COP26

Glasgow-2021

TACKLING THE ROOT CAUSES OF CLIMATE CHANGE:

IF NOT NOW, WHEN?

7 November 11:15 -11:45 AM GMT

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(1 HOPE-TDI)



TACKLING THE ROOT CAUSES OF CLIMATE CHANGE: If NOT NOW, WHEN?

FOCUS

'PUTTING THINGS IN PERSPECTIVE' GLOBAL EXISTENTIAL RISKS ENABLING ACTIONS FOR GLOBAL SUSTAINABILITY What if COP26 Fails?

To choose OUR future



Putting things in perspective Earth Evolution

13.7 billion years ago (BYA): matter, energy, time, space

3.8 BYA: organisms

575 million years ago (MYA); first animals

243 MYA: dinosaurs 210 MYA: mammals

c. 2.5 MYA.. humans - but just another species

c. 200,000 YA modern Homo sapiens - African continent-migrations

REVOLUTIONS SHAPING THE COURSE OF HISTORY

c. 70, 000 years ago (YA): Cognitive Revolution c.12,000 YA: Agricultural Revolution – c. 4 M people c.500 YA: Scientific Revolution- 60 M

c. 80 YA: first antibiotic (1935!)- c. 2 B

c. 30 YA: Information Revolution

TODAY 7.8 Billion People FIGHTING FOR SURVIVAL

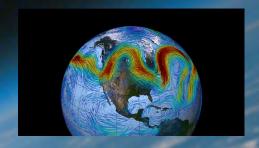








CLIMATE CHANGE

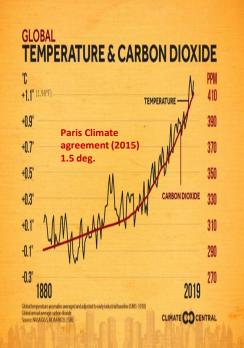


NASA: Waves in the atmosphere fueling extreme weather

Rate of carbon emissions (CO²) highest in 66 million years.

G20 & COP26 DEVELOPMENTS at Impakter

- https://impakter.com/g20-club-richest-nations-disappoints climate/
- https://impakter.com/cop26-can-rhetoric-be-transformed-intoaction/
- https://impakter.com/cop26-so-many-promises-but-where-is-the-money/



COP26



Intergovernmental Panel on Climate Change (IPCC)

Emissions need to fall by 45% from 2010 levels by 2030 to limit warming to 1.5C

projected rise 16% by 2030)

The Coal CONUNDRUM

PHASING OUT -2030/2040 or "as soon as possible"??

Global warming & the 'greenhouse effect'

1 Solar radiation reaches atmosphere 2 Some radiation is reflected into space but most is absorbed by the atmosphere & the planet's surface, sustaining life on Earth

3 Infrared radiation is emitted by Earth's surface

4

4 Atmospheric gases trap some infrared radiation, causing Earth's surface & lower atmosphere to warm

(5) Human activity - such as burning fossil fuels - increases the concentration of greenhouse gases, trapping extra heat & warming the planet

'Forests are green engine sucking up CO2'

DE-FORESTRATION

World lost 258,000 square kilometres of forest in 2020!

(CO)P26

End deforestration by 2030!

Reduce methane emissions 30% by 2030!

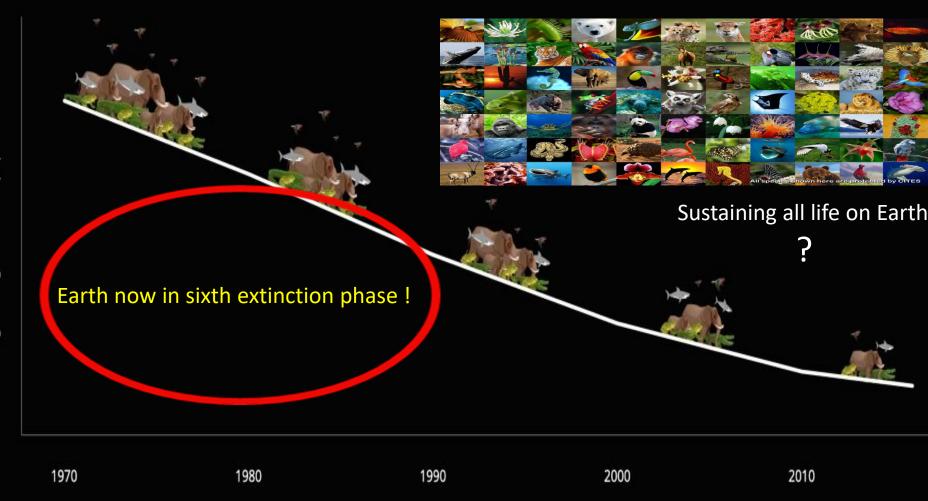
AMAZON RAIN FOREST

HOME TO MORE SPECIES
THAN ANY OTHER ECOSYSTEM
ON EARTH

BIODIVERSITY LOSS IMMENSE!



