WildEpi: Advancing wildlife health information sharing

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Emergency, Preparedness and Resilience

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World Organisation for Animal Health
Founded as OIE

Organisation mondiale de la santé animale
Fondée en tant qu'OIE

Organización Mundial de Sanidad Animal
Fundada como OIE

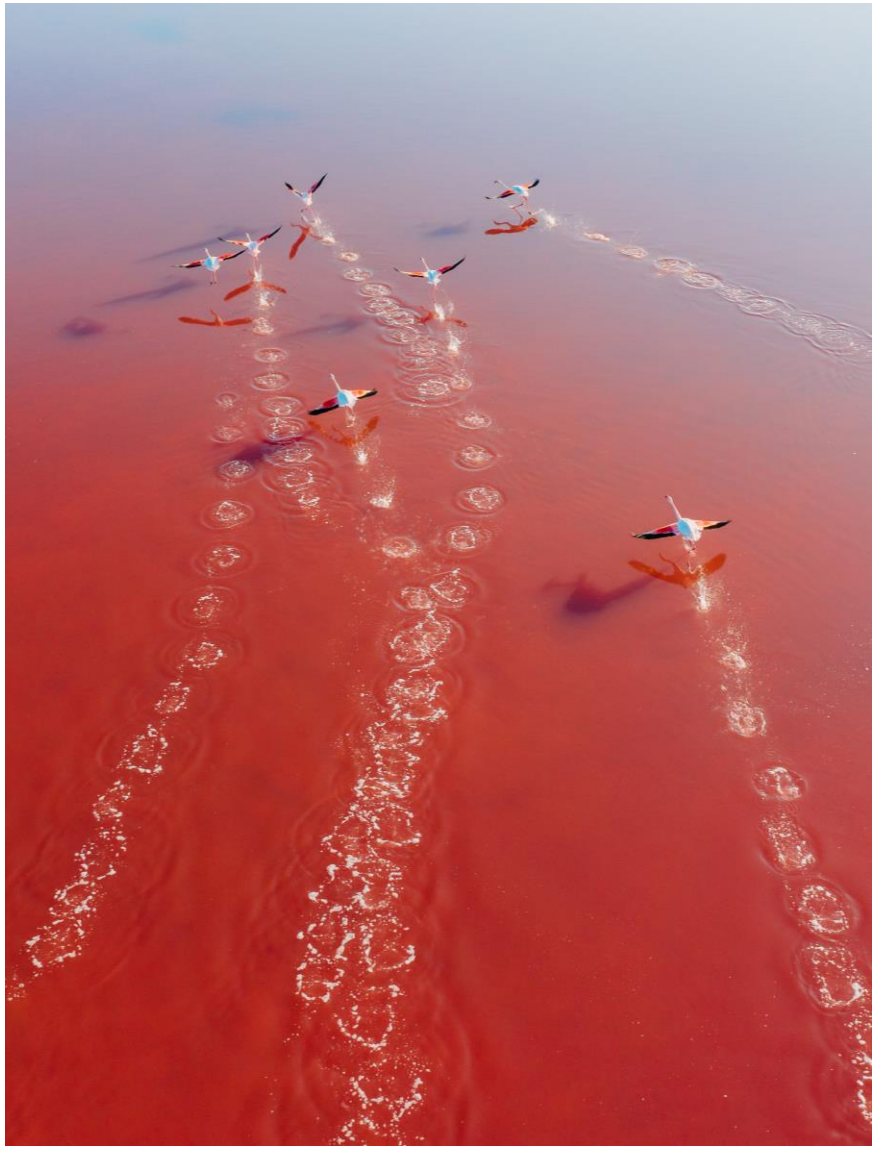




Problem statement

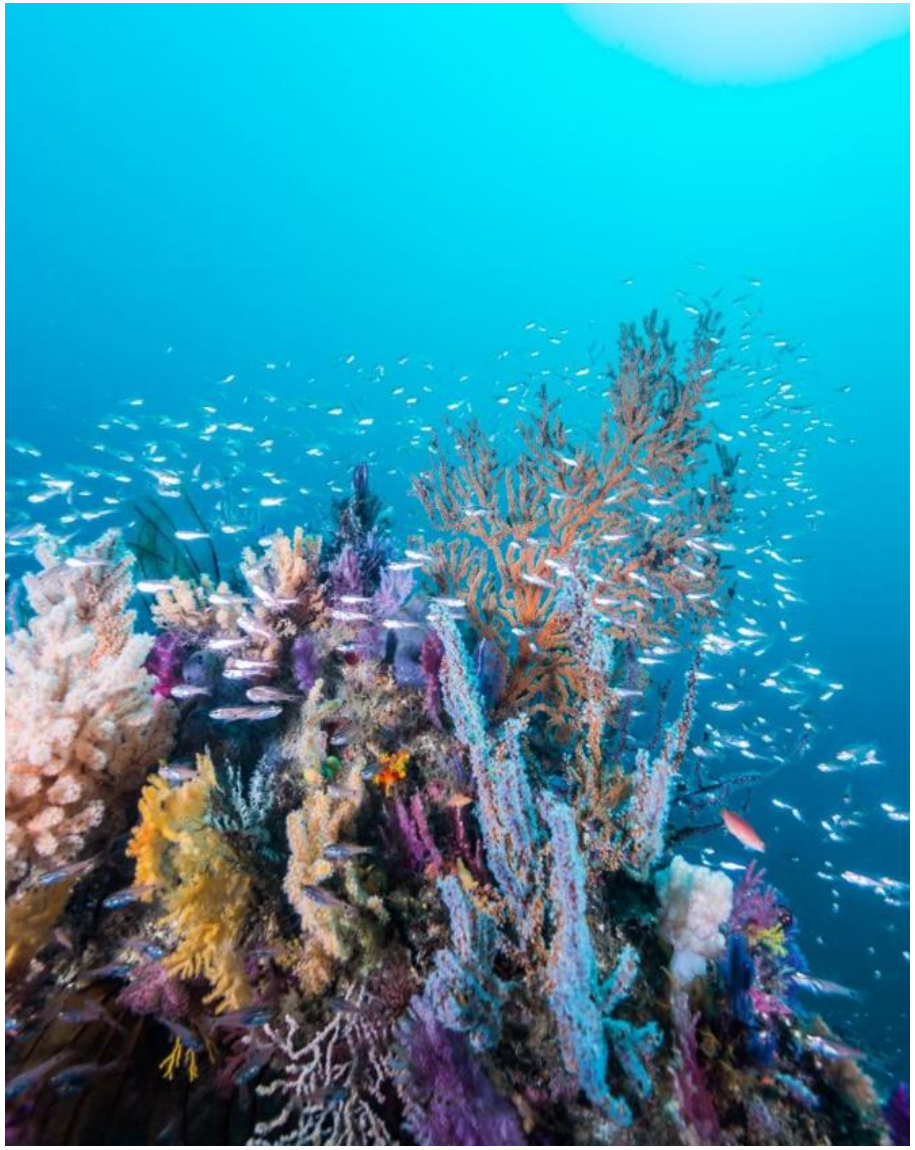
GLOBAL CONTEXT

- **Old and new health threats** at the human/domestic/wildlife interface
  - Emerging diseases require a system that collects information from new, emerging threats that are not yet listed
  - OH information sharing required
- **Biodiversity crisis**
  - Wildlife health often invisible
  - Wildlife health information is fragmented
- **WOAH's mandate** and engagements
  - Wildlife Health Framework and Strategy
  - Digitalisation (8th SP)
  - Epidemic intelligence (8th SP)



PROBLEM STATEMENT

- **Impediments** to wildlife disease reporting (2021 survey):
  - accessibility to existing data (does not flow through veterinary services),
  - lack of data generation,
  - challenges in assigning occurrence codes,
  - fears of reporting (reputational risks).
- **78%** of Members recognised the importance of information sharing on non-listed wildlife health topics
- **70%** of Members expressed a need for support for national wildlife health information



The need:

- A user-centric system for reporting ALL non-listed wildlife health events in real-time
- Adapted to wildlife health situations
- Increase wildlife health information flow at no extra cost for Veterinary Services, allowing OH data sharing
- Sustainability: User-friendly, simplicity → low training requirement



Introducing WildEpi

WHAT IS WildEpi?

Centralised and real-time wildlife health information sharing system readily accessible to **wildlife** and **One Health stakeholders, including but not restricted to VS**. User friendliness central to design.

