





WILDLIFE TRADE AND ITS RELEVANCE. A RISK-BASED APPROACH

Dr. Kirk DouglasDirector, Centre for Biosecurity Studies

20th April 2023

Second meeting of the GF-TADs Standing Group of Experts on Avian Influenza (SGE-AI)

Global Framework for the Progressive Control of Transboundary Animal Diseases (GF-TADs) Regional Representation for the Americas of the World Organisation for Animal Health (WOAH) and Food and Agriculture Organisation (FAO) Joint Workshop

Mexico City | Mexico

19th - 21st April 2023











CHANGE IS.... CONSTANT

VISIONARY VOICES

Health Solidarity Is Health Security

ABUJA - Kicking off the United Nations' second annual Sustainable Development Goals Moment last month, UNICEF Goodwill Ambassador Priyanka Chopra Jonas emphasized the role of solidarity as a driver of change. "Global solidarity is more important than ever," she said. "Together, we have an...

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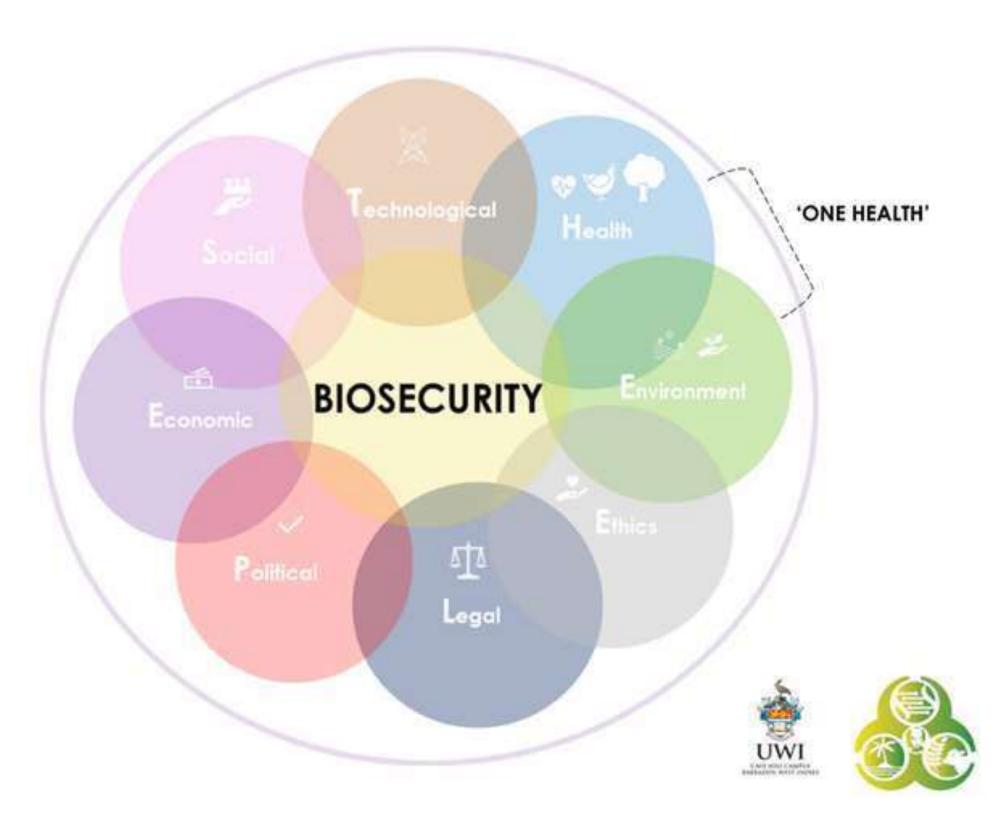
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WHAT IS MEASURED IS MANAGED







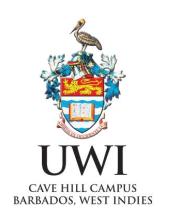


an analytical framework tool to

- assess
- mitigate
- manage and
- prevent

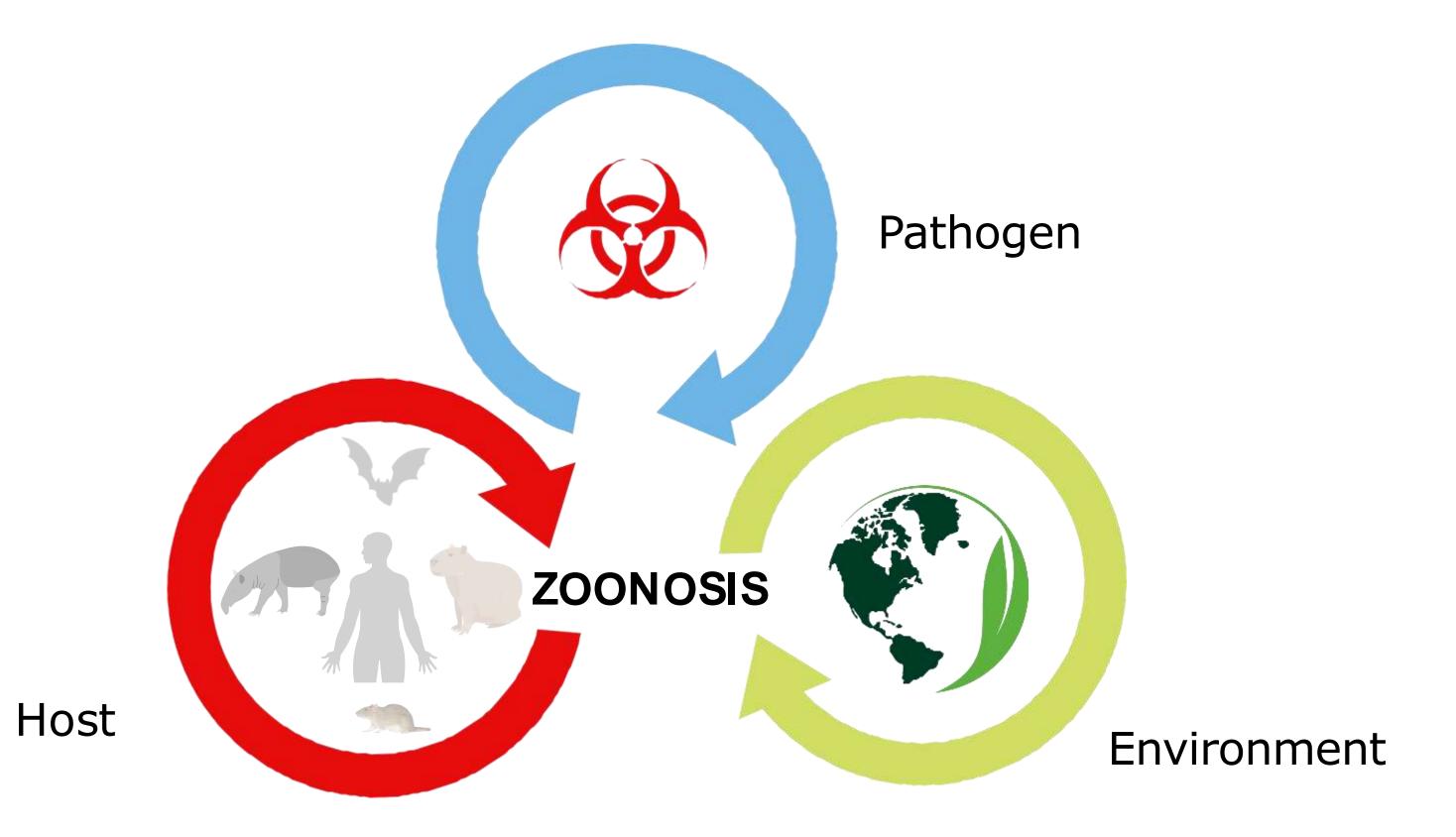
Vulnerabilities to major biosecurity threats