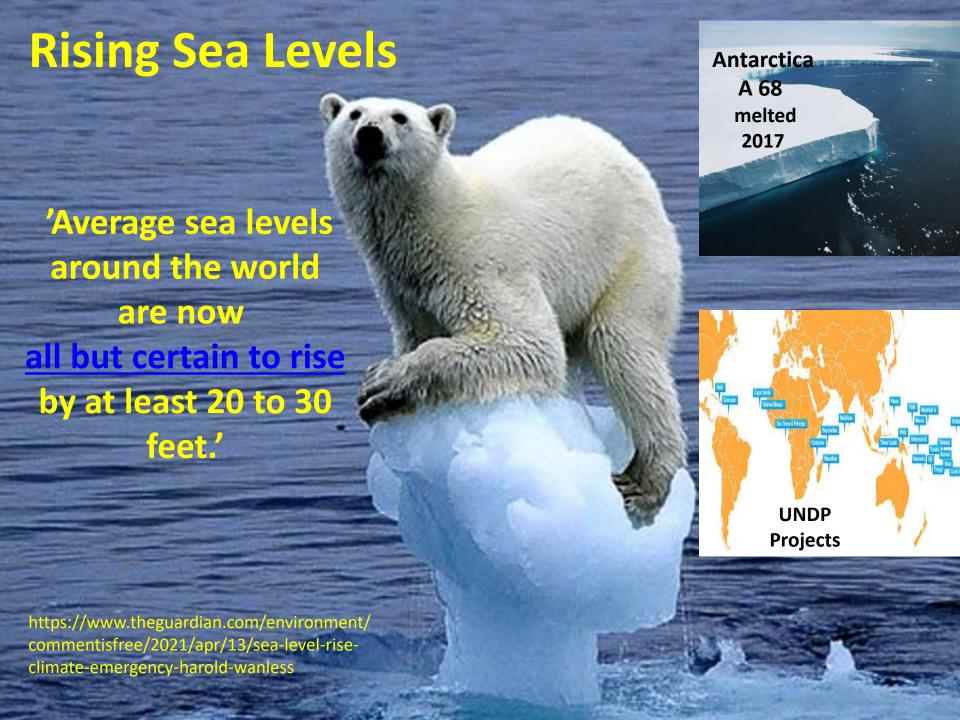
"The population sizes of mammals, birds, fish, amphibians and reptiles have seen an alarming average drop of 68% since 1970."





