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# Climate Change and Transition Studies

An Interactive Online Learning Initiative

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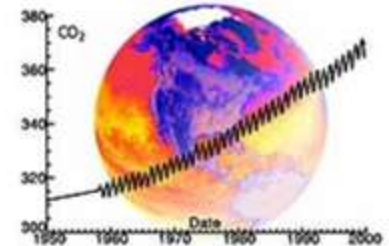
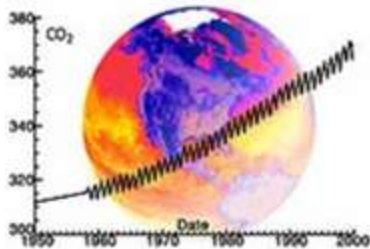
Timothy C. Weiskel

Research Director, *Cambridge Climate Research Associates*

**Climate Science for Human Survival**

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## Session 5

International Negotiations on a Global  
Problem: Progress and the Major Remaining  
Challenges for Global Leadership

8 August 2019

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*(But first....)*

Let's look at some remaining themes and information from last week's class on ....

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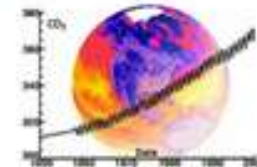
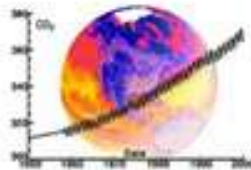
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Research Director, *Cambridge Climate Research Associates*

*Climate Science for Human Survival*

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### Session 4

Climate Change, Soils, Agriculture and  
the Global Food System

1 August 2019

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# Last year and this year...

## some events...

**Temperatures in Spain, Portugal could reach 48°C  
as Europe struggles with heatwave**

Posted on [August 8, 2018](#) | [Leave a comment](#)



[FRANCE 24 English](#)

# Last year and this year...

## some events...

### Europe Wildfires: Portugal battles fires as heatwave continues

Posted on [August 8, 2018](#) | [Leave a comment](#)



[TRT World](#)

[ You will remember Session 3...slides 62-72 ]

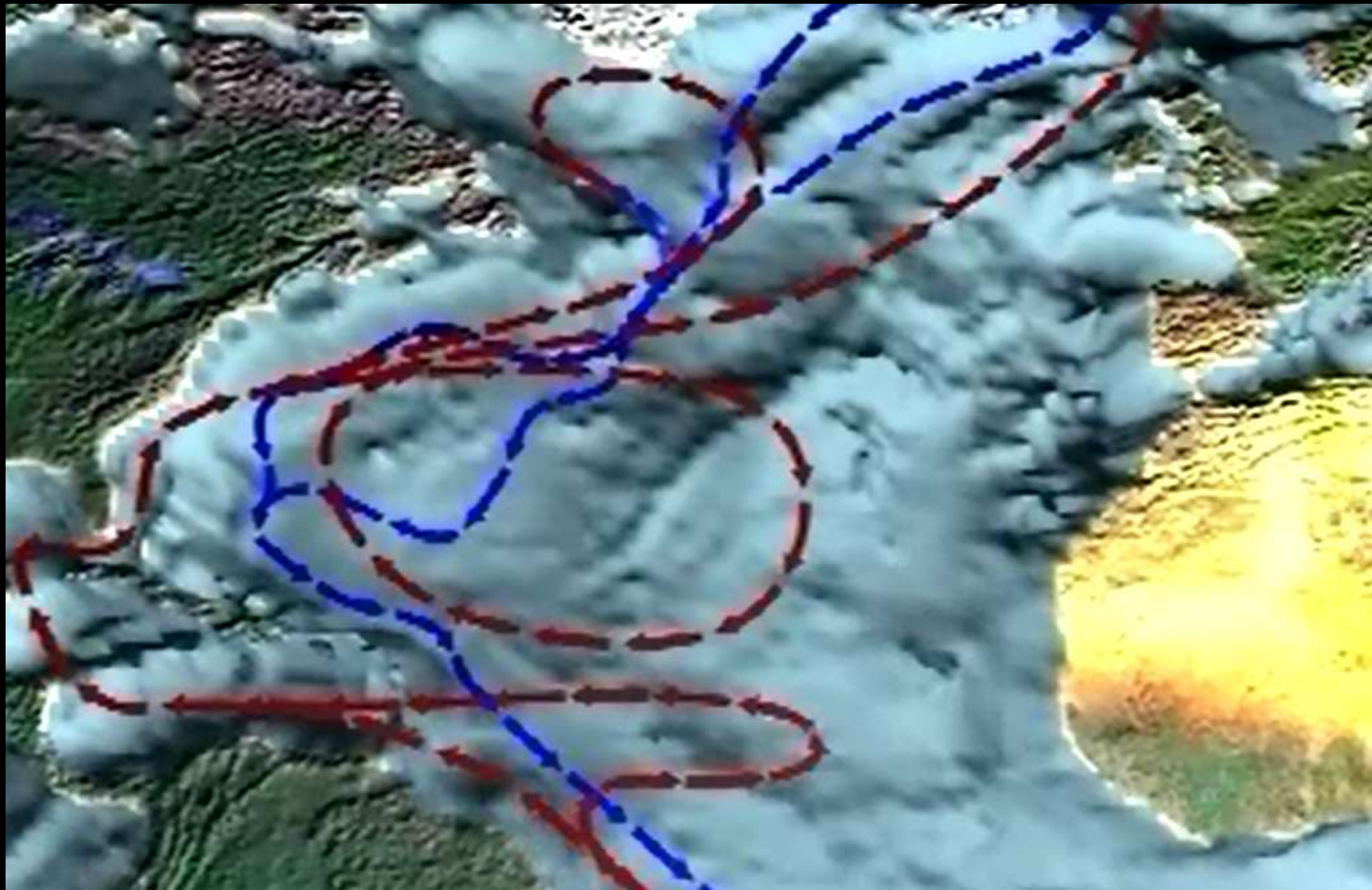
...beyond questions of sea-level change...  
we should consider the...

## 3. Potential

# Changes in Ocean Currents

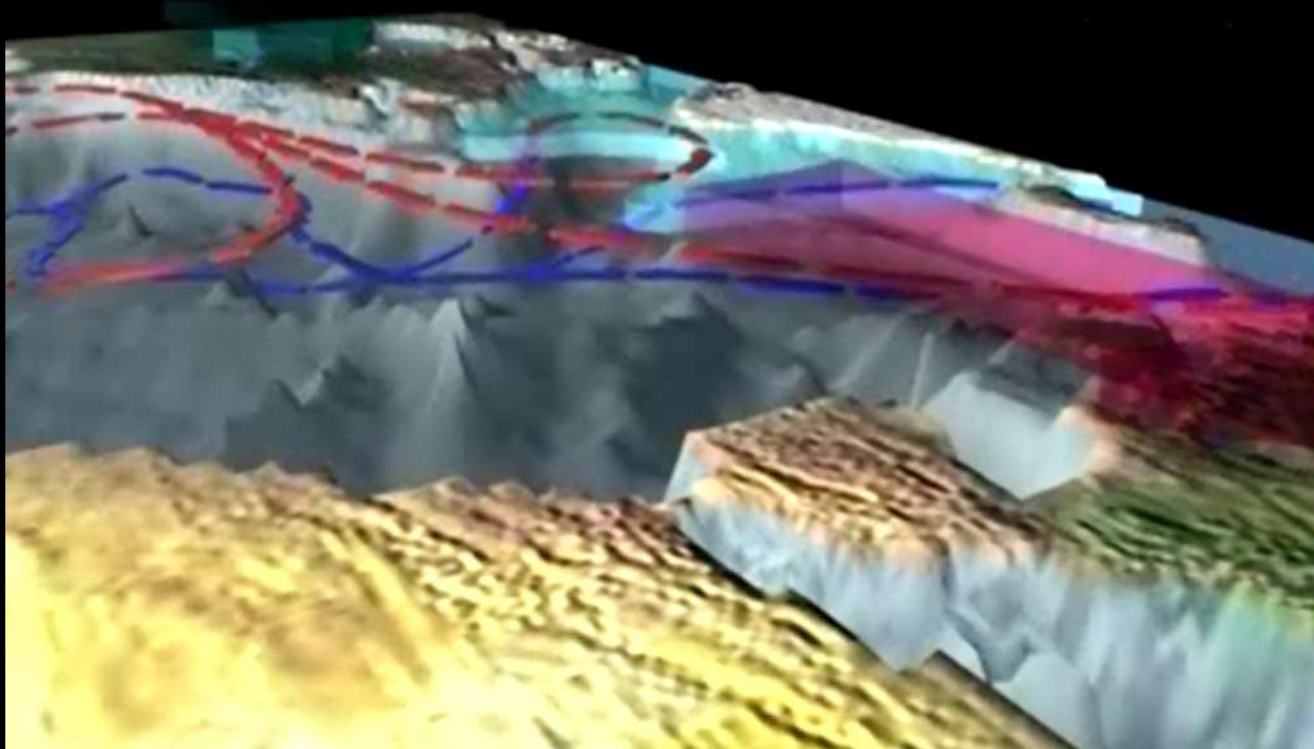


What about ocean currents and ocean-atmosphere-land interactions?

