## What in the Heck is Going On!

Every day now, it seems we are watching bad news in the newspapers, watching it on TV or hearing about it on "social" media.

It isn't the "usual brand" of bad news. A lot of bad stuff is happening that never happened before or shouldn't be happening.

What's going on?!
Are the wheels coming off of our civilization?
Is this the "End of the World"?



## Climate Change Disasters



California Wildfires (Now turned into record California flooding)

Catastrophic flooding in Pakistan



### Outbreaks of Violence in the U.S.

Mass shooting in Monterrey Park, CA.





January 6 insurrection in Washington, DC.

### War and Famine



Incipient famine in Somalia

"Increasing conflicts, especially conflicts over sources or sinks." – <u>Limits to Growth</u>

A Ukrainian woman outside her bombedout apartment building in the Ukraine.



## People With No Place to Live



Migrants in Arriaga, Mexico headed to the U.S. border

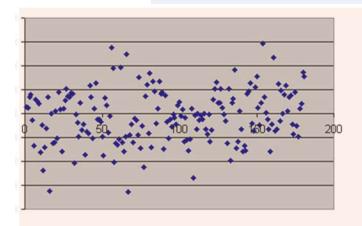


Tents of the homeless in Seattle, WA

"the young come to be treated as intruders. One result ... is a slowing down of the rate of population increase." -- William Catton

## What in the Heck is Going On!

At first, this constant massive stream of events appeared to be very disturbing and unrelated.

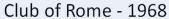


Then they seemed to a mass of data points, a part of a larger picture that didn't yet make sense.

Then they suddenly crystallized into a coherent picture that made sense. And then, when I looked around, I found out other people have been on top of this for a long time.



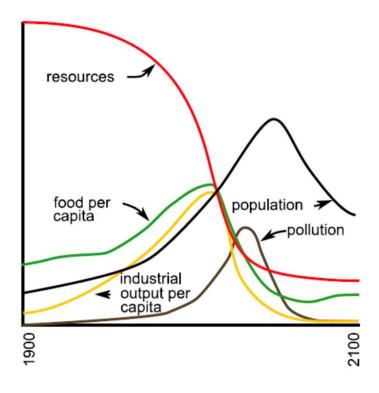


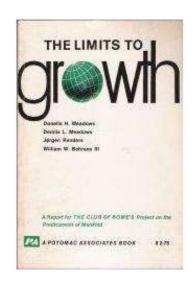


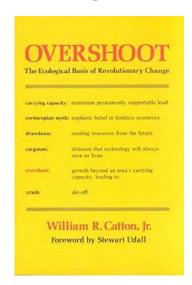


William Catton

#### This Stuff Was Predicted 50 years ago.



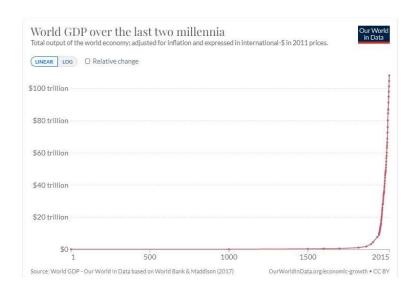




- <u>Limits to Growth</u> Dennis and Donella Meadows, Jorgen Randers & William Behrens III – 1972
- Overshoot William Catton -- 1982

# These events all have a common thread: HUMAN ECOLOGICAL <u>OVERSHOOT</u>

The Good Times are over.
Mother Nature's Overdue
Notice has arrived.



- Human population and its ecological footprint has increased exponentially since the dawn of history.
- We are now at the top end of the "hockey stick".
- This growth <u>cannot continue</u>, and indeed, has already begun to decline.
- This decline is unleashing all kinds of terrible effects.

## A New Paradigm

- Paradigm: broadly: a philosophical or theoretical framework of any kind
- A path to understanding and meaning.
- Grasping meaning defuses fear, informs purpose and provides a basis for effective action.

The human species is in a condition of severe overshoot, and this will be the dominant theme for years to come.

#### Symptoms of Human Ecological Overshoot

- The <u>environment and biosphere</u> are stressed out. This is manifested in climate change and loss of biodiversity
- The <u>economy</u> is getting stressed out: The human economy is deteriorating, and human needs are getting left behind, even in the rich countries.
  - Every man (and woman) for him/herself.
- The <u>culture</u> is getting stressed out:
  - "When the hunting gets more difficult, the pack gets "snarlier".
  - Humans, lightly domesticated, are losing their veneer of civilization.

#### Symptoms of Overshoot: Unprecedented Deterioration of the Climate & the Biosphere

- Climate Change
  - Growing Water Crisis
  - Rivers are drying up
  - Floods are getting more severe
  - Rapid global ice melt
  - Extreme forest fires
  - Weather is getting more extreme
- Biosphere
  - Increasing extinctions and loss of biodiversity
  - Pandemics are becoming more numerous
  - Increasing strain on agriculture crop failures are increasing

### **Growing Water Crisis**

CLIMAT

### Rural California town is facing the end of its water supply by Dec. 1

PUBLISHED MON, OCT 24 2022+3:15 PM EDT | UPDATED TUE, OCT 25 2022+8:15 PM EDT





Coalinga city officials estimate their small town will run out of water by Dec. 1.



