Wildlife Health Intelligence Network (WHIN)

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PIs & co-chairs of WHIN

- Mathieu Pruvot

    mpruvot@ucalgary.ca

- Sarah Olson

    solson@wcs.org

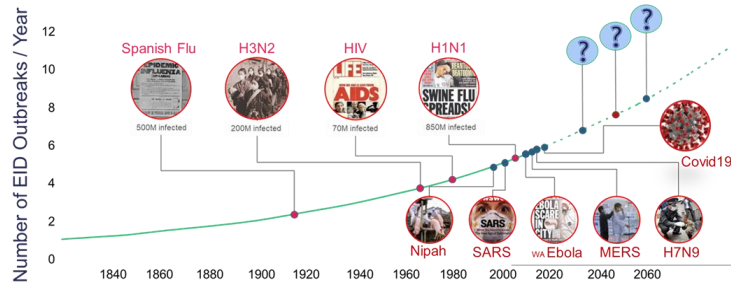WHIN, meeting in Rome 2024

Wildlife Health Surveillance

- One Health and Planetary Health
- Sustainable economies
- Food safety and security
- Wildlife conservation
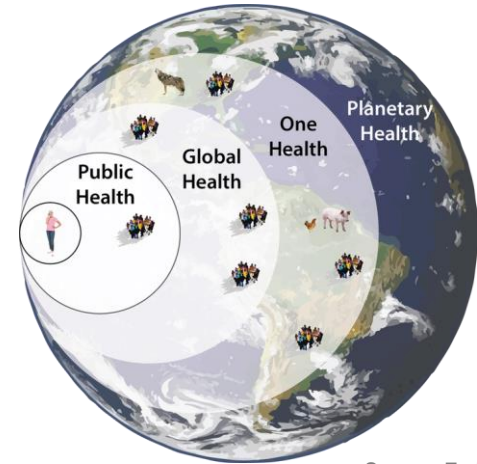
Source: Forbes

Allen et al. (2017) Nature Communications

Implementing global frameworks

Joint External Evaluation (JEE)

WHO Collaborative Surveillance

OIE WILDLIFE HEALTH FRAMEWORK
'PROTECTING WILDLIFE HEALTH TO ACHIEVE ONE HEALTH'

Quadripartite Memorandum of Understanding (MoU) signed for a new era of One Health collaboration

Quadripartite One Health Joint Plan of Action

Gaps in health security related to wildlife and environment affecting pandemic prevention and preparedness, 2007–2020

Catherine Machalaba,[a] Marcela Uhart,[b] Marie-Pierre Ryser-Degiorgis[c] & William B Karesh[a]

Among 107 countries:

58% — No evidence of functional wildlife health surveillance program

83% — Reported gaps in operations, coordination, scope, or capacity.

6% — Wildlife health or zoonotic disease activities in published a National Biodiversity Strategy and Action Plan

Barriers to implementation

- Political will
- Resources
- Data generation
- Standards
- Communication and coordination
- Competing interest

Addressing implementation gaps

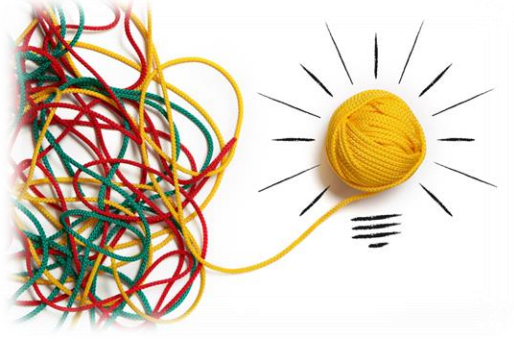## Wildlife Health Intelligence Network (WHIN)

WHIN meeting 2024 at FAO

WHIN meeting 2023 at WOAH

Emerging community of practice of wildlife health surveillance actors from local, national and global scales

Wildlife Health Intelligence Network (WHIN)

WHIN Vision

Every country has a structured and sustainable system to produce wildlife health intelligence

