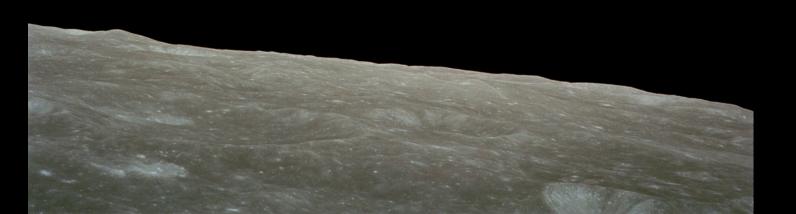
Sustainability as a Core Value and Strategic Imperative, Auburn University and Beyond





LWLM
Annual Meeting
February 18,
2024
Mike Kensler













Sustainability

An Ethic

A Worldview

An Approach





Sustainability: Based on Core Human Values: The 4 questions

How am I showing up today?

Am I bringing out the best in others?

How am I treating the world around me?



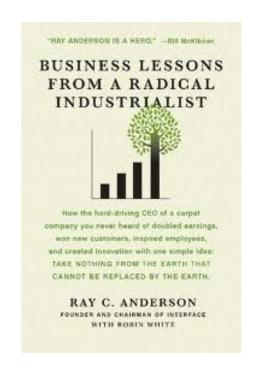
What am I leaving for those who come after me?



Interface[®]

"At the end of the day, the role of business is to generate prosperity and a better quality of life for everyone...

we should never operate at the expense of the earth or societies or future generations."





Ray Anderson Founder and CEO, Interface



Sustainability Compass

Nature





Sustainability Compass Conditions for a Flourishing World

Live in accord with the laws of Nature

Maintain a prosperous **Economy** that is viable, fair, and inclusive

Cultivate a **Society** of connectedness, inclusion, caring, equity, and engagement

Ensure conditions that create physical, mental, emotional and spiritual Wellbeing.



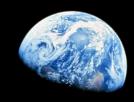




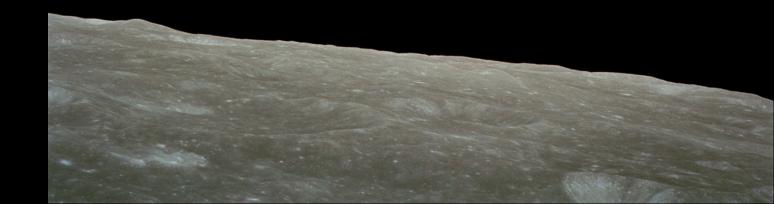
Sustainability:

2 standpoints

> Current Reality



Our Desired Future



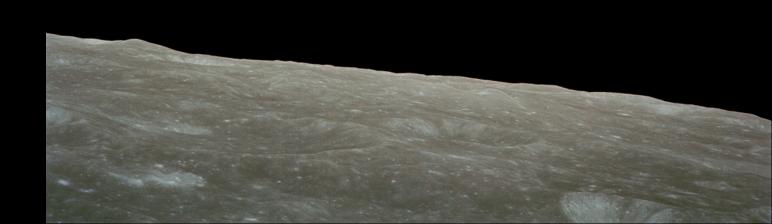
"Sustainability is a response to a planetary emergency."

Mitch Thomashow,
Former president, Unity College

Current Reality







CATASTROPHIC **WILDERNESS LOSS** SINCE THE 1990's









Six Environmental Crises

politically and economically

biomes have almost non diet

Global Warming Biodiversity and Habitat Loss 3. Soil Loss and Degradation **Water Scarcity**



Chemical Pollution

Resource Depletion

Post Carbon Institute









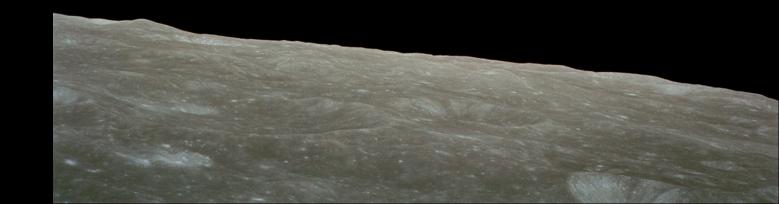
Sustainability:

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> Our Desired Future



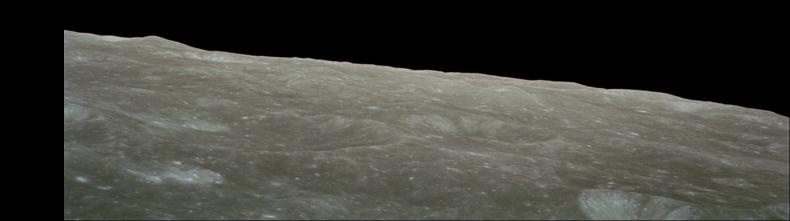
"The many crises facing us should be seen ... not as threats, but as chances to remake the future so it serves all beings."

N NATURE COLONY ECONOMY



Amory Lovins

Our Desired Future



The "planetary emergency" and Ecological Carrying Capacity

The size of the population that can be supported indefinitely by the available resources and services of an ecosystem.



- 1. The amount of resources available,
- 2. The size of the population, and
- 3. The amount each individual consumes.





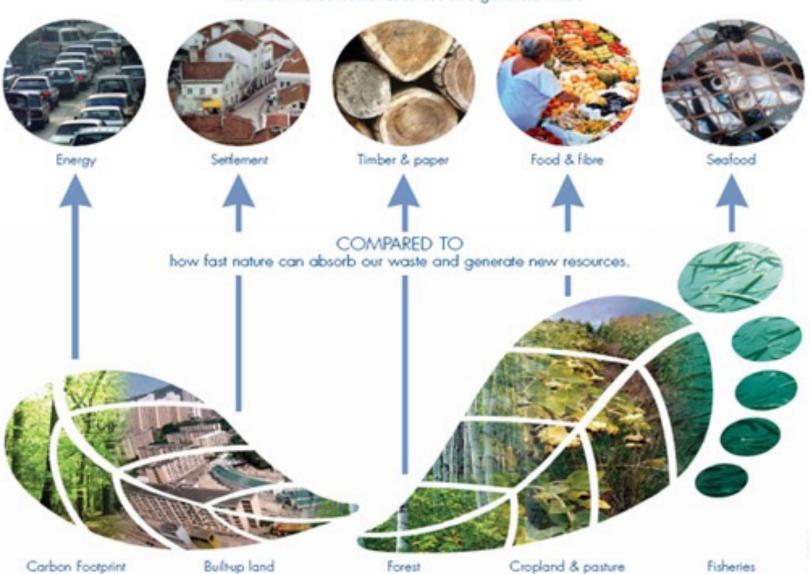
Sustainable Measures

Our attitudes and behaviors toward each other and the world around us.