The Colorado River provides water to more than 40 million people across seven states and Mexico

Seven US Western states that rely on the drought-stricken Colorado River have failed to reach an agreement on cutting water consumption.

Reported by the BBC, Feb. 1, 2023

#### Rivers are Drying Up

#### Disaster scenarios raise the stakes for Colorado River negotiations

At Colorado River conference in Las Vegas, water managers debate how to make historic cuts





levels in the lake could fall to the point where the hydroelectric plant inside the dam could no longer produce power. (Joshus Lott/The Washington Post)

"Whirlpool" and "Deadpool" are immanent.

CLIMATE & ENVIRONMEN

### What it looks like as drought strangles the mighty Mississippi

By Brady Dennis, Laris Karklis, Scott Dance and Tim Meko Updated October 27, 2022 at 6:57 p.m. EDT | Published October 26, 2022 at 3:59 p.m. El



### Glaciers and Icecaps are Melting

## Glaciers in Europe are experiencing the most severe melting on record

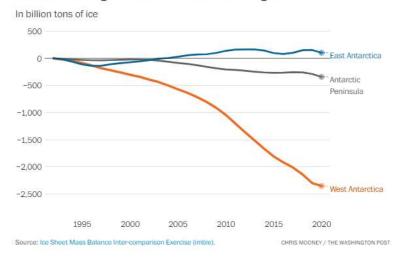
Researchers say the melting is 'off the charts' - and the season isn't over yet





Tourists are seen next to the Fee Glacier above the Swiss Alpine resort of Saas-Fee on July 30. Scant snow cover and the alarming rate of glacial melt during Europe's sweltering heat waves have put some of the most classic Alpine hiking routes off-limits. (Fabrice Coffrini/AFP/Getty Images)

#### Cumulative change in ice volume in Antarctic regions



Antarctic ice loss is huge and growing – from the Washington Post

#### Extreme Heat & Forest Fires



"Growing chaos in natural systems, with 'natural' disasters more frequent and more severe because of less resilience in the environmental system. – Limits to Growth

#### No September on record in the West has seen a heat wave like this

In just the past week, nearly 1,000 heat records have been broken



By Jason Samenow

Updated September 9, 2022 at 12:03 a.m. EDT | Published September 8, 2022 at 4:03 p.m. EDT



A lifeguard packs up for the day as the sun sets on Sept. 1 in Long Beach, Calif., amid the heat wave. (Ashley Landis/AP)

#### Weather is Getting More Extreme

#### 'Historic Arctic outbreak' crushes records in New England

Mount Washington in New Hampshire logged the U.S.'s coldest wind chill ever recorded: minus-109





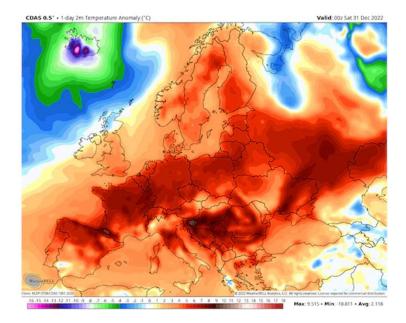
The Mt. Washington Observatory said on Feb. 4 that summit temperatures had reached the historical low of minus-47 degrees. (Video: Mt. Washington Observatory)

"Growing chaos in natural systems, with 'natural' disasters more frequent and more severe because of less resilience in the environmental system. – Limits to Growth

#### Thousands of records shattered in historic winter warm spell in Europe

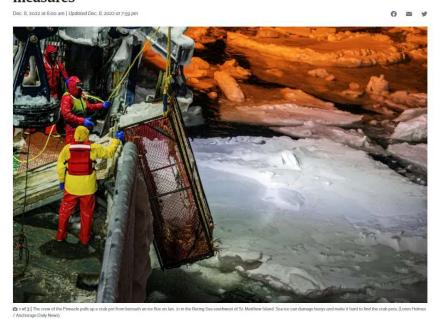
At least seven countries saw their warmest January weather on record on New Year's Day





#### **Increasing Extinctions**

#### Bering Sea crab collapse spurs push for stronger conservation measures



Seattle Times December 8, 2022

## Essential insects in East Asia have declined massively, study finds





A dragonfly sits on a twig in a garden in the northeastern state of Assam, India. (Anuwar Hazarika/NurPhoto/Getty Images)

Washington Post – February 3, 2023

#### Pandemics are Becoming More Common

## Pandemics result from destruction of nature, say UN and WHO

Experts call for legislation and trade deals worldwide to encourage green recovery

- Coronavirus latest updates
- See all our coronavirus coverage



Mangroves in Morondava, west Madagascar. The UN has described coronavirus as an 'SOS signal' for humankind. Photograph: Alamy

Guardian June 17, 2020

## Polio virus is found in New York City wastewater

The discovery extends the virus's presence from the northern New York suburbs to the nation's largest city