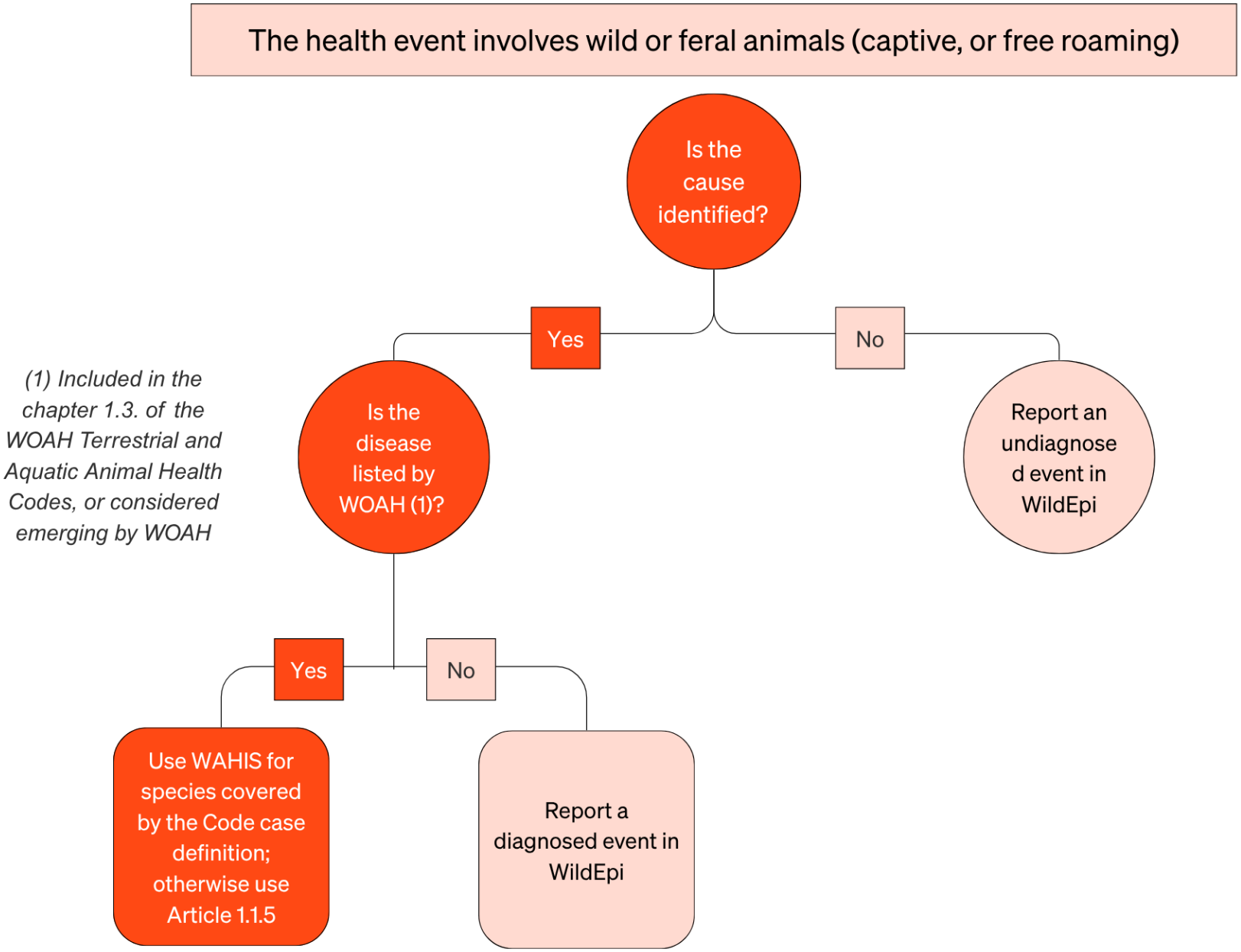
- *Global*
- *Collaborative (OH)*
- *Secure (SSO)*
- *Voluntary*
- *Decision-making oriented*





WildEpi **Complements** existing reporting paths to improve global animal disease intelligence.

Purposefully disconnected from WAHIS. Listed diseases blocked. Disconnected from Trade risk.



WHO CAN REPORT IN WildEpi?