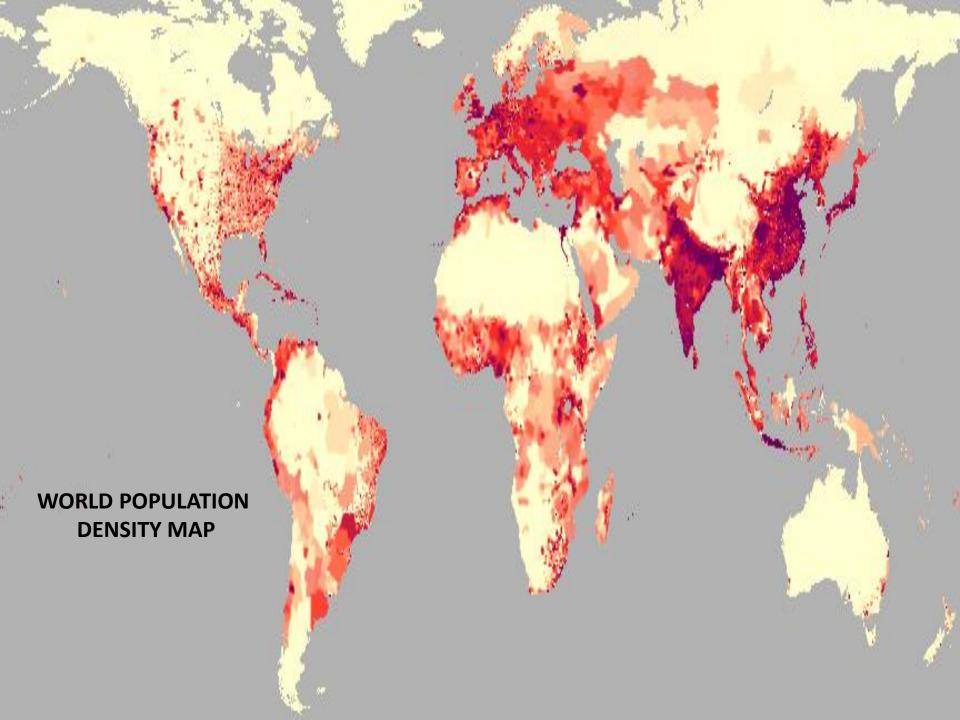
CHILDREN'S CLIMATE RISK INDEX











EXTREME POVERTY





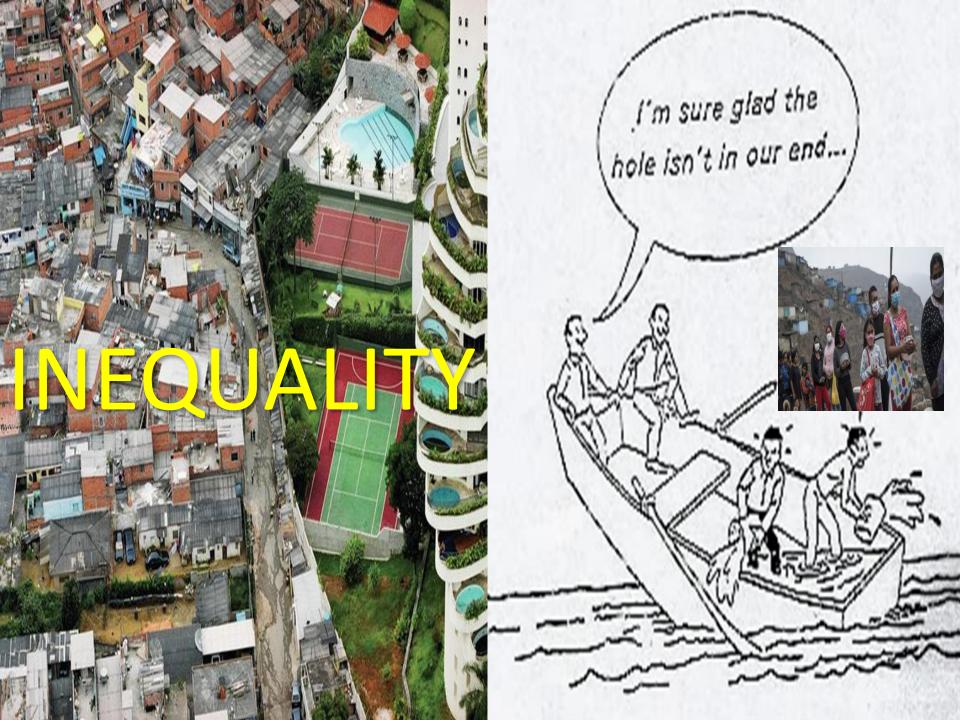
BEYOND BASIC INCOME
(World Bank - \$1.90 per day!

MULTIDIMENSIONAL DEPRIVATION

health, education, and living standards

1.3 billion people in
107 developing countries
Now Covid-19
+ c. 150 million more
in 2021!









TRIBALISM



"Increasingly today our society is in the grip of tribalism - a culture of 'them and us.'

When we look upon 'others' we fail to see their humanity"...

Ephraim Mirvis
Chief Rabbi of the United Hebrew
Congregations of the Commonwealth



The State of Democracy

Global Democracy Index rates, by country/territory (2020)*



Full democracies

9.00-10.00 c.7%

8.00-8.99

Flawed democracies

7.00-7.99

6.00-6.99

Hybrid regimes

5.00-5.99

4.00-4.99

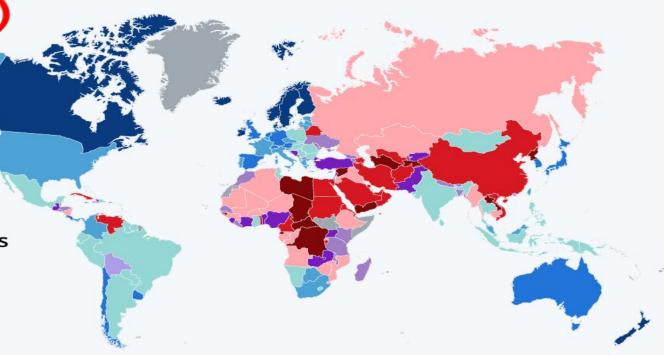
Authoritarian regimes

3.00-3.99

2.00-2.99

0-1.99

No data



* takes into account electoral process and pluralism; civil liberties; the functioning of government; political participation; and political culture Source: The Economist Intelligence Unit









WHAT WE DO NEED!

