

COVID and the SDGs: Two Possible Futures



Working from Home



Social Distancing & Human Resilience



The Corona Mood Barometer

Emotions and Associated Topics in May 2020

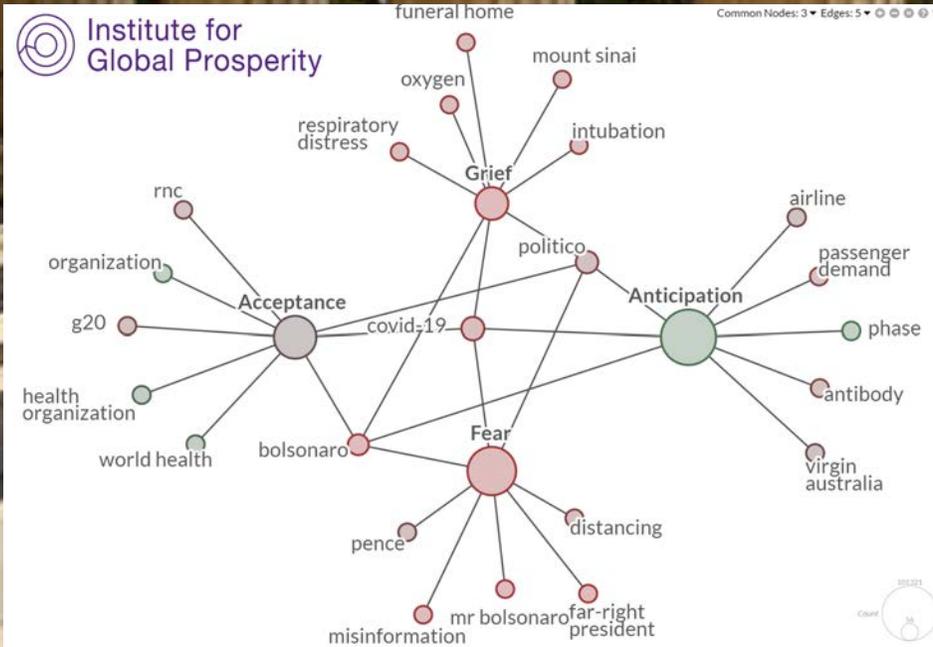
● Anticipation
 ● Vigilance
 ● Fear
 ● Anger
 ● Sadness



Source: International English-Language News Media Coverage
 May 1-31, 2020 • 178,100 online articles
www.weblyzard.com/corona-mood-barometer