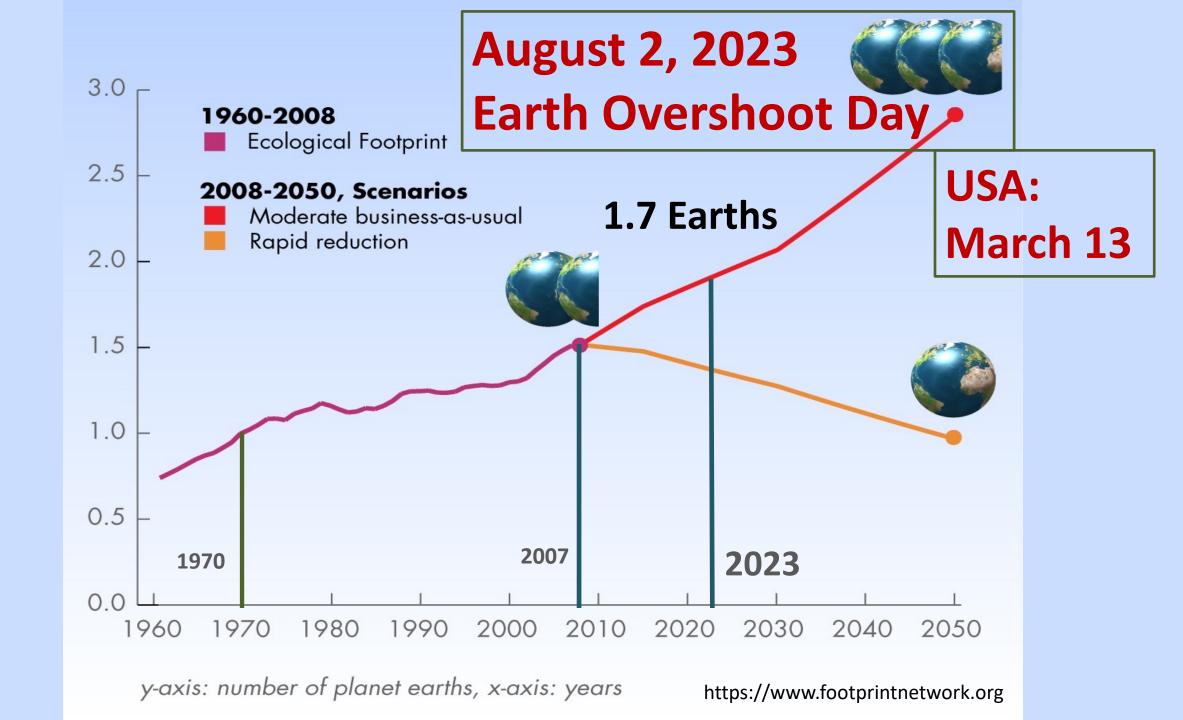
The Ecological Footprint

MEASURES

how fast we consume resources and generate waste







CATASTROPHIC **WILDERNESS LOSS** SINCE THE 1990's









Six Environmental Crises

politically and economically

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Chemical Pollution

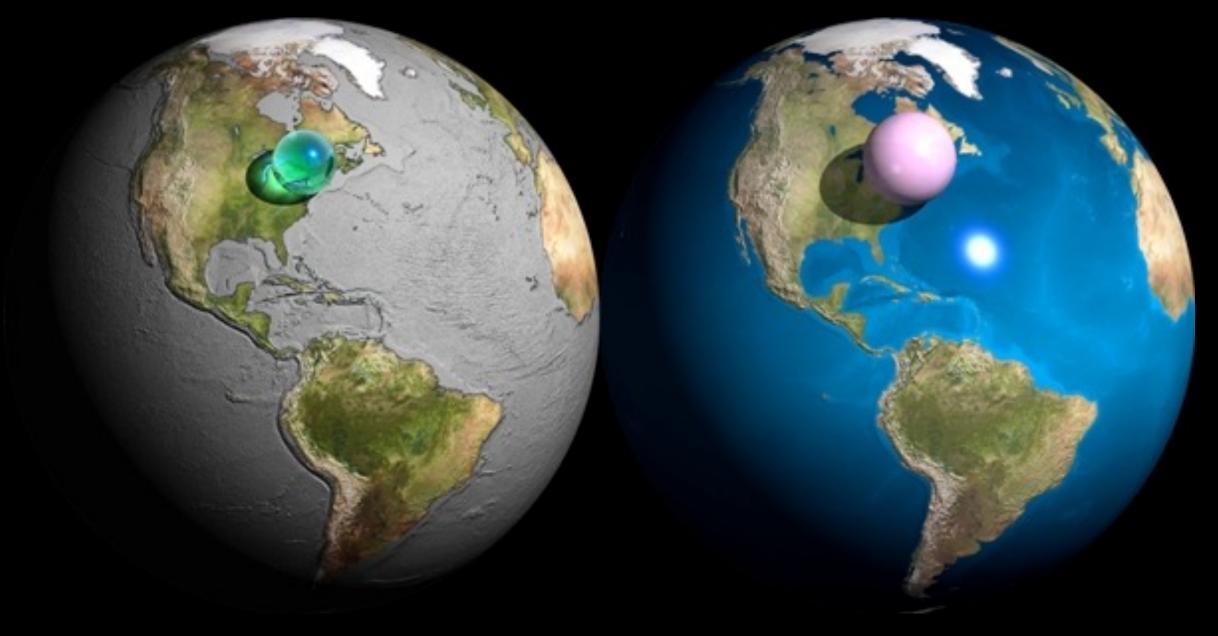
Resource Depletion

Post Carbon Institute









Adam Nieman, Science Photo Library

Global Warming & Climate Change in 12 Words

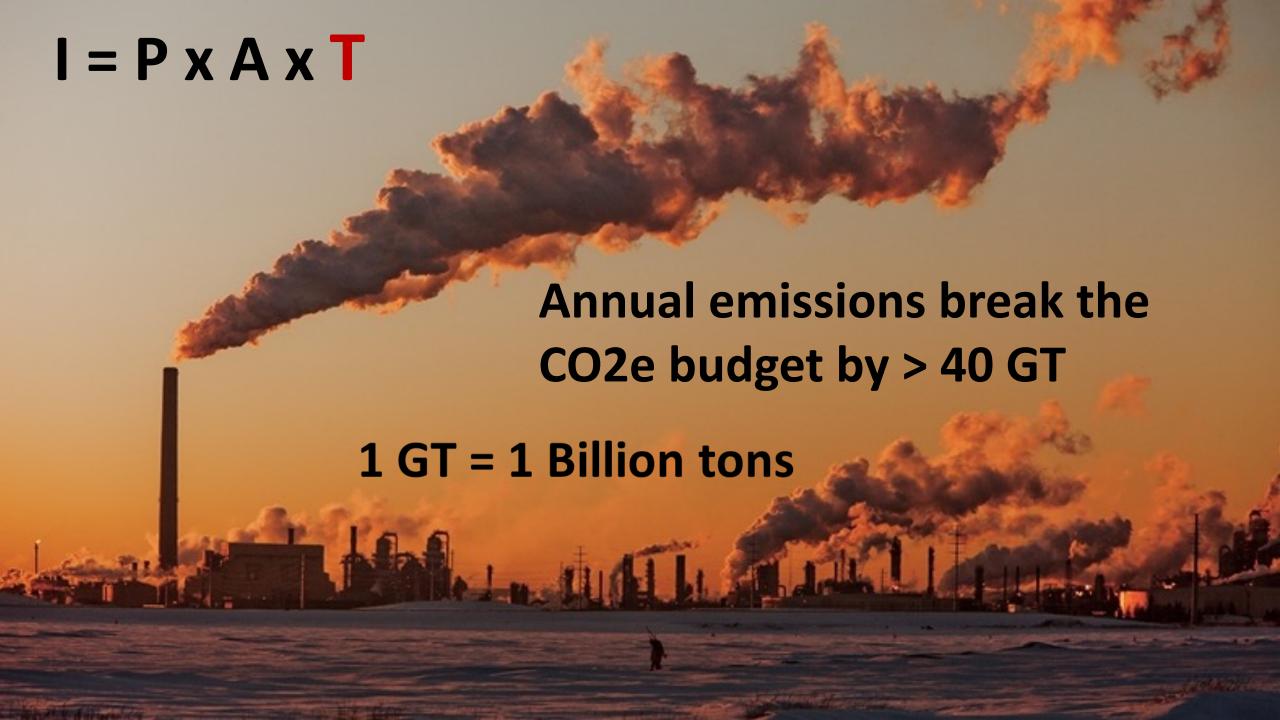
Scientists agree (>99%).

It's happening.

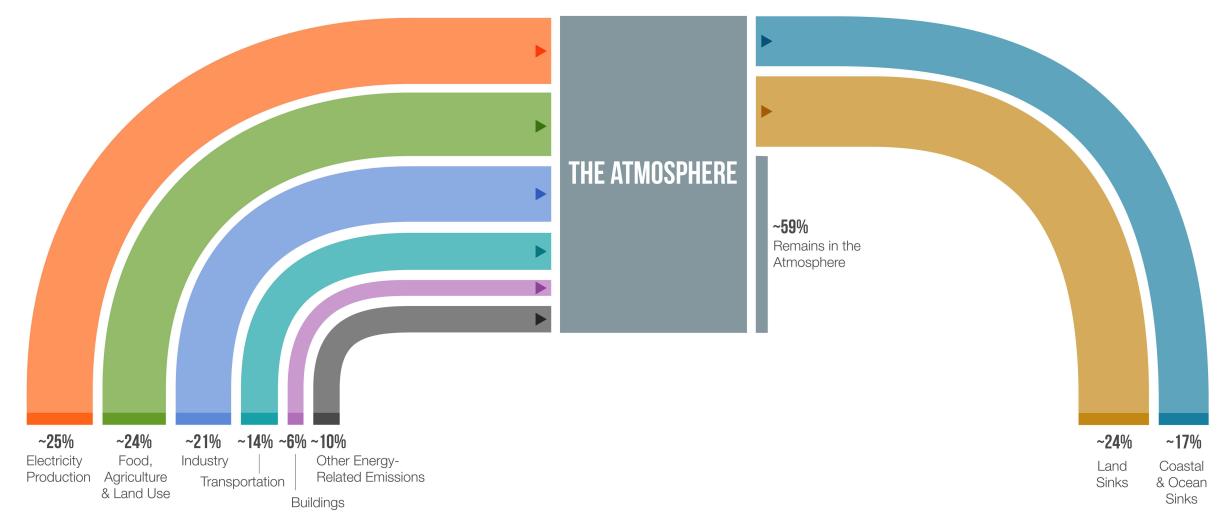
It's bad.

