



A Case Study from the Philippines:

Good Practices in Access and Benefit Sharing

Asia Pacific Quadripartite Webinar Series 2
December 6, 2024





History

- ▶ **1992** The Philippines is one of the earliest signatories of the Convention on Biological Diversity
- ▶ **1993** 31st state to ratify the CBD by the senate of the Philippines
- ▶ **1995** Regulating bioprospecting activities through Executive Order No. 247
- ▶ **2015** The Philippines acceded to the Nagoya Protocol



Minimum Terms and Conditions for Research Agreements

Bioprospecting and Benefits Sharing

1. Equitable sharing: Government, communities, researchers
2. Equity for technology/product development
3. Royalties, benefits, and technology will be transferred to the Philippines
4. Research equipment donated to government agencies

Case study: A collaboration project between the Philippines and China



**Department of Agriculture
Bureau of Animal Industry**



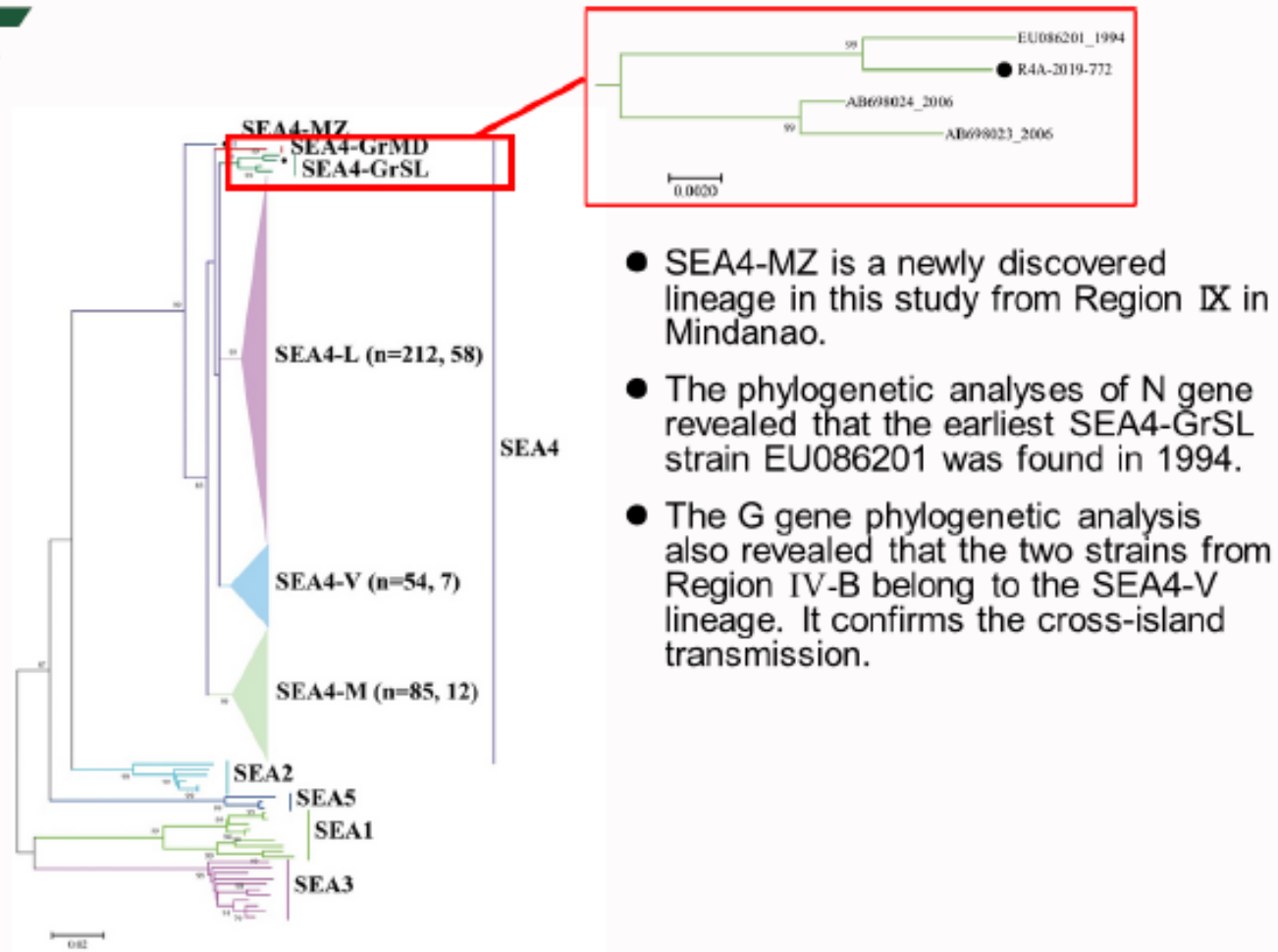
**Changchun Veterinary Research Institute
WOAH Reference Laboratory**