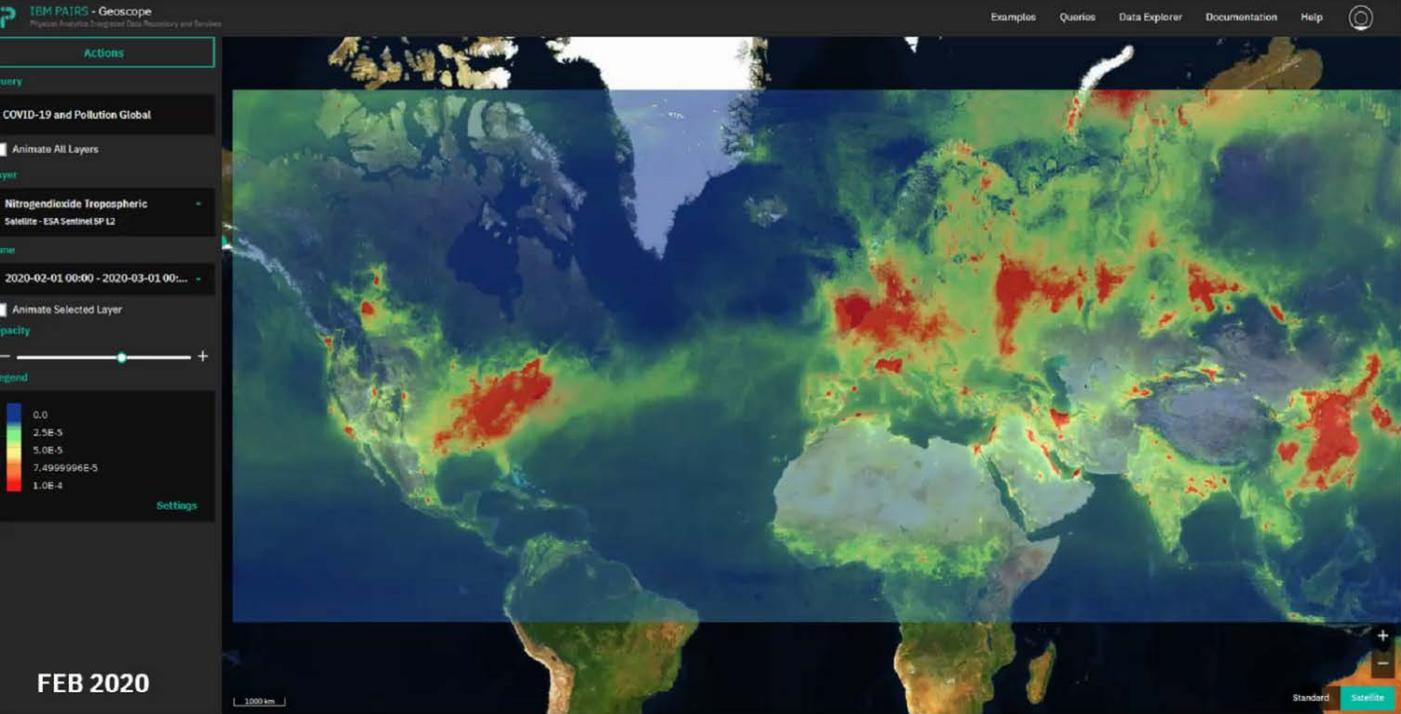


Increasing Trust & Acceptance of Research

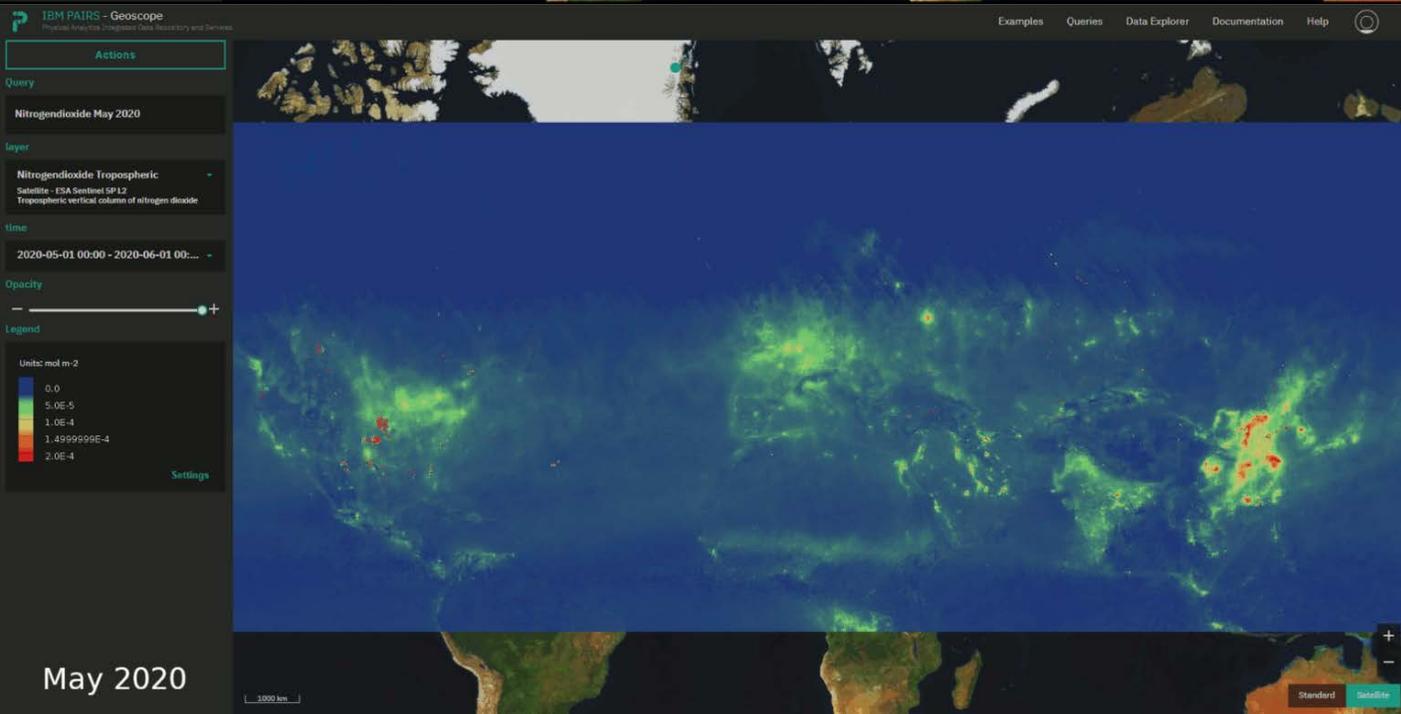


Growing Planetary Awareness





**I CAN'T
BREATHE**
BLACK LIVES MATTER



COVID-19 AND HUMAN DEVELOPMENT:

Assessing the Crisis, Envisioning the Recovery



Empowered lives.
Resilient nations.