It's us.

We can fix it.



EMISSIONS SOURCES & NATURAL SINKS

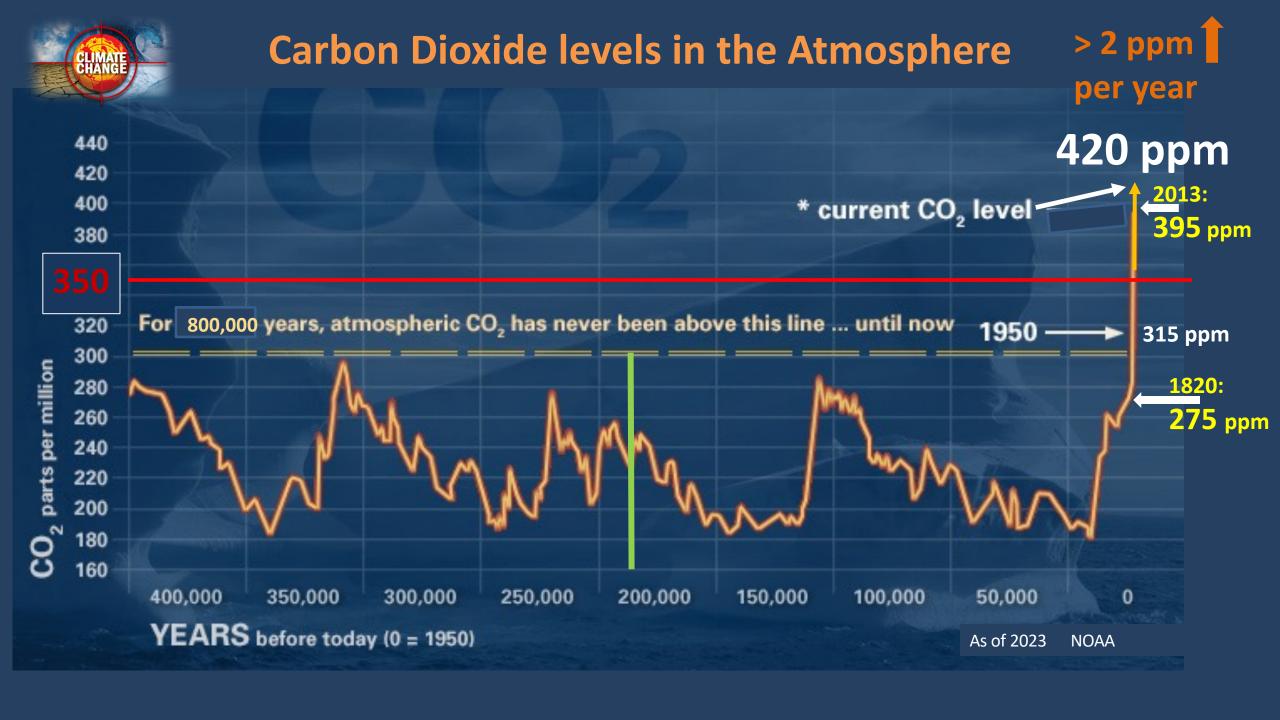


CURRENT SOURCES

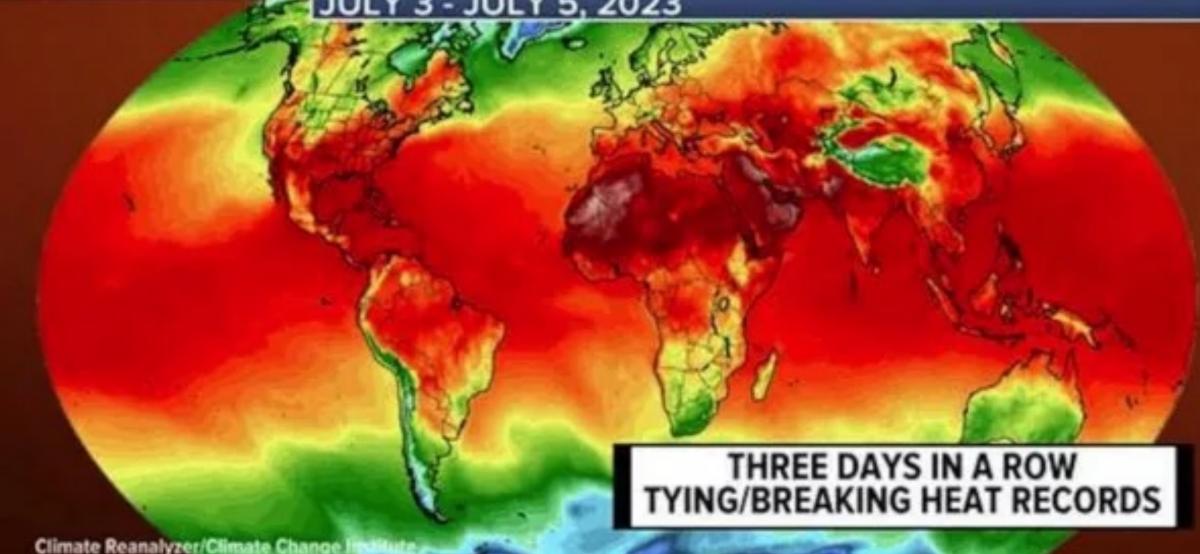
CURRENT SINKS



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EARTH'S HOTTEST DAYS JULY 3 - JULY 5, 2023

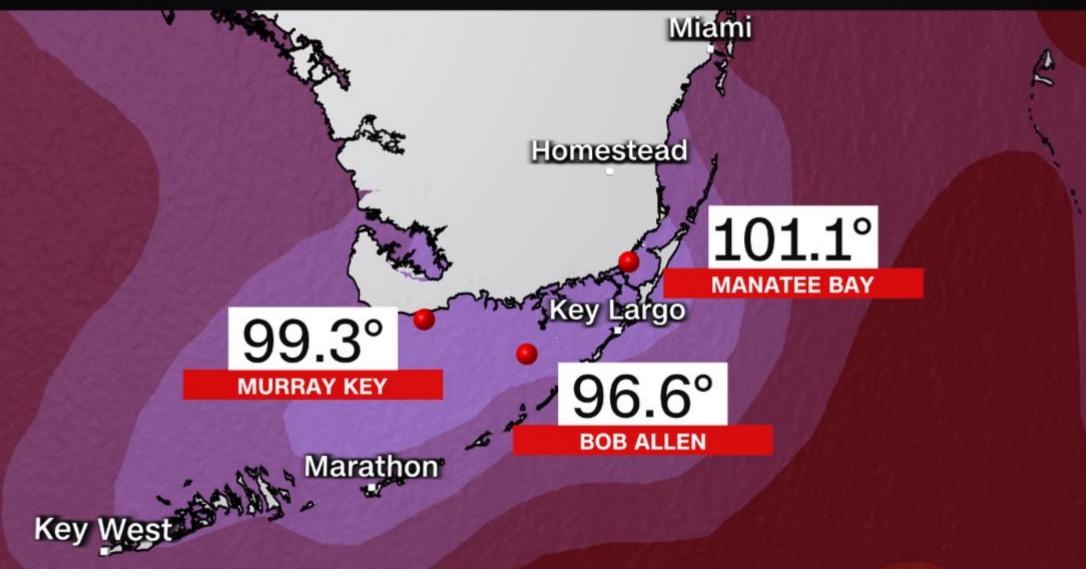


Climate Reanalyzer/Climate Change



Weather OBSERVED WATER TEMPERATURES

NATIONAL DATA BUOY CENTER (°F) **MONDAY, JULY 24**









YOU AREN'T RESPONSIBLE FOR THE CLIMATE CRISIS, BUT YOU CAN BE PART OF THE SOLUTION.