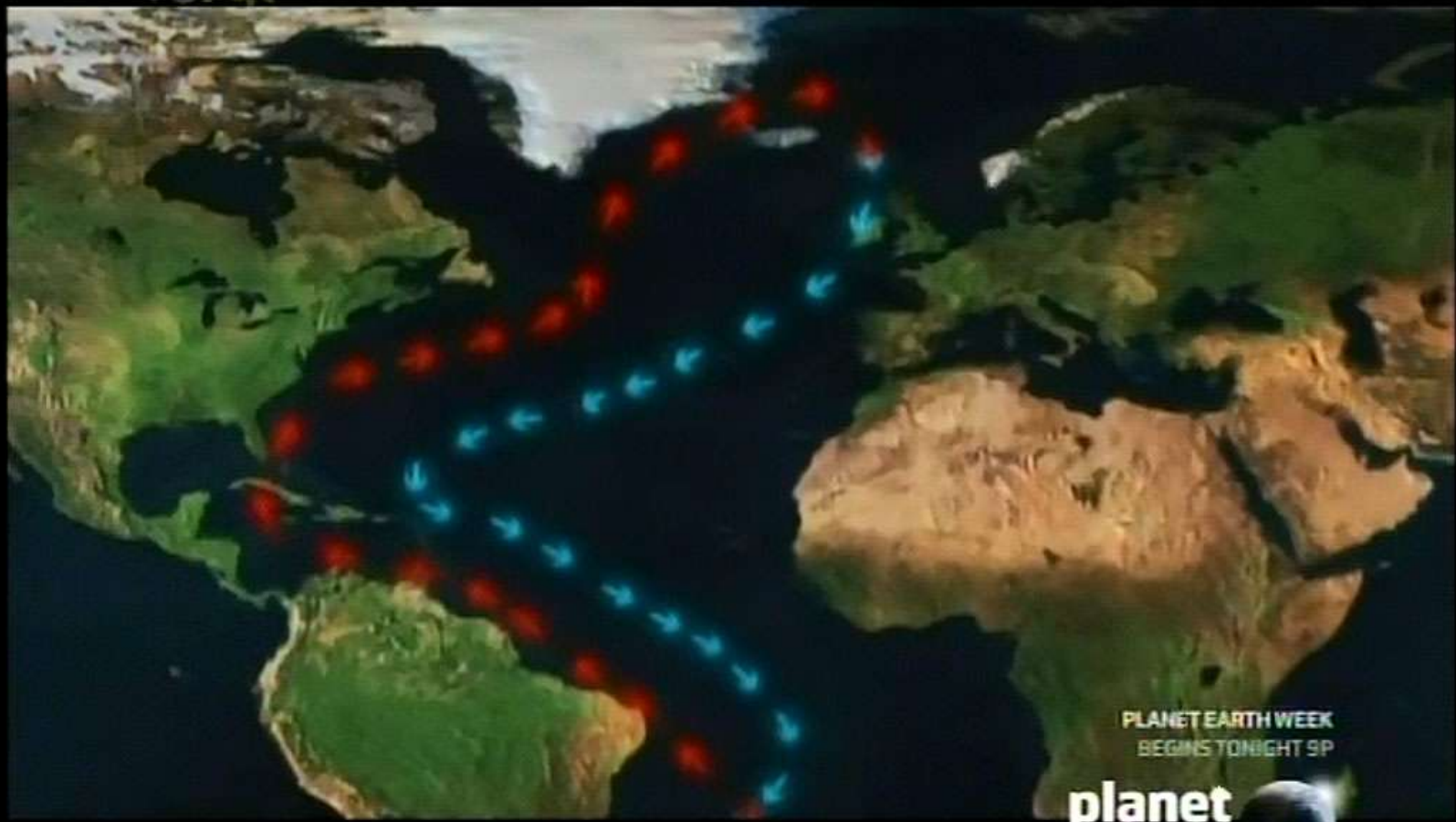


# What might Greenland melting do to the North Atlantic “Thermo-Haline Circulation” (THC) system?

The melt water from Greenland’s glaciers might be disrupting the THC system, causing drought in the Mediterranean and wetter, colder weather further north in Europe.



The circulation of warm waters from the tropics toward the poles determines the “weather” over much of Earth. Any changes in this circulation can lead to abrupt changes in weather over time – ie. climate. The Asian monsoons need to be studied in addition to **the north Atlantic THC system.**





Paleo-climatologists (climate archeologists) are now finding evidence for an abrupt change in ancient climate leading to the simultaneous collapse of ancient Egypt and Mesopotamia – *perhaps related to a shift in the Atlantic THC system*



<https://environmentaljusticetv.wordpress.com/2014/07/08/why-ancient-egypt-fell-2/>

# Last year and this year...

## some events...

### Footage shows damage from heavy rainstorm in NW China

Posted on [July 26, 2018](#) | [Leave a comment](#) | [Edit](#)



[CGTN](#)

Published on Jul 22, 2018

# Last year and this year...

## some events...

### California wildfires could burn until September

Posted on [August 8, 2018](#) | [Leave a comment](#)



[CGTN America](#)

Published on Aug 8, 2018

# Last year and this year...

## some events...

### China Is a Climate Leader but Still Isn't Doing Enough on Emissions, Report Says – The New York Times

Posted on [July 19, 2018](#) | [Leave a comment](#) | [Edit](#)

#### *China Is a Climate Leader but Still Isn't Doing Enough on Emissions, Report Says*



A layer of smog in January over Taiyuan, the provincial capital of Shanxi, China's biggest coal-producing region. *Gilles Sabard for The New York Times*

By Edward Wong



In fact, the impact on agriculture of a changing climate has been emphasized by scientists for more than 30 years...

## Some Prophetic & Enduring Testimony



23 June 1988

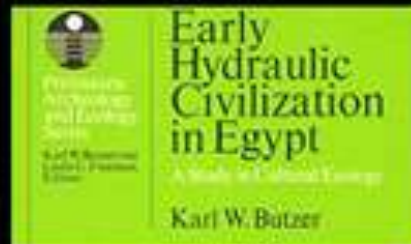
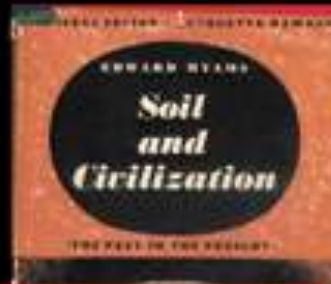


14 September 1988

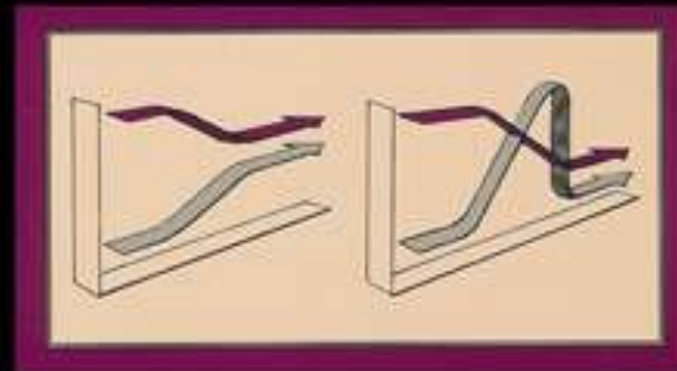
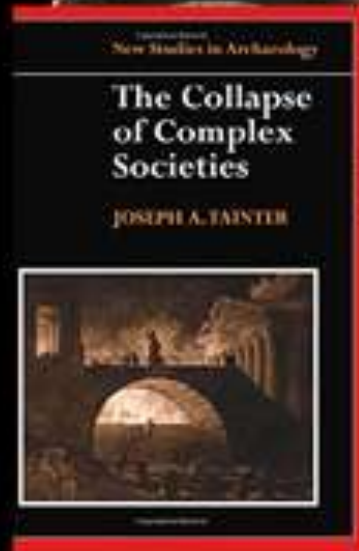
In fact, the impact on agriculture of a changing climate has been emphasized by scientists for more than 30 years...

## Got a Carbon Problem? Fix it !

### Part 3 – Growing Soil to Save the Human Prospect



Sustainability vs Ecological "Overshoot" & Collapse



In addition...

the consequences for global agriculture of these continued emissions have been made clear by the U.N. since 2005.

**Remember the 2005 ?**

***UN Millennium Ecosystem  
Assessment Report***

# UN Millennium Ecosystem Assessment Report

**BBC NEWS**

[Watch](#) **One-Minute World News**



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Last Updated: Wednesday, 6 April, 2005, 13:06 GMT 14:06 UK

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## Is the Earth's future in danger?

**Human activities threaten the Earth's ability to sustain future generations, a survey into the state of the planet has concluded.**



The Millennium Ecosystem Assessment, by 1,360 experts from 95 nations, says the way society has obtained its resources over the past 50 years has seriously degraded the environment.

The report also says a rising human population had polluted or over-exploited most ecosystems on which life depends, ranging from clean air to fresh water.

**What do you think of the findings of the Millennium Ecosystem Assessment? What can be done to reverse global decline?**





## Guide to the Millennium Assessment Reports

### *Full Reports*



The Working Group assessment reports are between 500–800 pages in length, with a volume of summaries of about 120 printed pages.