Epidemiology, Evolutionary Dynamics and Phylogenetic Analysis of Rabies Virus in the Philippines

- 353 whole genomes of RABVs between 2018-2022
- Established FTA card protocol
- Phylogenetic analysis
- Intra-island vs inter-island transmission patterns

Phylogenetic Analysis



- SEA4-MZ is a newly discovered lineage in this study from Region IX in Mindanao.
- The phylogenetic analyses of N gene revealed that the earliest SEA4-GrSL strain EU086201 was found in 1994.
- The G gene phylogenetic analysis also revealed that the two strains from Region IV-B belong to the SEA4-V lineage. It confirms the cross-island transmission.

Fig 1. N gene tree of RABVs in the Philippines. (353 Philippine sequences from our study, 81 Philippine sequences from publications and 29 reference sequences from GenBank)

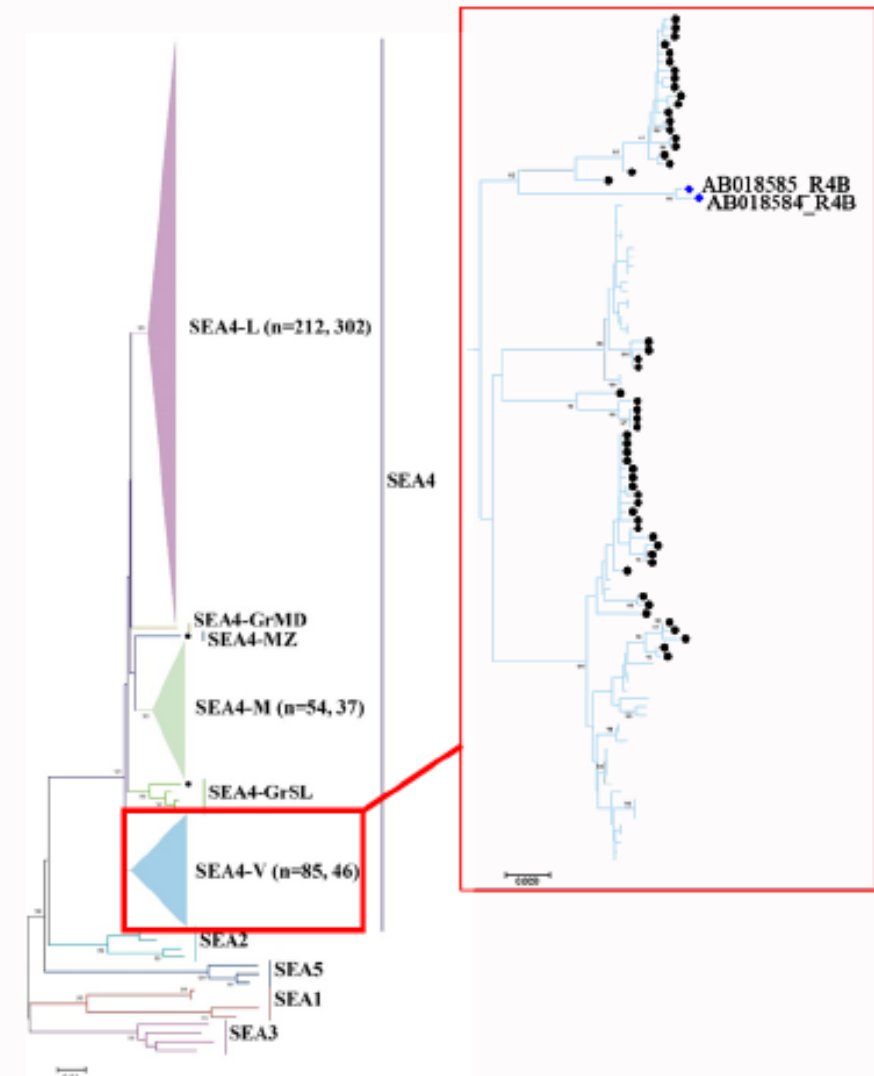
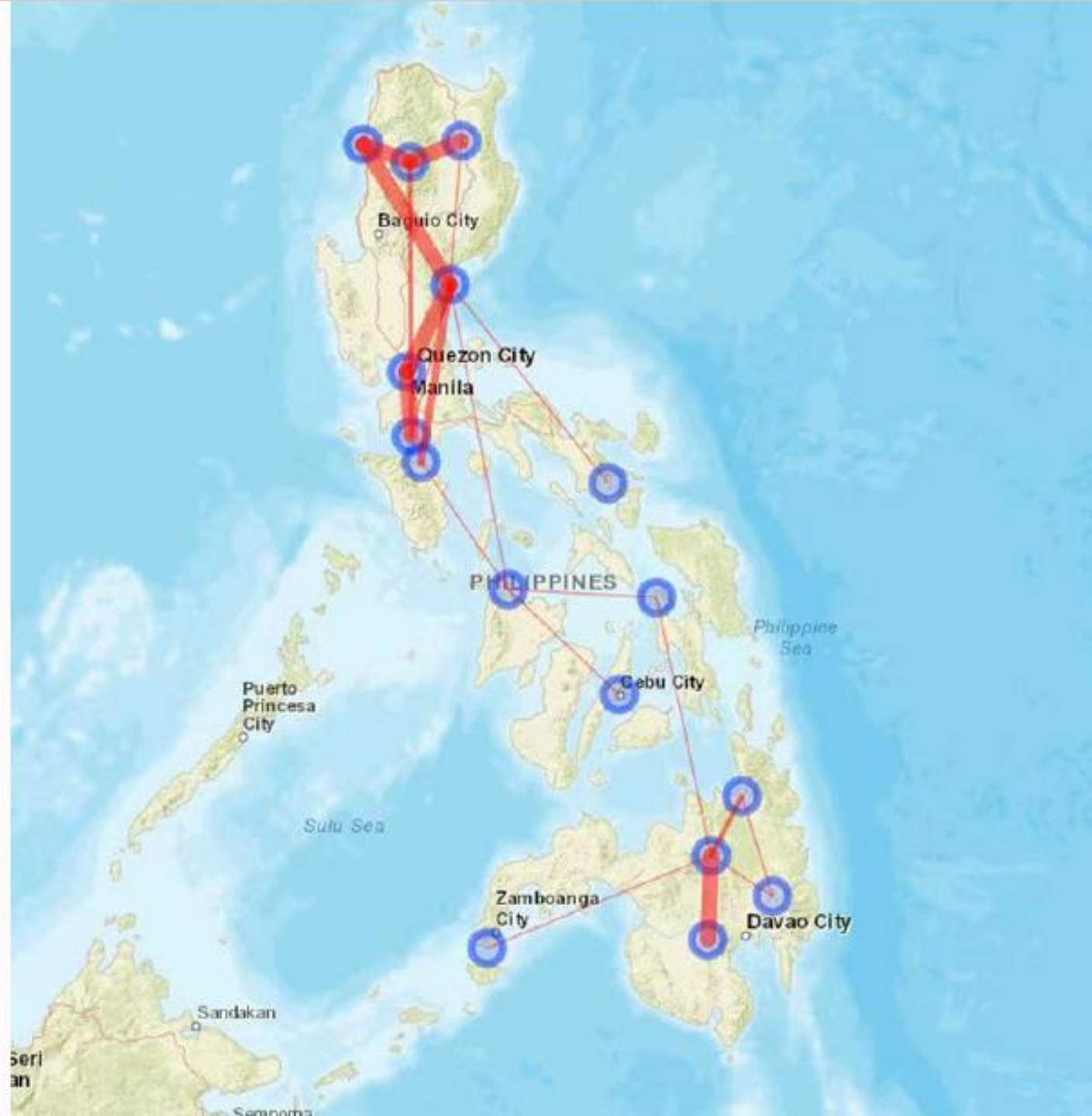


