

PREVENTING DISEASES IN WILDLIFE MANAGEMENT:

Sharing guidance and
insights to support
practice



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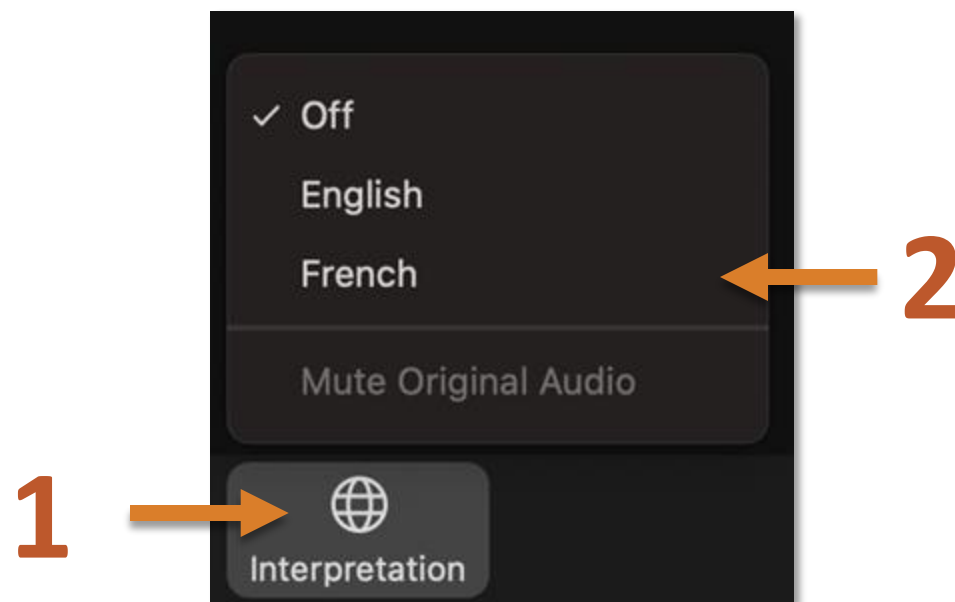
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SESSION 1

Setting the Scene



Franck Berthe

Senior Health Specialist and One Health
Lead, The Pandemic Fund, World Bank



Preventing diseases in wildlife management

Drivers and the economic case for prevention

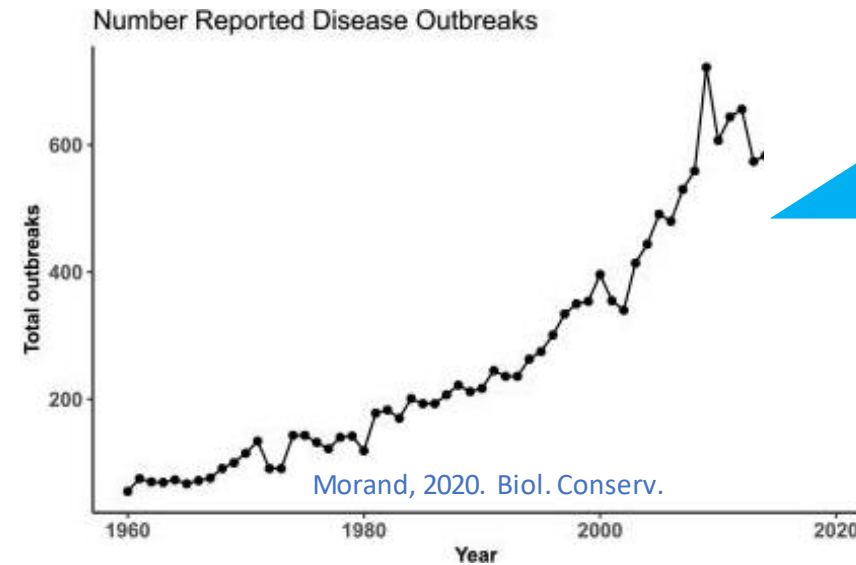
GWP Webinar

April 20th, 2023



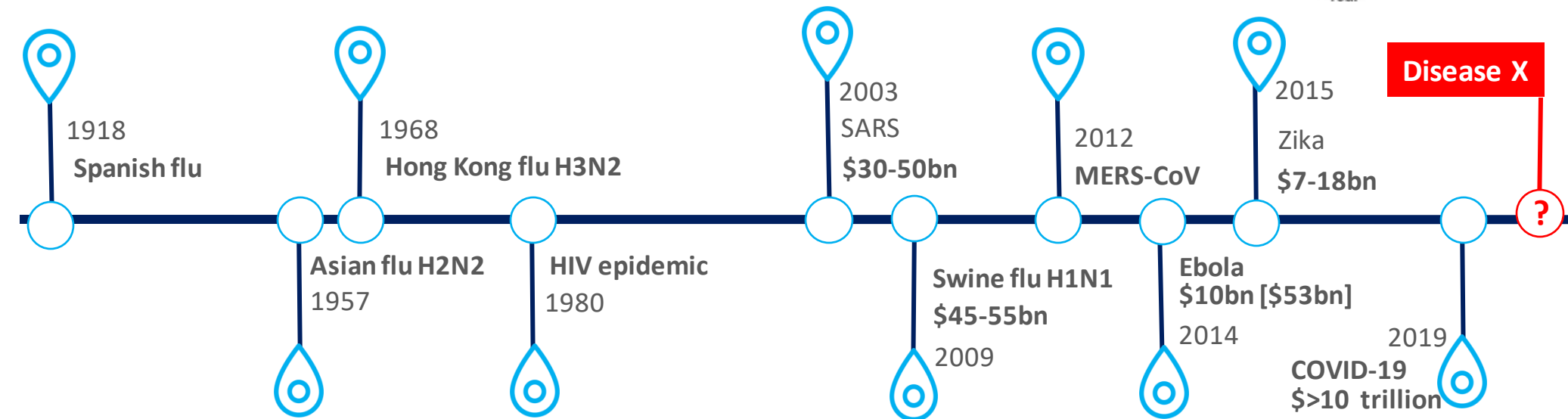
Approximately 75 percent of emerging infectious diseases in humans have their origin in animals (domestic or wild)

- The **pace of emergence has accelerated** over the past 70 years from less than a hundred outbreaks per year until the 1980s to more than 4 hundred since 2000
- Increasing trend of **costs and economic impact**



Marani et al., 2021. PNAS

The yearly probability of occurrence of extreme epidemics can increase up to **threefold** in the coming decades



Even known pathogens can mutate, *e.g.*, Zika mutation before the 2015 epidemic enhanced disease and transmission

Shan et al., 2020. PNAS

The next pandemic may already be on the horizon

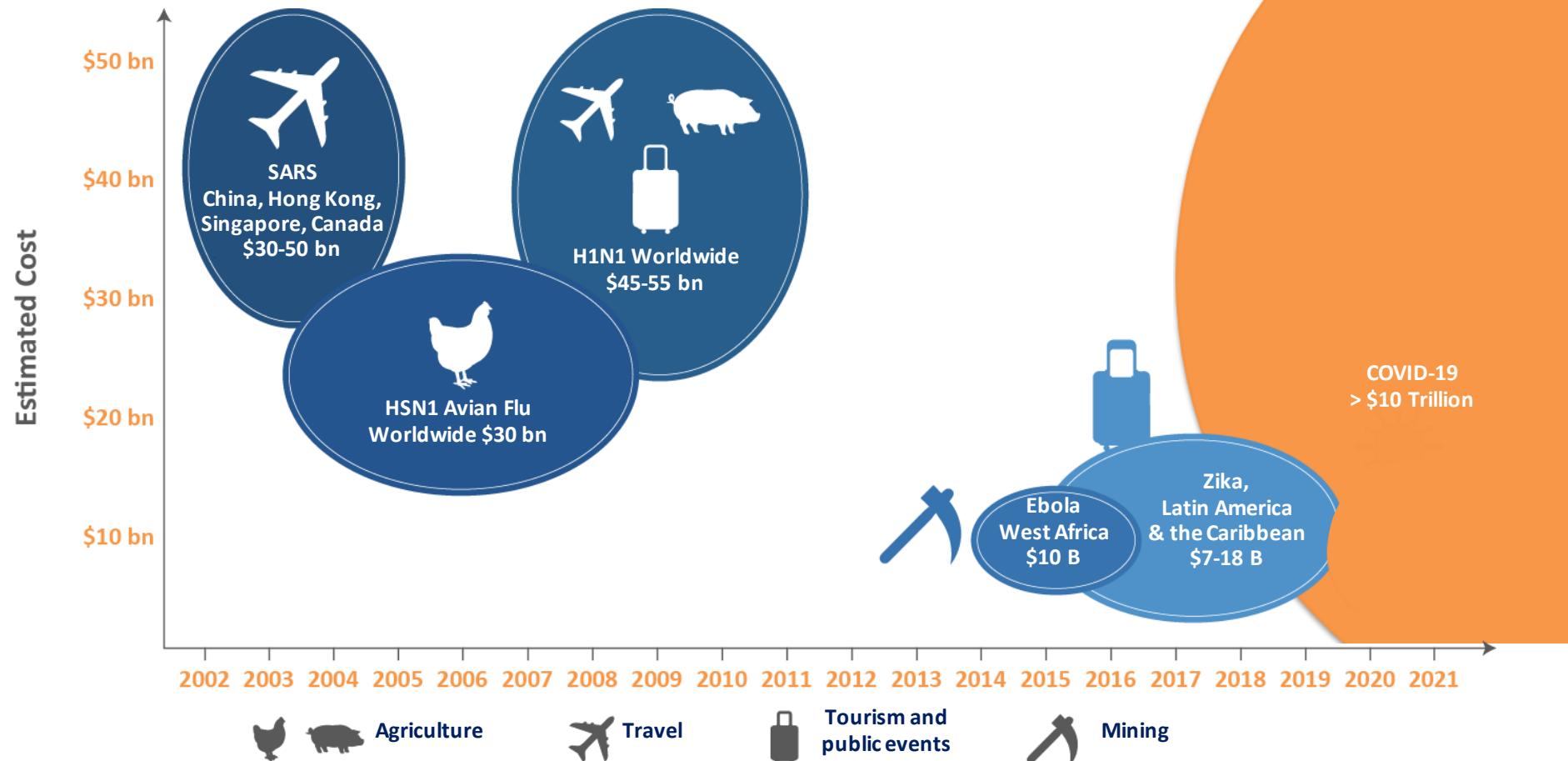
The global economy contracted by 4.3% in 2020 due to COVID-19

That amounts to about **\$3.6 trillion** worth of goods, services and other output lost. **Projected cumulative output loss due** to the pandemic (2020 to 2025) ~ \$22 Trillion.