Community of users

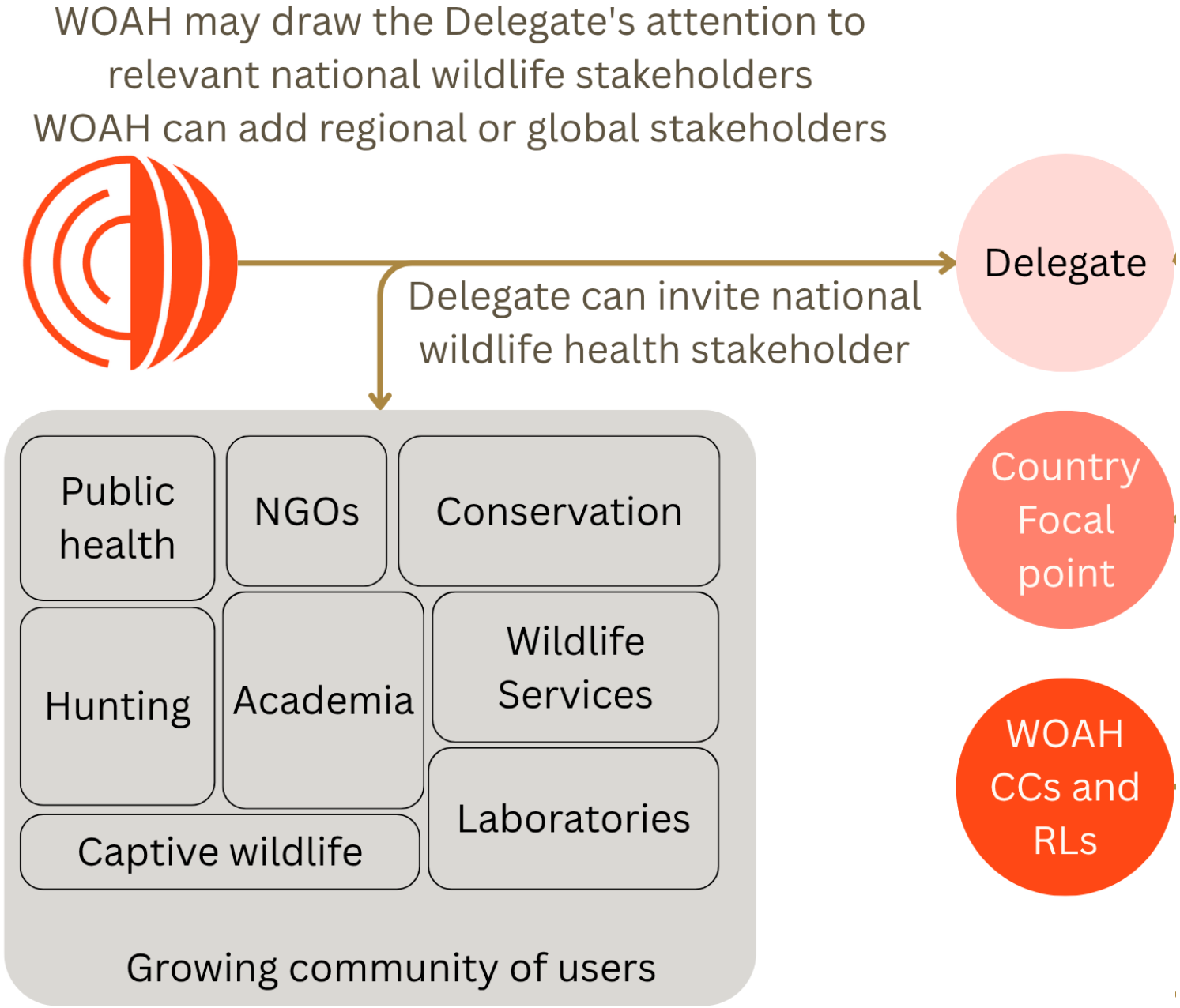
- WOAH **Delegates: can invite national wildlife health contributors**
  - Increased OH collaboration with wildlife health sector, maintain data quality
- WOAH FPs
- WOAH Collaborating Centres and Reference Laboratories
- WOAH: **can invite regional or global contributors**
- Data visible: To the community of Users (not to the general public for now)



WHO CAN REPORT IN WildEpi?