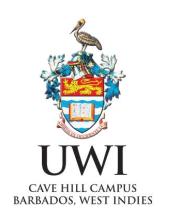
- Multidisciplinary
- Foster cross-collaboration and reinforcement of systems thinking
- Generate comprehensive & inclusive solutions
- Saving lives & livelihoods













RISK CONVERGENCE



Infrastructure



Environment

International trade supply disruptions

International travel resumptions

Climate change

Ecosystem degradation

Exotic infectious diseases

Weak wildlife surveillance at origin & ports of entry



Mining & extractive operations

China - USA 'war'

War in Ukraine - Russia



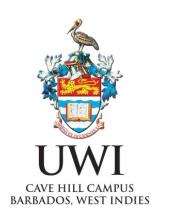
ENVIRONMENT



CLIMATE INFECTIOUS NEXUS



CBS UWIBIOSECURITY RESEARCH GROUP | CAVE HILL









Tourism







Tourism is a major source of revenue in the Caribbean but it is also a huge vulnerability. It brings mass volumes of people and goods together from varied parts of the world mixing with locals and facilitating transmission chains for food or water-borne illnesses.





Global and regional travel allow the movement of mass volumes of people and also facilitates spread of infectious and communicable diseases

International and regional trade involve the movements of goods from one environment to another with risks of pathogens and pest moving too.



Migratory wildlife can transmit infectious diseases over very long distances such as **bird flu**. They can contaminate water bodies with enteric pathogens and zoonotic pathogens as well posing a threat to livestock, poultry and humans.





Different modes of transport exist including airplanes, boats, buses, cars and trains. In food safety the transport of food items can influence the security of the food as microbial contamination or growth can be supported



WILDLIFE TRADE RISK & WOAH



The OIE's mandate is to improve animal health and welfare worldwide, to improve transparency in reporting animal diseases and zoonoses, to contribute to safeguards at the animal/human/ecosystems interface, and to facilitate safe trade in animals and animal products by setting-up sanitary standards. The OIE delivers on its mandate through the establishment for Member Countries of animal health standards, guidelines, and recommendations.

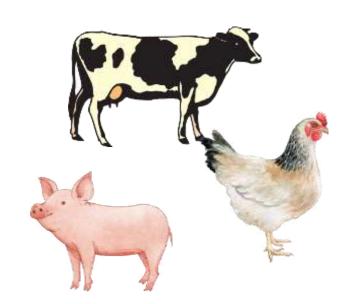
In April 2020, the OIE committed to develop guidelines or standards for trade in wildlife to reduce health risks, and support animal welfare and biodiversity conservation (OIE 2020). Amongst the stated goals are; (i) to support sustainable and responsible practices in legal trade, transportation, capture, farming, marketing, and consumption of wildlife; (ii) create tools for Members to ensure best practices regarding risk assessments and disease management associated with the value chain for the wildlife trade; (iii) strengthen scientific networks to increase sustained Member country capacity for early threat detection, wildlife disease surveillance, information management, risk assessment, prevention of spillover events, and implementation of mitigation

A RAPID REVIEW OF EVIDENCE ON MANAGING THE RISK OF DISEASE EMERGENCE IN THE WILDLIFE TRADE

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measures; (iv) communicate risk and prevention measures to stakeholders to increase knowledge and awareness of Veterinary Services' role in reducing spillover events; and (v) inform at-risk populations of the risks and reduction strategies, to effect appropriate behaviour change.

The OIE currently is still in an 'exploratory phase' regarding the role of Veterinary Services in the illegal wildlife trade. Collaborations have started with INTERPOL on this topic and the OIE is having conversations with the likes of the United Nations Interregional Crime and Justice Research Institute and the United Nations Office on Drugs and Crime. The implications of focusing effort on only the legal trade are unclear. Extreme regulatory risk aversion in the control of legal trade can increase informal or illegal trade, with the unintended consequence of creating additional risks outside regulatory purview (Hueston et al 2011).