WHIN Core premise

Global wildlife health surveillance is bigger than one single institution

Solution: Cross-sectoral bottom-up engagement

Global
- International organization
- National organizations with international mandates

National
- National Laboratories
- National Parks & Preserves
- Universities

Ministerial
- Livestock, Forestry, Animal Health, Environment Departments & Ministries

Provincial
- Provincial Offices
- Wildlife Rescue Centers/Zoos

Local
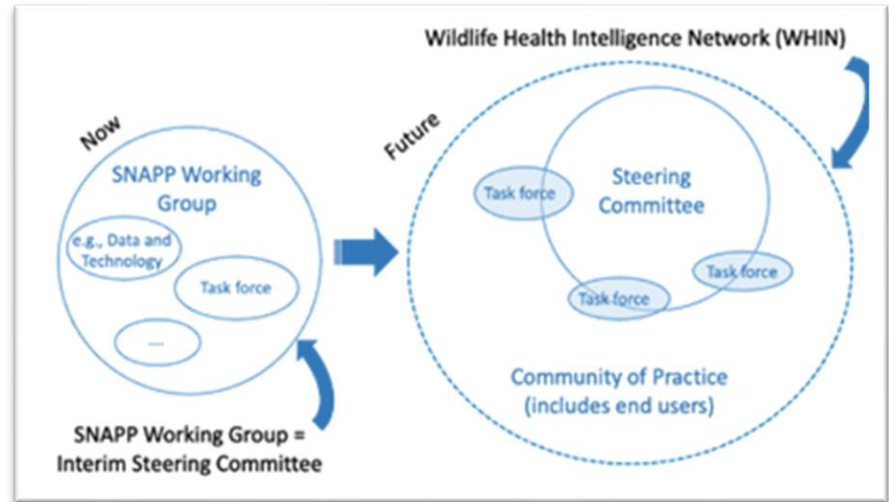- Community Members
- Local NGOs
- International NGOs

Environmental →

Animal Health →
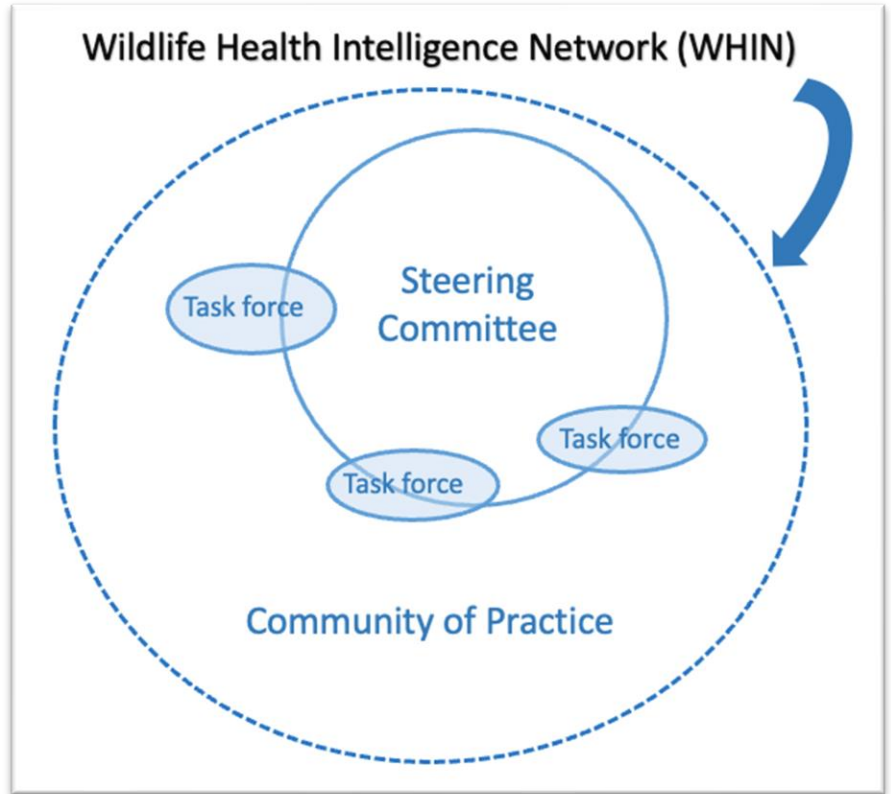
Human Health →

WHIN

Steering committee is a leadership subgroup that makes decisions on overall directions of WHIN

Task Forces are thematic subgroups established to take up particular activities.