This does not include the different ways people suffered the downturn through death, illness, loss of livelihood or disruption of schooling, for example.

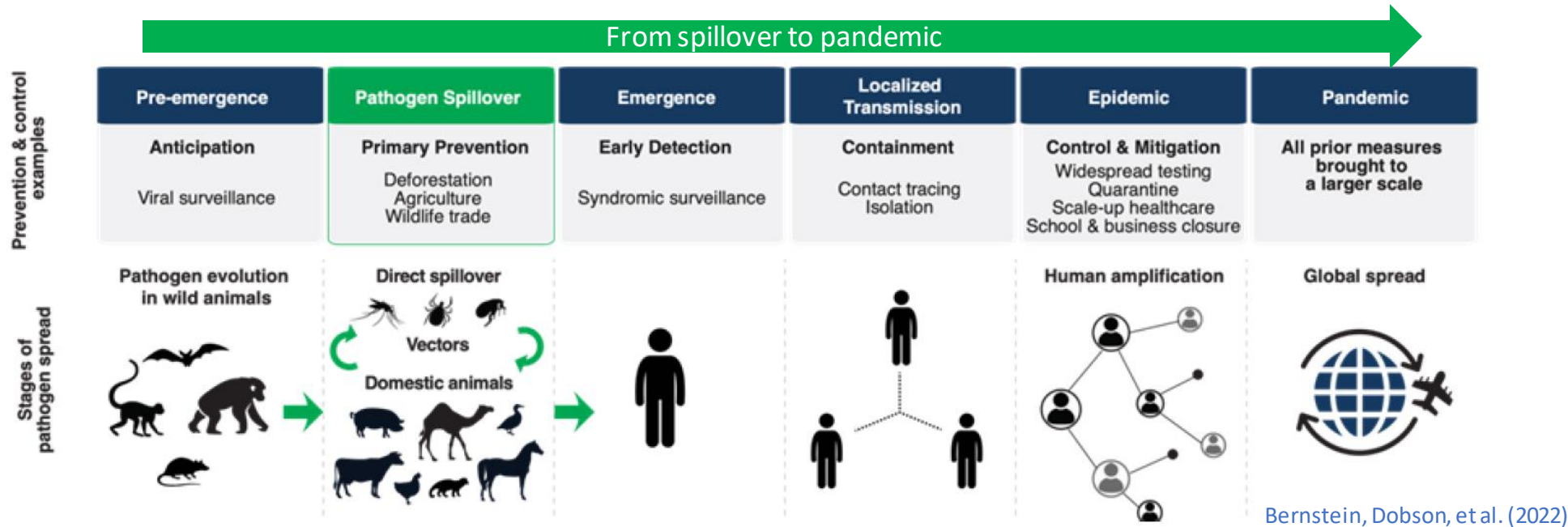
The economy is increasingly impacted through different sectors, e.g., tourism, transport, food, education.

Adapted from the World Bank Operational Framework for One Health, 2018



Major outbreaks can reverse years of progress in development

Spillover of pathogens from animals into humans



More than 250 viruses are known to have already spilled over from animals to humans, SARS-CoV-2 being the latest known example. 1.7 million undescribed animal viruses, 50% have potential to spill over into humans and could result in a future Disease X.

PREVENTION

Systems, policies and procedures to assess, avoid, mitigate, and reduce public health threats, reduce the likelihood or consequences of spillover events at the human, animal, ecosystem interfaces.

PREPAREDNESS

Capacities and capabilities put in place at every level to prevent, detect, contain and respond to the spread of disease and other hazards, mitigating social disruptions and limiting risks to international travel and trade.

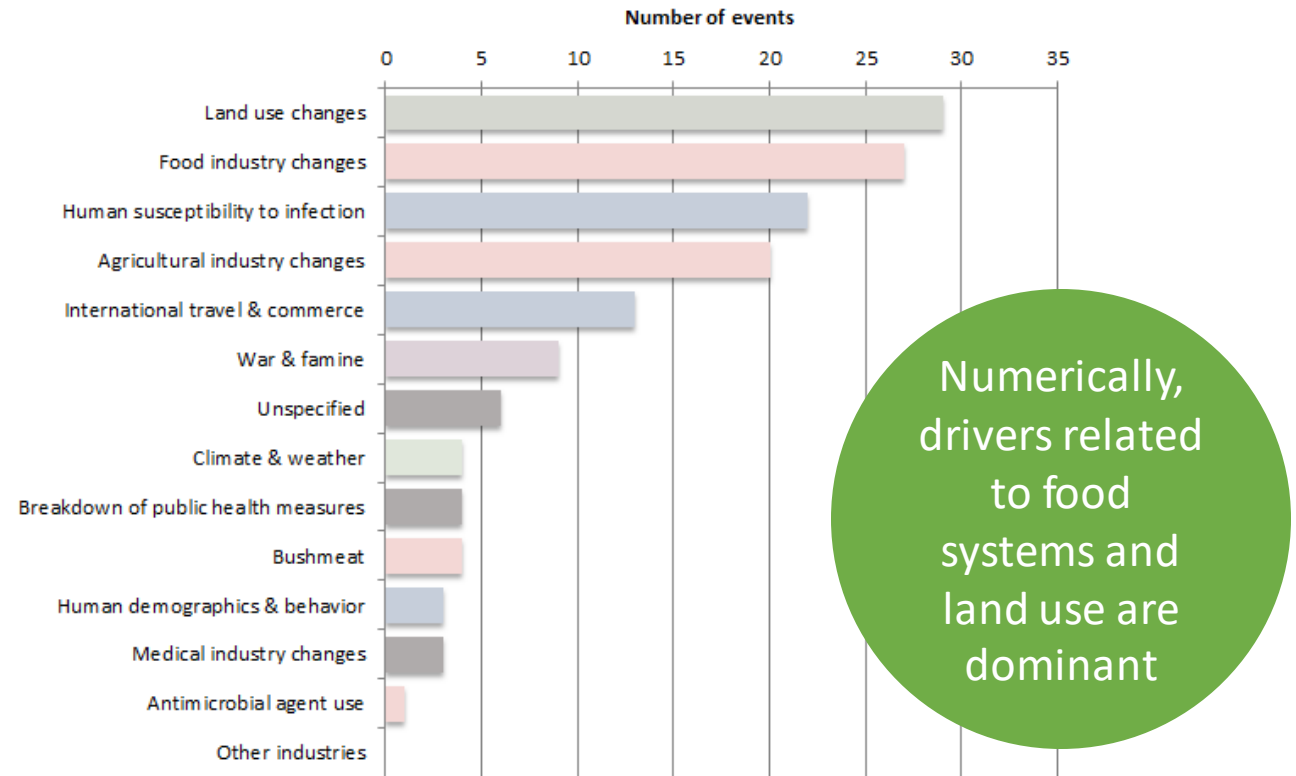
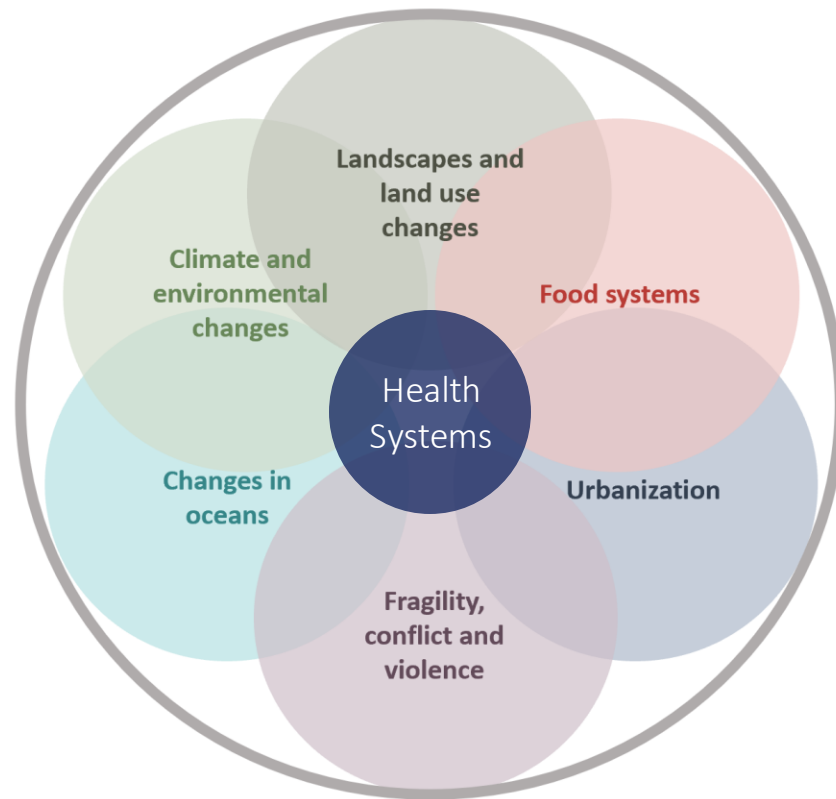
Crises are not inevitable, and appropriate interventions can mitigate pandemic risks, avoiding crises and containing adverse shocks.