Community of data providers

Increased OH networking at National level

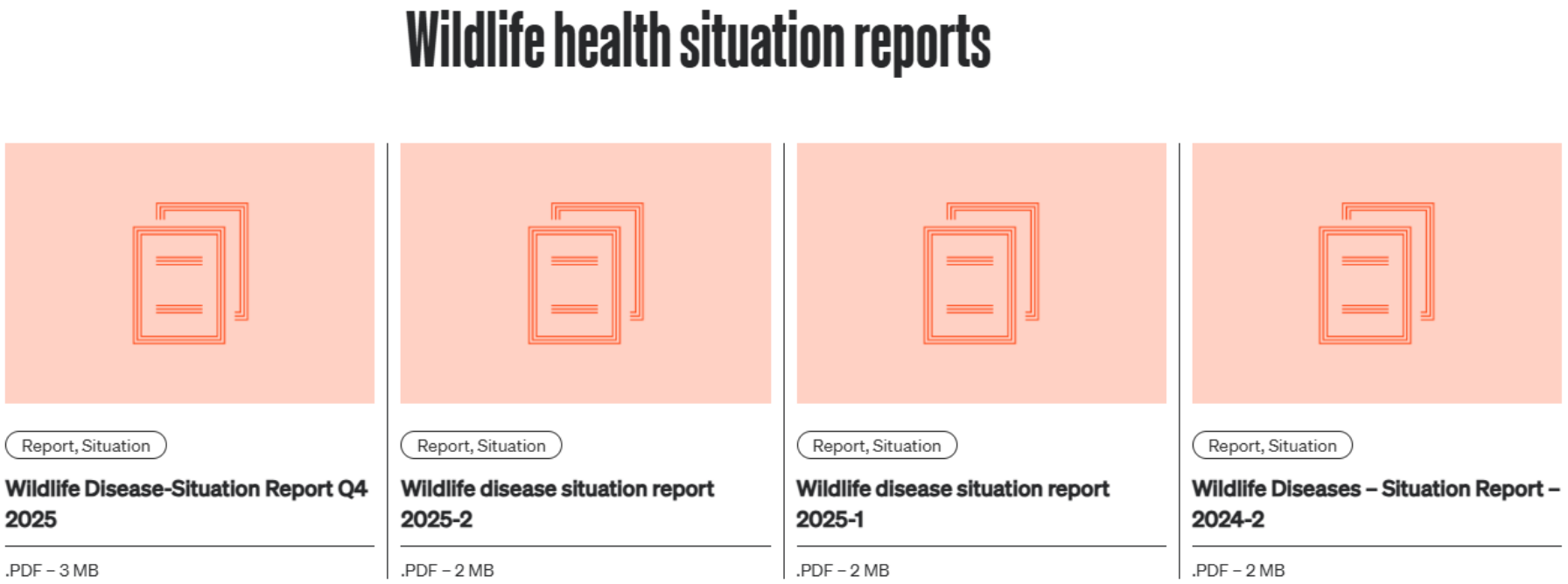


HOW WILL DATA BE USED?