- [Learn more](#)
- [Current States & Trends](#)
- [Scenarios](#)
- [Policy Responses](#)
- [Multiscale Assessments](#)

### *Synthesis Reports*

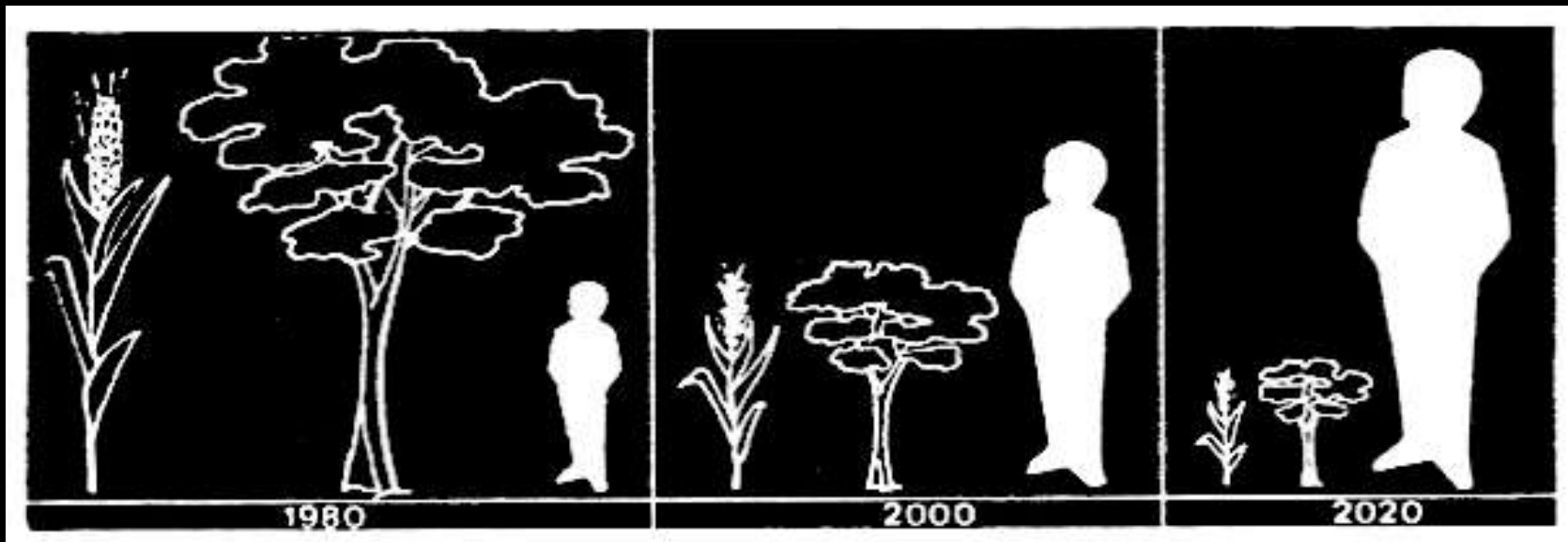


The first set of assessment reports consists of an overall synthesis and 5 others that interpret the MA findings for specific audiences.

[Learn more](#)

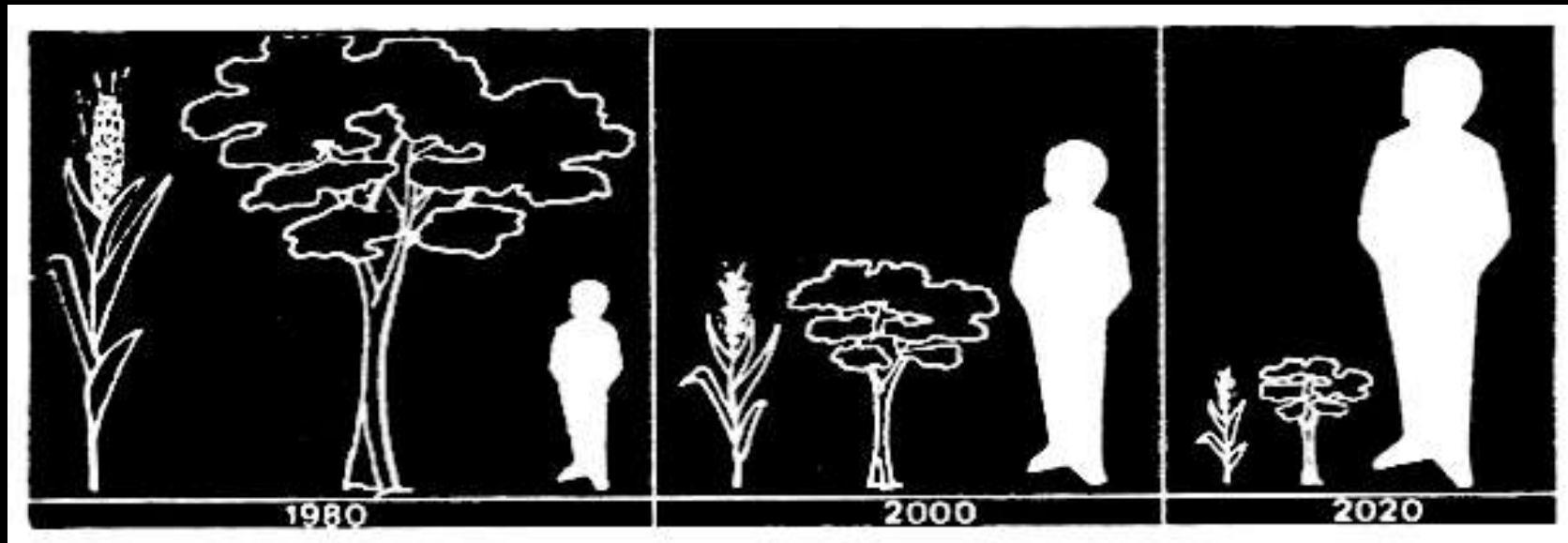
- [Overall synthesis](#)
- [Biodiversity](#)
- [Desertification](#)
- [Business & Industry](#)
- [Wetlands and Water](#)
- [Health](#)

From 2001-2005, the international scientific community was convened by Koffi Annan, Sec. General of the U.N. to address this question. And they issued the Millennium Ecosystem Assessment Report in March 2005.



**David Malakoff, "Report Urges Action Against Ecosystem Damage," *NPR - Morning Edition*, (30 March 2005).**

**<http://www.npr.org/dmg/dmg.php?prgCode=ME&showDate=30-Mar-2005&segNum=5&mediaPref=RM>**



**Part of the problem comes from transforming the ratios between the “wild” species (forest tree), the “cultivated species” (stalk of wheat) and ourselves.**

**This 1995 UN Ecosystem Assessment Report is the largest and loudest warning signal from the environmental scientists ever.**



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ENVR - E-120 - Fall Semester 2006  
Environmental Ethics and Land Management

[Harvard Extension School](#)

<http://courses.dce.harvard.edu/~envre120>

[Timothy C. Weiskel](#)

[TWeiskel@FAS.Harvard.Edu](mailto:TWeiskel@FAS.Harvard.Edu)

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[Week 2](#)

[Week 1](#)



**No amount of genetic engineering will address the ethical problem of limit posed by the most recent scientific studies.**



# In 2017 the message was repeated in a U.N Report on Food & Hunger

## UN Releases Dire Report On Rising World Hunger Despite Ample Food Supplies

Posted on [June 23, 2018](#) | [Leave a comment](#) | [Edit](#)



Last year and this year... events and reports made this even *more* clear...

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PNAS Proceedings of the National Academy of Sciences of the United States of America

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# Trajectories of the Earth System in the Anthropocene



Will Steffen, Johan Rockström, Katherine Richardson, Timothy M. Lenton, Carl Folke, Diana Liverman, Colin P. Summerhayes, Anthony D. Barnosky, Sarah E. Cornell, Michel Crucifix, Jonathan F. Donges, Ingo Fetzer, Steven J. Lade, Marten Scheffer, Ricarda Winkelmann, and Hans Joachim Schellnhuber

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NEW RESEARCH IN

## Trajectories Anthropocene

Will Steffen, Johan f  
Diana Liverman, Co  
Jonathan F. Donges  
Hans Joachim Schellnhu

## Study suggests Earth may enter Hothouse Climate State

Posted on August 9, 2018 | [Leave a comment](#)



<https://environmentaljusticetv.wordpress.com/2018/08/09/study-suggests-earth-may-enter-hothouse-climate-state/>



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## Trajectories of the Anthropocene

Will Steffen, Johan Rockström, Katharina Liverman, Colin P. Summerhayes, Jonathan F. Donges, Ingo Fetzer, Stefan Hans Joachim Schellnhuber

### Runaway climate change could trigger 'Hothouse Earth' with 200ft sea level rises, warn scientists

Posted on [August 10, 2018](#) | [Leave a comment](#)

Runaway climate change could trigger 'Hothous... 720





In fact, the most dramatic warming was published by the U.N. for the world *just this morning*.



In fact, the most dramatic warming was published by the U.N. for the world *just this morning.*

## U.N. Scientists Warn Rapid Global Warming Threatens Food Supply

Posted on August 8, 2019 | Leave a comment



<https://environmentaljusticetv.wordpress.com/2019/08/08/u-n-scientists-warn-rapid-global-warming-threatens-food-supply/>

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## Agriculture pioneer Borlaug dies

Norman Borlaug, the man known as the father of the Green Revolution in agriculture, has died in the US state of Texas aged 95.

Prof Borlaug won the Nobel Peace Prize in 1970 for agricultural innovation and the development of high-yield crops.

The Green Revolution helped world food production more than double between 1960 and 1990 with Asia, Africa and Latin America in particular benefiting.

The Nobel Institute said he had helped save hundreds of millions of lives.

Prof Borlaug died late on Saturday evening at his home in Dallas from complications with cancer, said a spokesperson for Texas A&M University, where he had worked.

### 'A better place'

In the early 1960s Prof Borlaug realised that creating short-stemmed varieties would leave food plants more energy for growing larger heads of grain.