EFFECTIVE SURVEILLANCE

Domestic animals
Farm animals





INEFFECTIVE SURVEILLANCE ABSENT FRAMEWORK

Pet wildlife/animals (pet trade)







ILLEGAL WILDLIFE TRADE (IWT) OF WILD BIRDS

Interceptions at JFK Airport, NY, USA

'Finch-Smuggling Kingpin' Gets Prison Time for Sneaking Birds Into NY for Competitions

"I'm going to stay away from the birds," the man pledged in a video he submitted to the court, "because it's trouble."

By Jennifer Peltz • Published February 9, 2023 • Updated on February 10, 2023 at 2:46 am





More than two dozen little finches were found crammed in hair rollers inside a man's luggage at JFK Airport on Sunday, officials with U.S. Customs and Border Protection said.

A man who repeatedly admitted scheming to smuggle finches from Guyana into New York for birdsong competitions was sentenced Thursday to a year and a day in prison.









ILLEGAL WILDLIFE TRADE (IWT) OF WILD BIRDS

Guyana & Trinidad & Tobago

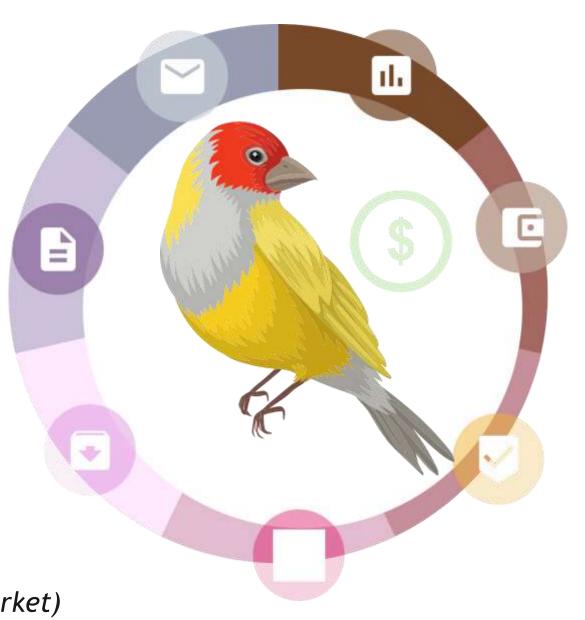
Social & Cultural Norms
Singing competitions

Economically Challenged
Opportunity Seeking

Low Risk High Reward
Financially attractive

Diaspora

Preservation of culture (ready market)



Ineffective Legislation *Insufficient deterrence*

ent deterrence 5

Small animal size *Ease of concealment*

6

Corruption *Inadequate governance*

7

Species Endemism *Rare and highly sought*

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ACTION-ORIENTED STUDIES IN GREEN CRIMINOLOGY AND A HARMFUL TRADE IN PET WILDLIFE IN TRINIDAD AND TOBAGO

B

Mark Charles Gibson

A DISSERTATION

Submitted to
Michigan State University
in partial fulfillment of the requirements
for the degree of

Criminal Justice-Doctor of Philosophy

2022

Trade Overview

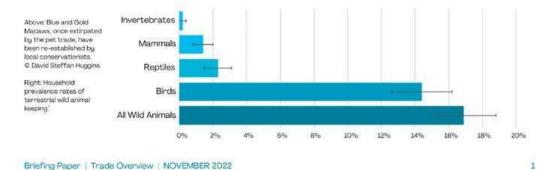




The Harmful Pet Wildlife Trade in Trinidad and Tobago

There is a large, thriving, and harmful "pet" wildlife trade in Trinidad and Tobago and the wider Southern Caribbean. Here are 15 key facts you should know.

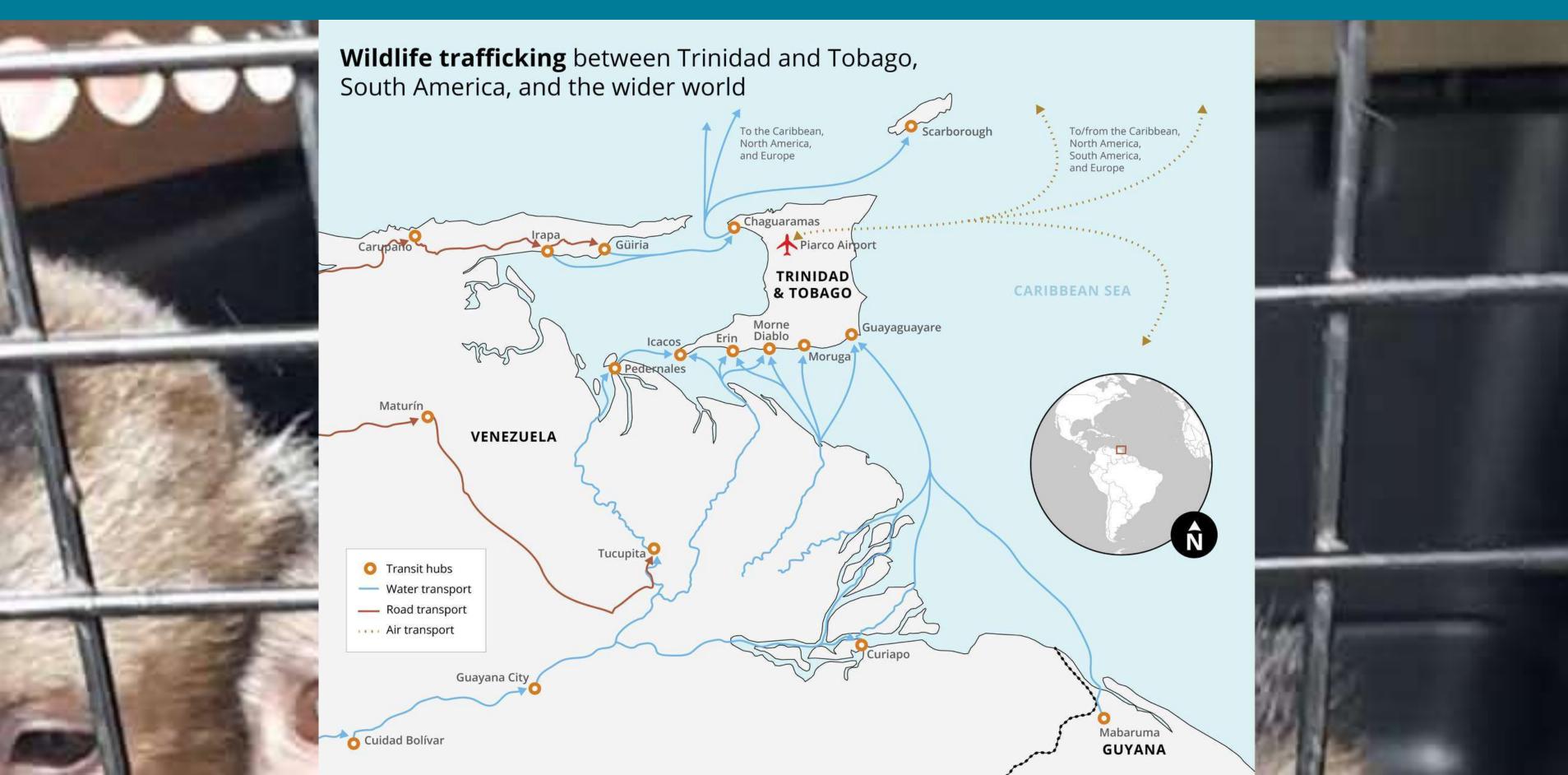
Fact #1: Approximately 1-in-6 households keep wild animals as pets in T&T. Based on a national survey, 16.9% ($\pm 1.9\%$) of households keep wild birds, invertebrates, mammals, and reptiles. Wild birds are most popular and are estimated to be kept in 14.4% ($\pm 1.8\%$) of households. Parrots are the most popularly kept bird order and are found in 12.0% ($\pm 1.7\%$) of households.