Prevention and preparedness are critical to ex-ante risk reduction and to ultimately strengthen resilience to health emergencies.

Prevention and preparedness are critical to risk reduction

Pandemic risks are mainly driven by human activities

- **Drivers lead to spillovers** and disease outbreaks, through a wide variety of mechanisms
- Coupled with **weak health systems** and public health institutions, drivers can lead to epidemics and pandemics
- **Good development** is likely to have an impact on emerging infectious diseases, reducing their pace of emergence



Source: EcoHealth Alliance/Loh et al. VBZD, Jones et al. 2008 Nature

Prevention of Epidemics and Ecosystem health

Deterioration of ecosystem health augments the risk of spillovers through expanded interaction between humans or livestock with wildlife, as well as changes in reservoirs and host population dynamics

This could be addressed by actions such as those included in the Climate Change Action Plan 21-25



Prevent habitat loss or degradation.

Creating or maintaining protected areas, promoting sustainable natural resource management, and strengthening the landscape planning

Wildlife consumption & commerce.

Decreasing the local population reliance on “bushmeat”, and ensuring legal and safe commerce of wildlife

Climate Change. Increasing the resilience of communities and natural areas to extreme weather, sustainable agriculture, restoring areas, and preventing human health spillovers as part of Nature-Based solutions

© Shutterstock

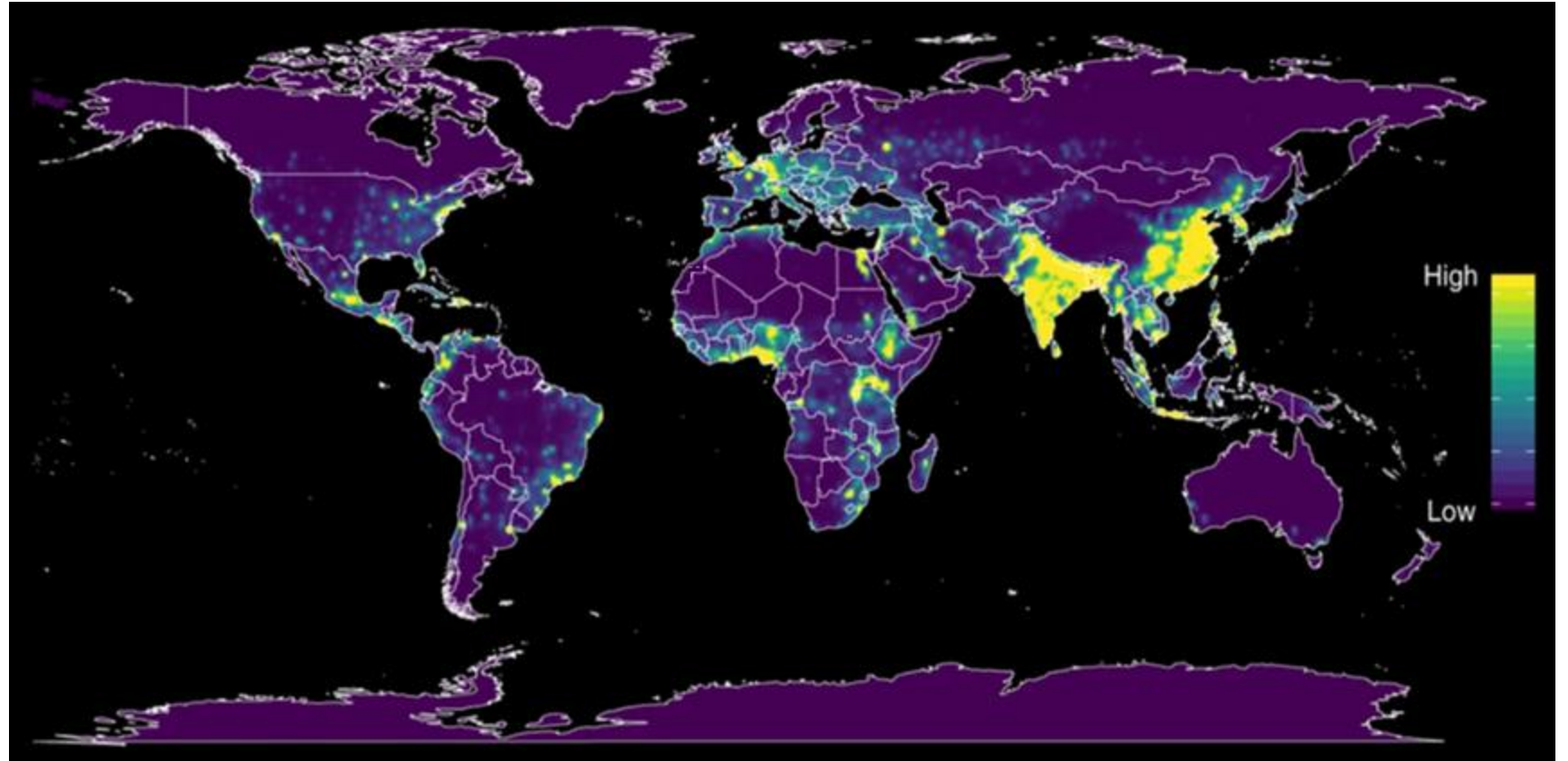
Attention is needed on hotspots for spillovers and climate-related impacts

Pandemic risks and vulnerabilities are global, though unevenly distributed

Risk anywhere is risk everywhere

There are no boundaries to infectious disease epidemics, **all countries are vulnerable** to the impact of epidemics and spillovers

Most hotspots for emerging infectious diseases are in low- and middle-income countries, *i.e.*, in IDA and IBRD countries



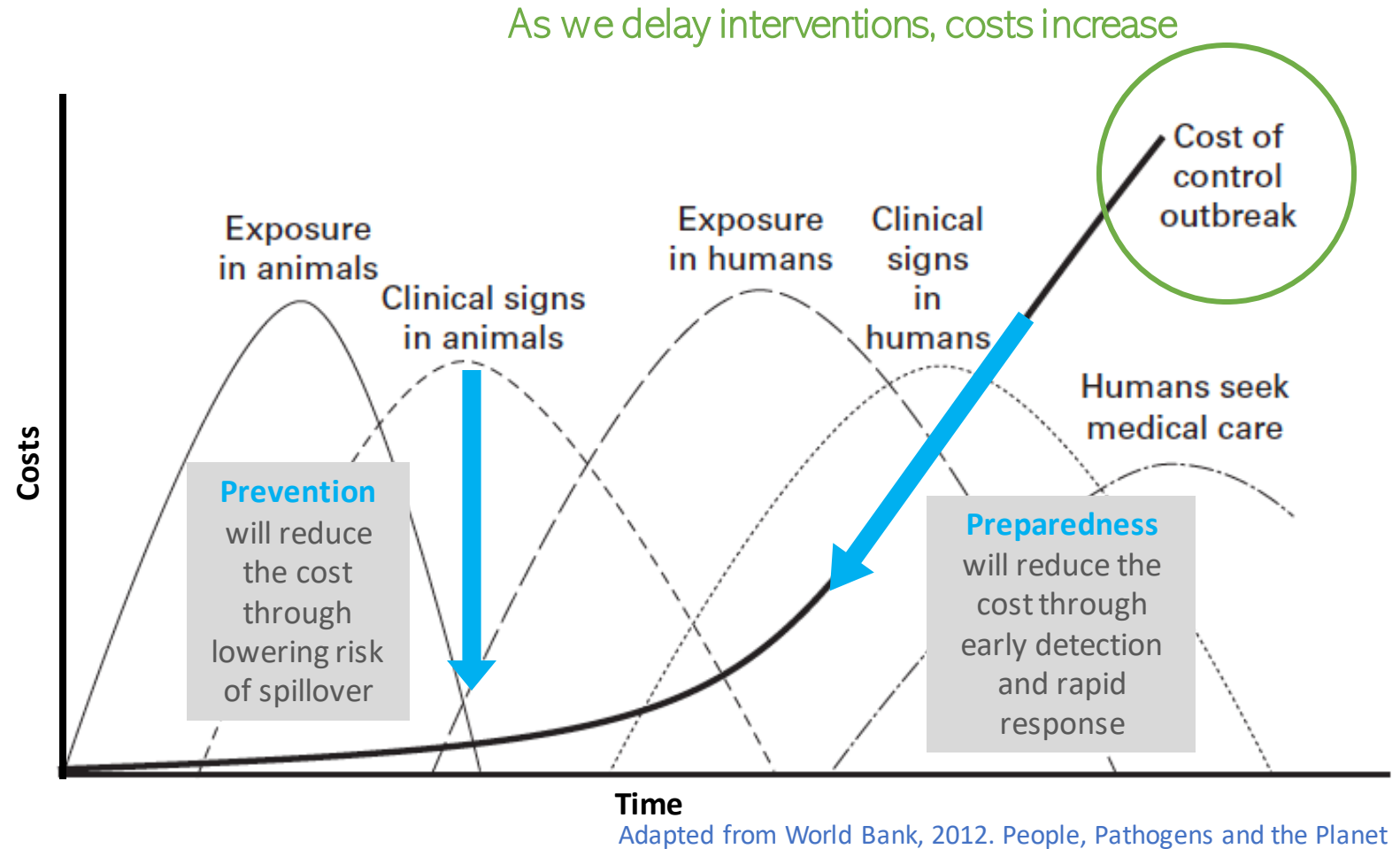
Adapted from Allen et al., 2017. Nature

Pandemic prevention and preparedness is a global public good

A compelling economic case

- The estimated annual cost of prevention and preparedness is **less than 1% of the cost of the current pandemic**
- Investing in prevention and preparedness comes with **returns on investment up to 88%**