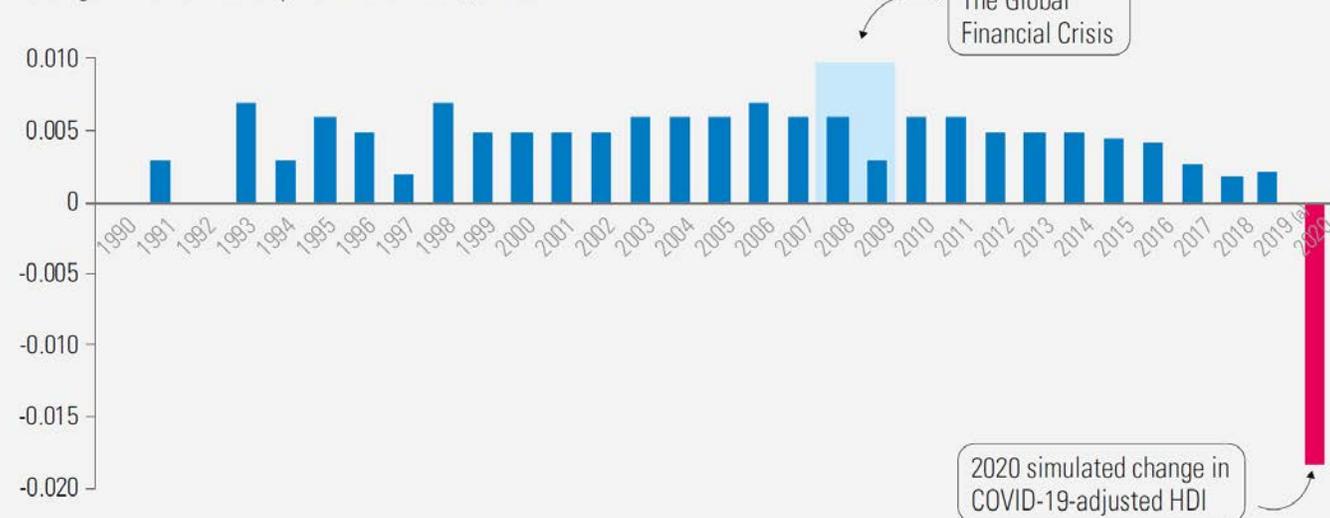


The coronavirus pandemic has shown us a new world – one where the status quo no longer exists.

Millions of people are experiencing untold misery and suffering as the virus overwhelms our bodies and economies.

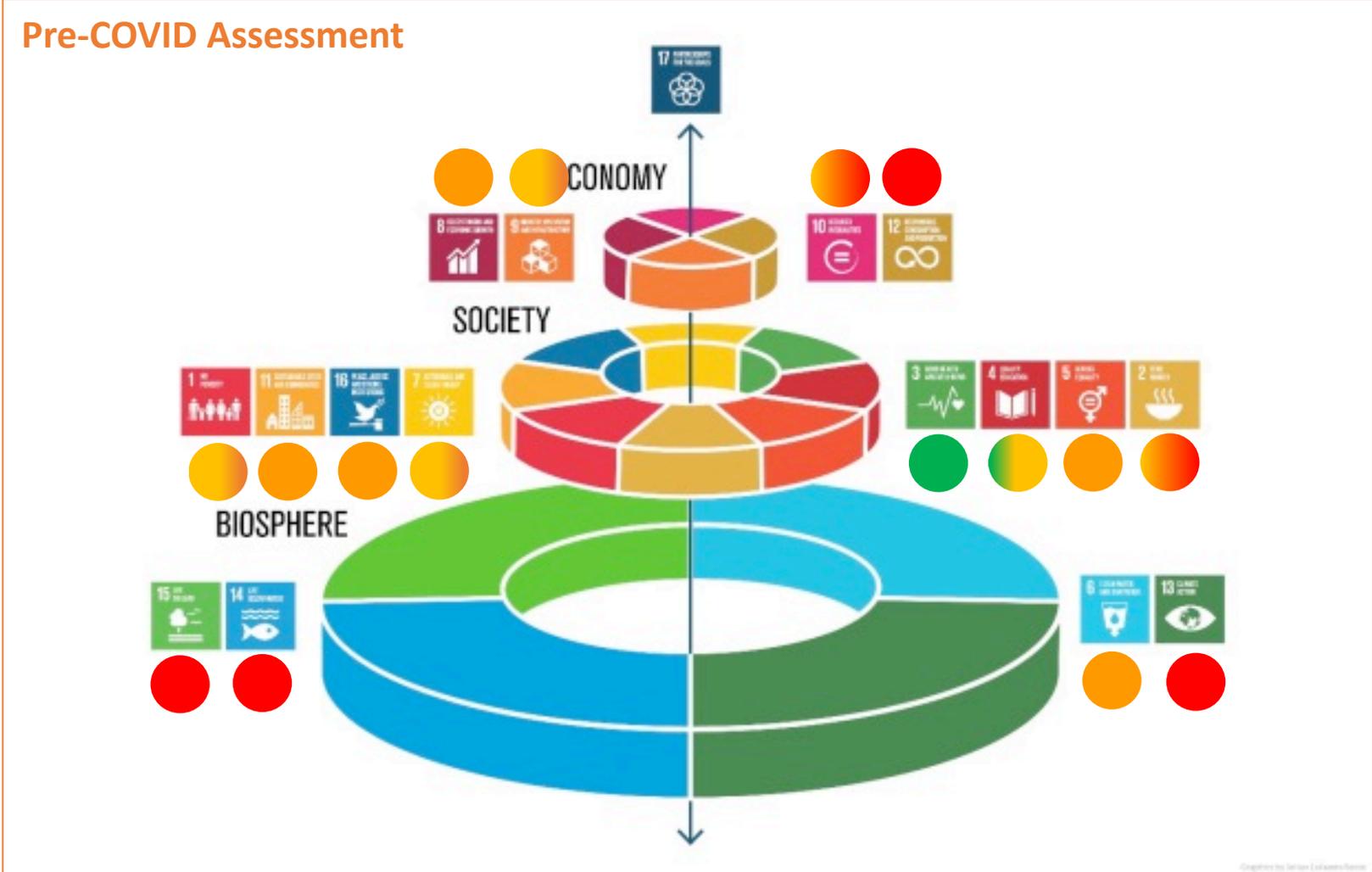
Rich and poor, the pandemic has forced us to reconsider almost every aspect of how we live.