Borlaug won the Nobel Peace Prize and US Congressional Gold Medal

**Q: Why has the human community side-stepped or ignored the “population” problem?**



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**A: Because of our mistaken understanding of the ecosystem.**



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**Q: Why has the human community side-stepped or ignored the “population” problem?**

**A: ... we have come to think of agriculture as an “industry” that can be run on fossil fuels.**

# One man, Norman Borlaug, had a powerful influence on organizing global agriculture on this mistaken metaphor after World War II



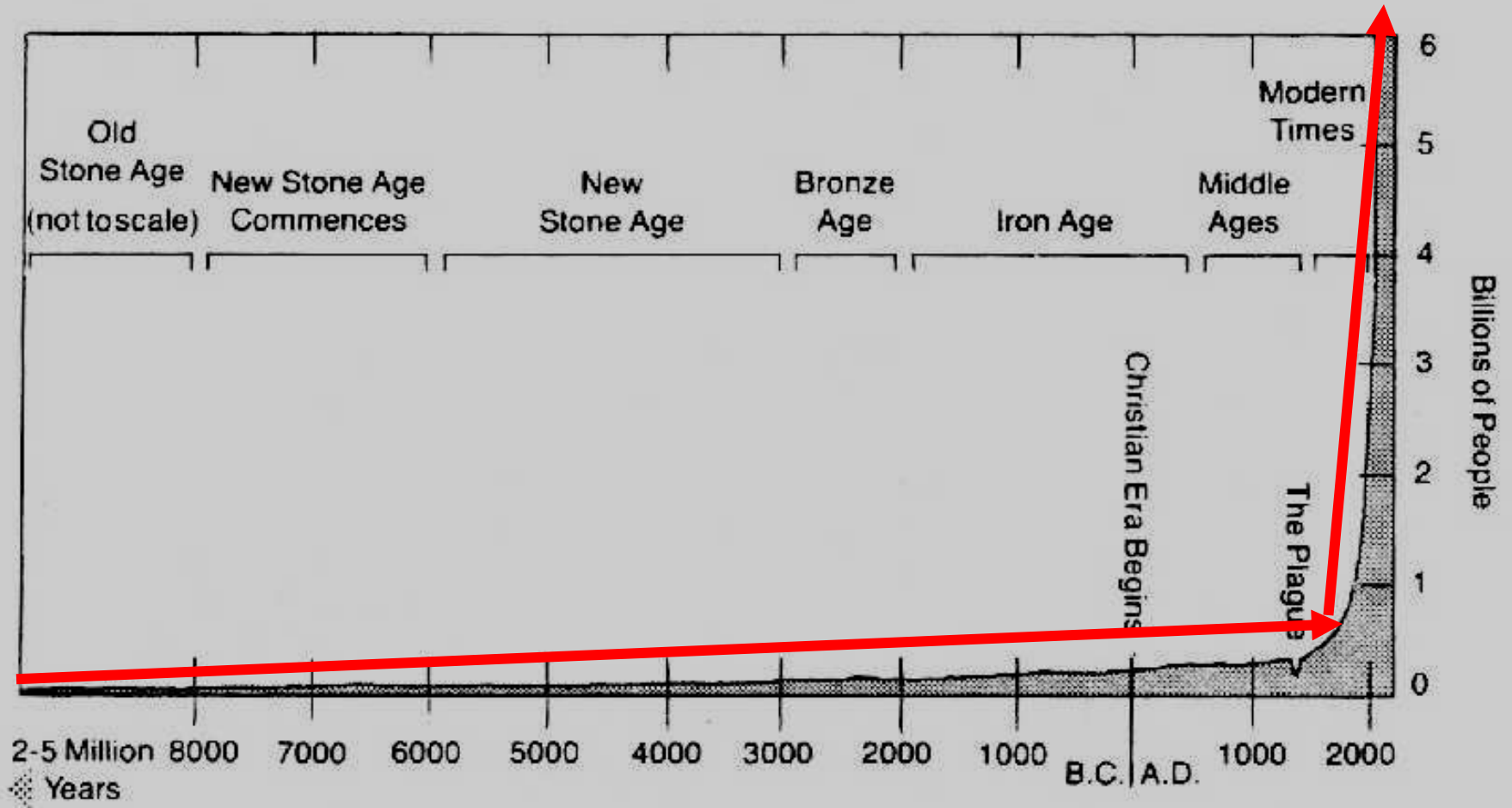
Compare the BBC obituary with that from NPR in the United States.

[BBC, Newshour, 13 September 2009](#)

**Norman Borlaug  
(1914 – 2009)**

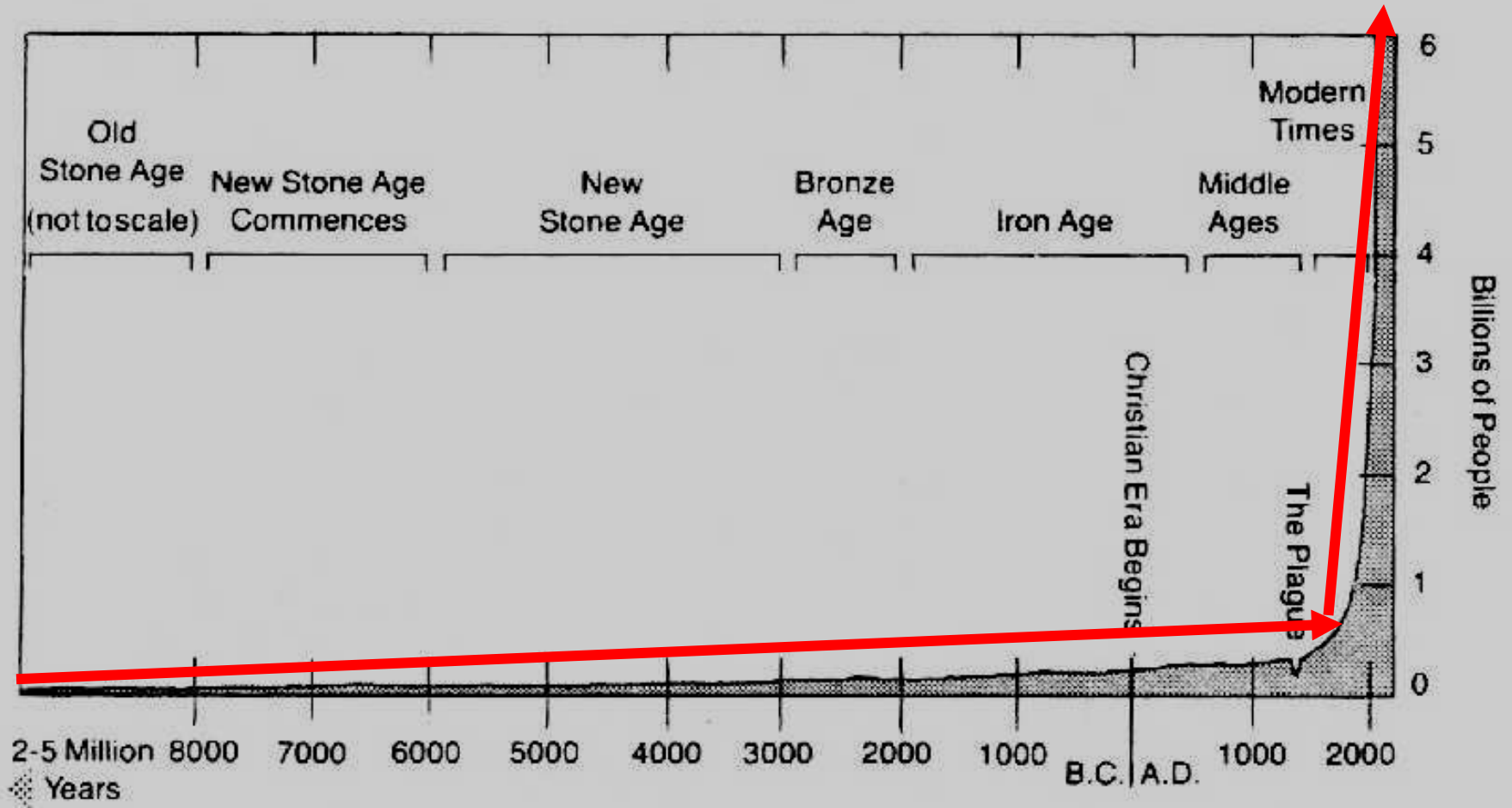
<http://www.climate-talks.net/2008-ENVRE130/Audio/20090913-BBC-Borlaug-Newshour-obit.mp3>

# World Population Growth Through History





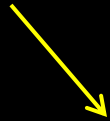
# World Population Growth Through History



Never before....and never again.

**Norman Borlaug**  
**addressed the**  
**The “Food” Problem**

# Norman Borlaug addressed the The “Food” Problem



... but we have come to understand  
that this is only part of:

# Norman Borlaug addressed the The “Food” Problem

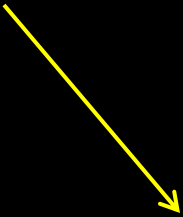
 ... but we have come to understand  
that this is only part of:  
**The Food/Population Problem**



# Norman Borlaug addressed the The “Food” Problem



... but we have come to understand  
that this is only part of:  
**The Food/Population Problem**



... and that, in turn, is  
only part of:

# Norman Borlaug addressed the The “Food” Problem

... but we have come to understand  
that this is only part of:

## The Food/Population Problem

... and that, in turn, is  
only part of:

## The Food/Population/Environment Problem

# Norman Borlaug addressed the The “Food” Problem

... but we have come to understand  
that this is only part of:

## The Food/Population Problem

... and that, in turn, is  
only part of:

## The Food/Population/Environment Problem

[ This Requires a Paradigm Shift ]



## Norman Borlaug (1914 – 2009)

The Crucial Question Is:

Will the students and followers of Norman Borlaug be able to make the paradigm shift **to** sustainable agriculture that is now required for our collective human survival?