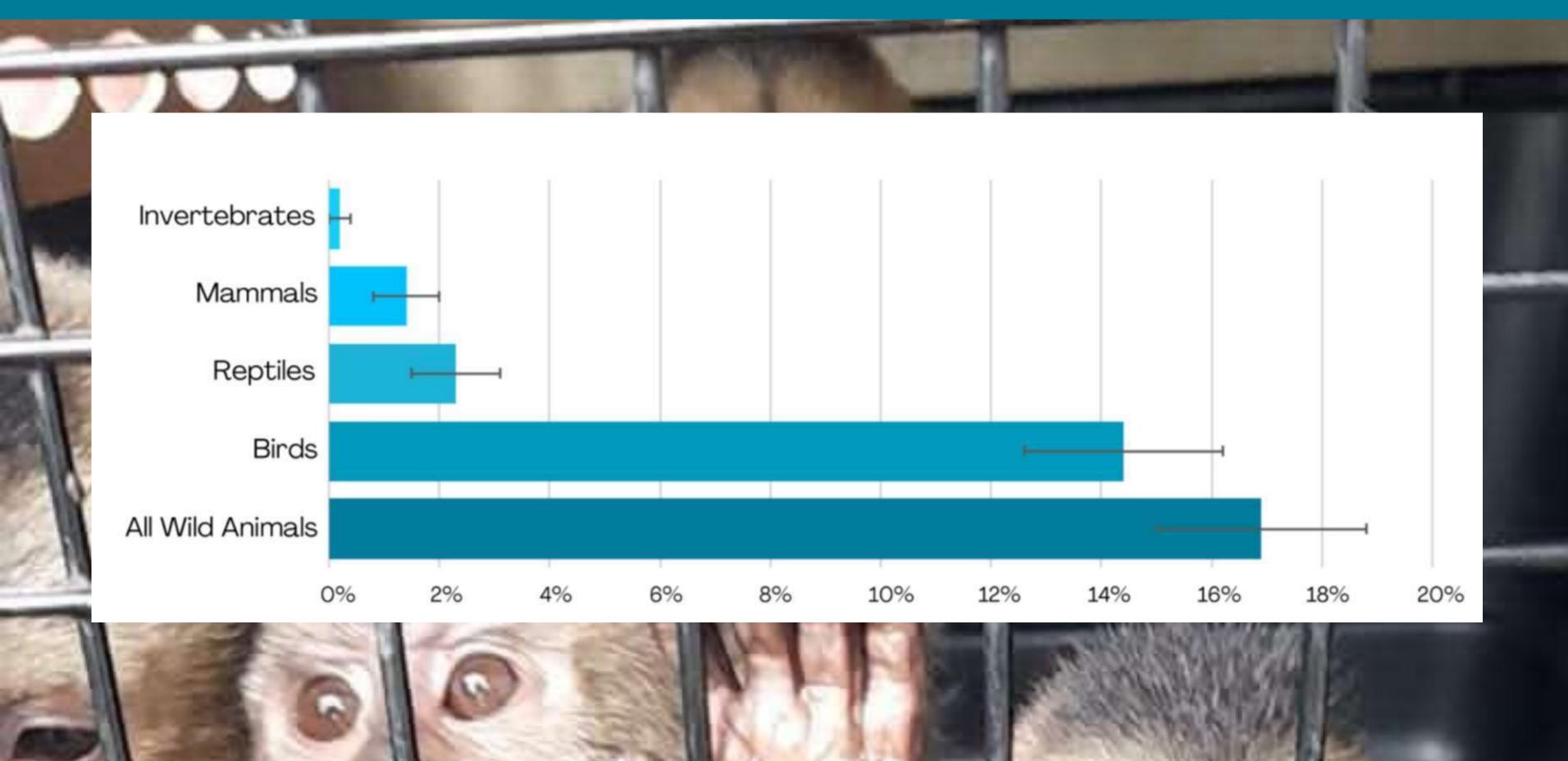


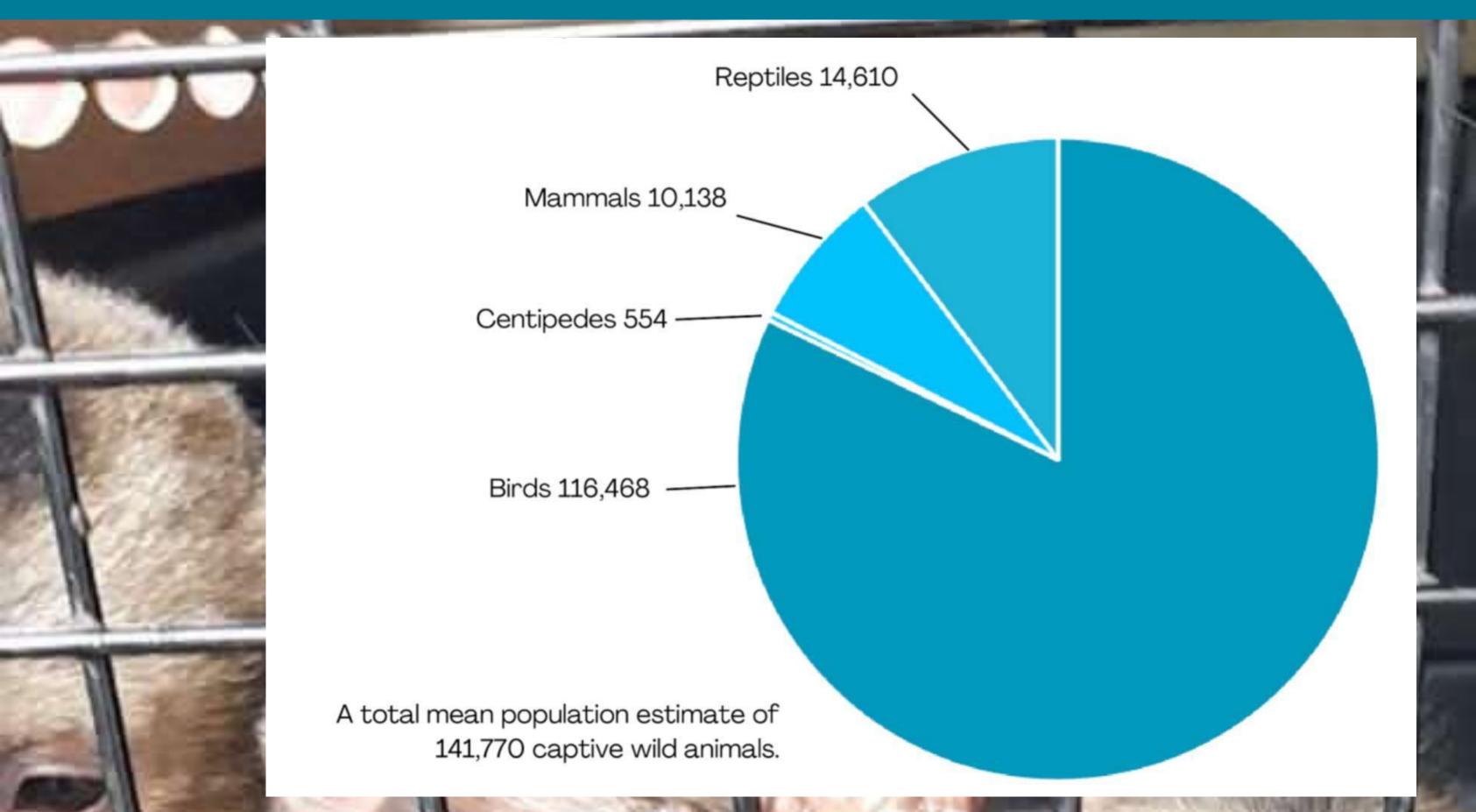




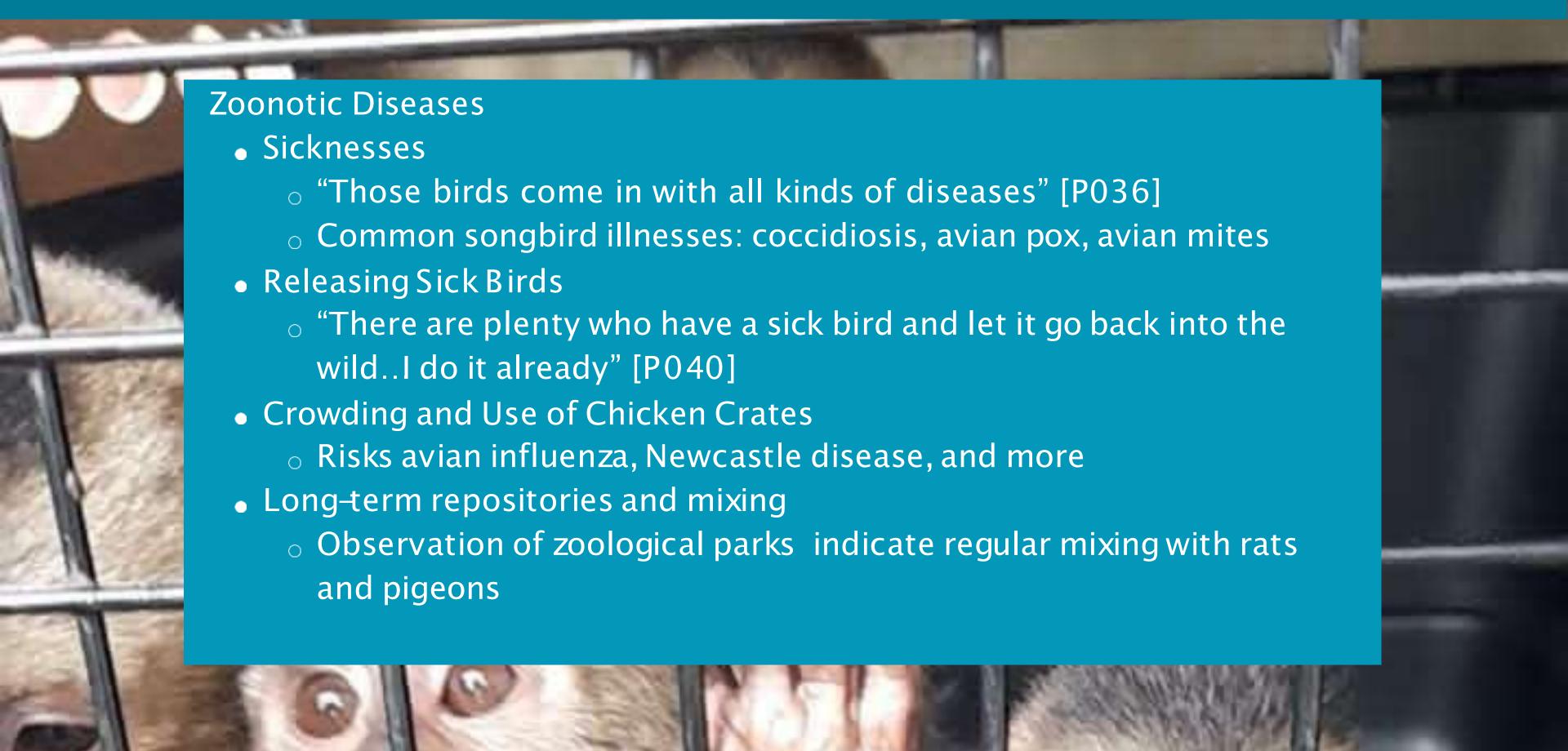




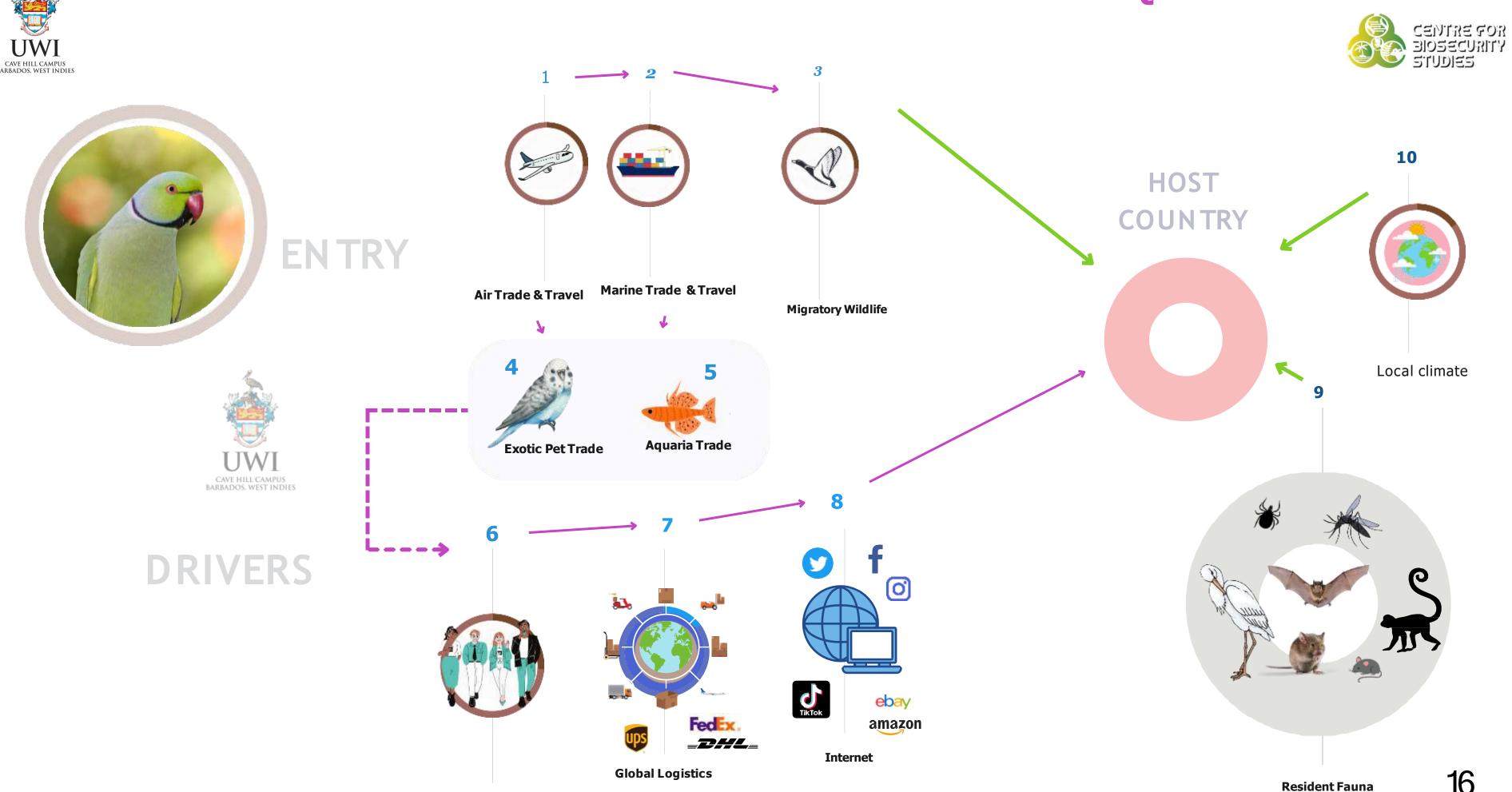




Harms to Public Health and Safety