By Lenny Bernstein and Kristen Hartke

Updated August 12, 2022 at 12:51p.m. EDT | Published August 12, 2022 at 10:52 a.m. EDT



A worker walks past the Newtown Creek Wastewater Treatment Plant in the Greenpoint neighborhood of Brooklyn. (John Minchillo/AP)

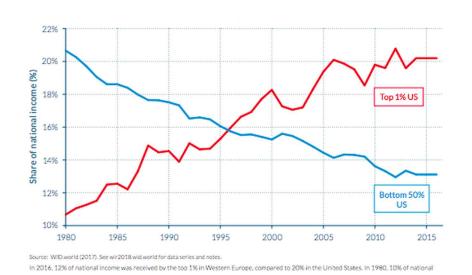
Washington Post – August 12, 2022

### Symptoms of Overshoot: Adverse Impacts on Our Economy

- The elites are preserving or increasing their share of a declining resource base. This results in:
  - High and increasing inequality.
  - Our neglected infrastructure is crumbling.
- Postponing payment of the bills is increasing the public debt.
- Resources are being diverted to military use.
- Human needs are being neglected:
  - Increasing food insecurity
  - Decreasing quantity and quality of healthcare
  - Education is being neglected
  - Loss of housing and increasing homelessness

#### Extreme & Growing Inequality

#### Graph growing inequality in the U.S.





Slum next to golf course.

"Declining respect for the instruments of collective government as they are used increasingly by the elites to preserve or increase their share of a declining resource base." – Limits to Growth

#### Our Infrastructure is Crumbling



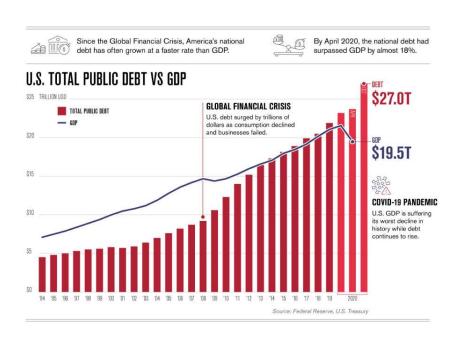
Pittsburgh bridge to reopen less than one year after collapse with help from Biden's infrastructure law





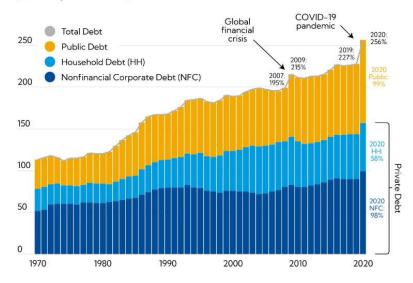
"Capital depreciation exceeding investment, and maintenance deferred, so there is deterioration in capital stocks, especially long-lived infrastructure." – Limits to Growth

#### Increasing Public Debt



#### **Historic highs**

In 2020, global debt experienced the largest surge in 50 years. (debt as a percent of GDP)



Sources: IMF Global Debt Database and IMF staff calculations. Note: The estimated ratios of global debt to GDP are weighted by each country's GDP in US dollars.



"Debts a rising percentage of annual real output." - Limits to Growth

#### Resources are being Diverted to Military Use

#### The New york Times

### Japan Moves to Double Military Spending, With a Wary Eye on China

The Japanese cabinet approved the first update to the country's official security strategy in nine years, elevating Beijing over North Korea as the top threat.





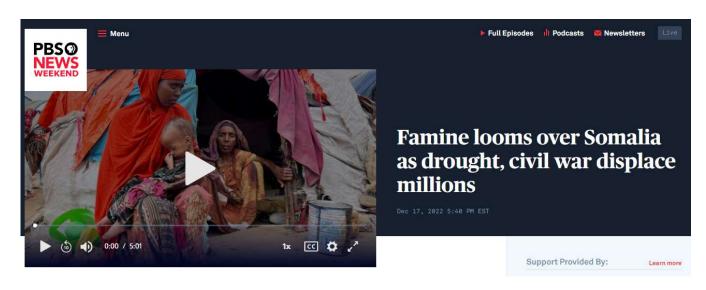




Japan's plan to bolster its military comes as public opinion has rapidly changed on the

"Growing demands for capital, resources and labor used by the military or industry to gain access to, secure and defend resources that are increasingly concentrate in fewer, more remote, or increasingly hostile regions." – Limits to Growth

#### Increasing Food Insecurity





"Eroding goals for health and environment." – Limits to Growth

Peninsula food banks seeing more clients and rising costs

Inflation, scarcity and rural location driving challenges

### Decreasing Health Care Security

WA hospitals facing 'unsustainable' financial losses, in danger of cutting services

July 21, 2022 at 3:58 pm | Updated July 21, 2022 at 8:11 pm



Registered nurse Estella Wilmarth tends to a patient in the acute care unit of Harborview Medical Center on Jan. 14 in Seattle. Hospitals have been struggling to retain and recruit staff, adding to their financial difficulties.

"Eroding goals for health and environment." – Limits to Growth

#### **Education Crisis**

## A teacher shortage so acute that students are expected to learn without one

In rural Mississippi, the geometry teacher is a recording. The chemistry students often teach themselves. Rural and Southern states face a crisis.



