Borderless Wild Bird Movement

Greatly Increases H5N1 Infection Risk Across the Globe

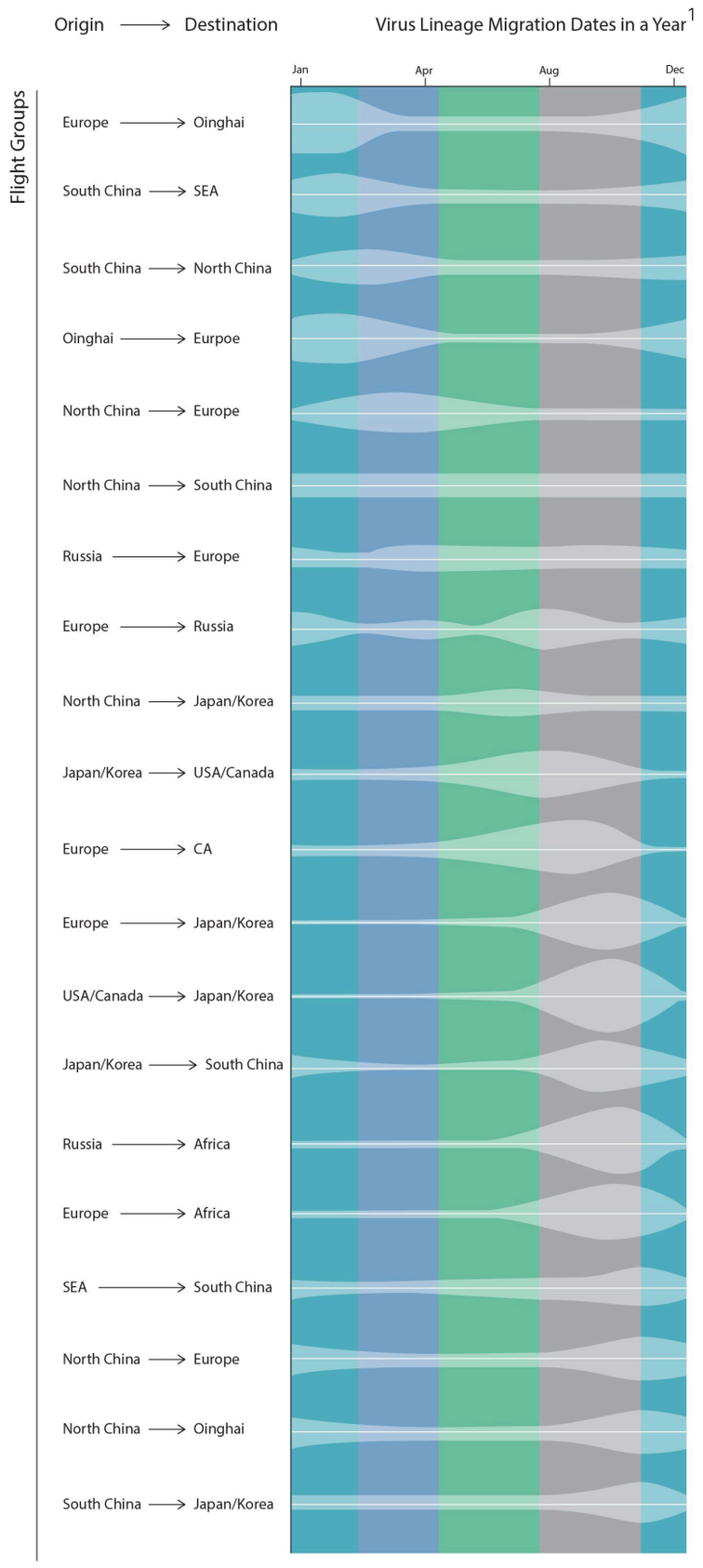
Rapid, field-deployable Avian Influenza testing for **commercial poultry operations** and **wild bird surveillance teams.**[2]

The Problem

- 83% of recent H5N1 poultry outbreaks in the US alone traced to wild-bird introduction.[3] Globally, poultry outbreaks continue to be reseeded from wild birds.
- Frequent spillover of H5N1 to terrestrial and marine mammals can be associated with wild birds, including the spread to dairy cattle in the US.[4]
- Outbreaks across species have had a significant economic impact globally on trade, food inflation, and operational reimbursement after mass cullings.[5]
- Status quo creates delays from sample collection to detection hindering rapid biosecurity and containment responses.

The Solution: Alveo Sense Avian Influenza Test

- Molecular results in the field in under 60 minutes
- **Dual-site sampling (Oropharyngeal and Cloacal)** ensures changing virus shedding behavior in the host is still detected
- Geo-tagged and cloud **connected data** feeds secure centralized reporting in real time to amplify mapping efforts of authorities