WildEpi

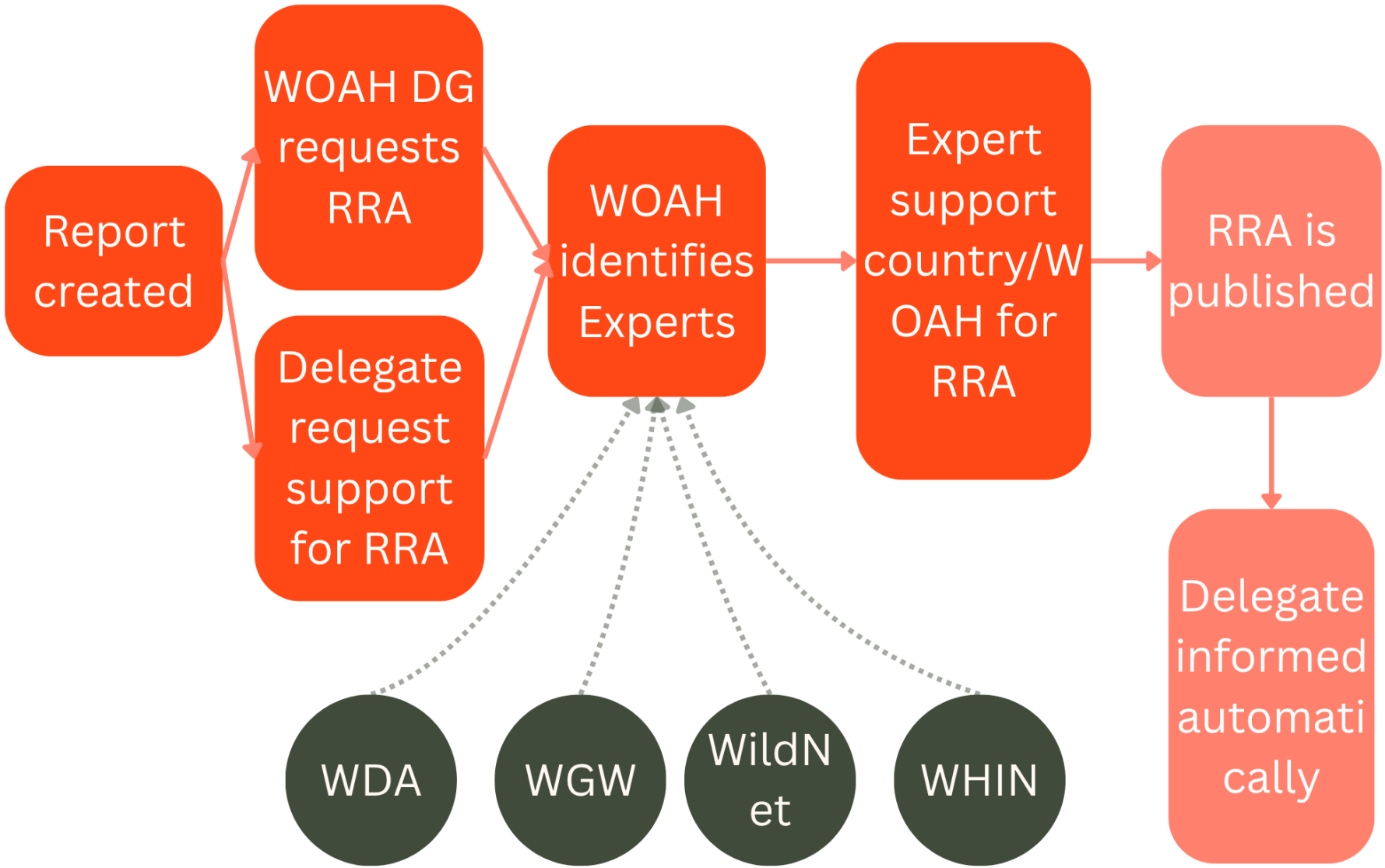
USE OF THE DATA

- Integrate data for improved assessment of animal health
- Contribute to situation report (DIAD, ongoing)
- Support national decision-making through Rapid Risk Assessments



HOW CAN WildEpi SUPPORT YOUR RISK ASSESSMENT?

Delegates or WOAH DG can request support for Rapid Risk assessment



Where to find the information?

World Organisation for Animal Health

The State of the World's Animal Health | Animal Diseases | 93rd General Session | SEARCH

WHO WE ARE | WHAT WE DO | WHAT WE OFFER | MEDIA | WAHIS



Wildlife Health

Wildlife co-exists alongside humans and domestic animals. Wildlife populates ecosystems across the planet, whether it be in the seas, or roaming freely across forests and savannahs. Each species contributes to the balance of the ecosystem they live in. The health of wildlife is deeply entwined with the health of other animals, the environment and even humans. By protecting wildlife health, we safeguard biodiversity- and invest in a healthier, more sustainable future.

Overview | Our Action | Global Situation | International Collaboration | Professional Guidance | Resources