Fig 2. G gene tree of RABVs in the Philippines. (353 Philippine sequences from our study, 389 Philippine sequences from publications and 15 reference sequences from GenBank)

Intra-island vs inter-island transmission patterns



CHALLENGES

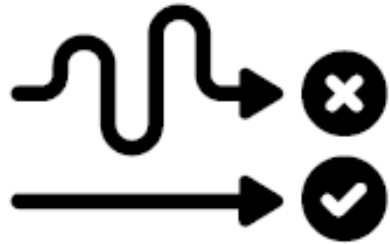


Delays in
Bureaucratic
Approvals



Lack of awareness
of BD Act and its
provisions

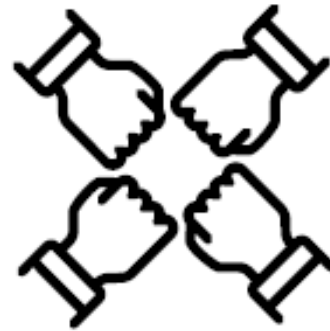
FINAL REFLECTION



Simplify and
streamline
ABS
regulations



Enhance
awareness
and capacity
building



Strengthen
institutional
capacity





Revise
existing
regulations




THANK YOU

JEFFREY L. CRUZ, DVM

 +63-935-613-7648

 jeffreylopezcruz@gmail.com

 5C Visayas Avenue, Diliman,
Quezon City, Philippines 1101