"Investment in human resources (education, health care, shelter) postponed in order to meet immediate consumption, investment or security needs or to pay debts." – Limits to Growth

#### Loss of Housing & Increasing Homelessness

Tension over visible homelessness has risen in Seattle — and the country





Skid Row in Los Angeles – LA Times

From the Seattle Times

"Investment in human resources (education, health care, shelter) postponed in order to meet immediate consumption, investment or security needs or to pay debts." – Limits to Growth

#### Symptoms of Overshoot: Cultural Stress and Regression

- As the elites leave most citizens behind, it results in:
  - Loss of trust in democracy and government and therefore,
  - Proliferation of guns and mass shootings
- Social neglect results in increased tribalism and authoritarianism:
  - Increasing racism against Black people and Asian people, hatred of LGBTQ, misogyny and antisemitism.
  - Rising authoritarianism
  - Efforts to return to the (imaginary) "Good Old Days" (MAGA)
- Loss of safe and prosperous places to live results in increasing migration.
- Rising global conflict is increasing the risk of nuclear Armageddon.
- Social and economic neglect is resulting in increasing mental health problems: depression, drug use, abuse of teenage girls & suicide

#### Loss of Trust in Democracy & Government

The Washington Post
Democracy Dies in Darkness

#### Judge rules against Kari Lake in bid to overturn Arizona election results

The defeated GOP candidate for Arizona governor claimed that illegal voting and printer malfunctions had cost her the November election

By Isaac Stanley-Becker and Yvonne Wingett Sanchez

Updated December 24, 2022 at 4:08 p.m. EST | Published December 24, 2022 at 1:18 p.m. EST



Arizona Republican gubernatorial candidate Kari Lake lost her lawsuit against Maricopa County elections officials on Saturday. (Joshua Lott/The Washington Post)

"Declining respect for the instruments of collective government ... -- Limits to Growth

#### Proliferation of Guns and Mass Shootings



"Declining respect for the instruments of collective government ... -- Limits to Growth



Mass shooting in Las Vegas: 59 people dead; October 2017

#### Increasing Migration

#### "We suffered a lot to get here": A Haitian migrant's harrowing journey to the Texas-Mexico border

After witnessing fellow migrants swept away in a Central American river and a sexual assault by armed men, one man wants to put the traumatic journey in the past and find stability for his family in Ohio.

BY URIEL J. GARCÍA OCT. 1, 2021 5 AM CENTRAL



Migrants cross the Rio Grande with food, water, shelter, clothing, and other supplies as they prepare to spend the night under the International Bridge in Del Rio on Sept. 16, 2021. Diproduction Vonderhaar for The Texas Tribune

#### From the Texas Tribune



Extreme poverty is considered the leading cause of migration of African youth along dangerous and sometimes even fatal routes that involve illegal crossing of borders without proper documentation. [AP]

African migrants to Italy
-- From Al Jazeera

Some parts of the planet are already becoming uninhabitable.

### Increasing Racism & Hatred of LGBTQ



Mass shooting of LGBTQ in Club Q

"Competitive relations were to become again increasingly prevalent." – William Catton ( "The De-Civilizing of Homo sapiens")

Mass shooting of Black people in Cleveland



#### Increasing Risk of Nuclear Armageddon

#### A time of unprecedented danger: It is 90 seconds to midnight

2023 Doomsday Clock Statement

Science and Security Board
Bulletin of the Atomic Scientists

Editor, John Mecklin

January 24, 2023

- Doomsday clock was adjusted on January 24.
- https://thebulletin.org/doomsday-clock/current-time/



"Increasing conflicts..."

- Limits to Growth

#### Increasing Authoritarianism

"Competitive relations were to become again increasingly prevalent." – William Catton ("The De-Civilizing of Homo sapiens")



Indian officials search BBC offices after documentary critical of prime minister

Victory of Neo Fascists in Italy



Viktor Orban

PBS Newshour February 14, 2023

#### Decreased Levels of Mental Health

Opinion | American teens are unwell because American society is unwell





Washington Post – February 15, 2023

Increasing levels of mental illness, suicide and depression are symptoms of a society under stress.

## DEA seized enough fentanyl to kill every person in the U.S. in 2022

Government officials warn of deadly counterfeit pills sold online: 'No pharmaceutical pill bought on social media is safe'



By Nick Miroff

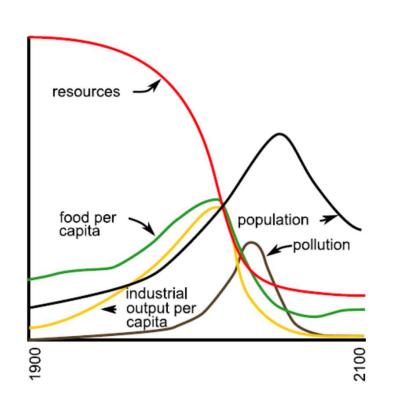
December 20, 2022 at 1:25 p.m. EST



The DEA seizure numbers released Tuesday represent only a partial count of the volume of illegal fentanyl detected by law enforcement agencies this year. This evidence photo shows 92.5 pounds of illicit fentanyl that was seized in April by the Alameda County Task Force in California, (Alameda County Sheriffs Office/AP)

