Overview of Current Global Situation and Key Challenges

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Taking a One Health Approach to Human Wildlife Conflict Mitigation
Ecosystem Health and Sustainability

Presentation Overview

Putting Things in Perspective

Zoonosis Hotspots—causes, prevalence, planet impact
The UN-2030 Sustainable Development Goals (SDGs)
The One Health & Wellbeing (OHW) concept
International One Health for One Planet Education Initiative (1 HOPE)

Global Challenges to Planet & Species’ Sustainability
Putting things in perspective

13.7 billion years ago - Big Bang - matter, energy, time, space
3.8 billion YA: organisms
2.5 MYA.. early humans - but just another species

200,000 YA modern Homo sapiens
12,000 YA: Agricultural Revolution
500 YA: Scientific Revolution
30 YA: Information / Tech Revolution

Today – Midst of Sixth Extinction Phase
Planet Sustainability?
Zoonosis causes prevalence impacts
Asia, Africa and Latin America...

• land-grabbing
• deforestation
• illegal mining
• wildlife poaching and trading
ZOONOSIS HOTSPOTS
What factors are increasing zoonosis emergence?
(Diseases transmitted from animals to humans)

- Deforestation and other land use changes
- Illegal and poorly regulated wildlife trade
- Intensified agriculture and livestock production
- Antimicrobial resistance
- Climate change

Source: UNEP Frontiers 2016 Report

#COVID19
Global Wildlife Populations Suffer Catastrophic Collapse

Decline in monitored vertebrate species populations between 1970 and 2016*

*Based on 20,811 populations of 4,392 species (mammals, birds, amphibians, reptiles and fish).

Source: 2020 Global Living Planet Index
“The population sizes of mammals, birds, fish, amphibians and reptiles have seen an alarming average drop of 68% since 1970.”

Earth now in sixth extinction phase!
The United Nations 2030 Sustainable Development Goals
Covid-19

“SDGs-epochal reversal”

Need for commitment to new global values, principles and actions!

“TO END POVERTY, PROTECT THE PLANET AND ENSURE THAT ALL PEOPLE ENJOY PEACE AND PROSPERITY BY 2030.”
The One Health & Wellbeing Concept/Approach (OHW)
Time to
Stop, Think and Do!

Global Challenges
Root Causes!

The One Health
& Well-Being Concept
(OHW)

Collaboration across sectors

Sustainability!

Cuts across all disciplines
The One Health & Well-Being Concept

- Applies to the planet and all species
- All disciplines, policies & strategies
GLOBAL CHALLENGES to SUSTAINABILITY
7 GLOBAL CHALLENGES

CLIMATE CHANGE

Population Growth

COVID-19

POVERTY

Inequality

Is Democracy Dying?

A Global Report

The threat of viral outbreaks will grow rapidly... Largely driven by population growth, wildlife encroachment, and globalization.
Biosphere is now the master!

I'm sure glad the hole isn't in our end...
THE ECONOMY SERVING SOCIETY*

SDGs

Circular Economy

*Stockholm Resilience Organisation
WHAT NEEDS TO CHANGE?

Societal & Workforce Development

NEW VALUES, KNOWLEDGE & COMPETENCIES

OUR GREATEST CHALLENGE

Changing Our Worldview

Human-Centrism (anthropocentrism) → Eco-Centrism

Ensuring the needs of humans are compatible with the needs of our ecosystems

“Harmonious Coexistence”
Ten Propositions for Global Sustainability

1. All 193 NATIONS OF THE WORLD collectively embraced the vision and aspirations set out in the UN declaration, ‘Transforming our World: The 2030 Agenda for Sustainable Development’, in word and concrete enabling actions?

2. GLOBAL GUIDELINES were evolved and agreed to ensure technology is used *only* for peaceful purposes and in support of the health and well-being of all species and the planet?

3. DECISION-MAKERS treated migration as a historical, complex, global human reality that we need to manage collaboratively, compassionately and responsibly with an emphasis on mitigating root causes (socio-political, economic, environmental) while enacting integrated, preventative life-sustaining measures?

4. GOVERNMENT, BUSINESS AND CIVIL SOCIETY collaborated at all levels and adopted a new paradigm – a new world view – to ensure our needs as human beings are compatible with the needs of our outer world – our ecosystem?

5. HUMAN VALUES AND MODERN LIFESTYLES – especially national vested interests and overconsumption (energy, water, raw materials ...) – were recognised globally as the leading cause of environmental degradation, eventual loss of resource bases threatening the sanctity and sustainability of all life?

6. NATURE was acknowledged as a major source of human thought processes and feeling – inspiration and creative learning as well as being a main factor in personal growth and development, thereby contributing to each individual’s quest of the realms of dreams and aspirations?

7. THE UNIFYING ONE HEALTH AND WELL-BEING CONCEPT became the cornerstone of our education systems and societal institutions, thereby contributing to the creation of a ‘more just, sustainable and peaceful world’ (UN-2030 Global Goals [SDGs])?

8. HUMANITY’S FUNDAMENTAL ROLE as human custodians of the planet was recognised and adopted globally, thereby ensuring the true regenerative power of our societies and fostering compassion, trust and goodwill?

9. THE UNITED NATIONS GENERAL ASSEMBLY (UNGA), guided by the human experience over millennia alongside global wisdom, and in a spirit of compassion, kindness, harmony and moral authority, agreed to prioritise, and actively promote the values of equality, democracy, tolerance and respect to bridge divisions between people and bind nations together?

10. ALL MEMBERS OF THE UNITED NATIONS SECURITY COUNCIL were held globally accountable for their role in maintaining world peace and security – based on a genuine commitment to shared people and planet values while giving a permanent voice to regions with the fastest population growth and social and economic disparities (e.g., Africa, India, Middle East, SE Asia – i.e., close to 6 billion people vs about 2 billion by 2050)?
International
One Health for One Planet Education & Transdisciplinary Research Initiatives

in association with national / global organisations

AIM
Build global capacity for valuing and promoting the One Health & Well-Being concept as the foundation for achieving the UN-2030 Sustainable Development Goals

Engaging
Africa, Americas, Asia, Europe, Middle East, Oceania via multi-disciplinary Advocacy & Development Teams

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HWC and a Green and Inclusive 
ECOSYSTEM HEALTH: 
GLOBAL SUSTAINABILITY
Thank you!

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Chapter 12

The University in the early Decades of the Third Millennium: Saving the World from itself?