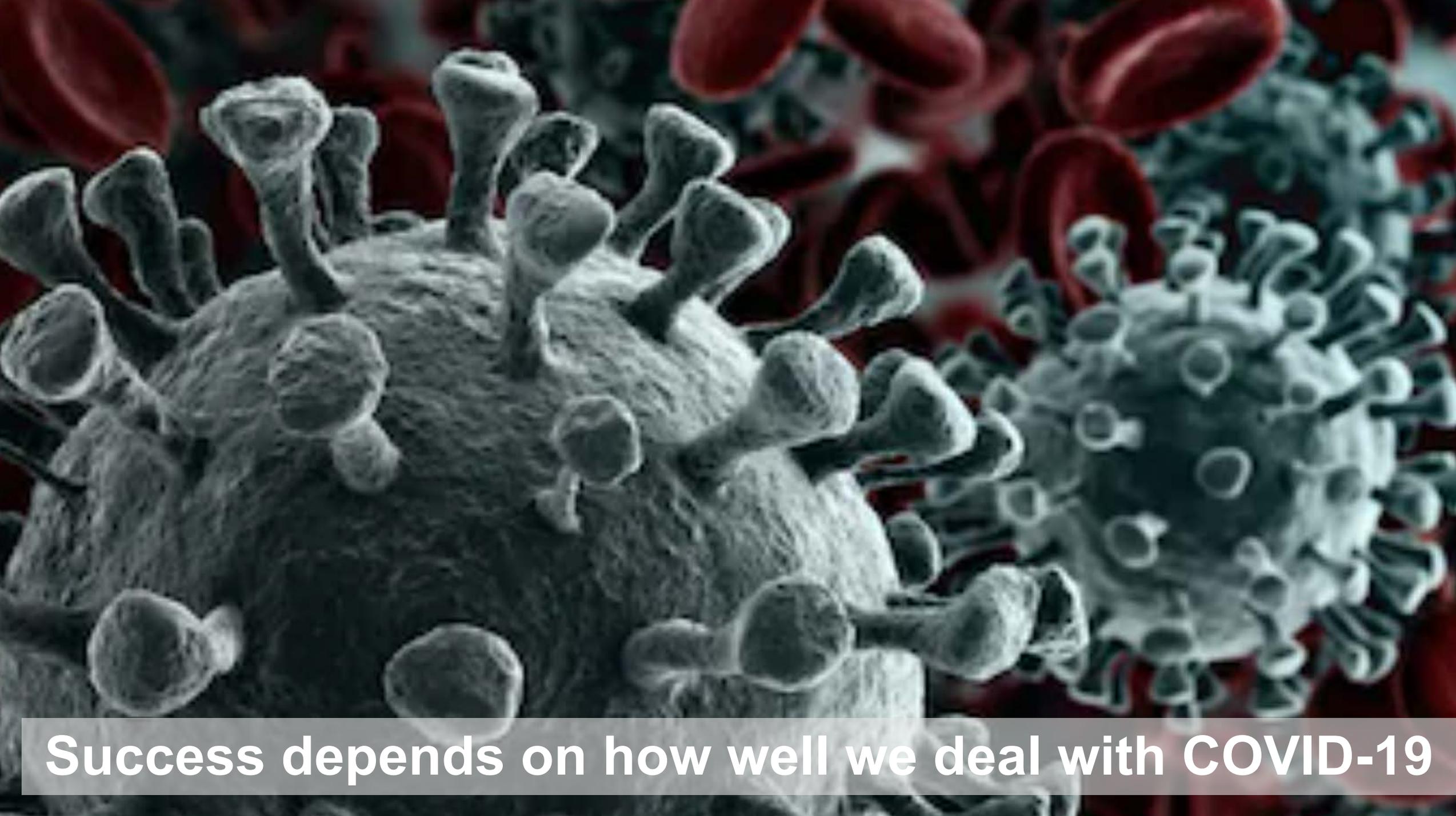
Change in Human Development Index value, annual



a) The 2019 value is a provisional estimate.

How can we build ~~back~~ and sustain a just and sustainable planet?





Success depends on how well we deal with COVID-19

LEARNING FROM PAST LESSONS

1920s

Spanish Flu



harsh penalties
reparation
payments
loss of territory
forced
demilitarisation

1940s



reconstruction of the global economy
massive foreign aid programs
more democratic, resilient and stable way
creation of the Bretton Woods institutions
ensuring peace, stabilizing trade, full
employment and promotion of economic
growth globally.
Gross Domestic Product (GDP)

1950-90s



massive and growing inequality
frayed social safety nets
oligarchic control of governments
rapidly worsening climate
accelerating loss of natural
capital and ecosystem services
general loss of system resilience
Millennium Goals (MDGs)

1990 - 2010s



2020s?