How to share information on wildlife

shop | EN FR ES

SEARCH

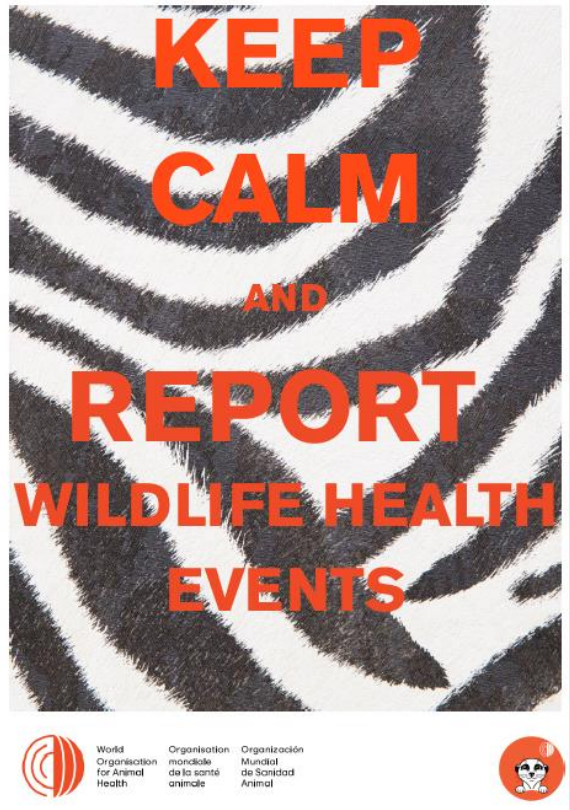
WAHIS

3



Challenges and solutions

Technical and sustainability challenges



Wildlife field reality: field condition, low connectivity

- App [iOS and Android]
- No connection option

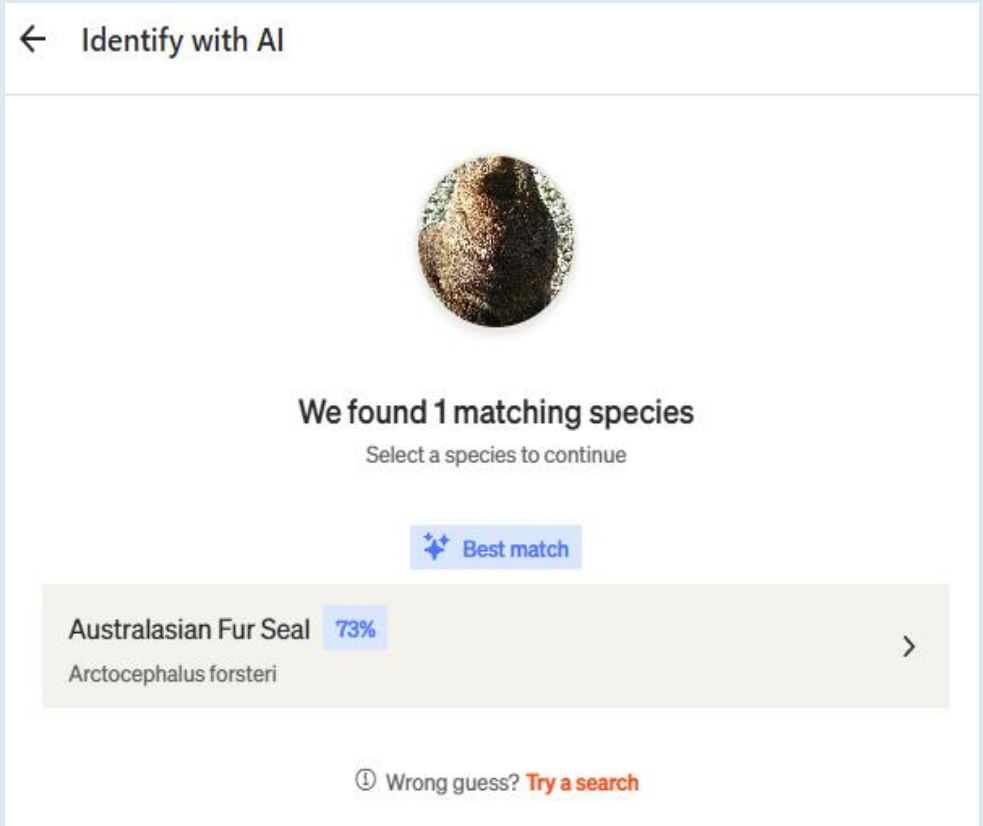
Sustainability

- User-friendly --> low training needs (video tutorial, hotdesking)

Data ethics and usability

- Embedded at the core of the governance, with data ethicist
- Step-by-step strategy to ensure trust
- Open source: Member can request codes and use them for their own national data
- Upload data bulk
- Version control (mistakes can happen)
- Automatic consistency checks, automatic duplicate checks

Wildlife health related challenges



Wildlife diversity

- Partnership with established taxonomy recognised by the international community: **GBIF**.

Wildlife identification

- Partnership with **U. of Ohio** for species recognition AI model.