World Bank, 2012. People, Pathogens and the Planet



Expenditure on prevention is an investment rather than a cost

Areas of focus for investment

Major global-level financial resources mobilized for Global Health Security (funding received or requested)

Program	Funding source(s)	Year(s)	Funding level	Prevent	Detect	Respond	Recover	Details
CEPI	Wellcome Trust, Gates Foundation, Japan, Germany, and Norway	2017–22	\$560 million (as of 2017)					Vaccine development; \$1 billion target for first 5 years
Contingency Fund for Emergencies	WHO member contributions (17 countries have contributed to date)	2015–	\$69 million received (as of June 2018); \$100 million target for 2018-19					Separately funded component of the WHO Health Emergencies Program; rapid response to health emergencies: up to \$500,000 mobilized within 24 hours; \$21 million utilized in 2017 in 23 countries
Gavi	Governments, Gates Foundation, private sector	2016–20	\$9.2 billion in donor contributions and pledges					Immunization delivery (includes health system strengthening aspects)
GHSA	G7 nations	2014–22	>\$1.44 billion					GHSA itself does not allocate/ appropriate funds; support is allocated by countries under the principles of GHSA to advance prevent, detect, and respond capacities
Pandemic Emergency Financing Facility (PEF)	World Bank	2017–22	\$320 million (Class A pathogens: \$225 million; Class B: \$95 million); separate cash window					Surge financing (insurance window + cash window) in response to activation criteria (outbreak size, spread, and growth); premiums and bonds financed by donor governments
Pandemic Preparedness Plans	World Bank IDA18 Replenishment	2017–20	Dependent on client country requests					Support to 25 IDA countries to develop frameworks for governance and institutional arrangements for multi-sectoral health emergency preparedness, response, and recovery
WHO Health Emergencies Program	WHO member states	2016–	\$485 million requested for 2016-17 (73% funded)					Core budget for essential functions, plus an appeals budget that covers additional work in response to acute and protracted health emergencies

* To the extent that Gavi covers Prevent it is for the specific prevention of yellow fever spillover through vaccination in high-risk areas; does not address drivers

Existing spending on global health security is largely directed to immunization and emergency response operations– with limited spending towards pandemic prevention, surveillance and detection

Global Health Security Tracking dashboard
Katz, R. et al. (2019). EcoHealth

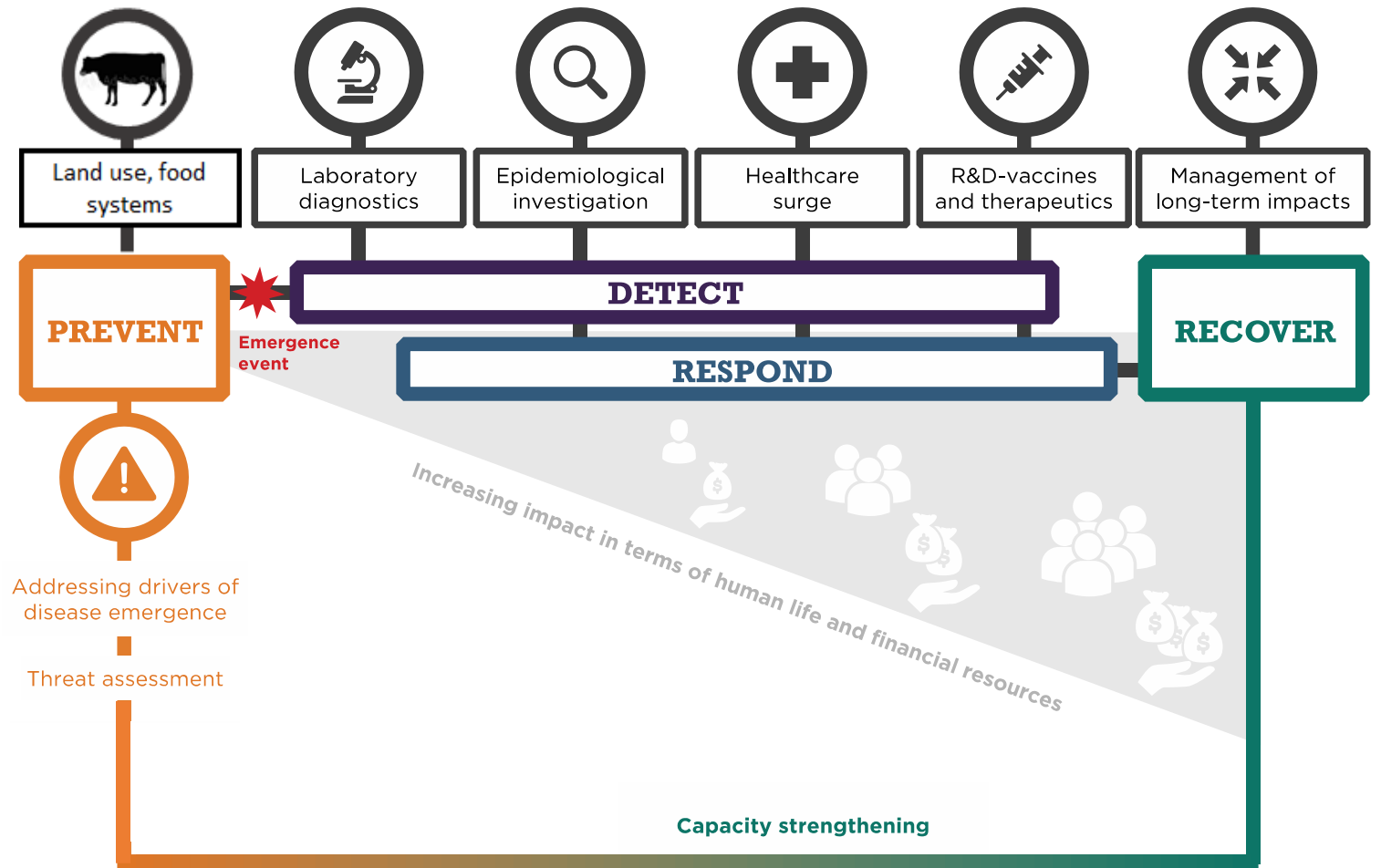
Carlin et al. 2019 Building Resilience to Biothreats

Prevention and preparedness have been chronically under-invested worldwide

One Health is a necessary foundation of global health security

- “Each time an outbreak was managed, **attention was subsequently diverted:** investments in prevention and preparedness waned, fueling the cycle of panic and neglect”

WB, From Panic and Neglect to Investing in Health Security (2017)



Adapted from Carlin et al., 2019. Building resilience to biothreats: an assessment of unmet core global health security

Without upstream investment in prevention, the world remains at risk



Catherine Machalaba

Principal Scientist for Health and Policy,
EcoHealth Alliance





Preventing Diseases in Wildlife Management: Sharing Guidance and Insights to Support Practice

Catherine Machalaba PhD MPH
EcoHealth Alliance

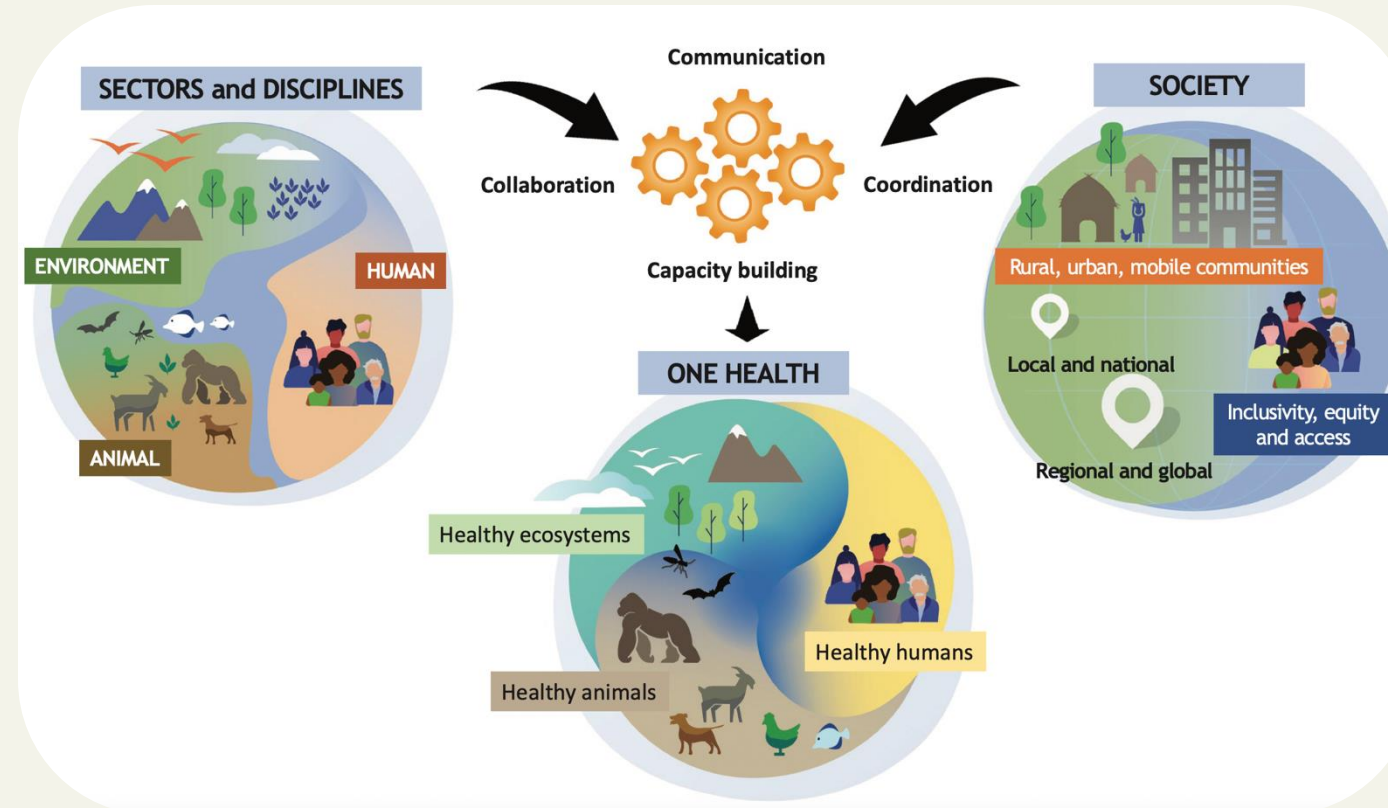
Global Wildlife Program webinar
April 20, 2023



Definition

One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems.

