by academic and research institutions

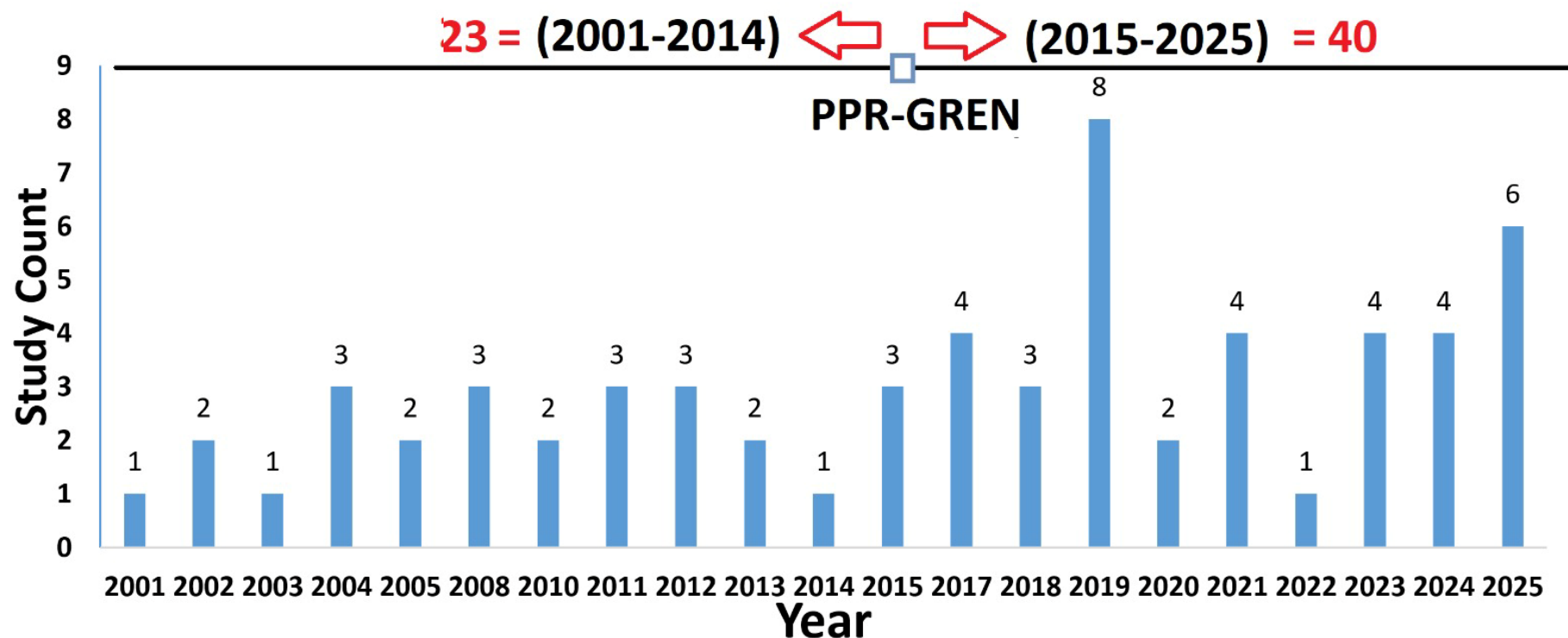
- **Strengthened diagnostic capacity:**

- Harmonized protocols
- Assessment of application of diagnostic tools for multiple species

- Wildlife included in PPR GEP blueprint
- Wildlife expertise represented on PPR GEP Advisory Committee



Publication Count in PPR prevalence in Atypical Hosts & Wildlife



Before vs. After PPR-GREN

Aspect	Before PPR-GREN	After PPR-GREN
Research Focus	Scattered, livestock-focused	Coordinated, includes wildlife & atypical hosts
Diagnostics	Non-standardized, limited tools	Harmonized, improved & validated diagnostics
Collaboration	Minimal cross-sector engagement	Multi-stakeholder, cross-sector collaboration
Capacity	Uneven across countries	Enhanced through shared Publications & protocols
Policy Influence	Limited uptake of research	Research increasingly informs policy