Washington Post – December 20, 2022

#### Advanced Stages of Overshoot

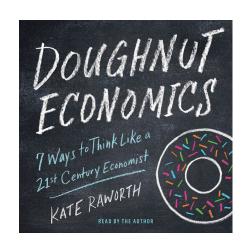


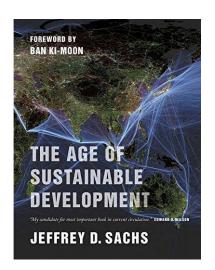
We have been in the "Business as Usual" scenario for the last 50 years.

"Do you observe any of these symptoms in your "real world"? If you do, you should suspect that your society is in <u>advanced</u> stages of <u>overshoot</u>." — <u>Limits to Growth</u>

## What can we do about it?

- Reduce fossil fuel use quickly
- Protect biodiversity
- Pursue local resiliency
- Change focus
- Share the wealth
- Pursue holistic thinking and culture





# Reduce Fossil Fuel Use





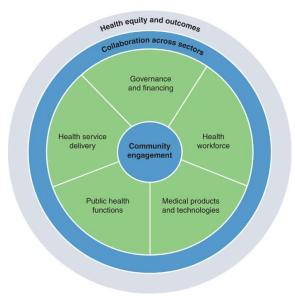
Beware of "Greenwashing", especially by the major fossil fuel corporations.

# Pursue Local Resiliency

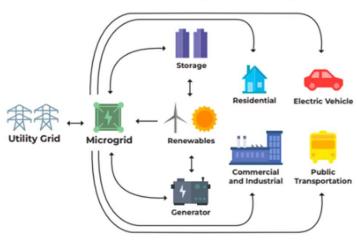


Community supported agriculture as a route to local food resiliency. (Do we want to become dependent on produce grown in places like Chile?)

Community engagement in local healthcare – essential step towards healthcare resiliency.



#### Movement of Energy in a Microgrid



Electrical Microgrids – A step towards local energy resiliency. (BPA may not always take care of us.)

# Change Focus

Dump "GDP" and adopt "What's good for humans"

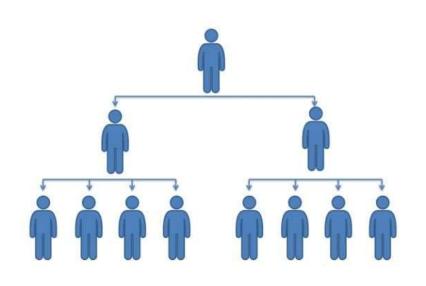


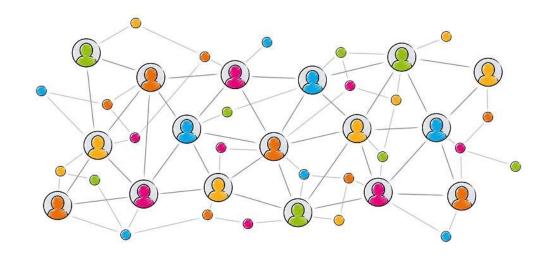


It's about humans, not money

Kate Raworth in "Doughnut Economics".

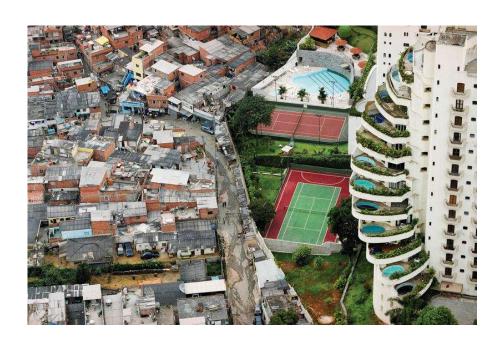
# Switch Power Relationships





Old System: Hierarchy Patriarchal Power Structure New System: Interlocked Web Relationships Cooperative Power Structure

# Share the Wealth



"Private Property", long the norm, which at one time even turned human beings into a commodity, has limits.



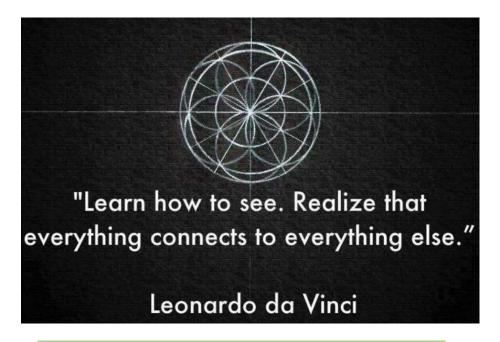
Human beings have a <u>right</u> to safety, food, shelter, justice & meaningful work.

Overshoot cannot be fixed without sharing the benefits of the environment and human civilization with everybody.

# Pursue Holistic Thinking & Culture



Humans are all in the same Tribe



Humans, Nature and even the stars are all made of the same stuff, are interlocked and affect each other.