It recognizes the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and inter-dependent. The approach mobilizes multiple sectors, disciplines and communities at varying levels of society to work together to foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development.



One Health High-Level Expert Panel (working definition)

System Components to Reduce Disease Risk from Wildlife



Indicator
Policies (such as for livestock or land use development) account for disease risk from wildlife
Institutional mandate for managing wildlife disease/pathogen risk
Wildlife authority included in national One Health body*
Mechanism for inter-agency coordination if authority for risk management is shared
Risk analysis process in place for assessing and managing risk at wildlife-domestic animal and wildlife-human interfaces
Plan/strategy in place for systematic surveillance and risk reduction
Dedicated budget for wildlife disease system
Wildlife monitoring network
Access to laboratory for testing wildlife specimens
Wildlife disease database
Alert system in place for early warning and response
Pipeline for wildlife veterinary/para-veterinary workforce in non-zoo settings
Applied field epidemiology training program for wildlife surveillance and investigation

Preventing transmission of SARS-CoV-2 from humans to wild mammals



Guidelines for Working with Free-Ranging Wild Mammals in the Era of the COVID-19 Pandemic



Exposure Risks



Contact exposure
Mammals coming into contact with contaminated hands or equipment



Aerosol exposure
Infectious droplets from handlers holding mammals in close proximity



Environmental exposure
Sharing enclosed, poorly-ventilated spaces with mammals, where virus may persist in the air or on surfaces

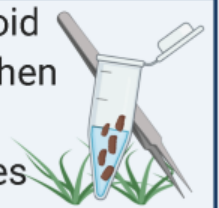


MAP
your plan to prevent transmission to mammals!

Mitigation Strategies

Minimize

Delay, prioritize, or avoid handling mammals when possible, i.e. collect environmental samples



Assess

Postpone handling mammals if there is a probability that you have been exposed to SARS-CoV-2 or if you have symptoms



Protect

Adopt practices that reduce exposure, i.e. face covering, gloves, disinfection procedures



This figure was adapted in collaboration with the IUCN Bat Specialist group.
This work by IUCN SSC Bat Specialist Group is licensed under CC BY-NC-ND 4.0.

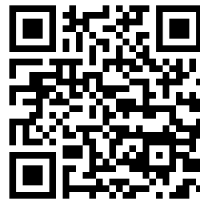
Disease Risk Interfaces

Interface	Examples
Tourism	<ul style="list-style-type: none"> • Encroachment into caves • Wildlife selfies
Communities	<ul style="list-style-type: none"> • Agriculture (e.g., livestock rearing, crops) • Housing • Food acquisition and food preparation
Natural resource extraction	<ul style="list-style-type: none"> • Commercial/concession-based logging, mining, and oil and gas extraction • Guano harvest
Access and resource use	<ul style="list-style-type: none"> • Informal (e.g., artisanal) mining • local clearing (e.g., for charcoal) • Subsistence and non-subsistence wildlife hunting and fishing (use, trade)
Research	<ul style="list-style-type: none"> • Biological sampling and disease investigation
Biodiversity management	<ul style="list-style-type: none"> • Reintroduction/translocation • Introduction and establishment of invasive alien species (and biological measures to control them)



Healthy people and wildlife through nature protection

Guidelines for prevention, detection, response, and recovery from disease risks in and around protected and conserved areas



Protected | Conserved Areas

With the support of



One Health principles for sustainable tourism in protected and conserved areas

Accompanying principles to the guidelines for prevention, detection, response and recovery from disease risks in and around protected and conserved areas



Protected | Conserved Areas



With the support of



Build risk reduction into site management plans and national strategies!

Guidance Topics

Sound Design and Planning

- 1) Disease risk assessment
- 2) Animal release
- 3) Site use planning and buffer zones

Effective Management

- 4) Monitoring and Surveillance
- 5) Disease reporting and investigation
- 6) Safe wildlife viewing, handling, and use
- 7) Biosafety and Biosecurity
- 8) Control measures

Good Governance

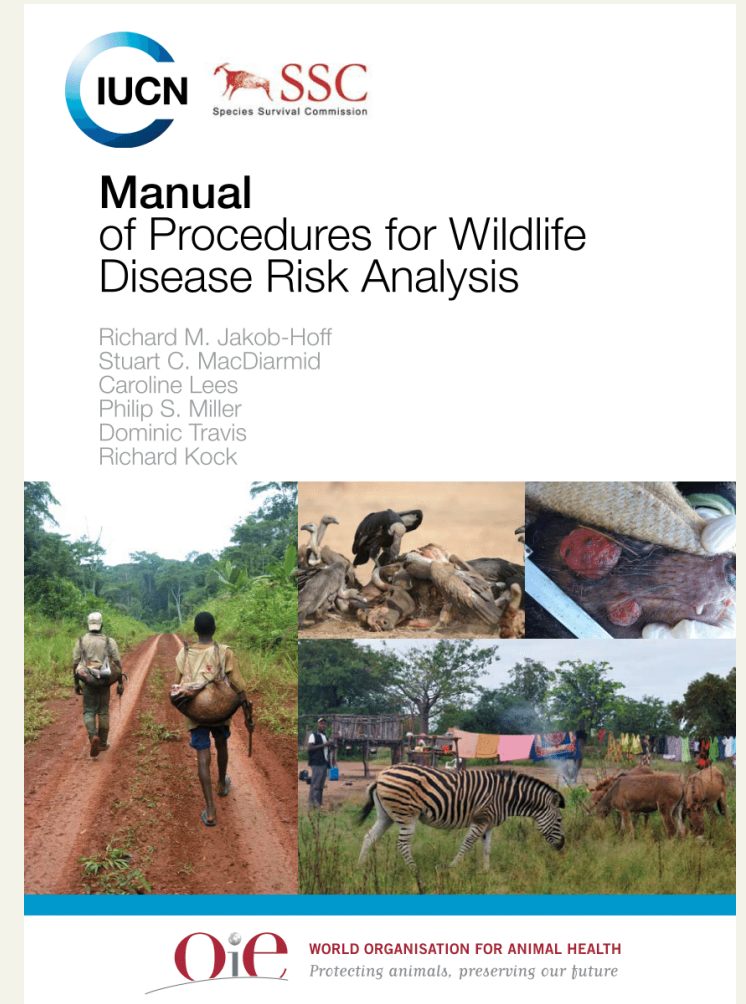
- 9) Risk communication
- 10) One Health coordination



Disease Risk Assessment

Most environmental impact assessments do not currently include scope on emerging disease risks

- ✓ Ensure a process is in place to conduct and utilize findings from risk assessments
- ✓ Conduct disease risk assessment prior to land and sea use, animal release, or reintroduction planning
- ✓ Review and update risk assessment
- ✓ Take action as warranted (e.g., zoning)



Risk Communication

- ✓ Ensure coordination with animal and public health authorities for information exchange and consistent messages
- ✓ Promote biodiversity-sensitive messaging
- ✓ Post signage on safe practices and use behavioral “nudges” to encourage uptake
- ✓ Include information on responsible practices to reduce disease risk in visitor codes of conduct



Section 1. Bats are an Essential Part of our Ecosystem

Bats also play an important role in keeping us and our ecosystem healthy by pollinating flowering plants. Over 300 species of plants depend on bats for pollination. These fruits include mangos, bananas, and guavas.



Living Safely with Bats



One Health Coordination

- ✓ Ensure participation in national or subnational One Health coordination platform
- ✓ Build partnerships to notify appropriate authorities and exchange routine information
- ✓ Identify and fill workforce and training needs
- ✓ Develop and practice plans through multi-sectoral coordination and simulation exercises



Example of One Health Solution



Safe wildlife viewing platform

Bat cave in Uganda's Maramagambo forest
(Uganda Wildlife Authority and the US CDC)

What is the risk of pathogen spillover from a cave used for ecotourism?"