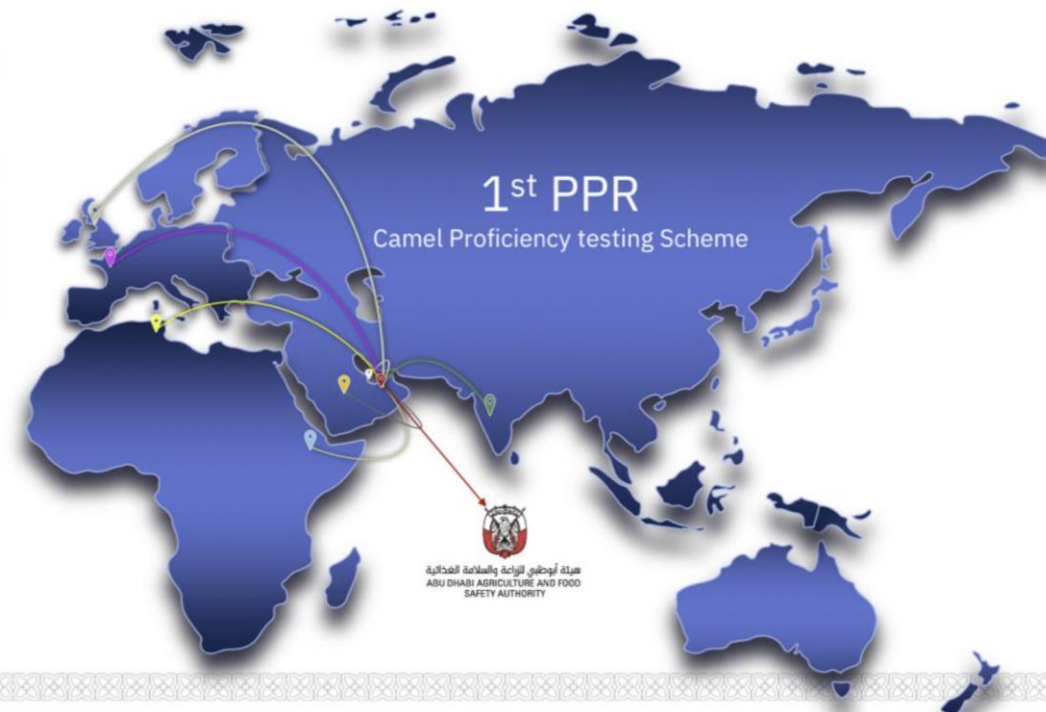
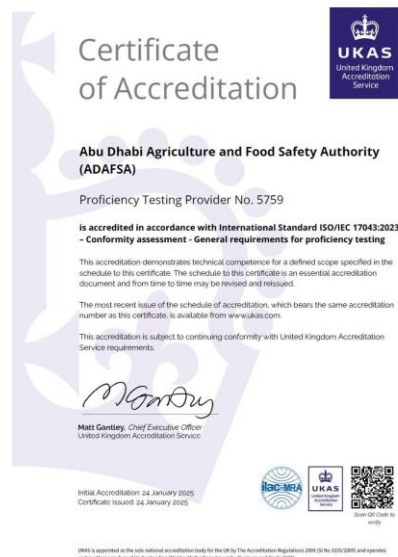
a 1ST Proficiency test (PT) for PPR-Antibodies Proficiency Test (PPR-Ab PT) scheme in camels



هيئة أبوظبي للزراعة والسلامة الغذائية
ABU DHABI AGRICULTURE AND FOOD
SAFETY AUTHORITY



**Abu Dhabi Agriculture and Food
Safety Authority (ADAFSA), the
WOAH collaborating center for
camel diseases**



**1st & 2nd PPR-Antibodies Proficiency Test (PPR-
Ab PT) scheme in camels in 2024 & 2025**
included participation of eight international
laboratories (Bahrain – France – United Kingdom
(UK) – India – Qatar – Oman – Ghana – Senegal).

Challenges and Remaining Gaps

- Continued lack of long-term surveillance in wildlife
- Difficulty accessing wildlife populations and sample collection
- Need for more intersectoral frameworks at national level
- Inconsistent funding for wildlife and atypical host research
- Data sharing and open-access publication barriers

Future priorities

- Expand coordinated surveillance in high-risk wildlife–livestock interfaces
- Develop sampling and diagnostic approaches applicable for more species
- Strengthen One Health collaborations at national and global levels
- Policy integration: Ensure findings are reflected in control strategies
- Capacity building: Focus on Training and research support, and infrastructure support in endemic regions



Thank you for Listening

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