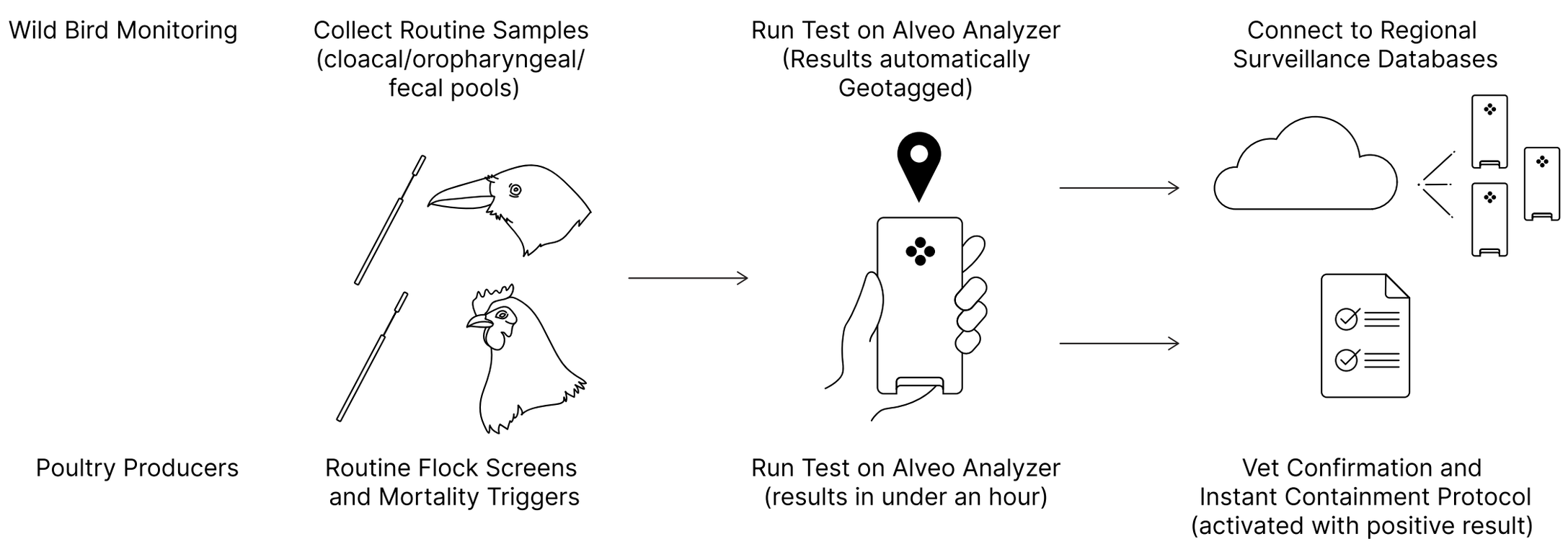
Migratory bird patterns can be attributed to **the spread of H5N1 on commercial operations**.

With Alveo Sense Poultry Avian Influenza Test, wild bird monitoring operations in collaboration with commercial farms can be informed when outbreaks exist in real-time and respond in real time.

Know sooner. Act Faster™

"Virological surveillance should be conducted in wild birds and poultry (vaccinated and non-vaccinated), to support identification of HPAI virus infections for assessing successfulness of control programs and any detected viruses should undergo further evaluation.

Recommendation from The International Alliance for Biological Standardization (IABS), in collaboration with the World Organization for Animal Health (WOAH)"



Product Specifications (Poultry)

Technology	Proprietary Nucleic Acid Amplification Test (NAAT)	
	Oropharyngeal LoD:	Cloacal LoD:
H5N1	488 copies/µL OR CT 33.0	738 copies/µL OR CT 30.6
H7*	5130 copies/µL OR CT 29.0	7413 copies/µL OR CT 28.5
H9**	922 copies/µL OR CT 31.6	922 copies/µL OR CT 31.6
Run time	>60 min	
Power	battery/USB-C	
Data	encrypted, cloud or offline sync	

[1] Yang, Q., Wang, B., Lemey, P. et al. Synchrony of Bird Migration with Global Dispersal of Avian Influenza Reveals Exposed Bird Orders. Nat Commun 15, 1126 (2024).

[2] Alveo Sense Poultry Avian Influenza Test has not been validated on wild bird populations. Use of the product for wild bird monitoring is recommended for research use only.

[3] Center for Epidemiology and Animal Health. (2023). Epidemiologic and other analyses of HPAI-affected poultry flocks: 1 June 2023 Interim Report. U.S. Department of Agriculture, Animal and Plant Health Inspection Service. https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/animal-diseaseinformation/avian/avian-influenza/hpai-home/hpai

[4] Peacock, T.P., Moncla, L., Dudas, G. et al. The global H5N1 influenza panzootic in mammals. Nature 637, 304–313 (2025). https://doi.org/10.1038/s41586-024-08054-z

[5] Economists tackle estimating consumer effects following the loss of billions of birds and eggs lost to Avian influenza. (n.d.). Arkansas Agricultural Experiment Station. https://aaes.uada.edu/news/bird-flu-analysis/

*A-FIN-000037: Alveo Sense Avian Influenza Test Type A, H5, H7

**A-FIN-000031: Alveo Sense Avian Influenza Test Type A, H5, H9

Product Availability Disclaimer: This product is not available for sales or distribution in the United States. Availability of Alveo Sense Avian Influenza Test is subject to local regulatory approvals and may vary by country. The test has not been validated on wild bird populations. Use of the product for wild bird monitoring is recommended for research use only. For inquiries regarding the availability of Alveo Sense Avian Influenza Test in your country, please contact our Customer Service team at support@alveotechnologies.com.