Share this with a friend and download the Commons app at our link in bio for tips and tools for sustainable living.

Personal actions

Policy advocacy

Elections

SOURCES: REUTERS, GLOBAL DATA, STATISTA, APPLE 2021 ENVIRONMENTAL PROGRESS REPORT, AMAZON 2021 SUSTAINABILITY REPORT, TIME, BLACKROCK 2022 GHG EMISSIONS REPORT, SUSTAINABILITY AT VANGUARD, 2022 FIDELITY SUSTAINABILITY PROGRESS REPORT, IMPAAKT.





Social Crises and the Economy





How do we measure its success?

Purpose of the Economy?



"Our enormously productive economy... demands that we make consumption our way of life, that we convert the buying and selling and use of goods into rituals, that we seek our spiritual satisfaction, our ego satisfaction, in consumption... we need things consumed, burned up, replaced and discarded at an everaccelerating rate."

Retailing analyst Victor Lebow, 1946

Purpose of the Economy?



Gross Domestic Product GDP

The American economy's "ultimate purpose" is "to produce more consumer goods."

Chairman, Council of Economic Advisors to President Eisenhower, 1953



"GDP is not a measure of the overall standard of living or well-being of a country. ...[I]t does not capture things that may be deemed important to general well-being."

- –Environmental damage/regeneration efforts
- Distribution of wealth in a society
- –Life expectancy
- –Literacy

GDP/Economic Growth?

"Growth is one of the stupidest purposes ever invented by any culture; we've got to have an enough. We should always ask growth of what, and why, and for whom, and who pays the cost, and how long can it last, and what's the cost to the planet, and how much is enough?"

Donella Meadows at the University of Michigan, 1999

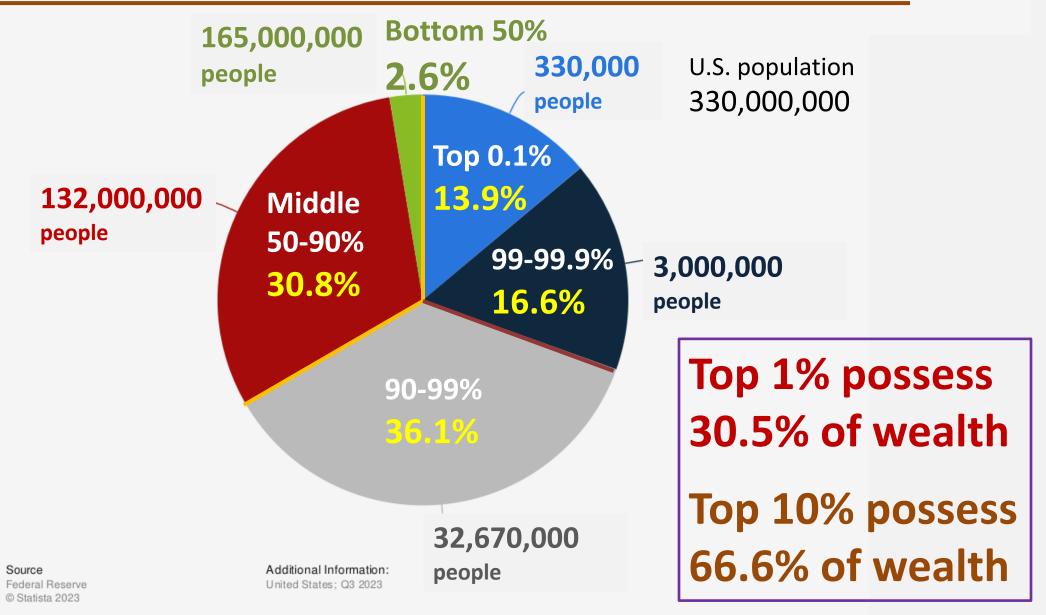
Social Crises and Wealth Distribution in the U.S.



- 1. Poverty
- 2. Inequality
- 3. Racism and other Discrimination
- 4. Antisocial Responses to Scarcity
- 5. Authoritarianism
- 6. Impact of Technological Change



Wealth Distribution in the United States

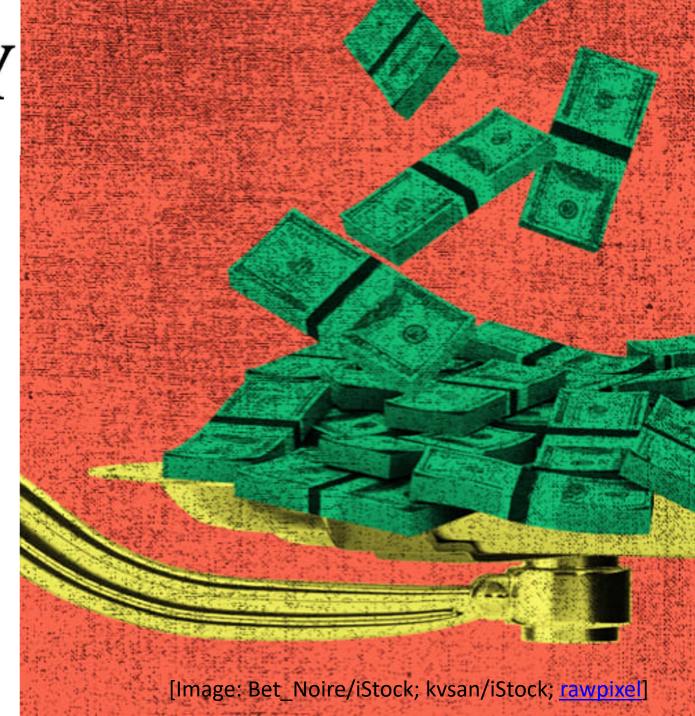


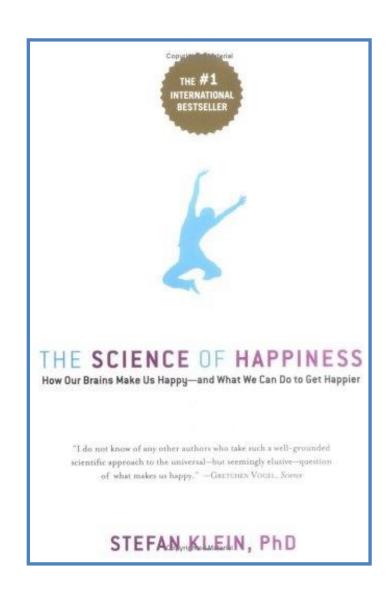
FAST @MPANY

09-14-20

'We were shocked:' RAND study uncovers massive income shift to the top 1%

The median worker should be making as much as \$102,000 annually—if some \$2.5 trillion wasn't being "reverse distributed" every year away from the working class.





Wealth Distribution and Wellbeing

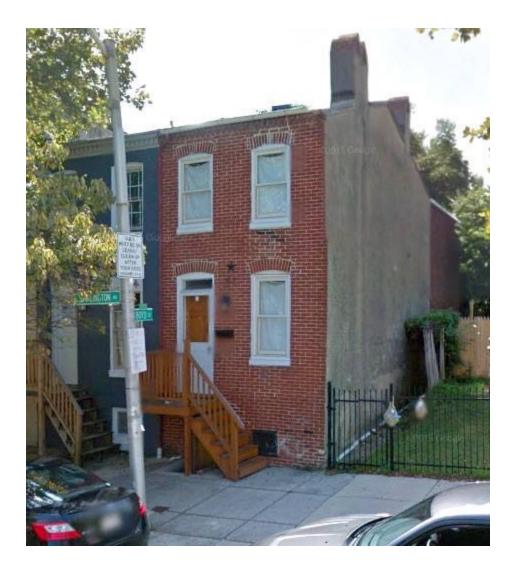
"Citizens of states with large gaps in income level die at a younger age, primarily because of the stress caused by stark social contrasts."

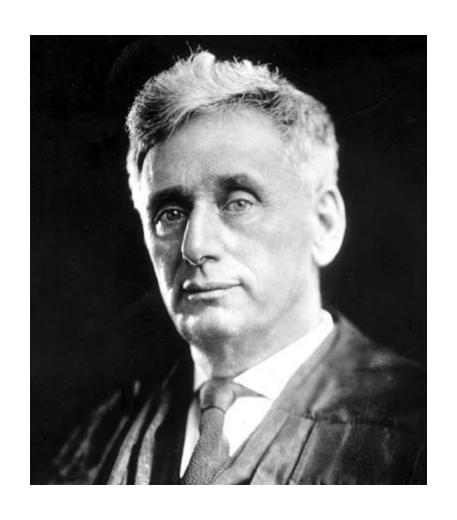
"Above a certain income level, the increase in satisfaction brought by wealth is minimal, but the distribution of wealth in society is of enormous significance."