CHARLES C. MANN

*Author of 1491*

THE  
**WIZARD**  
AND THE  
**PROPHET**



TWO REMARKABLE SCIENTISTS  
*and* THEIR DUELING VISIONS *to*  
SHAPE TOMORROW'S WORLD

**Norman Borlaug**

**vs**

**William Vogt**

CHARLES C. MANN

*Author of 1491*

THE  
WIZARD  
AND THE  
PROPHET

**Norman Borlaug**

vs

**William Vogt**

TWO REMARKABLE SCIENTISTS  
*and* THEIR DUELING VISIONS *to*  
SHAPE TOMORROW'S WORLD

# Paradigms – or worldviews – have enormous implications for ethics and for policy...

In the middle of the 20<sup>th</sup> century – largely following *the growth paradigm* championed by Norman Borlaug –



# Paradigms – or worldviews – have enormous implications for ethics and for policy...

In the middle of the 20<sup>th</sup> century – *largely following the growth paradigm championed by Norman Borlaug* – humanity transformed agriculture from solar based systems to a global petro-dependent one.





# Paradigms – or worldviews – have enormous implications for ethics and for policy...

In the middle of the 20<sup>th</sup> century – *largely following the growth paradigm championed by Norman Borlaug* – humanity transformed agriculture from solar based systems to a global petro-dependent one.



**This may well prove to have been a disastrous mistake.**

# Paradigms – or worldviews – have enormous implications for ethics and for policy...

In the middle of the 20<sup>th</sup> century – *largely following the growth paradigm championed by Norman Borlaug* – humanity transformed agriculture from solar based systems to a global petro-dependent one.



**If we are ethically responsible for the foreseeable consequences of our own behavior what will this mean for the ethics of agriculture?**

Where do you stand in the midst of these  
paradigm shifts?

Where do you stand in the midst of these paradigm shifts?

You need to pay attention to how your mind and heart are being “furnished.”

If you don't someone else will furnish them for you. (Billions of \$ are spent each year in this to furnish your mind – with ads, promotions, etc).



Where do you stand in the midst of these paradigm shifts?

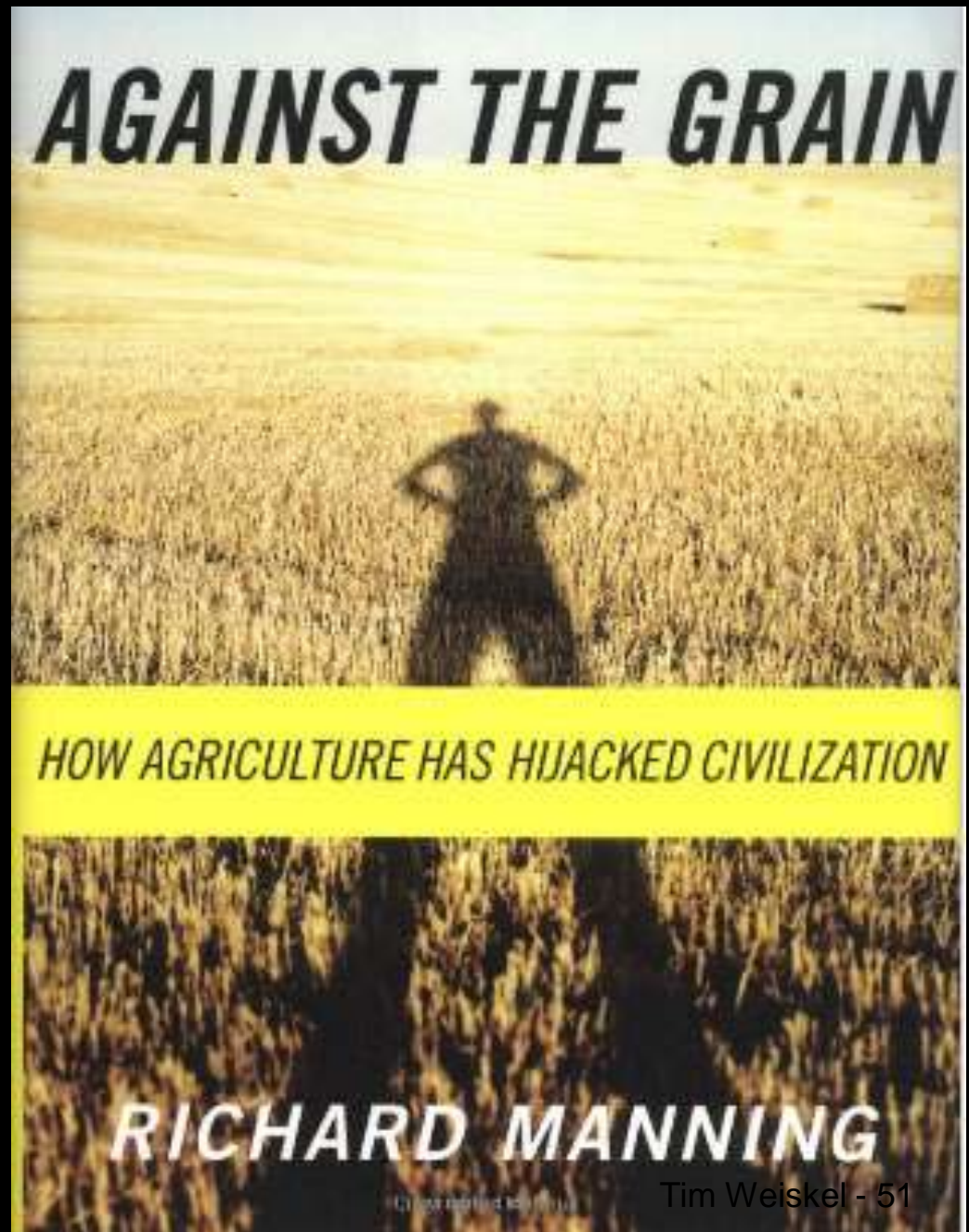
You need to pay attention to how your mind and heart are being “furnished.”

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Higher education and research are your last best chances to prepare yourselves....That's what education is for. It can *prepare you for the paradigm shifts* that you will have to undertake in your own life...

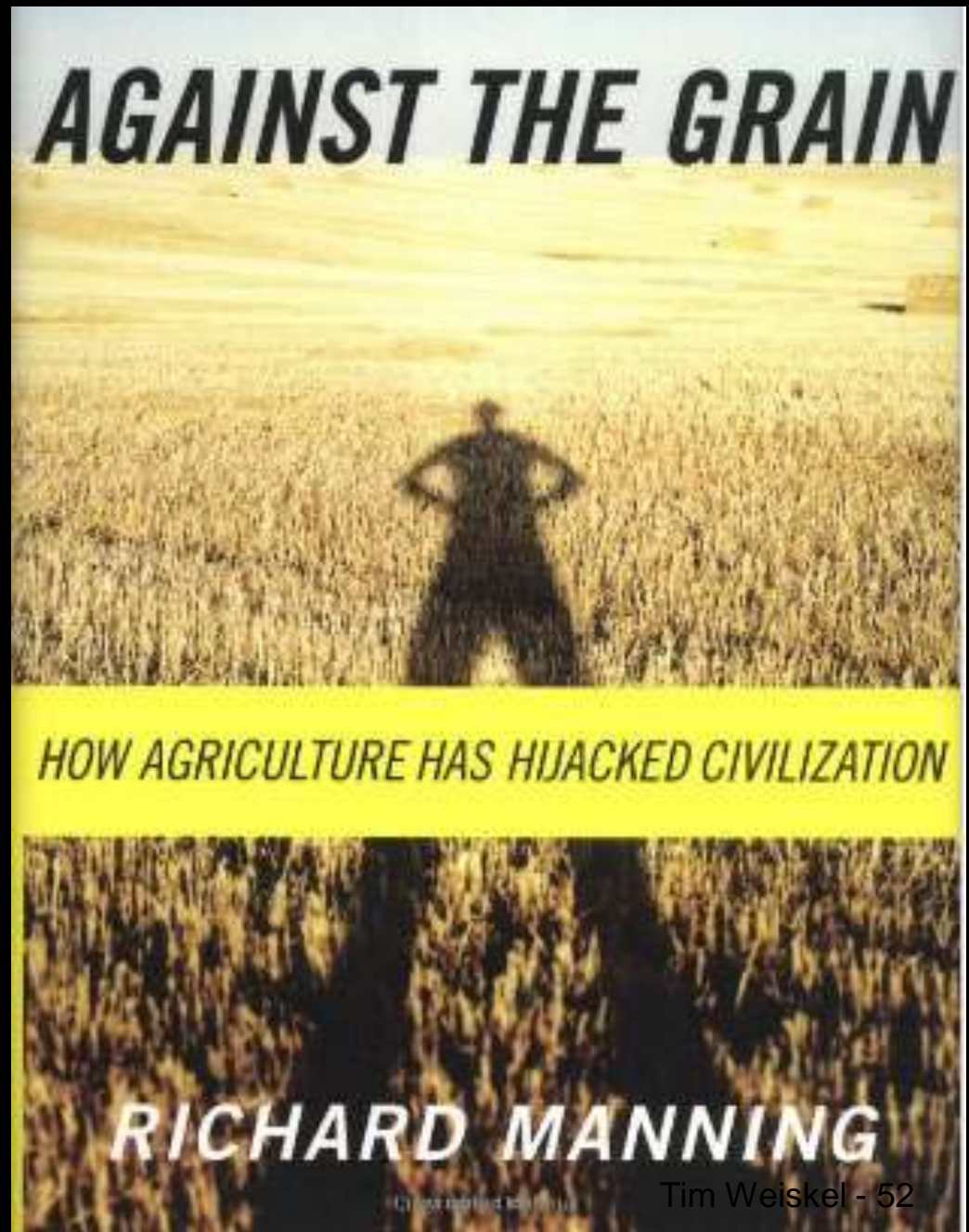
*We need to remember some basic features of our global circumstance as a contemporary human civilization.*