Relevant information for risk assessment (examples):

- Species present
- The type and frequency of interactions
- Pathogenicity of known and novel viruses, bacteria, fungi
- Protective factors to reduce exposure



<https://www.silverbackgorillatours.com/uganda/maramagambo-forest>



Q&A





SESSION 2

Case studies & success stories



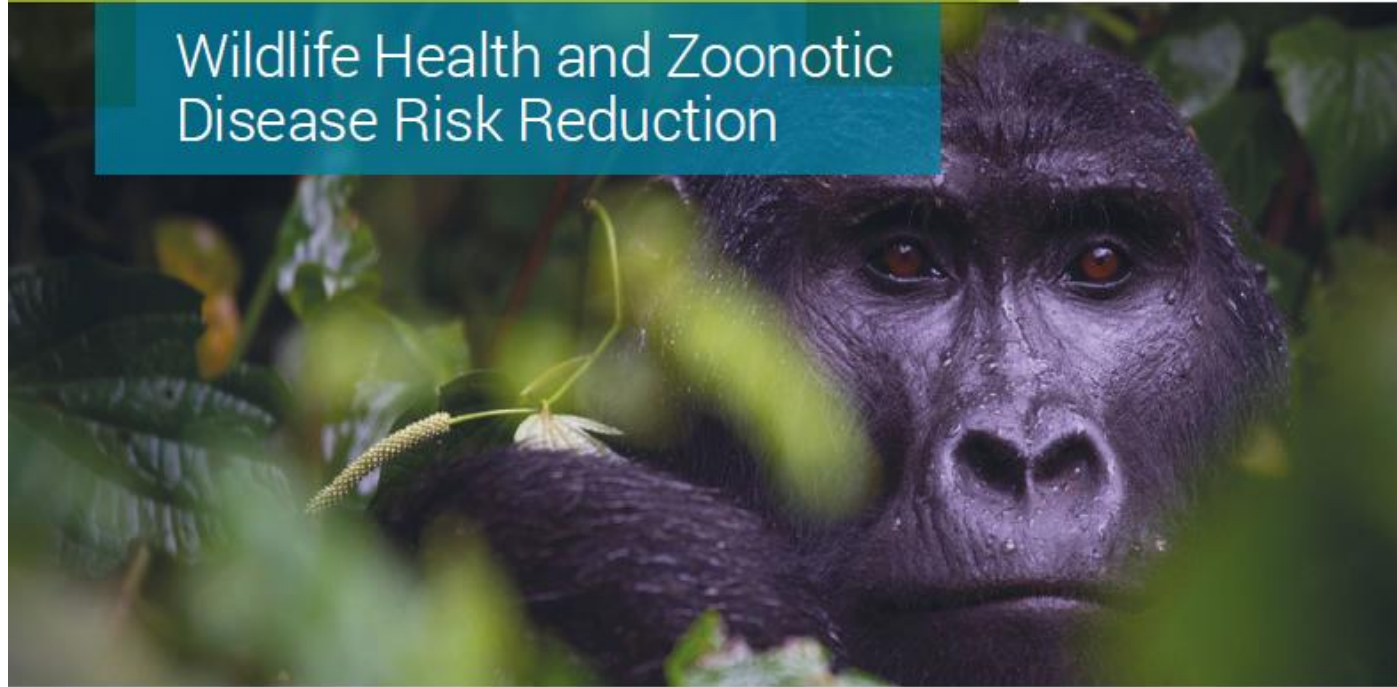
Dao Nguyen

Senior Programme Manager, Conservation Action,
Species Conservation Action Team, IUCN



SOLUTIONS IN FOCUS:

Wildlife Health and Zoonotic Disease Risk Reduction



With the support of



Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection



Wildlife rescues - building a safe bridge to recover wild populations in Vietnam



SAVE
VIETNAM'S
WILDLIFE



An animal keeper was taking care of confiscated tiger © Save Vietnam's Wildlife

SUMMARY:

In Viet Nam, there are thousands of live wild animals confiscated from illegal wildlife trade incidents, however, the majority of them could not survive after confiscation due to lack of proper treatment. Wildlife rescues are not limited to saving and taking care of animals from confiscations but also rescue and rehabilitation, release and monitoring, conservation breeding programme, capacity building, and collaboration to safely release them back to the wild, and to recover and secure wild populations. After 7 years of working, we have released more than 1200 confiscated animals back into the wild with a success rate of more than 60%, many of which were tagged and tracked post-released. Moreover, a Viet Nam Wildlife Rescue Association is going to be established to support wildlife rescue centres through the network.

SUCCESS FACTORS:

1. Wildlife rescue and rehabilitation
2. Release and monitoring
3. Building capacity for rescue centres

Hunter and Community-Based Early Warning System Expands Ebola Mortality Monitoring in Great Apes



SUMMARY:

In northern Republic of Congo, hunters and community members were recruited to report morbidity and mortality events in wild animals. In the region, great ape die-off events were found to precede human cases of Ebola virus disease. Through the community engagement programme, reporting channels were developed, relaying information from small villages to connector communities via radio, messages carried by commercial drivers or other contact routes with national authorities. This facilitated information flow to veterinarians so that diagnostic sampling could occur within the short timeframe needed before carcasses degrade. Reporting of events expanded the surveillance system to empower local people and allowed for early warning through sentinel surveillance for possible disease threats to humans and wild animals. Accompanying community outreach also helped to raise awareness about the dangers of hunting certain species or eating animals found sick or dead, particularly in epidemic periods, thereby promoting safer practices.

SUCCESS FACTORS:

1. Early warning system
2. Stakeholder engagement and participation

Read more:

<https://panorama.solutions/en/solution/hunter-and-community-based-early-warning-system-expands-ebola-mortality-monitoring-great>

Training on Disease Prevention, Detection, Response and Recovery for Protected Area Managers in Vietnam



Glo Germ was applied on 20 participants to emphasize the importance of proper hand washing procedures © EcoHealth Alliance



Photo credit: Save Vietnam Wildlife

SUMMARY:

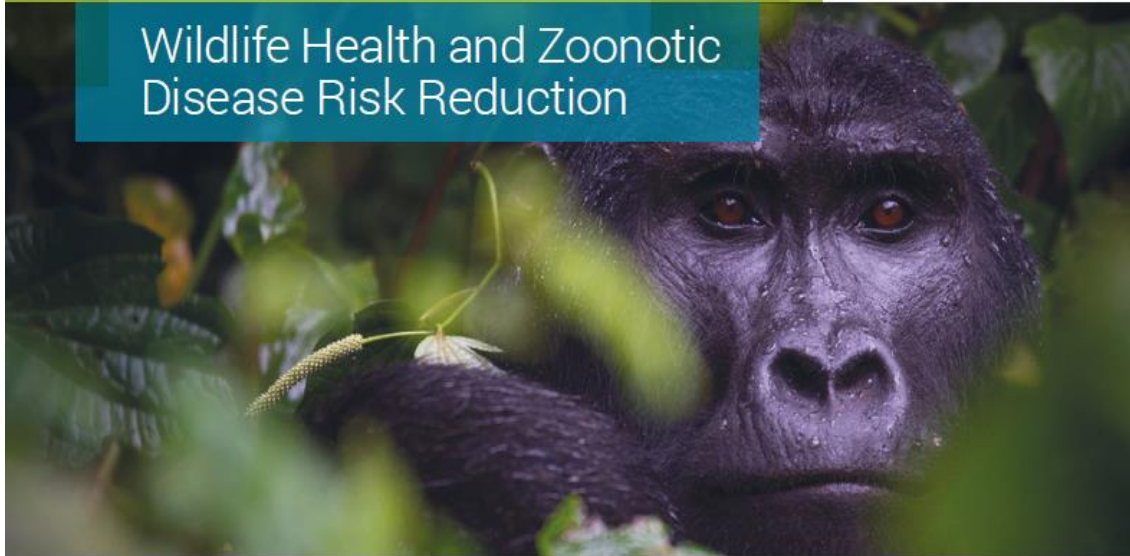
In September 2022, a training was held in Viet Nam's Cúc Phương National Park on the recently developed IUCN *guidance for Prevention, Detection, Response and Recovery from Disease Risks in Protected and Conserved Areas* and accompanying *One Health Principles for Sustainable and Healthy Tourism*. The training was designed for professionals, wildlife handlers and park rangers to introduce the One Health concept, IUCN guidance, sampling, human safety, risk assessment, biosafety, personal protective equipment (PPE), and biohazard waste disposal. Forty participants from various agencies in Viet Nam including Cát Tiên, Pù Mát and Cúc Phương National Parks took part in the two-day training. The field experience and expertise of the training team and adaptation to the relevant context ensured practical application of the guidance. Sessions such as the 'Glo Germ' test, which demonstrated the importance of proper PPE donning and doffing and handwashing procedures, helped make the training interactive and reinforce key concepts.

Read more:

<https://panorama.solutions/en/solution/training-disease-prevention-detection-response-and-recovery-protected-area-managers-0>

SOLUTIONS IN FOCUS:

Wildlife Health and Zoonotic
Disease Risk Reduction



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**EcoHealth
Alliance**



Green List
Protected/Conserved Areas





Dr. Kalpy Julien Coulibaly

Head of Department of Environment and Health,
Pasteur Institute of Côte d'Ivoire



1) Main factors of emergence of wildlife-related diseases

- Land conversion and deforestation
 - ➔ Increases contact between wildlife and humans
- Hunting and poaching
- Misconceptions and ignorance: Animal diseases cannot be transmitted to humans
 - 1/3 of 401 people surveyed said they *had eaten a sick or apparently sick animal*



2) Practical examples/case studies at the national level about prevention and management of disease spread

- Côte d'Ivoire has set up the One Health platform
 - ➔ before we worked on its operationalization
- Simulation of the response to certain pandemics.

PREDICT in Côte d'Ivoire : the benefits of multisectoral trainings and in-country capacity building

Kalpa Julien Coulibaly¹, Anne Laudouet², Catherine Machalaba³, William B. Karesht⁴ and Mireille Dosso¹
¹ Institut Pasteur de Côte d'Ivoire, PREDICT-Côte d'Ivoire, Abidjan, Côte d'Ivoire.
² EcoHealth Alliance, New York, USA

I. Background

Significant achievements have been made to advance health security in Côte d'Ivoire, including the President's recent signing of two decrees establishing, allocating, organizing and operating the public health emergency operations center and the One Health national platform. Both show that Côte d'Ivoire has a strong opportunity to build on the willingness of sectors to collaborate and make One Health operational to improve Sustainable Development outcomes. However, One Health in practice remains limited, in part due to the broad scope of human, animal and environmental health and lack of clarity on how and where it can offer optimal benefits.