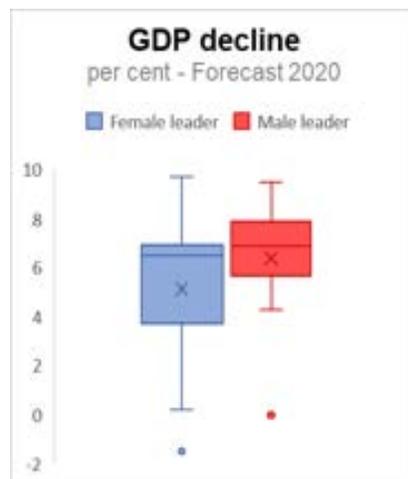
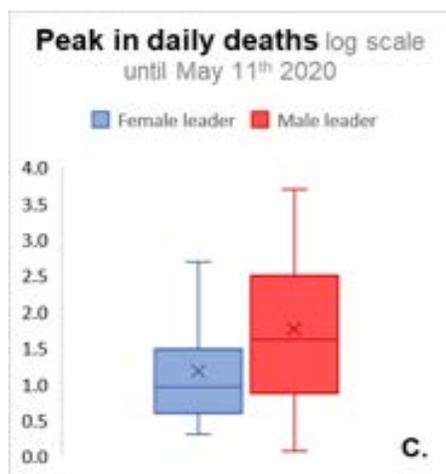
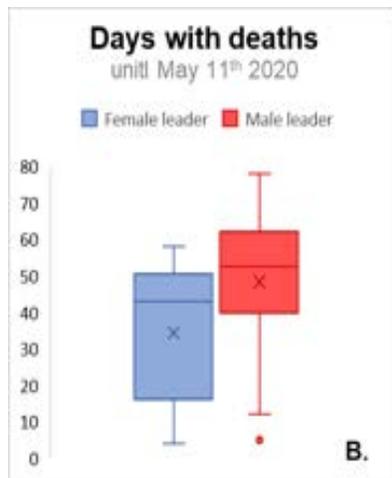
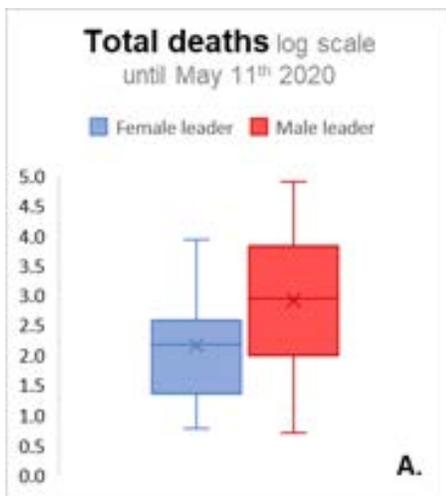
COVID-19



Anthropocene
Increasing social and
economic
development
COVID-19
planetary emergency
Sustainable
Development Goals
(SDGs)

DEALING WITH COVID-19 LEADERSHIP EFFECTS

Countries with female leaders perform better across a broad range of social progress, equality and wellbeing indicators



	Female leader	Male leader
Social Progress Index	87	83
Basic Human Needs	95	93
Foundations of Wellbeing	87	84
Opportunity	78	73
Gini coefficient	29	33
Gender Inequality Index	0.08	0.13
Generosity (rank)	45	59
Happiness (rank)	22	34

CASCADING THE POSITIVES

Minimizing the damage caused by the pandemic

Recovering quickly from the damages and building on the economic responses to COVID

Holding on and building further on the positive changes introduced to healthcare, social protection and governance systems during the pandemic

Sustaining the gains in planetary-related SDGs that have occurred during the pandemic

Sustaining local economies and partnerships



DESIGNING PROSPEROUS FUTURES



Build Back Better

Current Economic Model

Sustainable Wellbeing Economy Model

Primary policy goal

Focus on growth GDP More is better

Focus on human wellbeing development More is not always better

Role of environment

Markets assumed to overcome any resource limits

Natural capital and ecosystem services are not infinite

Distribution & poverty

Trickle-down policies: rising tide lifts all boats

Primary concern: a to rapid tide lifts yachts and swamps small boats

Role of Universities

Hierarchical and primarily single generational

Multilevel and intergenerational

Role of Government

Interventions minimised

Central role, new functions as facilitator and broker in new common-asset institutions

Principles of governance

Laissez-faire market capitalism

Lisbon principles of sustainable governance



- COLLABORATE in pursuit of innovative policy approaches to create wellbeing economies – sharing what works and what does not, to inform policymaking for change.
- PROGRESS toward the UN Sustainable Development Goals, in line with Goal 17, fostering partnership and cooperation to identify approaches to delivering wellbeing.
- ADDRESS the pressing economic, social, and environmental challenges of our time.