**Richard Manning**  
points out the  
obvious fact that  
agriculture has  
hijacked  
civilization....



**Richard Manning**  
points out the  
obvious fact that  
agriculture has  
hijacked  
civilization....

**The most serious  
aspect of this  
circumstance is  
that the fossil fuel  
industries have  
totally “hijacked”  
agriculture.**



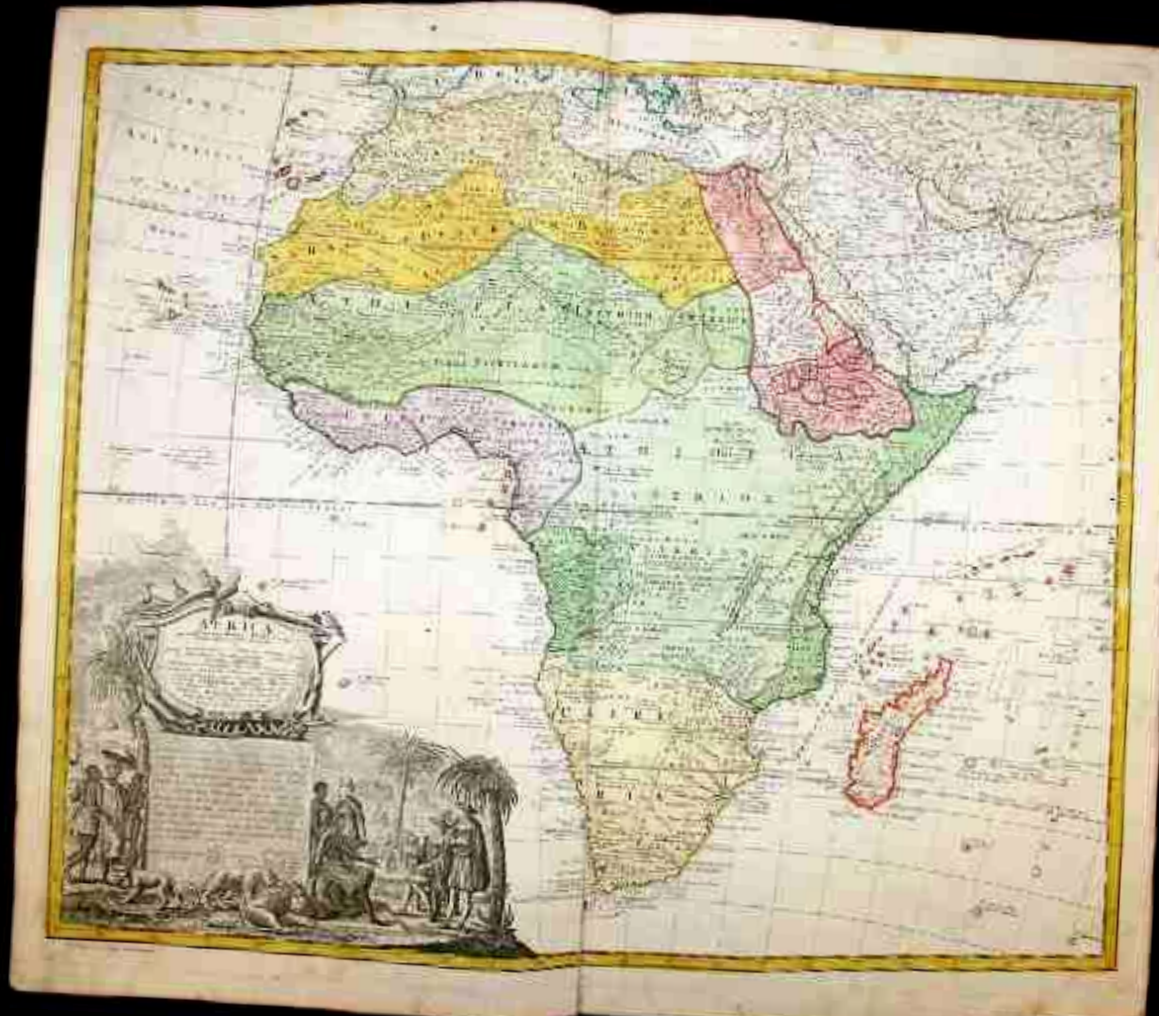


# Remember Richard Manning?



<https://environmentaljusticetv.wordpress.com/2017/05/26/richard-manning-from-what-a-way-to-go-life-at-the-end-of-empire-2/>

While the “petro-intensive” agriculture of the  
“developed” world is facing a crisis, what is  
happening in places like Africa?  
A new kind of “imperial land grab”



Briefly, there are very troublesome signs in Africa's recent evolution.



<https://environmentaljusticetv.wordpress.com/2014/08/04/land-grab-for-food-security-18-nov-09-2/>



Briefly, there are very troublesome signs in its recent evolution.



<https://environmentaljusticetv.wordpress.com/2012/12/11/ethiopias-land-rush-feeding-the-world-john-vidal/>

Drought & floods will ruin this large-scale monocrop agriculture, leaving Africa with impoverished topsoils that have been “mined” for profits that have been exported outside the continent....



Drought & floods will ruin this large-scale mono-crop agriculture, leaving Africa with impoverished topsoils that have been “mined” for profits that have been exported outside the continent....

The whole process will generate countless migrants, refugees and “militants” – that is, anyone who objects to or resists these “land-grabs.”

But the power of the  
*“fossil-fuel industrial complex”*  
is immense...and it is currently driving  
international agriculture and food policy

### World According to Monsanto

Posted on September 11, 2012 | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2012/09/11/world-according-to-monsanto/>

# Climate Change

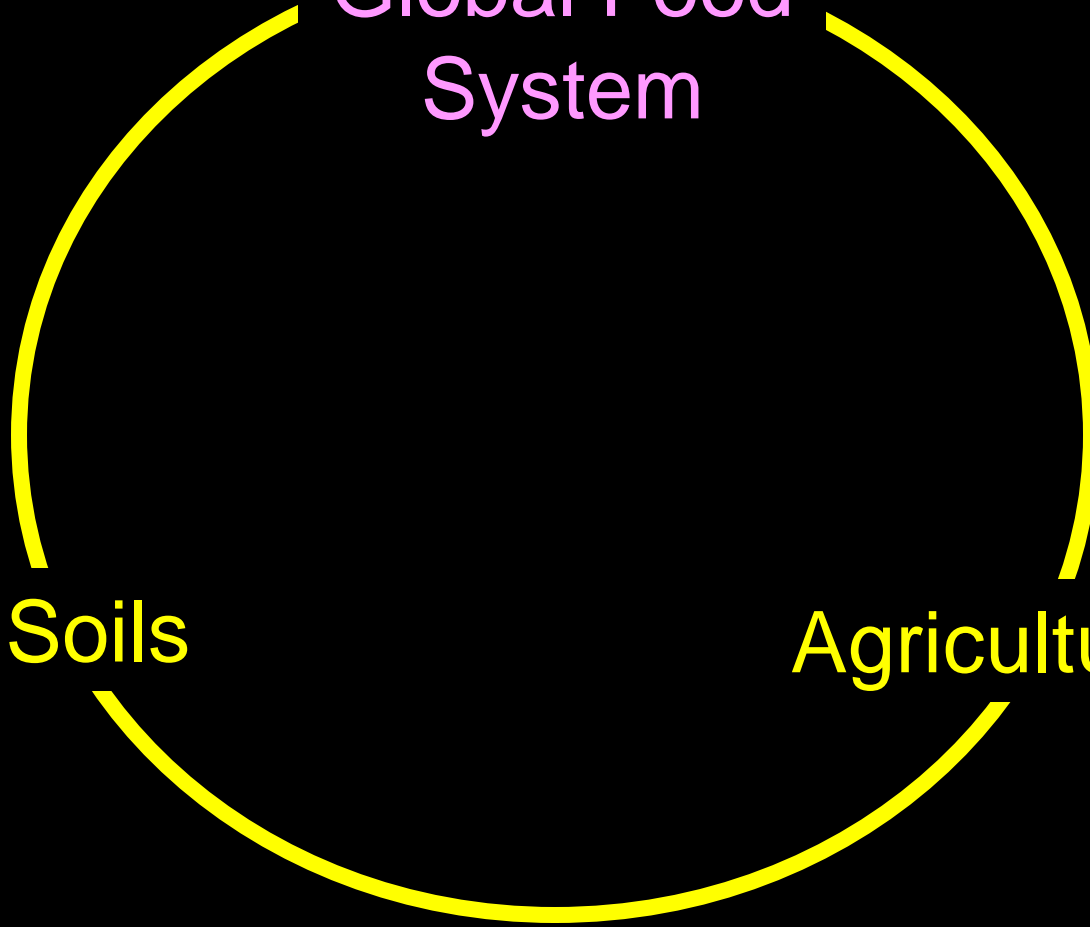
*Customary policy perspective – anthropocentric, unsustainable*

Focus on the global food system as a “profitable sector” is dangerous. It can lead to over exploitation of the soils and non-sustainable agricultural practices in pursuit of immediate profits.