# Some Signs of Hope (We Aren't Necessarily Doomed)

- The people, especially women, are revolting against the Iranian and Afghan theocracies.
- Ukrainians, supported by the West, are resisting Russian authoritarianism and aggression.
- Nations are cooperating in an effort to preserve wild areas.
- The ozone layer is healing.
- Insurrections in two democracies have failed.

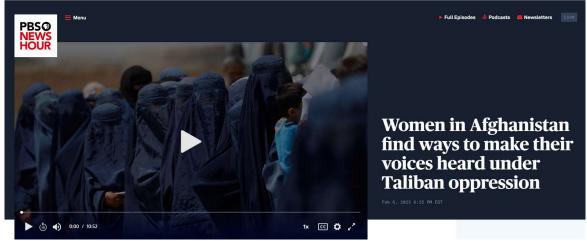
We must be careful not to succumb to despair, for there is still the odd alimmer of hope. -- Edouard Saouma, 1993

# Brave Women are Resisting Oppression in the Middle East



Iranian women are resisting the theocracy in Iran

Afghan women are resisting Taliban oppression in Afghanistan – PBS Newshour February 6, 2023



## Resistance in Ukraine



Destroyed Russian tanks in Ukraine --- NPR.org



Ukraine rout in Kharkiv has Russians on the run: How did they pull it off, and what comes next?

From the Grid – September 12, 2022

# Nations Promising to Preserve Wild Areas

### Nations promise to protect 30 percent of planet to stem extinction

Delegates at the COP15 biodiversity summit in Canada made a major conservation commitment to try to halt the loss of hundreds of thousands of plants and animals. But it remains to be seen if nations will follow through.



Dino Grandoni

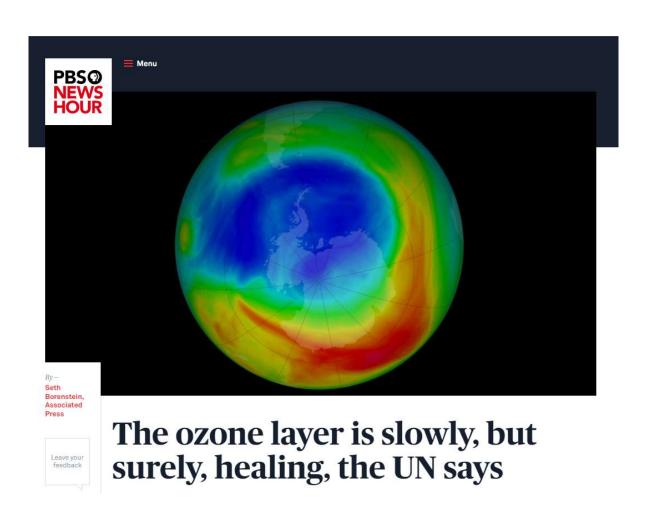
nber 19, 2022 at 4:19 a.m. EST | Published December 19, 2022 at 3:39 a.m. EST



A participant walks past a waterfall poster during the U.N. biodiversity conference (COP15) in Montreal on Sunday. (Lars Hagberg/AFP/Getty

From the Washington Post December 19, 2022

# Earth's Ozone Layer is Slowly Healing



PBS Newshour January 9, 2023

# Insurrections in Two Democracies have Failed



Donald Trump's insurrection on January 6 failed.



The Brazilian insurrection on January 8, 2023 also failed.

### Conclusion

It's time to ditch the Old Paradigm and switch to the New Paradigm.

#### Old Paradigm:

- Natural resources are inexhaustible and just waiting to be exploited.
- Human labor (and laborers) are disposable resources.
- Rapid continuing "growth" is the unquestioned ultimate goal.
- "Private Property" is the ultimate moral value, and everything is monetized.

#### New Paradigm:

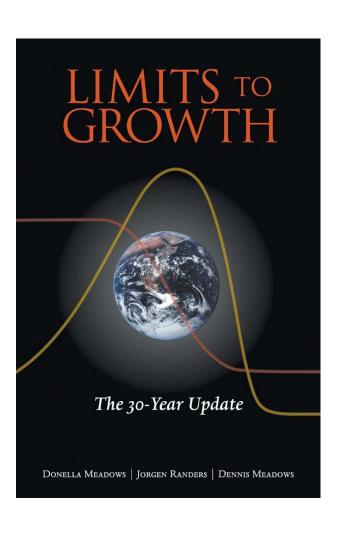
- Humans are just part of a vast, shared, fragile and interdependent biosphere.
- All humans are family, and earth is our "Mother".
- Sustainability is the new mission for mankind.
- The end purpose of economic activity is not profit, but the well-being of all humans and the biosphere.