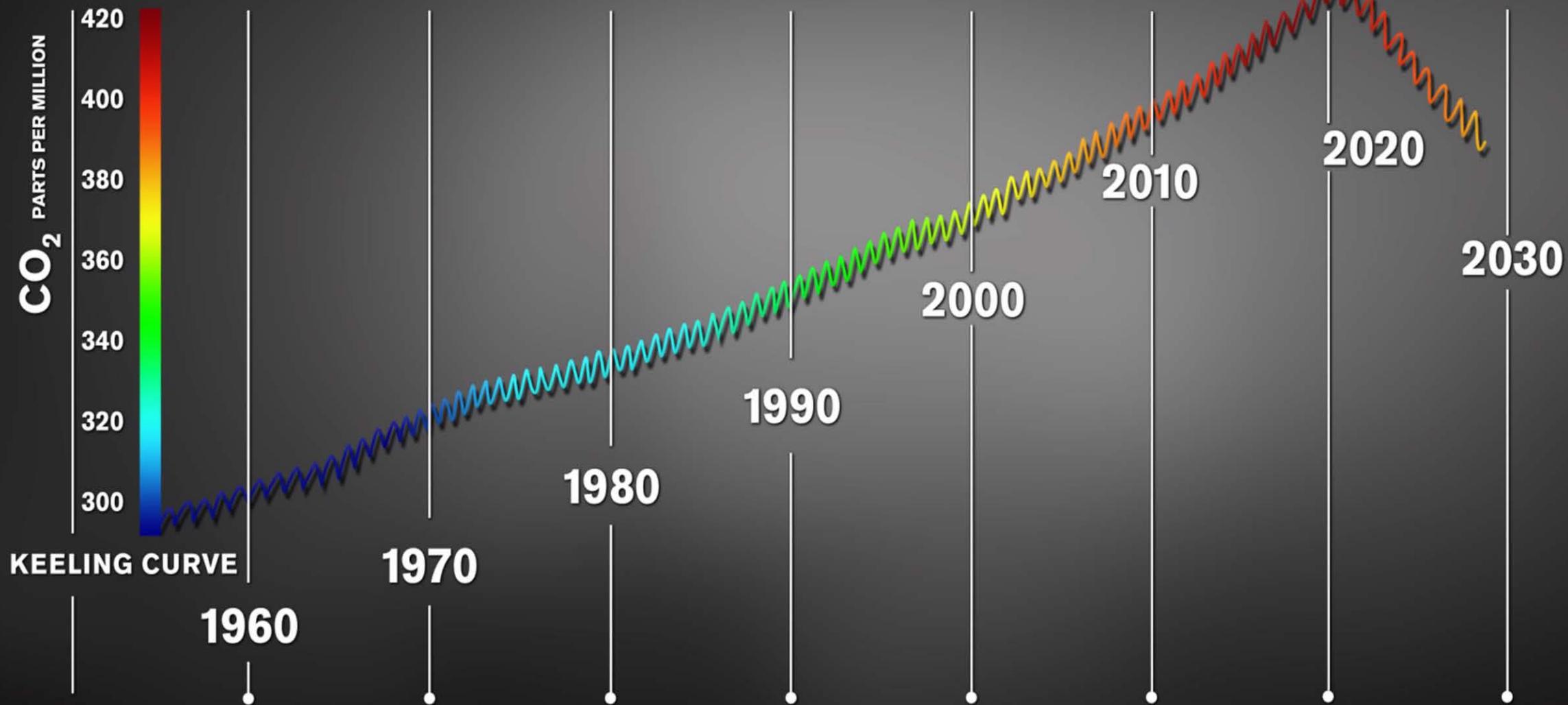
Wellbeing Economy Governments

The Wellbeing Economy Governments partnership (WEGo) is a collaboration of national and regional governments promoting sharing of expertise and transferrable policy practices. The aims are to deepen their understanding and advance their shared ambition of building wellbeing economies. WEGo, which currently comprises Scotland, New Zealand, Iceland, and Wales, is founded on the recognition that ‘development’ in the 21st century entails delivering human and ecological wellbeing.