"Only six miles separate the Baltimore neighborhoods of Roland Park and Hollins Market. [B]ut there is a 20-year difference in the average life expectancy."

Jonathan Bagger, Interim Provost, Johns Hopkins University, Baltimore, Maryland







"We can have democracy in this country, or we may have great wealth concentrated in the hands of a few, but we can't have both."

Supreme Court Justice Louis Brandeis

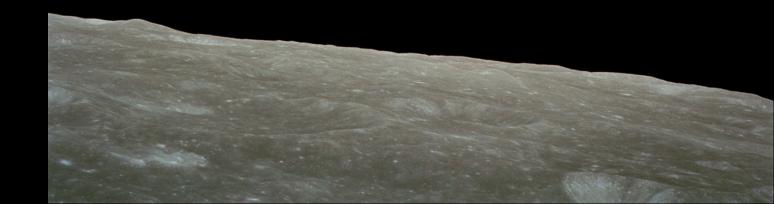
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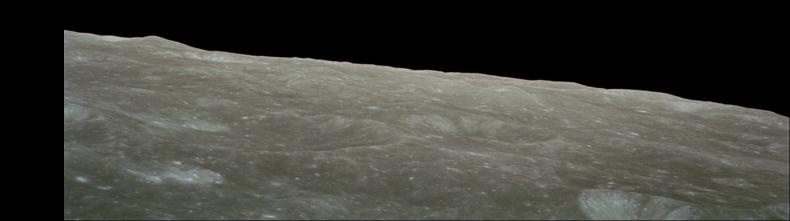
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N NATURE COLONY ECONOMY



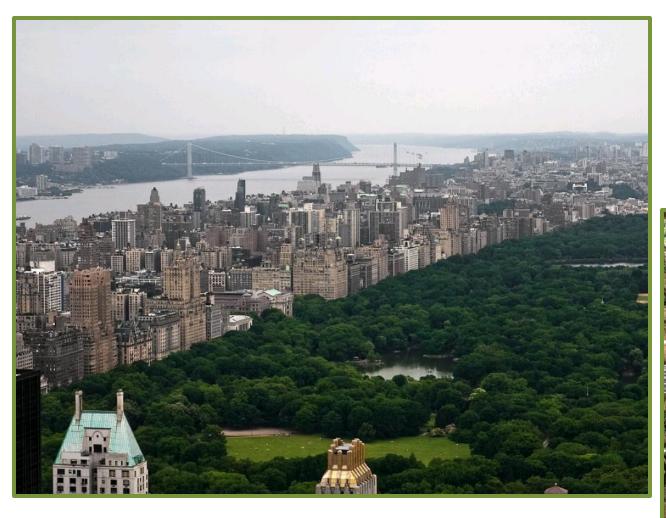
Amory Lovins

Our Desired Future









Examples: Creating a positive future



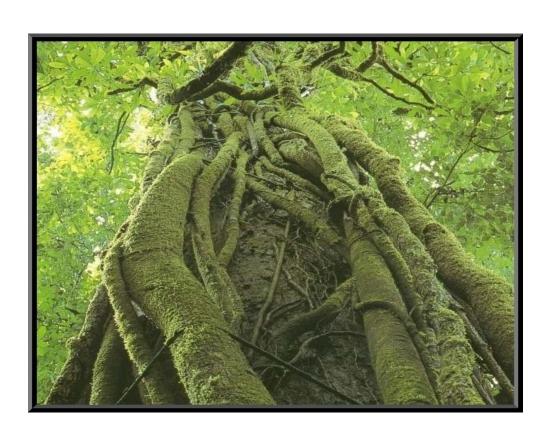


"The major problems in the world are the result of the difference between how nature works and the way people think."

Gregory Bateson



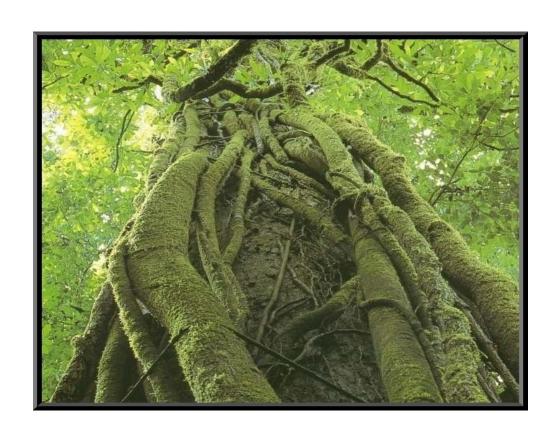
"...a new type of thinking is essential if mankind is to survive and move toward higher levels."



Albert Einstein



"The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn."

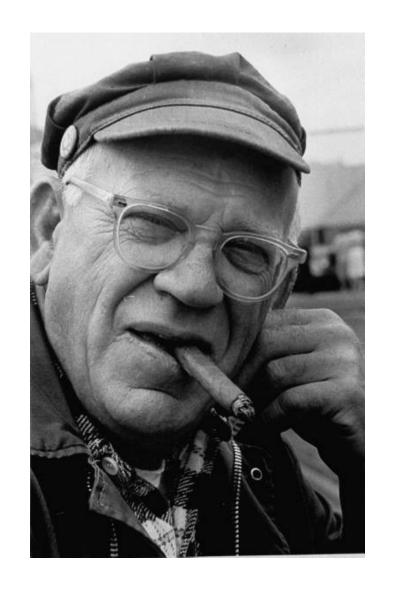


Alvin Toffler

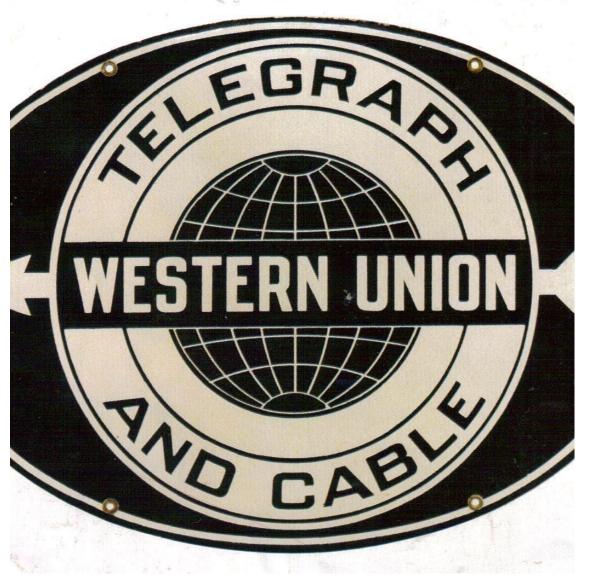


"In times of change, learners inherit the Earth, while the learned find themselves beautifully equipped to live in a world that no longer exists."

Eric Hoffer













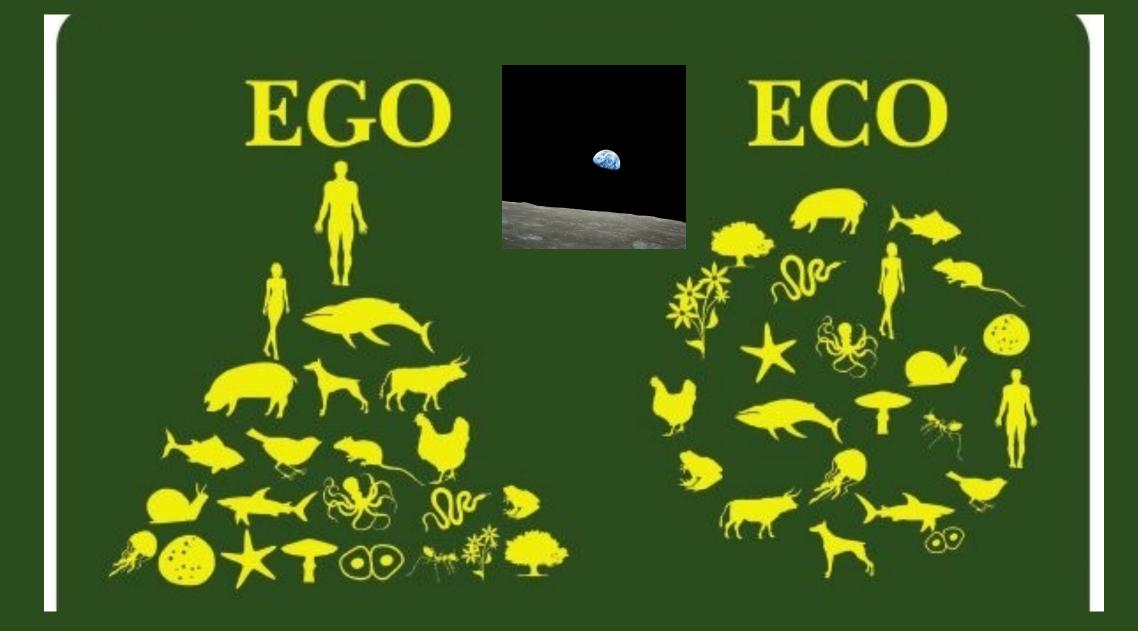


"Cellular phones will absolutely not replace local wire systems."