Political Will & Visionary Leadership

TRUTH vs DISINFORMATION

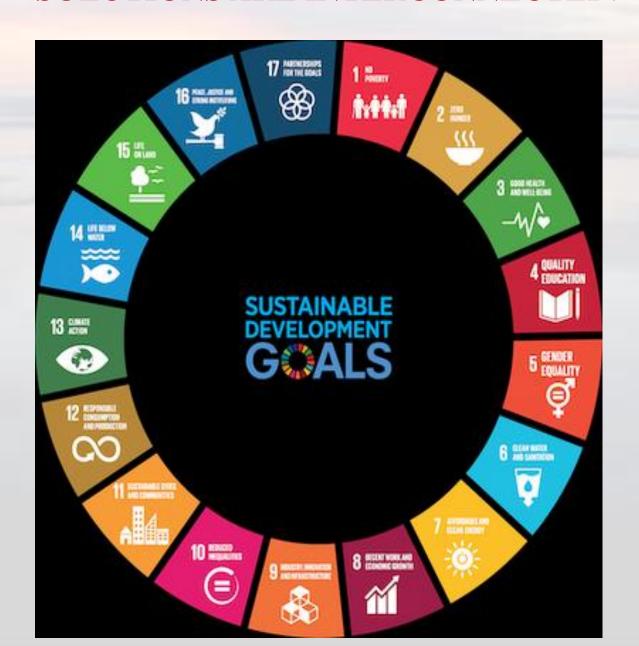
FROM
SELF-INTERESTS,
POWER & AMBITION

TRUST, COMPASSION & UNDERSTANDING



ALL ROOT CAUSES & SOLUTIONS ARE INTERCONNECTED!











OUR GREATEST CHALLENGE? "Unity Around a Common Cause"



Changing Our Worldview

-Belief Systems / Mental Models-

Rise Above Divisions WE Have Created!

Human-Centrism

(anthropocentrism)

Eco-Centrism

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

"Harmonious Coexistence"

ADOPT



WORLD BANK ONE HEALTH
OPERATIONAL FRAMEWORK



One Health
(& Well-Being)
Concept

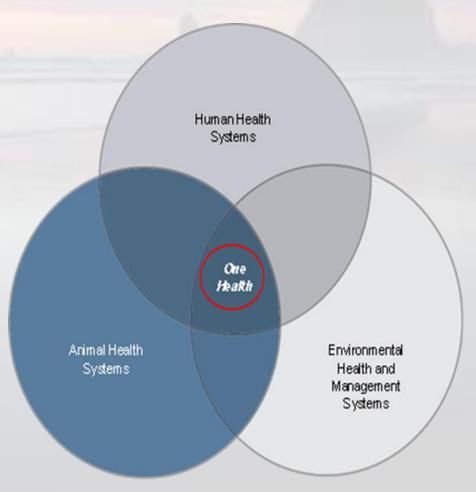
INTERDEPENDENCE OF HUMANS, ANIMALS, PLANTS IN A SHARED ENVIRONMENT

Approach

SECTORAL COLLABORATION
FOCUS ON PREVENTION
ADDRESS ROOT CAUSES!

APPLIES TO ALL POLICIES

& DISCIPLINES!