Nicola Sturgeon Scotland's First Minister

DRAWDOWN





IMPROVED RICE CULTIVATION



TROPICAL FORESTS



SILVOPASTURE



REGENERATIVE AGRICULTURE



TEMPERATE FORESTS



PEATLANDS



TROPICAL STAPLE TREES



AFFORESTATION



CONSERVATION AGRICULTURE



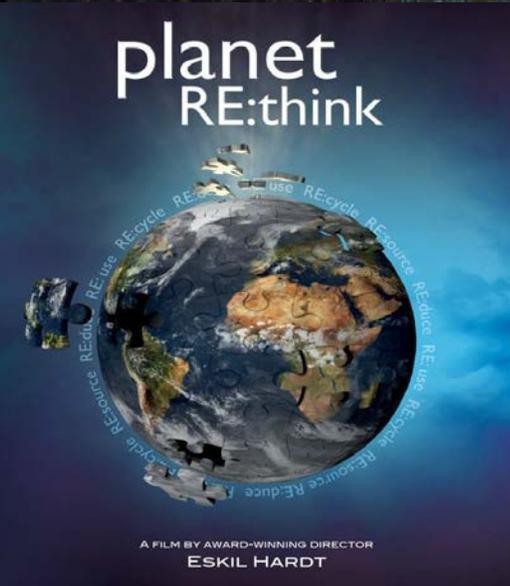
TREE INTERCROPPING



MANAGED GRAZING



PLANT-RICH DIET



planet RE:think

A FILM BY AWARD-WINNING DIRECTOR
ESKIL HARDT



SEAWEED FARMING



BAMBOO



FOREST CONSERVATION



INDIGENOUS PEOPLES' LAND MANAGEMENT



PERENNIAL BIOMASS



COASTAL WETLANDS



SYSTEM OF RICE INTENSIFICATION



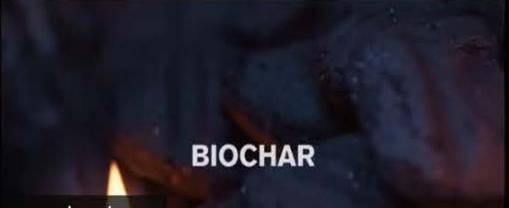
LANDFILL METHANE



FARMLAND RESTORATION



FARMLAND IRRIGATION



BIOCHAR



GREEN ROOFS

RETHINKING HOW WE USE OUR PLANET'S RESOURCES





The BECCS Approach

COASTAL WETLAND PROTECTION



FOREST PROTECTION



SUSTAINABLE INTENSIFICATION FOR SMALLHOLDERS



INDIGENOUS PEOPLES' FOREST TENURE



CONSERVATION AGRICULTURE



PEATLAND PROTECTION AND REWETTING



FARM IRRIGATION EFFICIENCY



REGENERATIVE ANNUAL CROPPING



NUTRIENT MANAGEMENT



GRASSLAND PROTECTION



IMPROVED RICE PRODUCTION



SYSTEM OF RICE INTENSIFICATION



Biodiversity and **E**cosystems services with **C**arbon **C**apture and **S**torage

We are going beyond the original definition of BECCS to use the full potential of land and coastal areas to trap carbon through enhancement of the underlying ecosystems.



Land use is critical for our future

We must prioritise land regeneration to effect change



BexBox is an app that helps land stewards use their land cultivation processes to maximise its value for biodiversity, social and economic benefits, resilience, and carbon capture.

Our mission is to halve global emissions by 2030 using *Biodiversity and Ecosystem services for Carbon Capture and Sequestration* to transform agriculture, reduce emissions and draw carbon down from the atmosphere.