Martin Cooper, coinventor of the first handheld mobile phone, 1981.









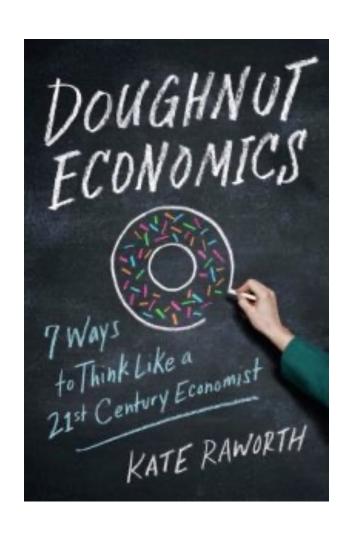
Ecology

"Economics as management of our home in a way that increases its value to all members over time." **Economics**

Herman Daly

What is the purpose of the economy?





"Instead of economies that need to grow, whether or not they make us thrive, we need economies that make us thrive, whether or not they grow."

Kate Raworth



biodiversity loss

DOUGHNUT ECONOMICS



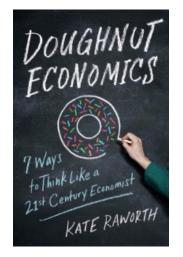
Economics for the 21st Century

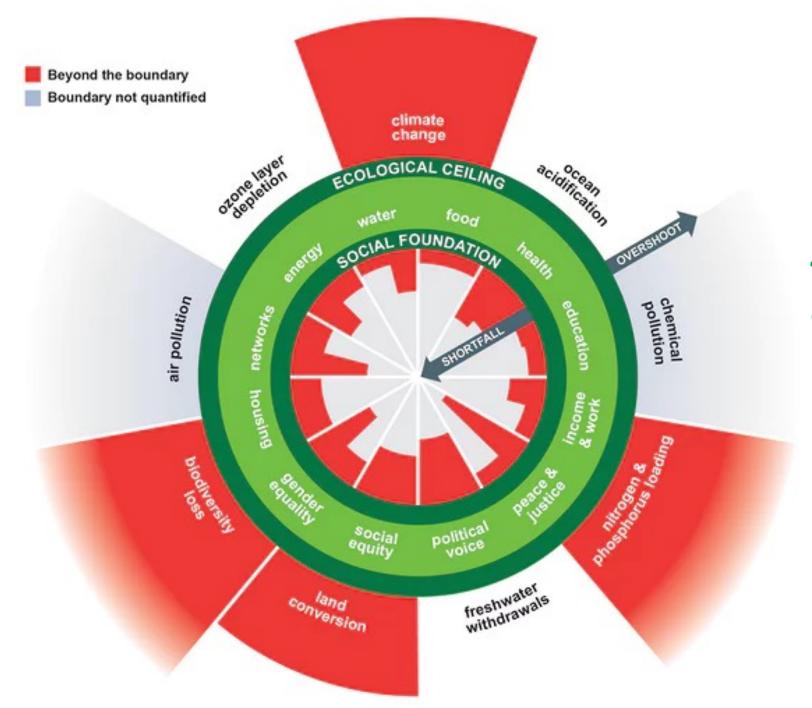
"Meeting the human rights of every person within the means of our life-giving planet."

Ano sustainable economic Dente atmospheric aerosol noituliod lesimans









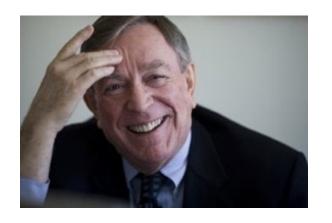
"...chances to remake the future so it serves all beings."

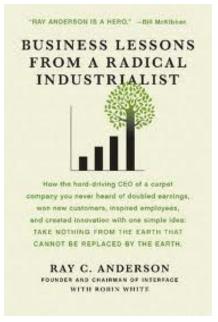
This model 'allows us to see the state in which we now find ourselves'. Source: Kate Raworth and Christian Guthier/The Lancet Planetary Health

"We need nothing short of a vast, ethically driven redesign of our industrial system"

"The tradeoffs we are told we must make between financial success and environmental success <u>are just plain</u> false."

Ray Anderson







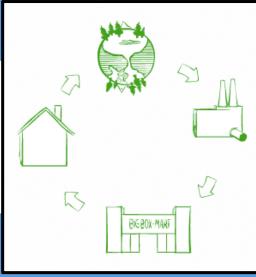


Interface



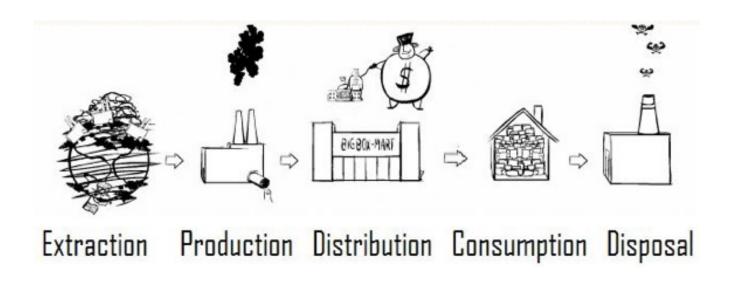


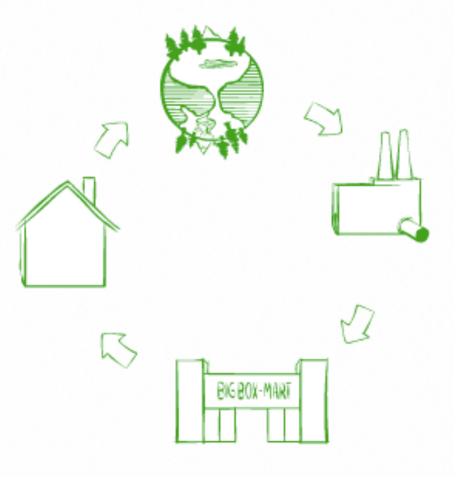
Nylon



Carpet

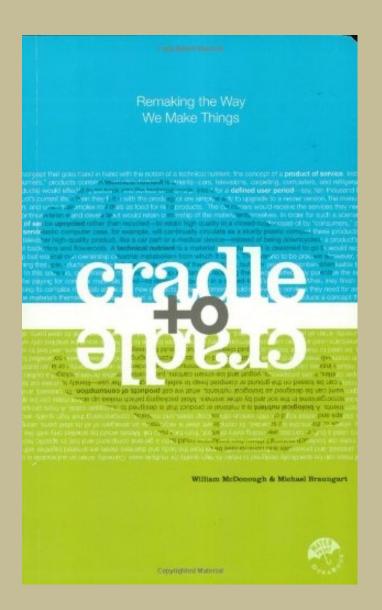
From a Linear Economy to a Circular Economy