One-Health, All-hazards, all wild species

- All types of etiologies accepted: infectious and non-infectious, diagnosed or **undiagnosed**. All wild species accepted

Annual reporting not fit for wildlife health issues

- Real-time reporting
- Support Rapid risk assessment, decision-making

List of diseases not fit for detecting new, emerging issues

- No list

EXPECTATIONS



Improved OH coordination



Better data → Better RA, better [data-driven] decisions



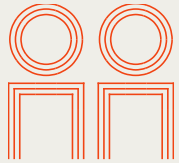
Enhanced range, type of data and better timeliness



Increased data flow for VS and better connection with national wildlife health stakeholders



Broaden animal health intelligence



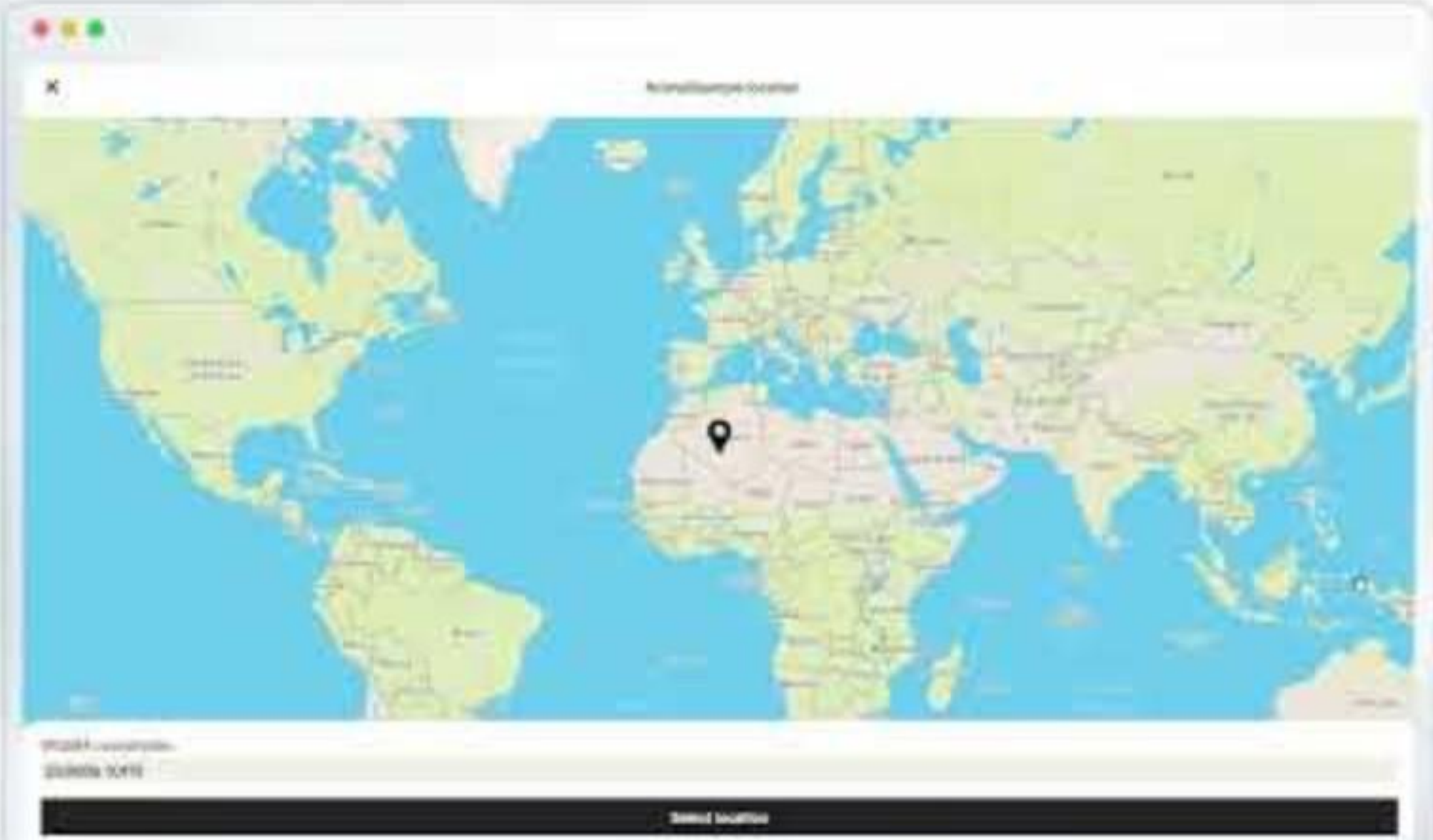
Better work with WOAH expert networks and increased global solidarity



Reinforce WOAH's OH engagements



Better preparedness for disease emergence and non-infectious health issues



by using your

Thank you

Questions?

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WILDEPI
CONNECTS
WILDLIFE HEALTH
SIGNALS

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