ENTRY & ESTABLISHMENT OF ZOONOSES VIA PET & AQUARIA TRADE



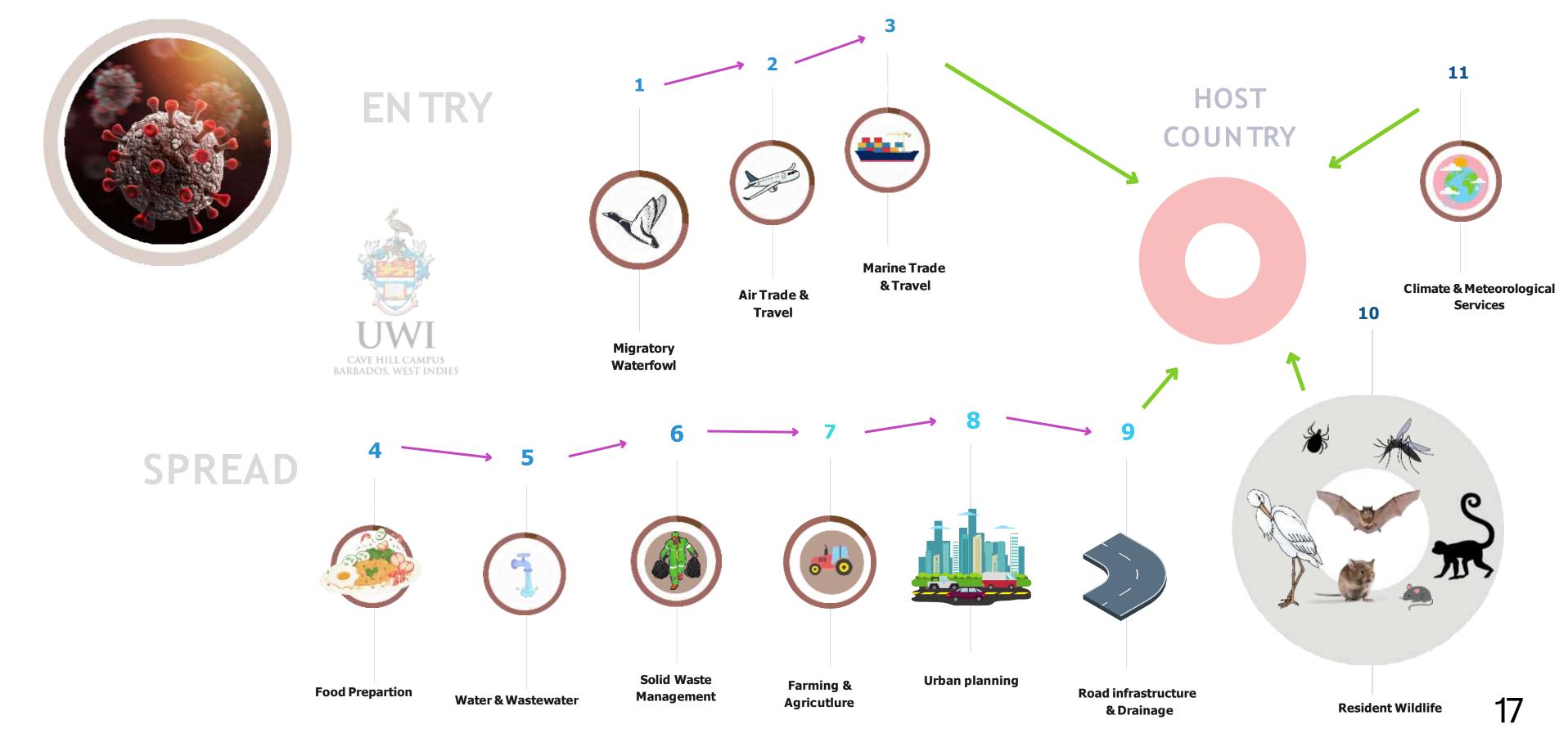
Social Behaviours

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ENTRY & SPREAD -EMERGING INFECTIOUS DISEASES