II. Objective

The objective of this workshop was to bring the different structures to understand the advantages that "One Health" could bring them on the one hand and on the

III. Results

The workshop identified the need for formalizing support for One Health at the level of the Prime Minister's Office and an optimal mechanism to manage and coordinate the One Health platform and promote additional collaboration in daily functions and planning processes, both in emergencies and peacetime. The need to develop synergistic research and science investigation programs between state agencies and research laboratories (government or universities) was underlined.

IV. Conclusion

This is a relatively new area of capacity for the country and a plan is needed to ensure that wildlife disease surveillance and risk management be sustained and integrated into human, animal, and environmental health systems to strengthen zoonotic disease surveillance

PREDICT in Côte d'Ivoire : the benefits of multisectoral trainings and in-country capacity building

Example of multi sectoral impacts (see case study on page 10)

AFRICAN SWINE FEVER

Other possible impacts

Costs of employment
Market shift to other protein sources

PREDICT organized a 3 days workshop at the Institute Pasteur de Côte d'Ivoire (IPC) on operationalizing One Health in the country. Putting the World Bank One Health Operational Framework to use, the workshop focused on practical, value-added ways to integrate multi-sectoral collaboration, bringing together authorities from Ministries of Health, Veterinary Services, Wildlife, Environment, Security, Rural Development, and Economics and Finance as well as local NGOs and academic partners. An exercise on investing in One Health used three case studies to examine multi-sectoral impacts of African Swine Fever (ASF), lagoon pollution, and impacts from construction of a dam.

Opérationnalisation de l'approche « Une seule Santé » en Côte d'Ivoire
 Rapport de l'atelier de 30 participants

Logos: USAID, PREDICT, EcoHealth Alliance, METABIOTA, and others.

2) Practical examples/case studies at the national level about prevention and management of disease spread

- Côte d'Ivoire has set up the One Health platform
 - ➔ before we worked on its operationalization
- Simulation of the response to certain pandemics.
- Training in cross-border management of certain epidemics (CIV - Liberia)

Transborder outbreak risk preparedness : joint PREDICT Liberia and Côte d'Ivoire training

Kalpy Julien Coulibaly¹, Anne Laudisoit¹, James Desmond^{2,3}, Eugène Koffi¹, Jackson Poutchior¹, Cyprien Yapi^{1,4}, and Mireille Dosso¹
1. Institute Pasteur de Côte d'Ivoire, PREDICT-CIV, Abidjan, Côte d'Ivoire ; 2. EcoHealth Alliance, New York, USA ; 3. PREDICT Liberia, Monrovia ; 4. LCVB, LANADA, Bingerville

I. Background
The PREDICT Project aimed to strengthen countries' capacities to cope with epidemics. The West African region has been affected by an Ebola outbreak that has killed >11,000 people in 3 years and cases of Lassa virus disease have been detected in several PREDICT countries sharing borders. Considering the porosity of the borders, PREDICT Liberia and PREDICT Côte d'Ivoire carried out a joint wildlife surveillance training in a "One Health" spirit. The training gathered 50 participants from various Parks and Reserves, Ministries (Fauna, Fisheries, Forestry, Water, Health, Defense and Rural development) and from Abidjan Zoo, and the 2 PREDICT implementing partners in the country (IPCI and LANADA).

II. Principal objective
The ultimate aim of this training was to exchange experiences in outbreak response, preparedness and surveillance in order to face future epidemics together and harmonize the sampling scheme and protocols for optimal transborder collaboration.

III. Methodology
The training was organized in Abidjan and consisted of a theoretical PREDICT SOPs surveillance training (3 days) along with practical classroom (sampling laboratory rodents ; 1 day) at IPCI (Abidjan, Cocody) and field session (rodent and bat trapping and sampling) at the Abidjan Zoo (4 days). The PREDICT Liberia team came to Abidjan to co-host and co-teach with PREDICT CIV team ; the training that was jointly funded by both countries.

IV. Results


- Experience sharing
All participants acknowledged this training was one-of-a-kind as it gathered viewpoints and experiences from different levels and disciplines. This holistic approach allowed to have constructive discussions and debates on the best way to implement surveillance, joint outbreak response and communicate risk factors despite limited resources.
- Sampling and specimen : Abidjan Zoo

	OS	RS	FE	WB	Sera
Bats	9	6	3	9	1
Rodents	19	15	6	14	3

18 rodent and 9 bat species were sampled. The Giant pouched rat (*Cricetomys gambianus*) was the most abundant rodent and the foraging of frugivorous bats (*Eidolon helvum* and *Hipposignathus monstrosus*) in the Zoo noted. Specimen screening for the 5 PREDICT-2 viral families is ongoing at IPCI, Adiopodoume.

V. Conclusion
Such multiple stakeholders, international joint training should be encouraged between neighbouring countries that share ecological niches which may potentially facilitate pathogenic agents transport across borders and over long distances. Surveilling key natural sites in cities has also been underlined as a necessity.

Acknowledgements : USAID, FAO, The Abidjan Zoo, and the Ivorian office of Parks and Reserves (OIPR).



2) Practical examples/case studies at the national level about prevention and management of disease spread

- Sharing information and raising awareness
- Lessons Learned in Dealing with the COVID Pandemic
 - Over 2,000,000 tests performed between March 2021 and December 2022



3) Wildlife management as part of national "One Health" approaches

- Train wildlife specialists
 - Few wildlife veterinarians
- Train the different sectors to cooperate according to the "One Health" approach
- Operationalize "One Health" at the national level in the framework of Wildlife Management
 - Case of Human Conflict Elephants in Côte d'Ivoire
 - DFRC IPCI Cooperation



**Thank you for
your attention**



Francois Diaz

Scientific Coordinator for Wildlife and Bees,
Preparedness and Resilience Department, Organisation
on Animal Health (WOAH, founded as OIE)

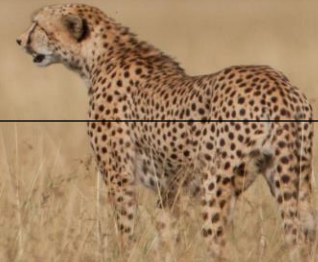


Guidelines for addressing disease risks in wildlife trade

François Diaz
Scientific Coordinator for
Wildlife and Bees

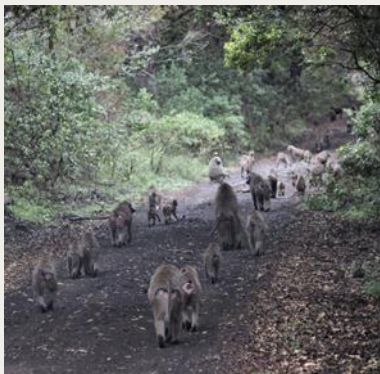
Global Wildlife Program - Webinar on Preventing
diseases in wildlife management: Sharing guidance
and insights to support practice - 20 April 2023

Thanks to Tiggy Grillo who contribute this presentation



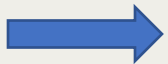
General Background

- Wildlife provide essential ecosystem services and are a key component of overall biological diversity.
 - Wildlife is also an important source of protein, income, and livelihoods for many local or rural communities, whilst also important for national and regional economies through tourism and nature-based recreation.
-
- Unregulated, unsustainable harvest, use, and trade of wildlife can pose threats to animal health and welfare, have detrimental impacts on species conservation and biodiversity, and can have serious public health implications (in particular zoonosis)
 - Risk of pathogen spillover and disease emergence amplified by steady increase in level of interaction between humans, wildlife, and domestic animals.

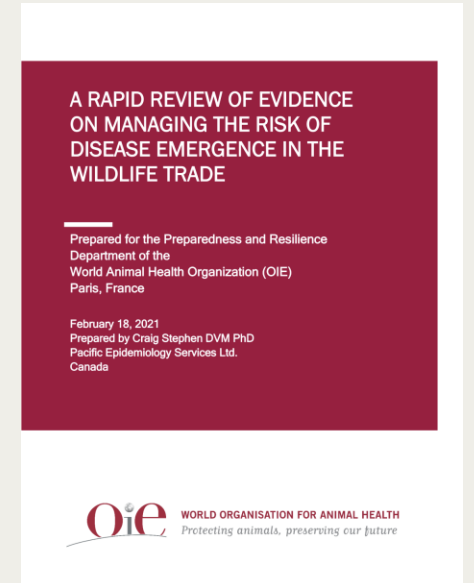


Background of the Guidelines

- In April 2020, the OIE Wildlife Working Group released a statement highlighting the complexities, benefits, and challenges of wildlife trade.
- End of 2020-Early in 2021, development of the WOAH Wildlife Health Framework
- Early in 2021, a consultant-led 'rapid review of evidence on managing the risk of disease emergence in the wildlife trade' was completed.



- ✓ WOAHA set up an Ad Hoc Group (Group of experts) on reducing the risk of disease spillover events at markets selling wildlife and along the wildlife supply chain
- ✓ Experts from different sectors (wildlife crime, wildlife trade, animal welfare, risk assessment, veterinary services, animal health standards, ecology, public health, social and behavior change and systems-thinking)
- ✓ 7 virtual meetings in addition inter-sessional work since June 2021



Stephen C. Berezowski J et al. 2021 Rapid Review of Evidence on Managing the Risk of Emerging Diseases in the Wildlife Trade. Prepared for the Preparedness and Resilience Department.