## YouTube Videos

- Introduction the Ecological Economics <a href="https://www.youtube.com/watch?v=JFIBZIDTPzY">https://www.youtube.com/watch?v=JFIBZIDTPzY</a>
- A healthy economy should be designed to thrive, not grow | Kate Raworth -https://www.youtube.com/watch?v=Rhcrbcg8HBw
- Fleeing climate change the real environmental disaster | DW Documentary https://www.youtube.com/watch?v=cl4Uv9 7KJE&list=WL&index=16&t=3s
- Julian Cribb | Our Existential Crisis (lecture) https://www.youtube.com/watch?v=R0fdugJV844&list=WL&index=13&t=3450s
- Jeffrey Sachs on Sustainable Development -- <a href="https://www.youtube.com/watch?v=foMygSLOiLA">https://www.youtube.com/watch?v=foMygSLOiLA</a>
- Glen Canyon Dam approach "whirlpool" level and loss of power generation capacity –
   https://www.washingtonpost.com/video/climate-environment/lake-powell-drought-threatens-power-loss-for-millions/2022/11/30/0a1a975f-6f37-4014-a9cf-08c641cd7ccc\_video.html
- Looming famine in Somalia <a href="https://video.kqed.org/video/looming-famine-1669066759/">https://video.kqed.org/video/looming-famine-1669066759/</a>
- Climate change is behind increasing extreme weather events <a href="https://www.pbs.org/newshour/show/how-climate-change-makes-intense-winter-weather-events-more-common">https://www.pbs.org/newshour/show/how-climate-change-makes-intense-winter-weather-events-more-common</a>
- Failing water infrastructure in the United States <a href="https://www.pbs.org/newshour/show/why-american-cities-are-struggling-to-supply-safe-drinking-water">https://www.pbs.org/newshour/show/why-american-cities-are-struggling-to-supply-safe-drinking-water</a>
- Extreme flooding in Pakistan puts the country on the edge of economic and social collapse https://www.pbs.org/video/at-the-extreme-sot-1661983628/

# YouTube Videos

• Teenager mental health is in trouble <a href="https://www.google.com/amp/s/www.pbs.org/newshour/amp/health/cdc-data-shows-u-s-teen-girls-in-crisis-with-unprecedented-rise-in-suicidal-behavior">https://www.google.com/amp/s/www.pbs.org/newshour/amp/health/cdc-data-shows-u-s-teen-girls-in-crisis-with-unprecedented-rise-in-suicidal-behavior</a>



# **OVERSHOOT**

The Ecological Basis of Revolutionary Change

carrying capacity: maximum permanently supportable load.

cornucopian myth: euphoric belief in limitless resources.

drawdown: stealing resources from the future.

cargoism: delusion that technology will always

save us from

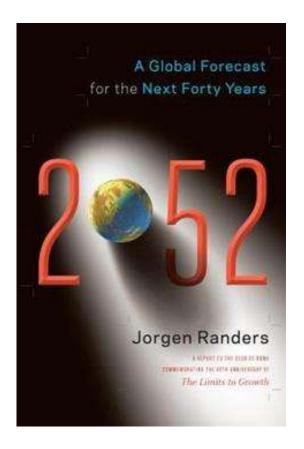
overshoot: growth beyond an area's carrying

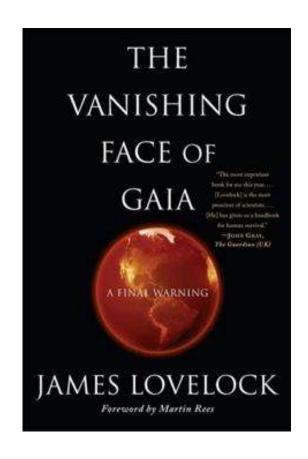
capacity, leading to

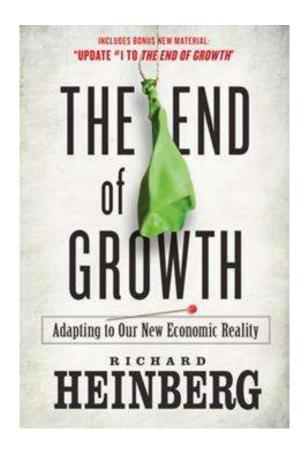
crash: die-off.

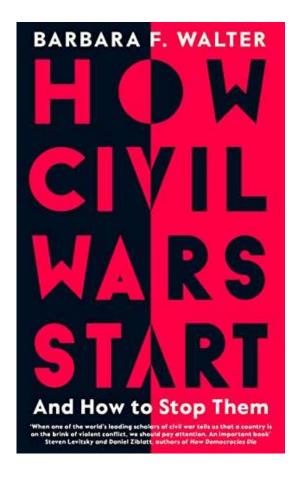
William R. Catton, Jr.