Decarbonising our Energy



Off-Grid Solutions





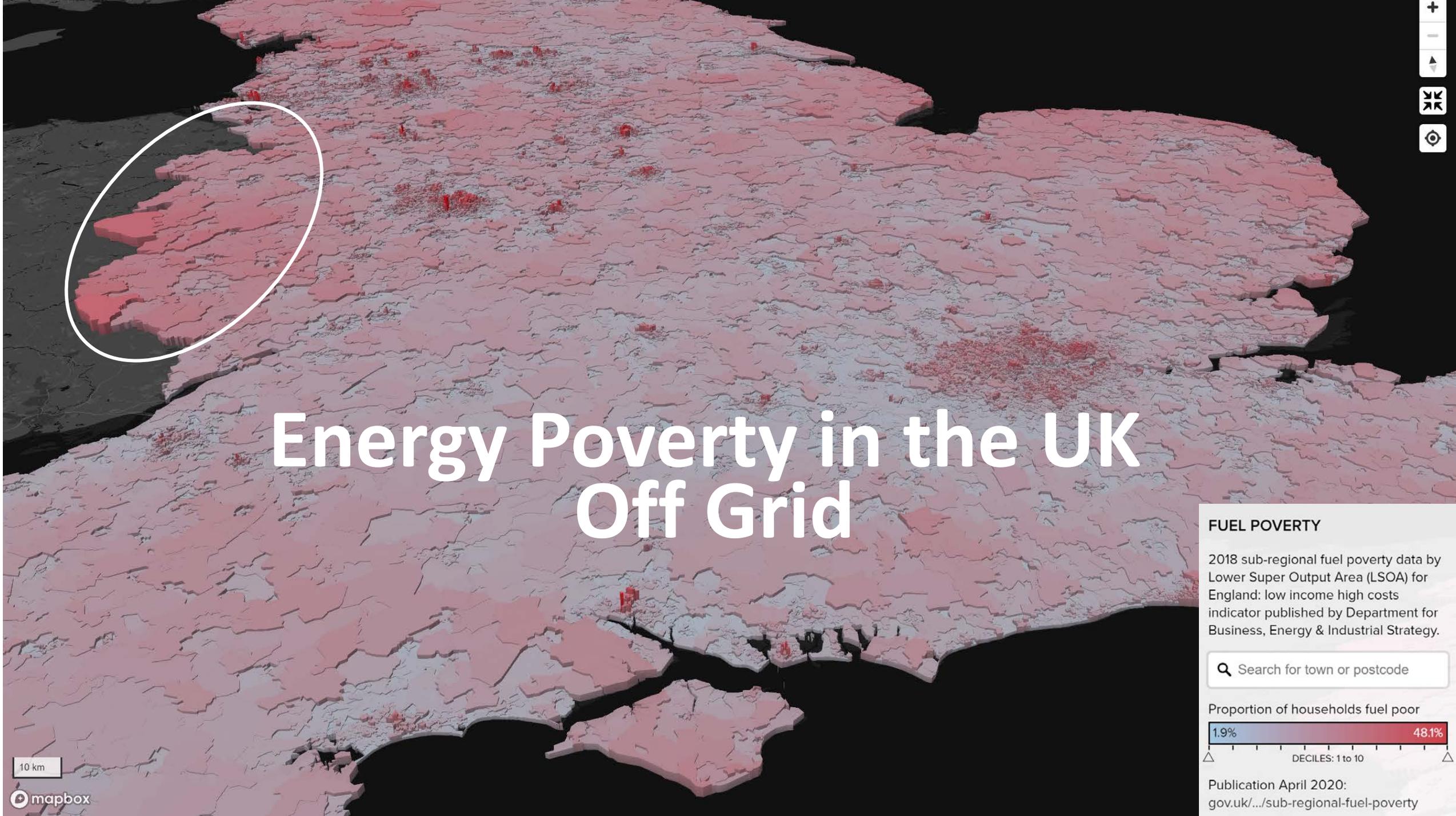
Ancient Energy Sources



Traditional BioEnergy Sources

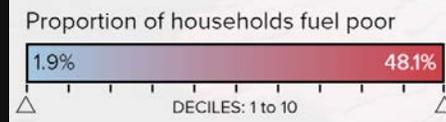
Reaching the Last Mile – Effective Energy for the Poorest





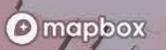
Energy Poverty in the UK Off Grid

FUEL POVERTY
2018 sub-regional fuel poverty data by Lower Super Output Area (LSOA) for England: low income high costs indicator published by Department for Business, Energy & Industrial Strategy.



Publication April 2020:
[gov.uk/.../sub-regional-fuel-poverty](https://www.gov.uk/.../sub-regional-fuel-poverty)

10 km



Women Energy Entrepreneurs



Energy – Mobile Phone Charging



Mobile phones – Key metric of development

- Today there are 4.78 billion mobile phones users (61.5% of people; 3.5 billion are smart phones (45% of people))

How Many Mobile Connections Are There Worldwide?



7.77Billion

World Population



9.82Billion

Mobile Connections



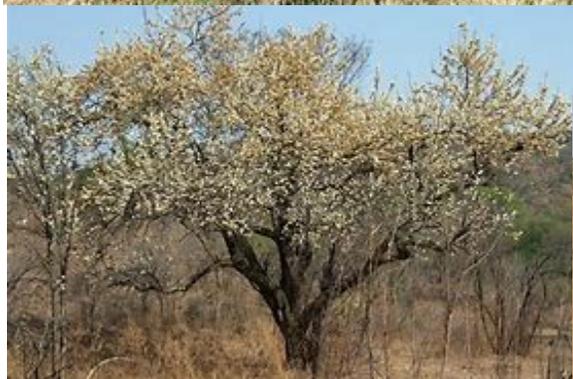
5.28Billion

Unique Mobile Subscribers

- By 2023 mobile users will increase to 7.33 billion; by 2025 72% of all internet users will solely use smartphones to access the web Statista

Source: Statista; WARC

Opening New Medicinal Sources



medicines to treat cancer, arthritis, human bacterial infections, Alzheimer's disease, heart disease, viruses, and other diseases and possibly COVID

nutritional supplements, cosmetics and natural pesticides

reconstructive surgery and a substrate for new bone

RESEARCH - EVIDENCE – KNOWLEDGE – INNOVATION – DEVELOPMENT TRAINING – EMPOWERMENT



<p>Green Bananas (Matoke)</p>	<p>Whole Grain Wheat</p> <ul style="list-style-type: none"> • Antioxidant substances that lower cholesterol, blood pressure 	<p>Muhoko Maize</p> <ul style="list-style-type: none"> • phenolates to help the immune system and healthy 	<p>Cow Peas (Kunde)</p> <ul style="list-style-type: none"> • Vitamin B1, B2, B6, niacin, iron, zinc, and calcium • Copper • Manganese
<p>Sorghum (Mtama)</p> <ul style="list-style-type: none"> • phenolates to help the immune system and healthy 	<p>Millet (Mtama)</p> <ul style="list-style-type: none"> • Copper and zinc help to build the immune system and fight off infections • Manganese 	<p>Pigeon Peas (Mbaazi)</p> <ul style="list-style-type: none"> • Copper, zinc, and iron help the body to fight infections and injury • Manganese is essential for normal metabolism 	<p>Lentils (Kamande)</p> <ul style="list-style-type: none"> • Vitamin B1, B2, niacin, iron, zinc, and calcium • Copper • Manganese
<p>Singing Nettle (Thabai)</p>	<p>Sweet Potato Leaves</p>	<p>Potato</p> <ul style="list-style-type: none"> • potassium to help the heart, muscles, and nerves • Vitamin B6, niacin, iron, zinc, and calcium • Copper • Manganese 	<p>Cassava</p> <ul style="list-style-type: none"> • Vitamin B6, niacin, iron, zinc, and calcium • Copper • Manganese
<p>Okra</p>	<p>Collard</p>	<p>Sweet Potato</p> <ul style="list-style-type: none"> • Vitamin B6, niacin, iron, zinc, and calcium • Copper • Manganese 	<p>Arrowroot</p> <ul style="list-style-type: none"> • Manganese is a cofactor for blood clotting



Social Capital & Connectedness

Connectedness affects multiple aspects of human life and endeavour, from cognitive development and longevity....



to social cohesion, security and perceptions of risk and equity

Role of Universities in New Global Learning Communities



Regenerative Agriculture Air Quality Battery Technologies One Health and Pesticides