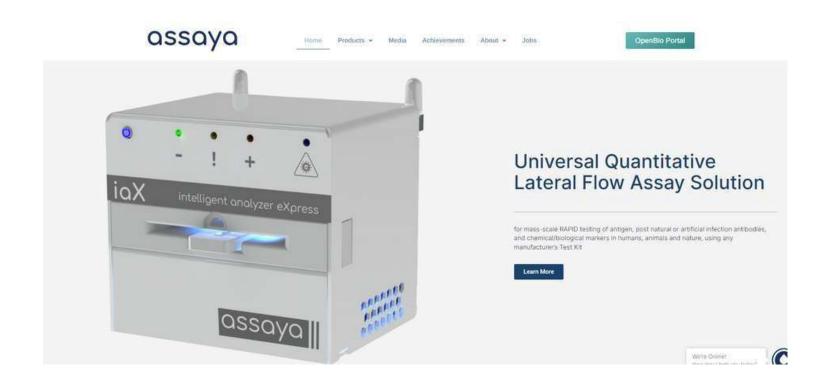








RAPID DIAGNOSTIC TESTING



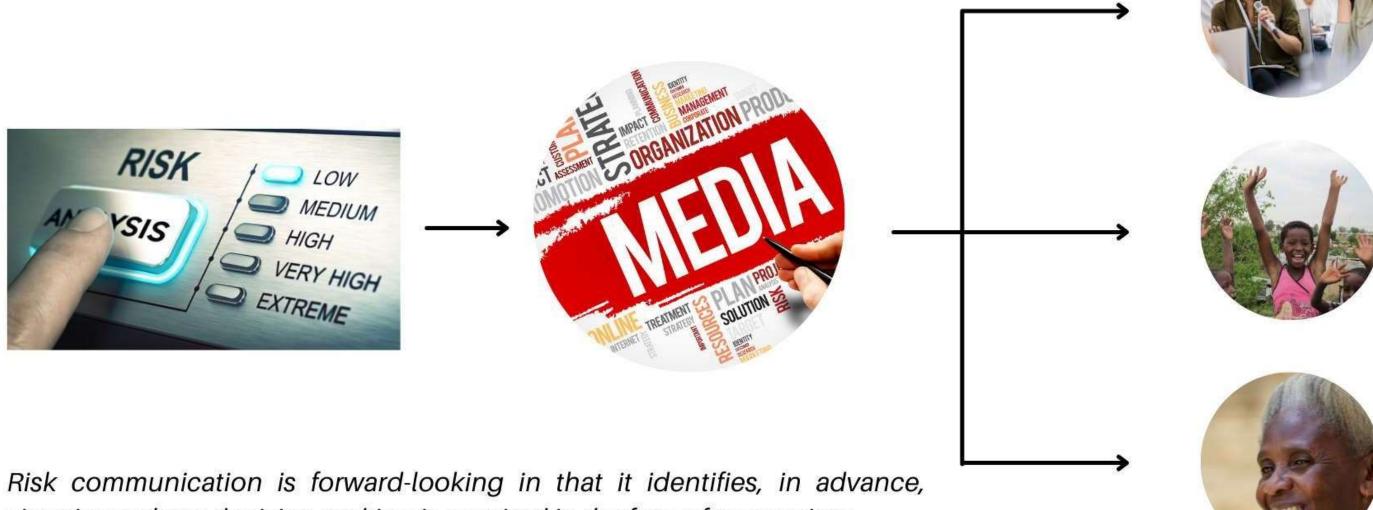
- Rapid ANTIGEN ASSAY TESTS
- High **SENSITIVITY** and **SPECIFICITY**
- Cloud-based data storage
- Wide diagnostic testing range for pathogens
- Implementation laboratories, border security sites
- Sharing of cloud data in a global network (WHO?)
- GENOMIC SEQUENCING