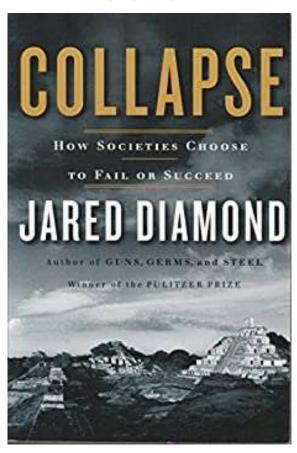
Foreword by Stewart Udall

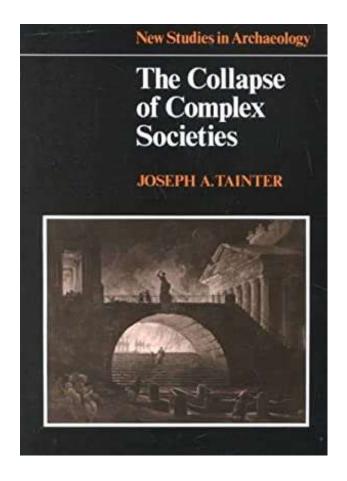


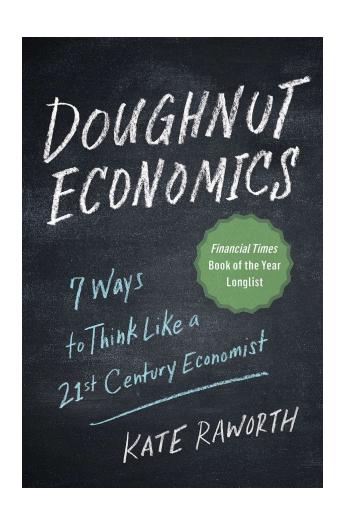


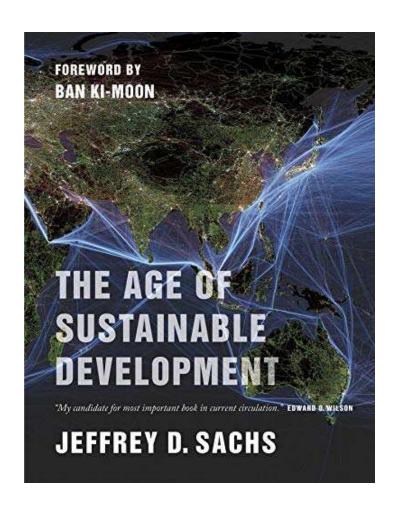












## Web Sites

- IPCC web site -- <a href="https://www.ipcc.ch/">https://www.ipcc.ch/</a>
- Freedom House -- <a href="https://freedomhouse.org/goals">https://freedomhouse.org/goals</a>
- WHO Horn of Africa: <a href="https://www.who.int/emergencies/situations/drought-food-insecurity-greater-horn-of-africa">https://www.who.int/emergencies/situations/drought-food-insecurity-greater-horn-of-africa</a>
- Club of Rome -- <a href="https://www.clubofrome.org/">https://www.clubofrome.org/</a>
- Postcarbon Institute -- <a href="https://www.postcarbon.org/">https://www.postcarbon.org/</a>
- United Nations 17 goals for Sustainable Development: <a href="https://sdgs.un.org/g">https://sdgs.un.org/g</a> Doughnut Economics -- <a href="https://doughnuteconomics.org/about-doughnut-economics">https://doughnuteconomics.org/about-doughnut-economics</a>
- Center for Inclusive Entrepreneurship (Local sustainable business organization) -- <a href="https://www.cie-nw.org/">https://www.cie-nw.org/</a>
- Community Supported Agriculture -- <a href="https://www.nal.usda.gov/farms-and-agricultural-production-systems/community-supported-agriculture">https://www.nal.usda.gov/farms-and-agricultural-production-systems/community-supported-agriculture</a>

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		https://www.theout.com/tags/bad-news-everywhere/
•	Slide 3	
		https://www.latimes.com/california/story/2020-09-27/times-photos-california-fires
	•	https://www.washingtonpost.com/world/interactive/2022/pakistan-floods-monsoon-climate-change/
	Slide 4	
		https://www.npr.org/sections/pictureshow/2022/01/06/1070610129/photos-one-year-later-a-look-back-on-the-jan-6-insurrection
		Police gather outside a dance studio in Monterey Park, Calif., after a mass shooting that killed 11. The gunman later killed himself. It was initially unclear whether his two handguns were legally purchased in California, which has among the nation's strictest gun-control laws. Jae C. Hong - staff, AP
•	Slide 5	
		Natali Sevriukova reacts beside her house following a rocket attack on the city of Kyiv, Ukraine, on Friday, February 25, 2022. [Emilio Morenatti/AP Photo]
	•	https://www.washingtonpost.com/world/2022/09/07/somalia-famine-drought-global-hunger/
•	Slide 6	
		https://www.wgbh.org/news/commentary/2019/08/19/the-us-boarder-crisis-is-the-tip-of-an-international-problem
	•	Tents line portions of the interim parking lot in Seattle under an Interstate 5 overpass in November as Kelsey Brennan from Co-LEAD and Nichole Alexander from REACH help to move tent dwellers into hotels. (Steve Ringman / The Seattle Times)
•	Slide 7	
	•	https://www.atlasofplaces.com/essays/the-limits-to-growth/
	•	https://em.wikipedis.org/wiki/Millium_R_Catton_IL
•	Slide 12	
	•	https://www.cnbc.com/2022/10/24/coalinus-californis-fases-the-end-of-its-water-supple-by-des-3.html
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		http://www.washingtonpost.com/climate-environment/2022/12/17/cobrado-river-crisis-conference/
		https://www.washingtonpost.com/kilmate-enrinomenst/2022/10/26/missinsipsi-inter-drining-use/.
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