GLOBAL SUSTAINABILITY

CALL to ACTION

One Health & Wellbeing

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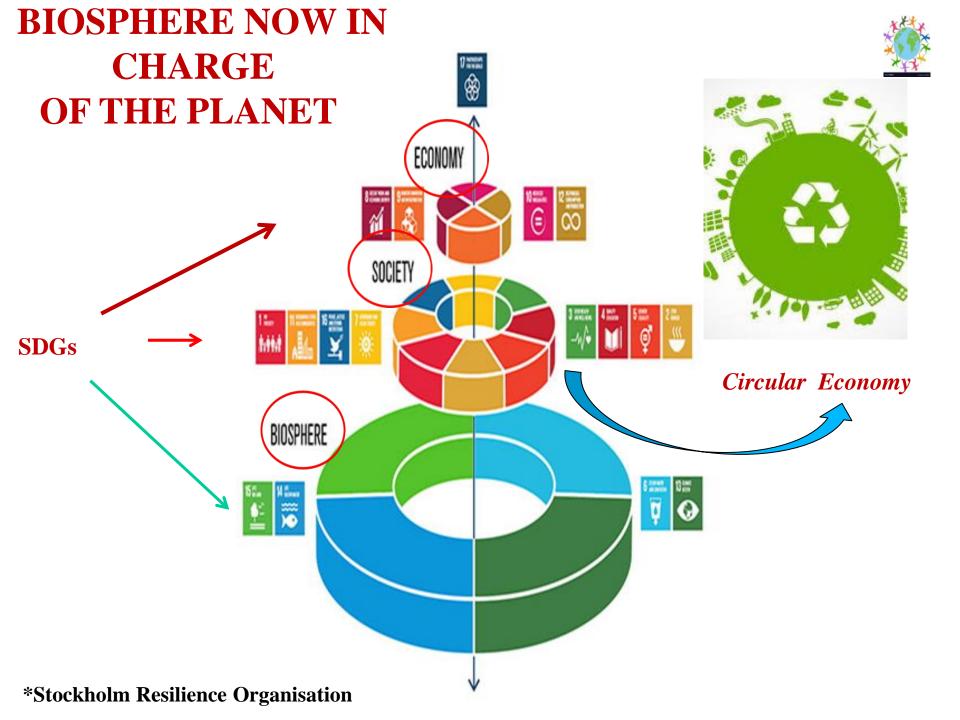
andrea.winkler@tum.de

"Brain Health, One Health and COVID-19"
October 11, 2021

"We call on decision-makers to make One Health the new norm across the various sectors while inventing and implementing

equitable economic systems that have human, animal and environmental health at their cores."

Co-Chair, The Lancet One Health Commission



INTERNATIONAL ONE HEALTH for ONE PLANET EDUCATION & TRANSDISCIPLINARITY INITIATIVE (1 HOPE-TDI)



in association with national / global organisations



VISION

EMBRACE

ONE HEALTH & WELLBEING APPROACH
AND the UN-2030 SUSTAINABLE DEVELOPMENT GOALS

GLOBAL REGIONS – NEW SOCIETAL NARRATIVE

'EQUAL ATTENTION TO HEALTH & WELLBEING OF ECOSYSTEMS, ANIMALS, HUMANS'

LEARN MORE?

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What if COP26 fails?



Start blaming each other

From

"How can our relations with other states help with climate change?"

to

"How does climate change affect our relations with others?"

"veer towards penalties and reprisals"

More fractious, divided and dangerous world"....

ANOTHER COP - 2023?

REFORM HE UNITED NATIONS **ECURITY COUNCIL**

United Nations Security Council

Source: UN (un.org/en/sc/) | October 19, 2017

Solution Non-perma.

Asia (°) SINCE 1946! TODAY representing Permanent members, veto rights (5) 2 billion people China, France, Russia, UK, USA Non-permanent members, two-year terms (10) Latin America (2) Western Europe and others (2) Eastern Europe (1) · The Security Council has the primary respo sibility within the UN of maintaining international peace and security

© DW

• It is the only United Nations organ that has

the power to make decisions that member

states are obligated to implement



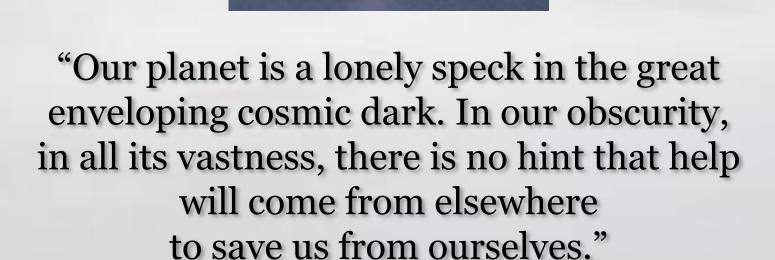
SDGs!?

I COM TO LE



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Voyager 1 (launched 1977) Last Photo of Earth 1990



Pale Blue Dot Prof Carl Sagan 1994





To choose our future



'We need to refashion our institutional systems and transform our current attitudes to virtually all aspects of society and the economy - consumption patterns and wellbeing, technology and production systems, enterprise and distributive justice - all of which have in the light of today's circumstances and knowledge need to be reoriented to conform to the principles of an inclusive and circular economy. This implies that the poorest and marginalised are put at the centre of economic and social attention and the restoration and regeneration natural systems become the boundary conditions that must not be transgressed, not just for future generations but also for those of today.'

<u>Dr. Ashok Khosla.</u> (2015). <u>Development Alternatives</u>. Club of Rome