Overview

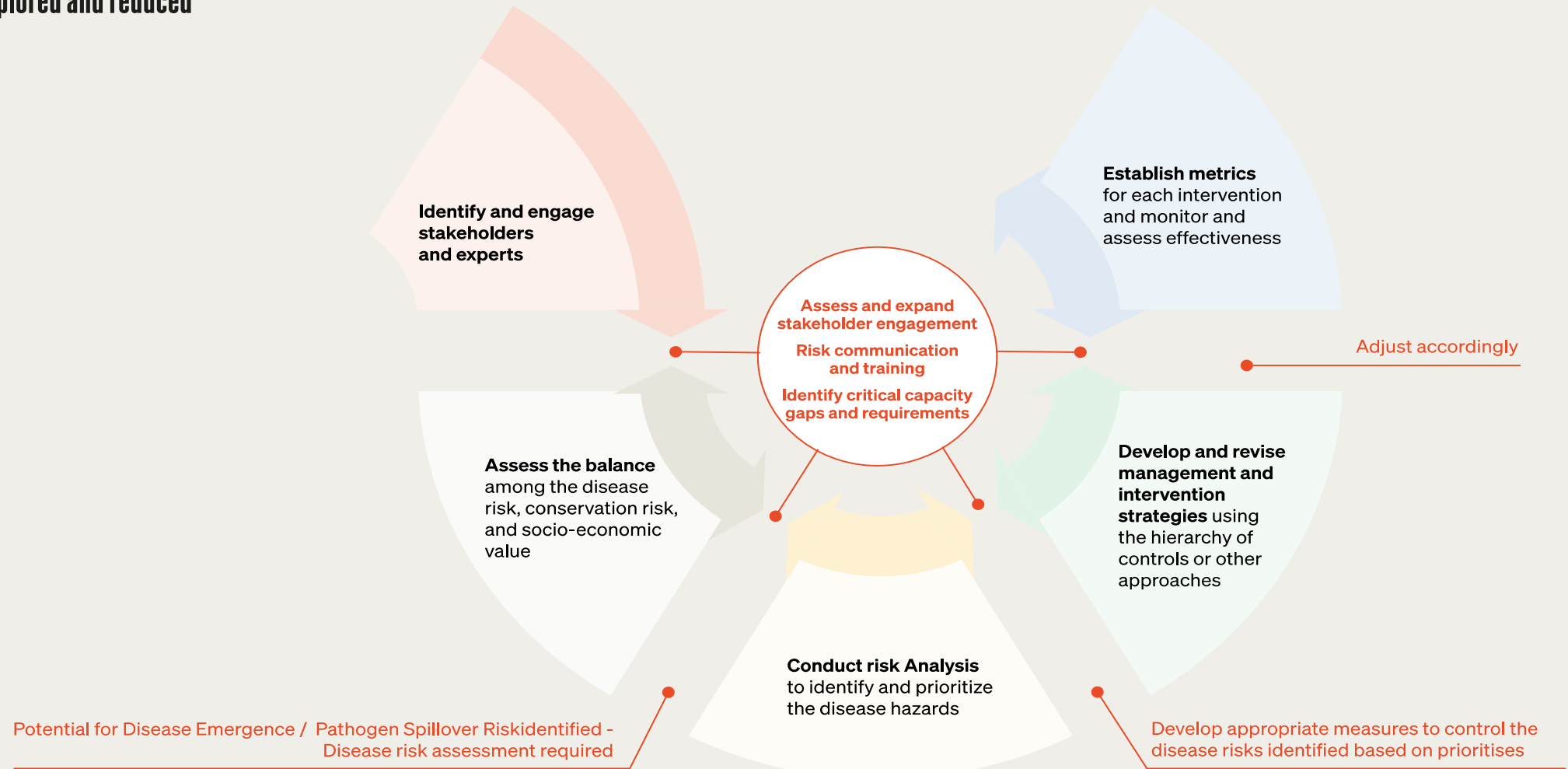
- **Primary audience**: Veterinary Services, Wildlife Authorities, Public Health authorities, other Competent authorities with a mandate on animal health and welfare, public health, wildlife management and trade, law enforcement.
- Guidelines provide **an approach** to facilitate users to identify and select pragmatic, flexible, practical, adaptable and relevant disease risk reduction and intervention strategies
- **Taking into account** identified disease risks, capacity, and needs of the users
- **With the final objective** to ensure feasible, effective and sustainable implementation on the ground at markets selling wildlife and along wildlife trade supply chains





Approach

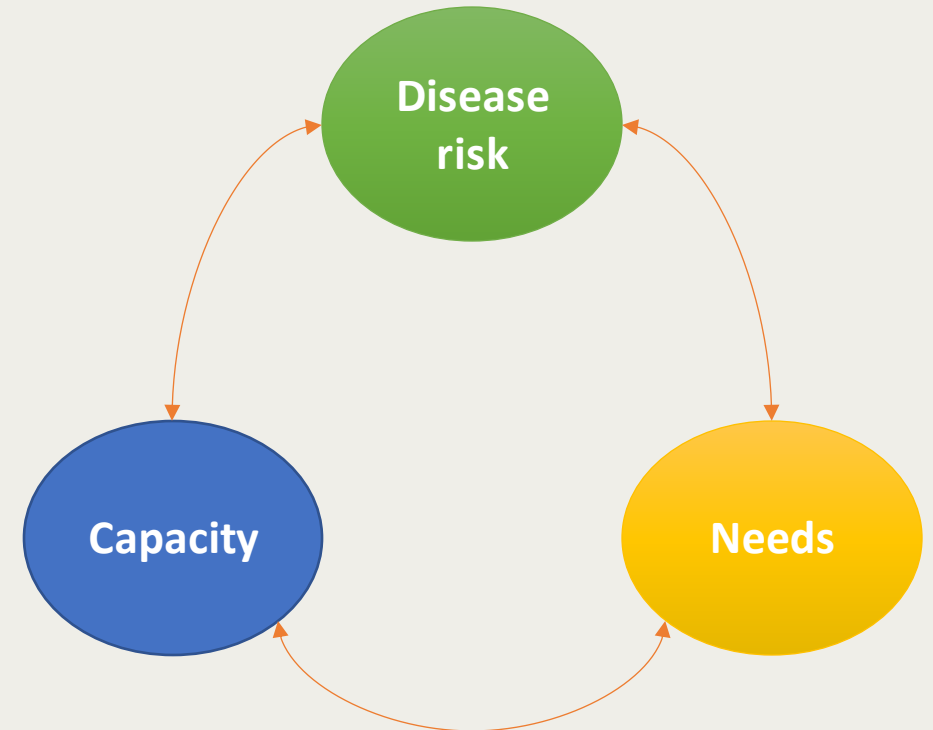
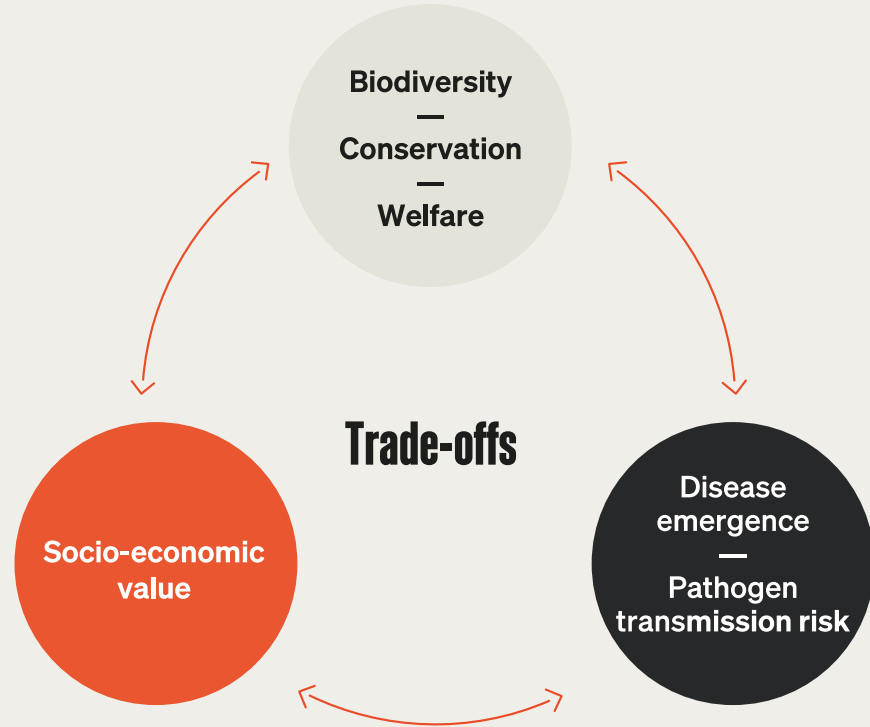
Identify a wildlife trade supply chain or interface for which disease risks are to be explored and reduced





Implementation (Disease risk intervention strategies)

Decision Making Frameworks in the Face of Complexity





Availability of the Guidelines

- ✓ Guidelines already finalized
- On the process of copy editing
- Should be available by June 2023
- Guidelines will be available on the WOAH website – Wildlife page:
<https://www.woah.org/en/what-we-do/animal-health-and-welfare/wildlife-health/>
- Guidelines will be diffused to International Partners and the WOAH National Focal Points for Wildlife + Pilot project in the implementation of the Guidelines in some countries

Thank you

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Discussion



Jackson Katampi

Zambia National Coordinator, IUCN Green List For Protected and Conserved Areas, Ministry of Tourism and Arts, Department of National Parks and Wildlife, Zambia



Q&A





Thank you!

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