RISK COMMUNICATION - BIOSECURITY



....transporting information from sectors of production to those of reception (Briggs 2011)



situations where decision-making is required in the face of uncertainty



SUMMARY



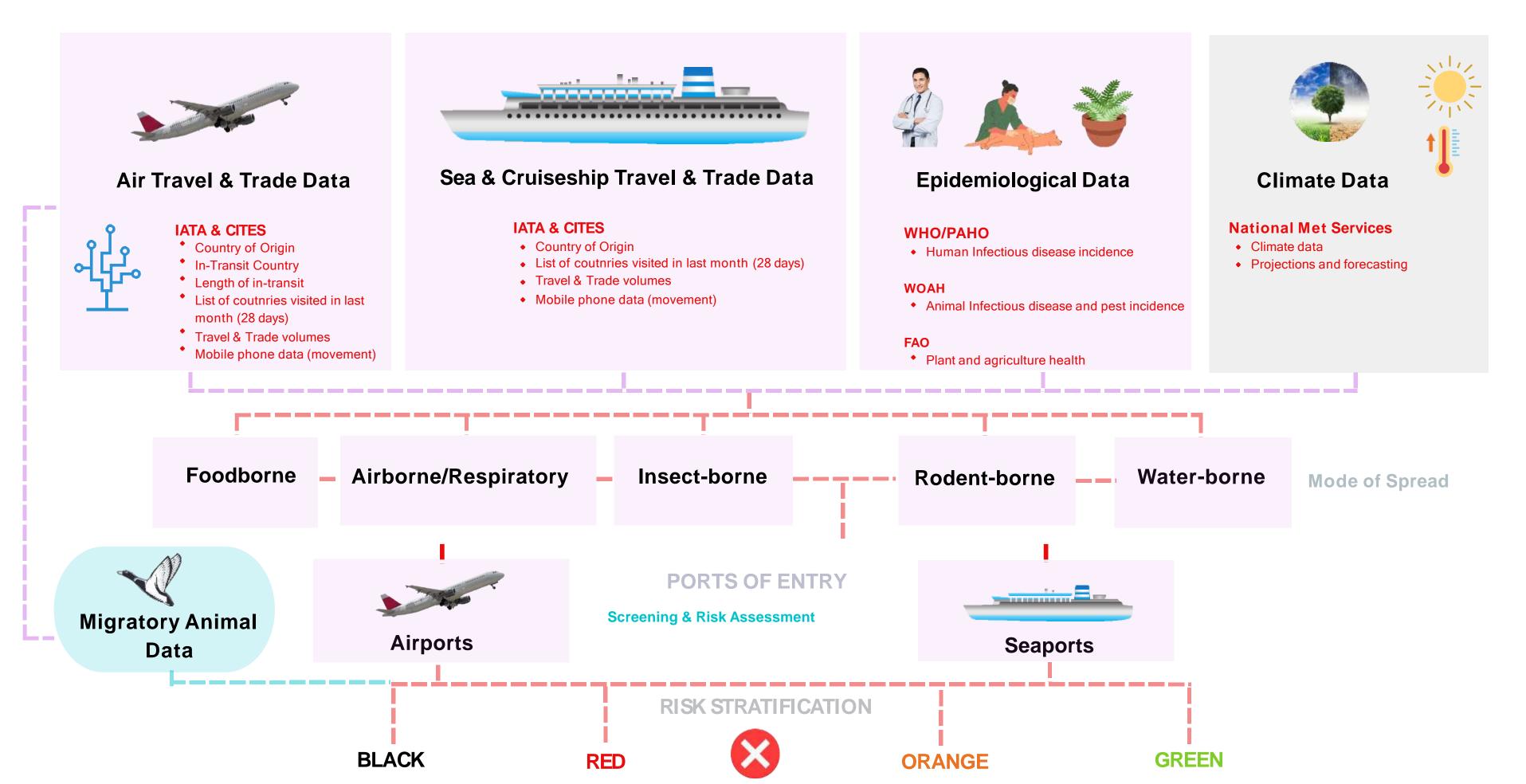
- INFRASTRUCTURE, HUMANS & ENVIRONMENT
- Global Wildlife Health Security needs to change its approach...quickly!
- Efficient data collection and rapid risk analysis
- Cyber border traffic data, global trade & travel data, climate data etc.
- Rapid diagnostic testing to determine infectious risk
- Rapid communication of risk to public and global sharing
- Rapidly breaking infectious chains of transmission
- Risk continues to change (dynamic)
- GWHS systems need to be able to manage this dynamism

GLOBAL BIOSECURITY & IAS PROBLEM AND SOLUTION FRAMING









Work with Us



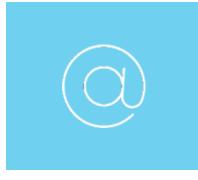
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