Global Food System

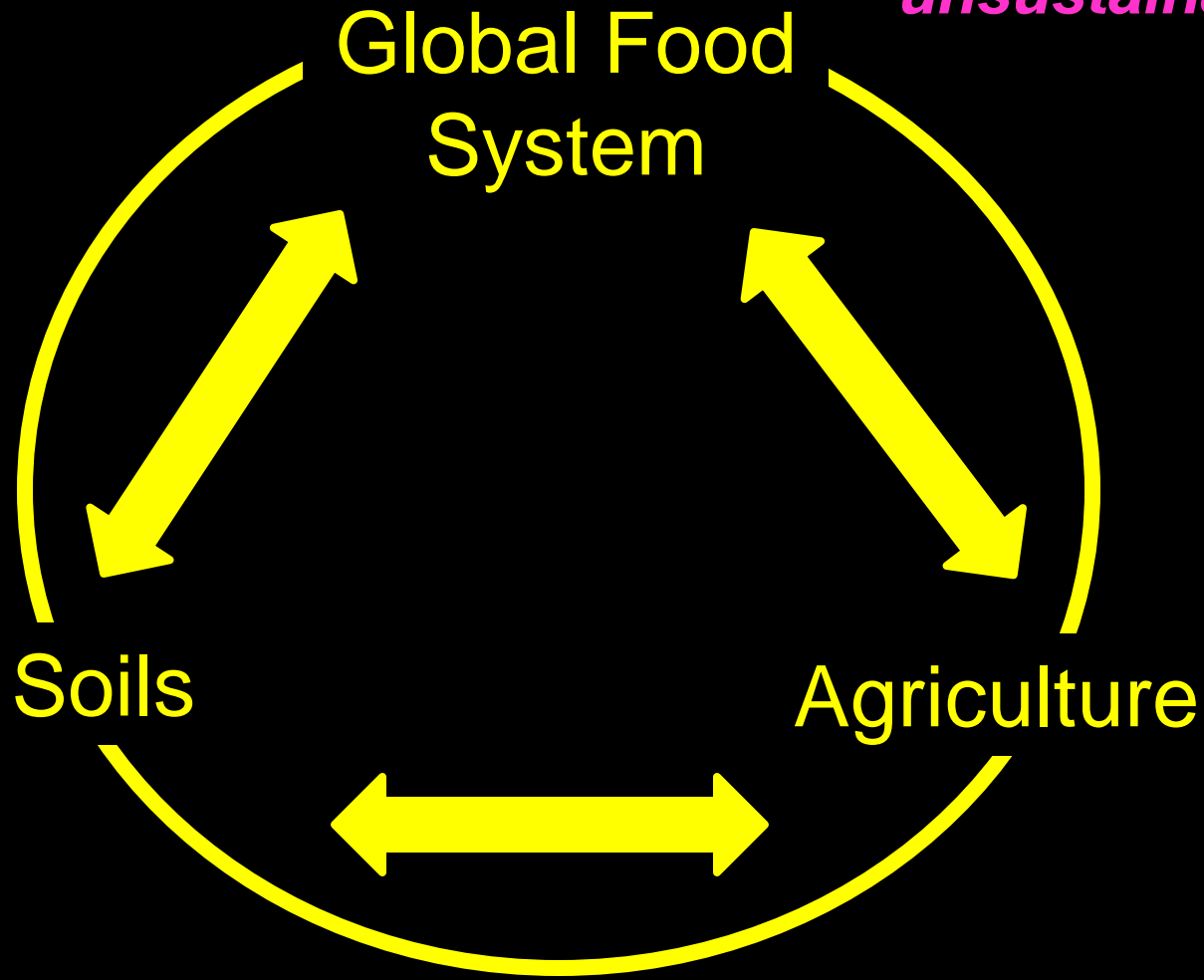
Soils

Agriculture



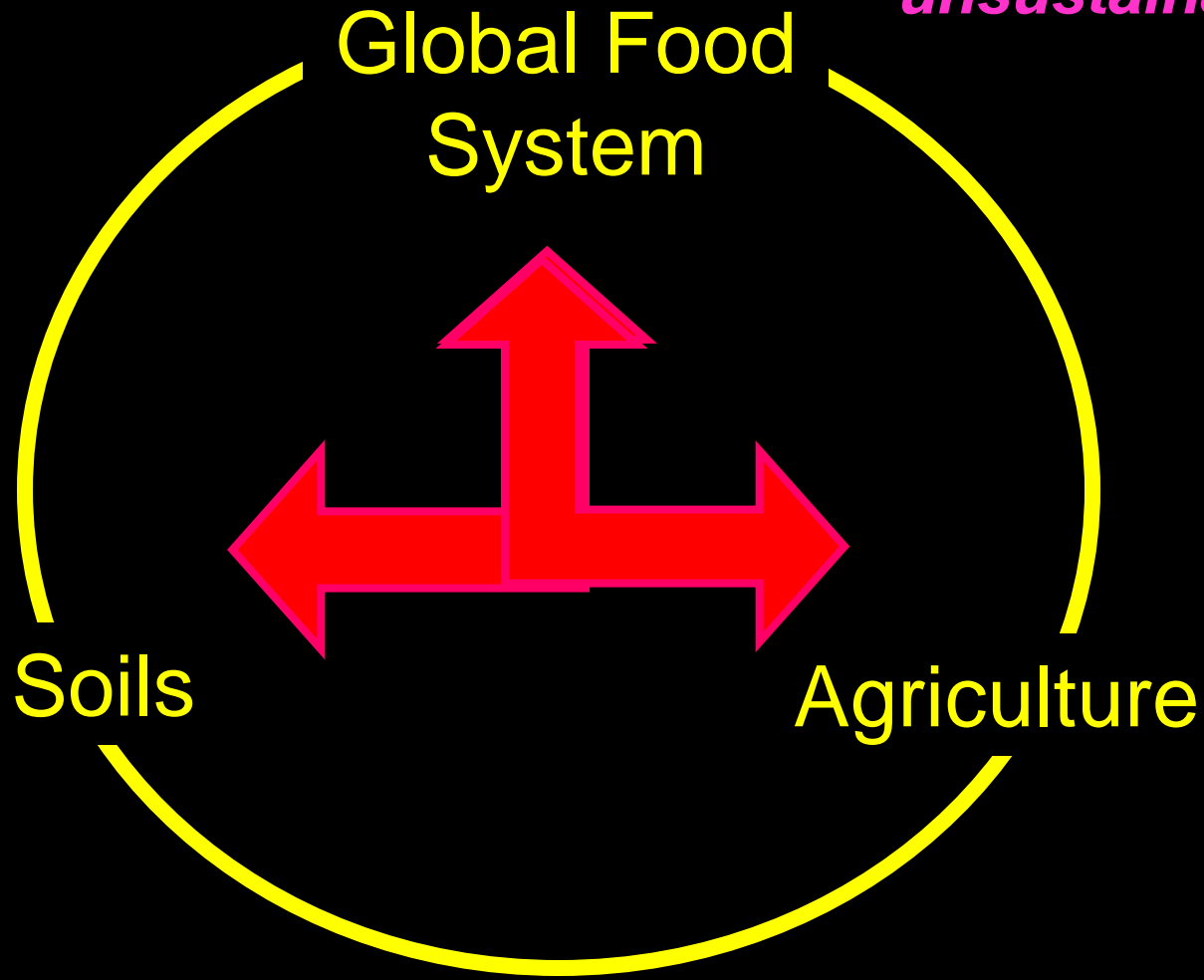
# Climate Change

*Customary policy perspective – anthropocentric, unsustainable*



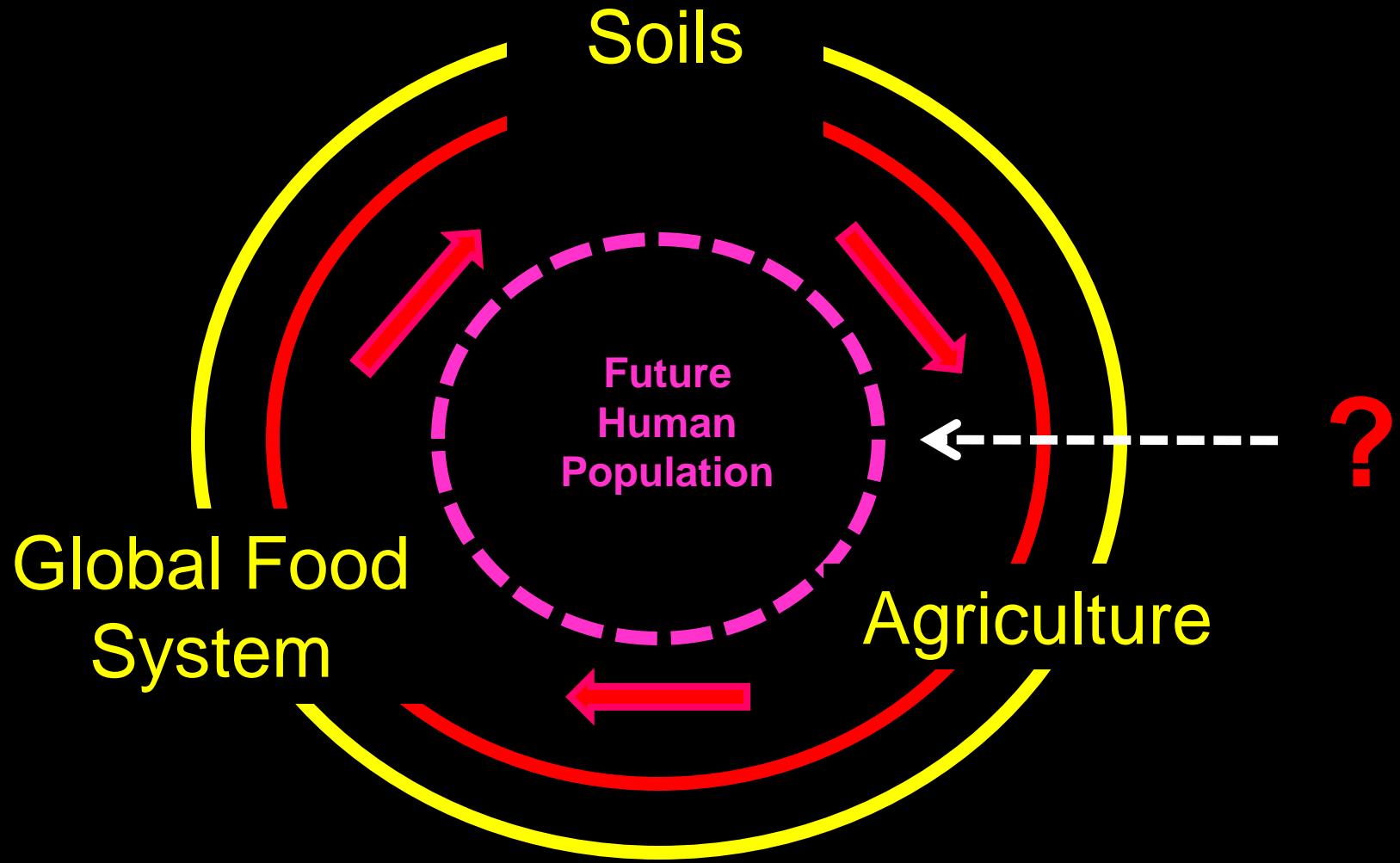
# Climate Change

*Customary policy perspective – anthropocentric, unsustainable*





# Climate Change



There are alternatives to this  
corporate-driven, fossil-fuel  
dependent agriculture

Unfortunately, the urgency of extreme weather  
catastrophes and climate-driven failures  
makes these alternative hard to see and act  
upon.