WHIN Task forces

- Data
- Field Implementation and capacity
- Advocacy and Outreach
- Indigenous and Local Communities
- Standards and Guidelines
- User-driven knowledge synthesis

Wildlife Health Intelligence Network (WHIN)

Task force

Steering Committee

Task force

Task force

Community of Practice

WHIN Steering Committee

WHIN, meeting in Rome 2024

WHIN, meeting in Paris 2023

- Bernard Bett *(International Livestock Research Institute, OH Research, Education & Outreach Centre Africa)*

- Keren Cox-Witton (Wildlife Health Australia - WHA)

- François Diaz (WOAH)

- Damien Joly (Canadian Wildlife Health Cooperative)

- Susan Kutz (Department of Ecosystem and Public Health at the Faculty of Veterinary Medicine, University of Calgary)

- Nicholas Lyons (FAO)

- Oliver Morgan (WHO)

- Liz Paola Noguera Zayas (University of Calgary)

- Kim Pepin (US Department of Agriculture National Wildlife Research Center)

- Jonathan Sleeman (US Geological Survey National Wildlife Health Center)

- Sarin Suwanpakdee (Mahidol University, MoZWE)

- Marcy Uhart (Karen C. Drayer Wildlife Health Center One Health Institute, University of California, Davis)

- Kacey Yellowbird (Samson Cree Nation)

- Kevin Brown (Canadian Wildlife Health Cooperative)

- Claire Cayol (WOAH)

- Clare Death (WHA)

- Dina Saulo (WHO)

- Mathieu Pruvot (University of Calgary/WCS)

- Sarah Olson (Wildlife Conservation Society Health Program)

Theory of Change

(move forward on the different pathways of change)

Article

## Theory of Change for Building Stronger Wildlife Health Surveillance Systems Globally

Liz P. Noguera Z. [1,*], Carrie Kappel [2], Marcela M. Uhart [3,4], François Diaz [5], Claire Cayol [5], Keren Cox-Witton [6], Clare Death [6], Damien O. Joly [7], Kevin Brown [7], Emma G. Gardner [8], Sarin Suwanpakdee [9], Bernard Bett [10], Kim M. Pepin [11], Kacey Yellowbird [12], Dina Saulo [13], Oliver Morgan [13], Sarah H. Olson [14,†] and Mathieu Pruvot [1,14,†]

Preprint link

September 2024

Wildlife Health Intelligence Network (WHIN)

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Theory of Change

(move forward on the different pathways of change)