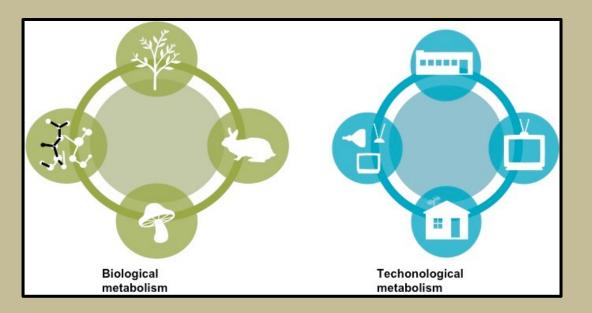


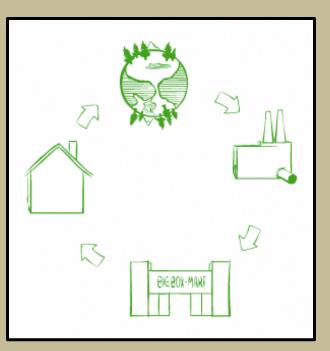


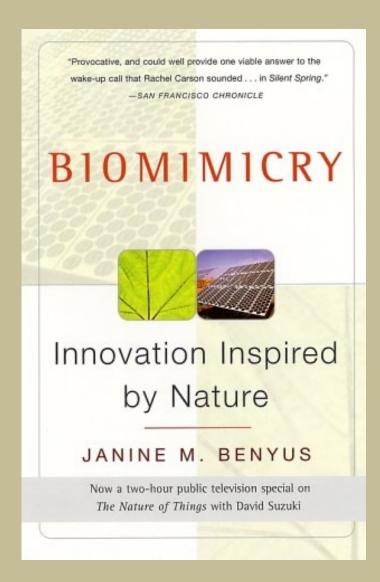
Waste = Food

www.storyofstuff.org







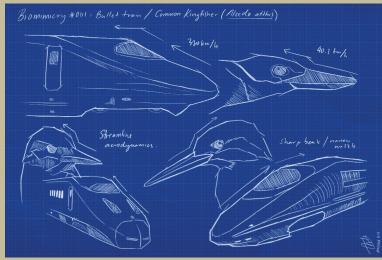


The Science of Biomimicry

3 major components:

- **➢ Nature as Model**
- **➢ Nature as Measure**
- **➤ Nature as Mentor**

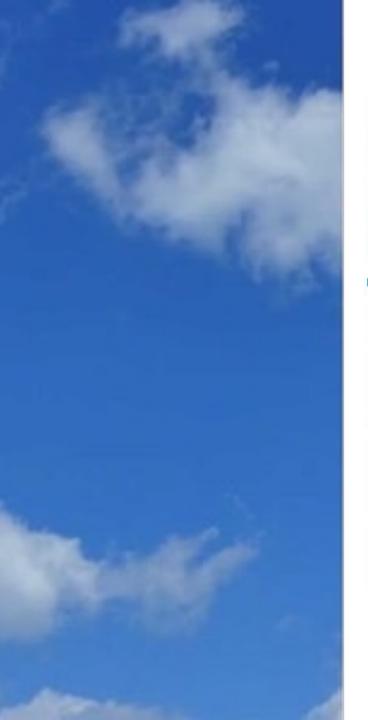




https://biomimicry.org

https://onbeing.org/programs/janine-benyus-biomimicry-anoperating-manual-for-earthlings/





THE MOST COMPREHENSIVE PLAN EVER PROPOSED TO REVERSE GLOBAL WARMING EDITED BY PAUL HAWKEN

www.drawdown.org





"We see global warming not as an inevitability but as an invitation to build, innovate, and effect change, a pathway that awakens creativity, compassion, and genius."

Paul Hawken

DRAWDOWN



www.drawdown.org

Climate solutions by sector

- > ELECTRICITY & OTHER ENERGY
- > FOOD, AGRICULTURE, & LAND USE
- **INDUSTRY**
- **BUILDINGS**
- > HEALTH & EDUCATION
- **►TRANSPORTATION**
- >LAND SINKS
- COASTAL AND OCEAN SINKS
- **➤ ENGINEERED SINKS**

















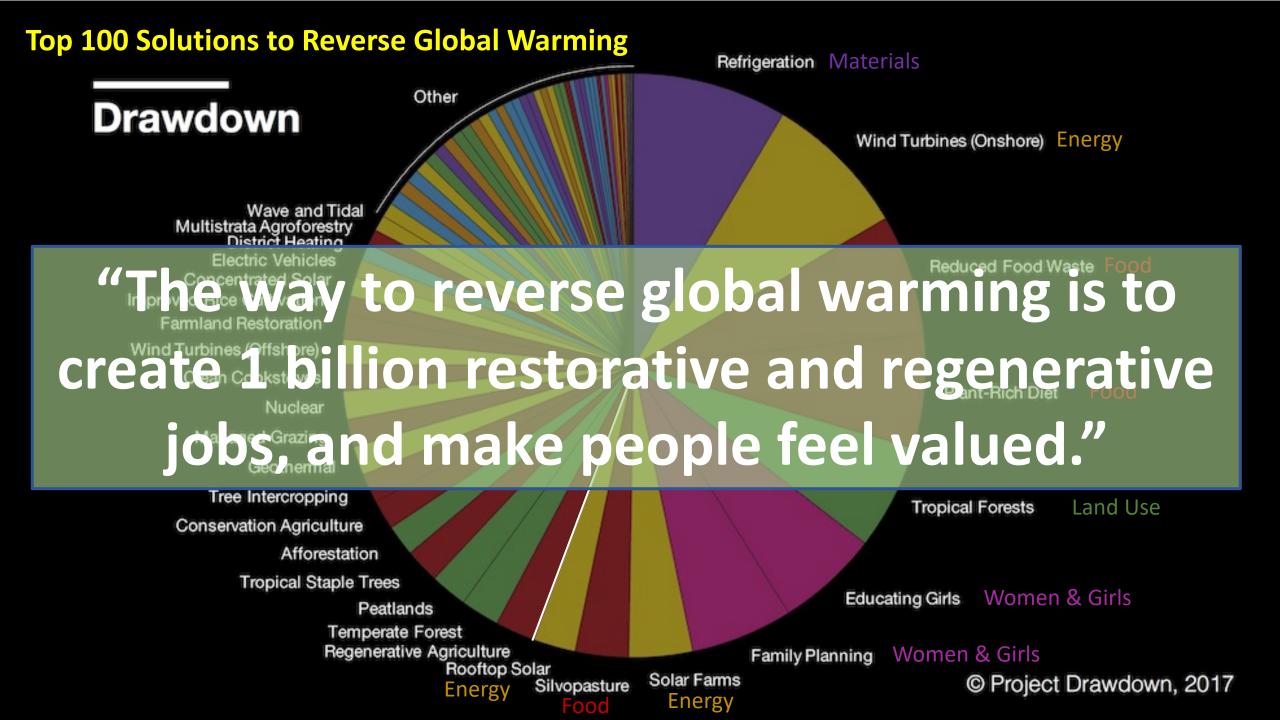




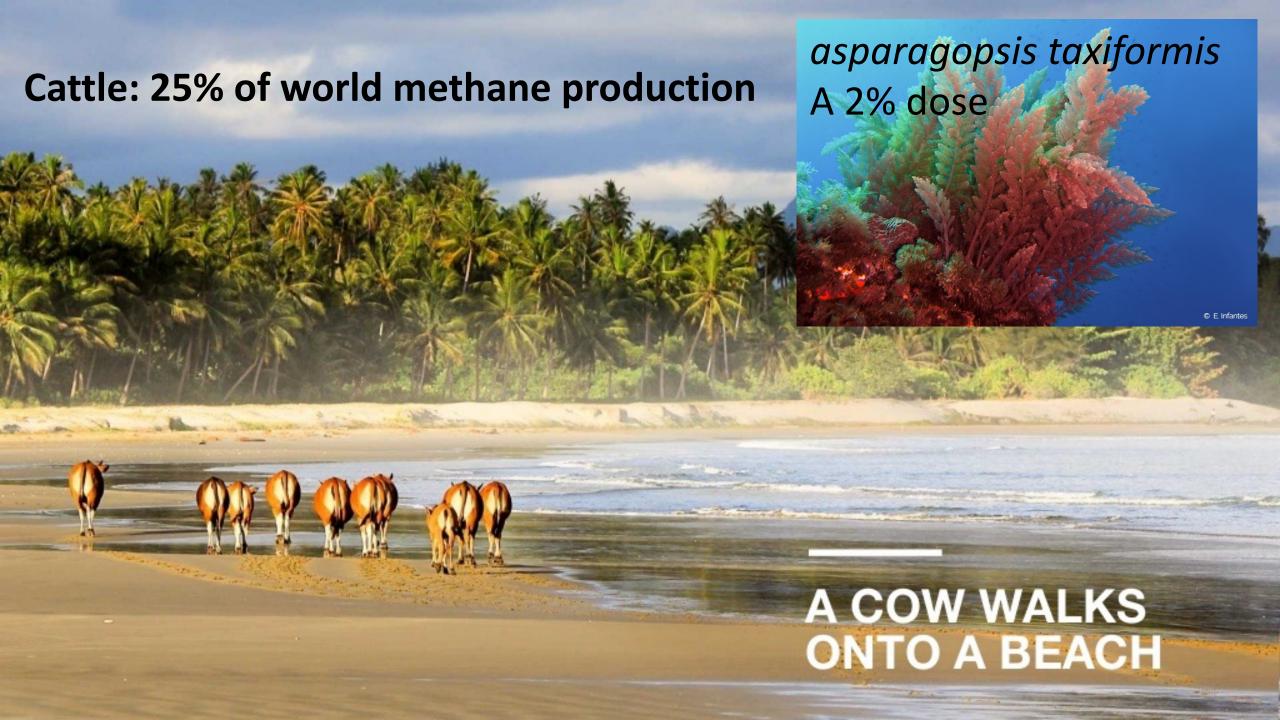














BRAWDOWN



www.drawdown.org

Sustainability Speaker Series

Project Drawdown Executive Director Dr. Jonathan Foley March 18 2024

7:00 p.m.

Langdon Hall

Auburn University







2%
of the global GDP pie



Global GDP

\$100 T

2% =

\$2 T



WW II 36 %

of US GDP



2008 **Financial Crisis** 3.5 %



Global stimulus response to COVID

14 %
Of global
GDP



7 % of global **GDP** in subsidies to the fossil fuel industry

\$7 Trillion





Alabama:

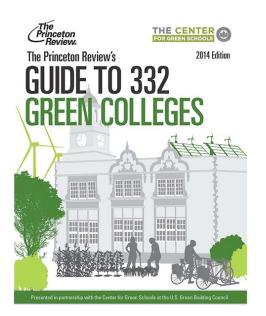
#9

#50

eneration generation

"Reversing the climate crisis is an outcome. Regenerating human health, security, and wellbeing, the living world, and justice is the purpose."









Auburn University





















Auburn has made significant commitments to sustainability

- > Sustainability Policy
- > American College and University Presidents Climate Commitment
- University Strategic Plans 2008-2012, 2019-2024
- Campus Master Plan
- Campus Landscape Master Plan
- Energy Reduction Strategy
- Office of Sustainability
- > Academic Sustainability Program
- LEED-certified Buildings Commitment
- > Tiger Dining
- Parking & Transportation Services
- > Fair Labor Code for Licensees

LEED Buildings at Auburn University











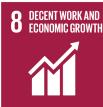


































AUBURN UNIVERSITY **AND THE UNITED NATIONS SUSTAINABLE DEVELOPMENT** OF 2019 - 2021

Published December 2022

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"Sustainability is not just about caring for the environment, it's also about caring for the society around you."

- Laine Harrington '21, Environmental Science

Recent Events:



Student Spotlights:





Director's Note:

The Academic Sustainability Program has had a busy year. We've added dozens of courses to the redesigned minor in Sustainability Studies, toward which a recordshattering 128 students are currently working. Students in the Capstone course produced outstanding student work that drew on their expertise in forestry, landscape architecture, history, marketing, and more. Our new faculty directory provided a valuable resource and a record of the immense range of expertise across campus. On Earth Day, we launched our new research symposia series, which will provide an interdisciplinary platform for researchers to share that expertise and to showcase the





Campus as Living Learning Laboratory











Student Groups



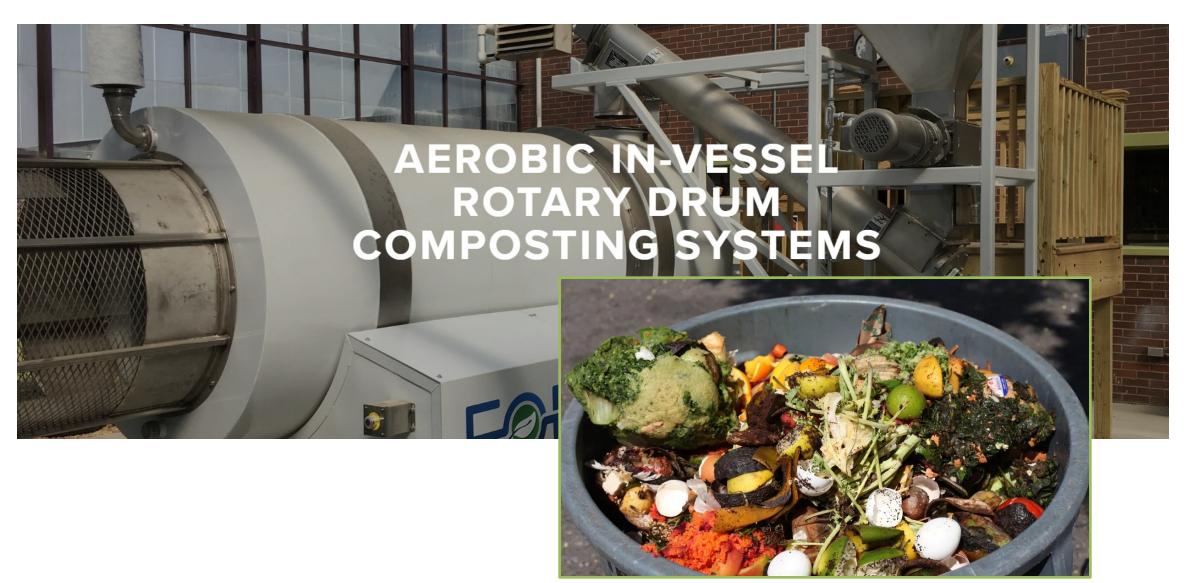
- > AU Habitat for Humanity
- > Alabama Arise
- > Engineers Without Boarders
- > Permaculture Tigers
- > Campus Kitchen Project
- > Crop, Soil, & Environmental Sciences Club
- > US Green Building Council Student Chapter
- > Auburn for Water
- > International Justice Mission
- > Center for Leadership and Ethics
- > Community and Civic Engagement Club
- Society for Conservation Biology
- > Sustainable Designers Organization
- Diversity and Tolerance Organization
- > Environmental Design Student Organization
- > Society for Natural Resources
- Organic Garden Club







Composting







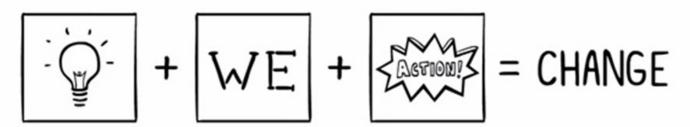
"There are no scientific or technical obstacles to protecting our world and the precious life it supports. It all depends on what we truly value, and that we can summon the will to act."

Neil deGrasse Tyson



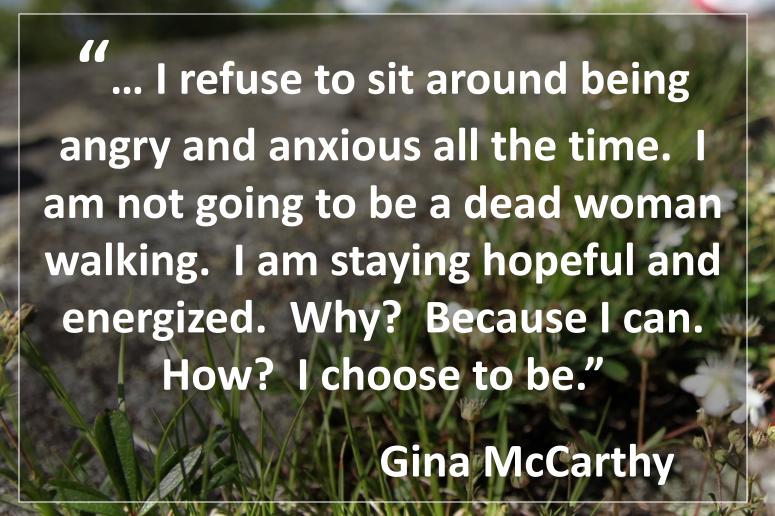
Jianus August

The Story of Change











Truth, Courage, and Solutions for the Climate Crisis

Edited by Ayana Elizabeth Johnson & Katharine K. Wilkinson









AUBURN

SUSTAINABILITY