Noguera Z., et al (2024) Preprint Theory of Change for Building Stronger Wildlife Health Surveillance Systems Globally
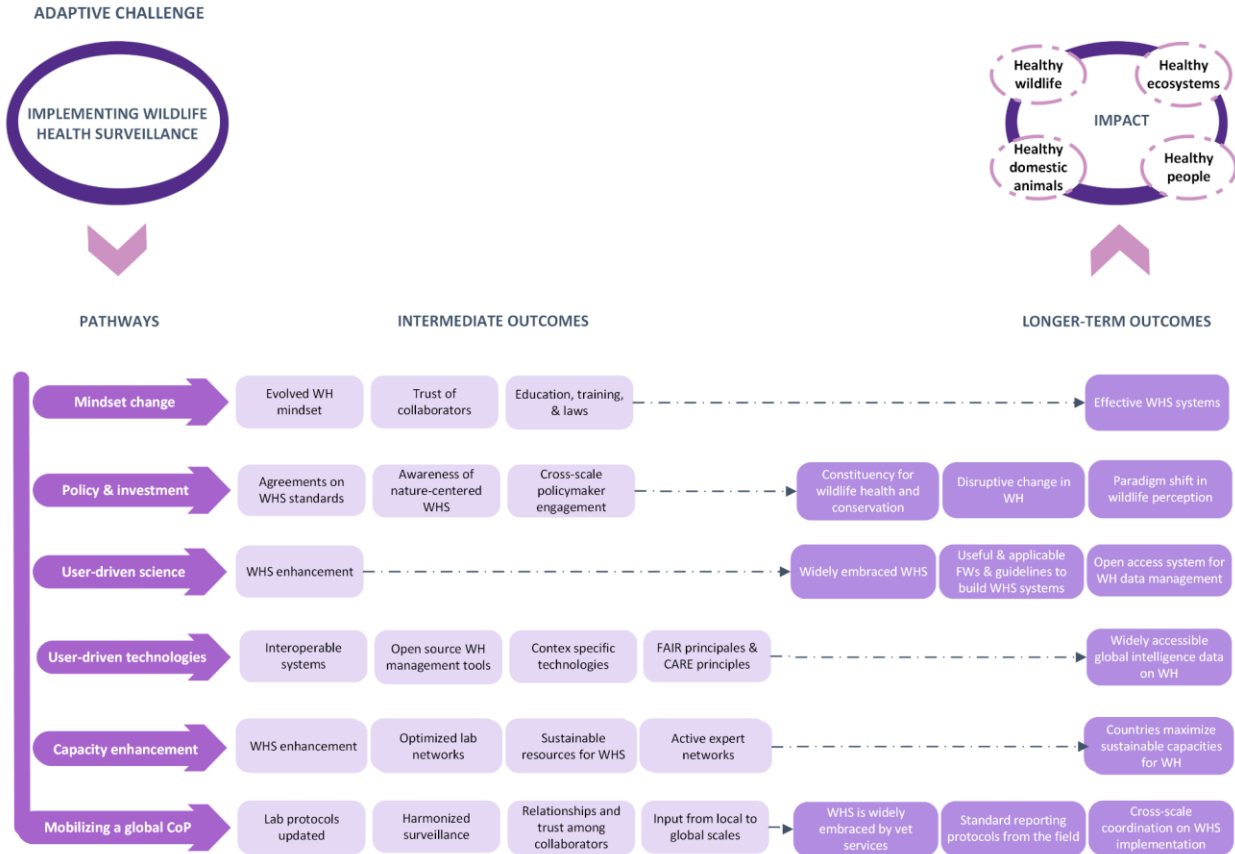
WHIN current activities
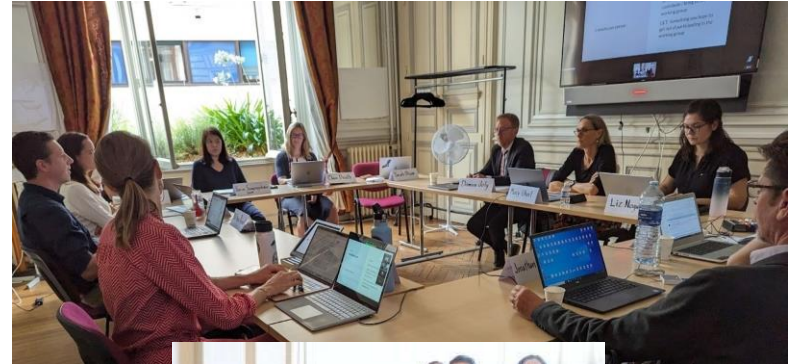
Working group participants on Zoom 2022

1) Decision tool for wildlife health surveillance objectives

2) Needs assessment tool

3) Building harmonized data model for wildlife health surveillance

4) Cost and benefits of WHS

5) Contributions of wildlife health to SDG

Wildlife Health Intelligence Network (WHIN)

September 2024

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In-person meetings

Rome, 2024 (at FAO)

Paris, 2023 (at WOAH)

Thanks!

- **Mathieu Pruvot**

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- **Sarin Suwanpakdee (Gam)**

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- **Liz P. Noguera Z.**

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Wildlife Health Intelligence Network (WHIN)

September 2024

WHIN Steering Committee

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