# There are alternatives to this corporate-driven, fossil-fuel dependent agriculture

Unfortunately, the urgency of extreme weather catastrophes and climate-driven failures makes these alternative hard to see and act upon.

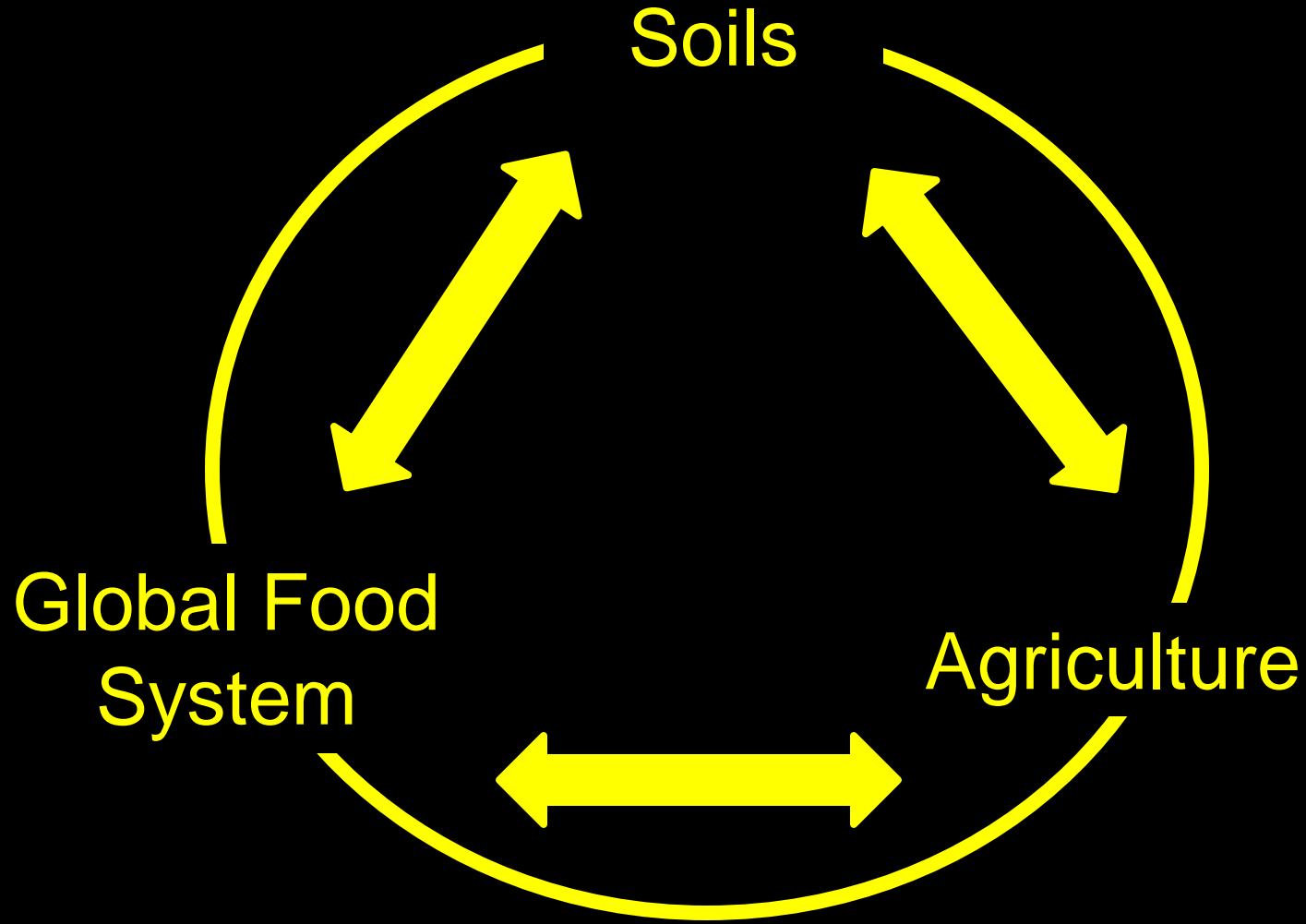
We need to develop the insight and courage to explore and develop “restorative” and “regenerative” agriculture around the globe.

Fortunately,  
there are challengers of the  
fossil-fuel industrial complex in agriculture.



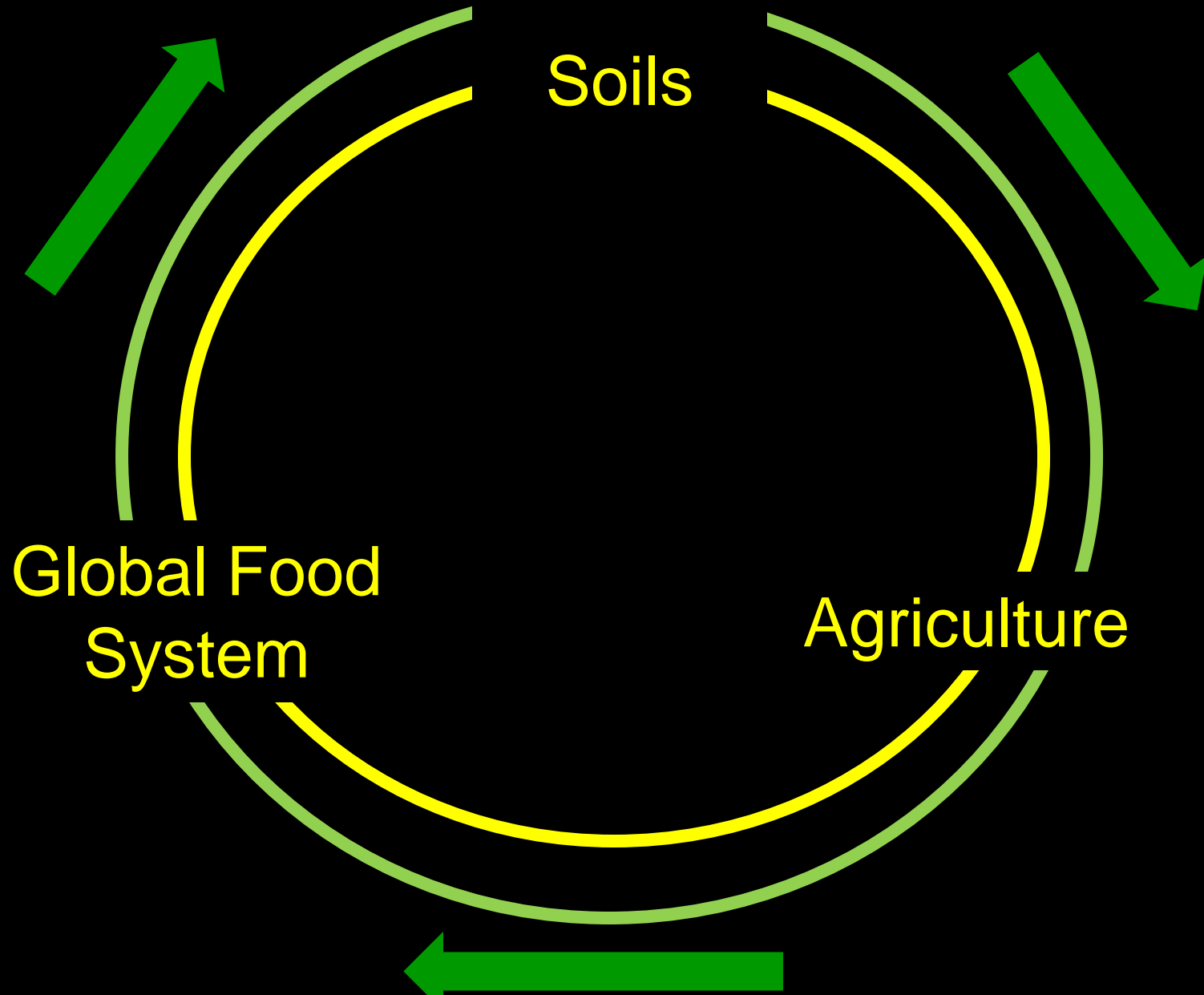
<https://environmentaljusticetv.wordpress.com/2012/11/17/food-mythbusters-do-we-really-need-industrial-agriculture-to-feed-the-world-2/>

# Climate Change

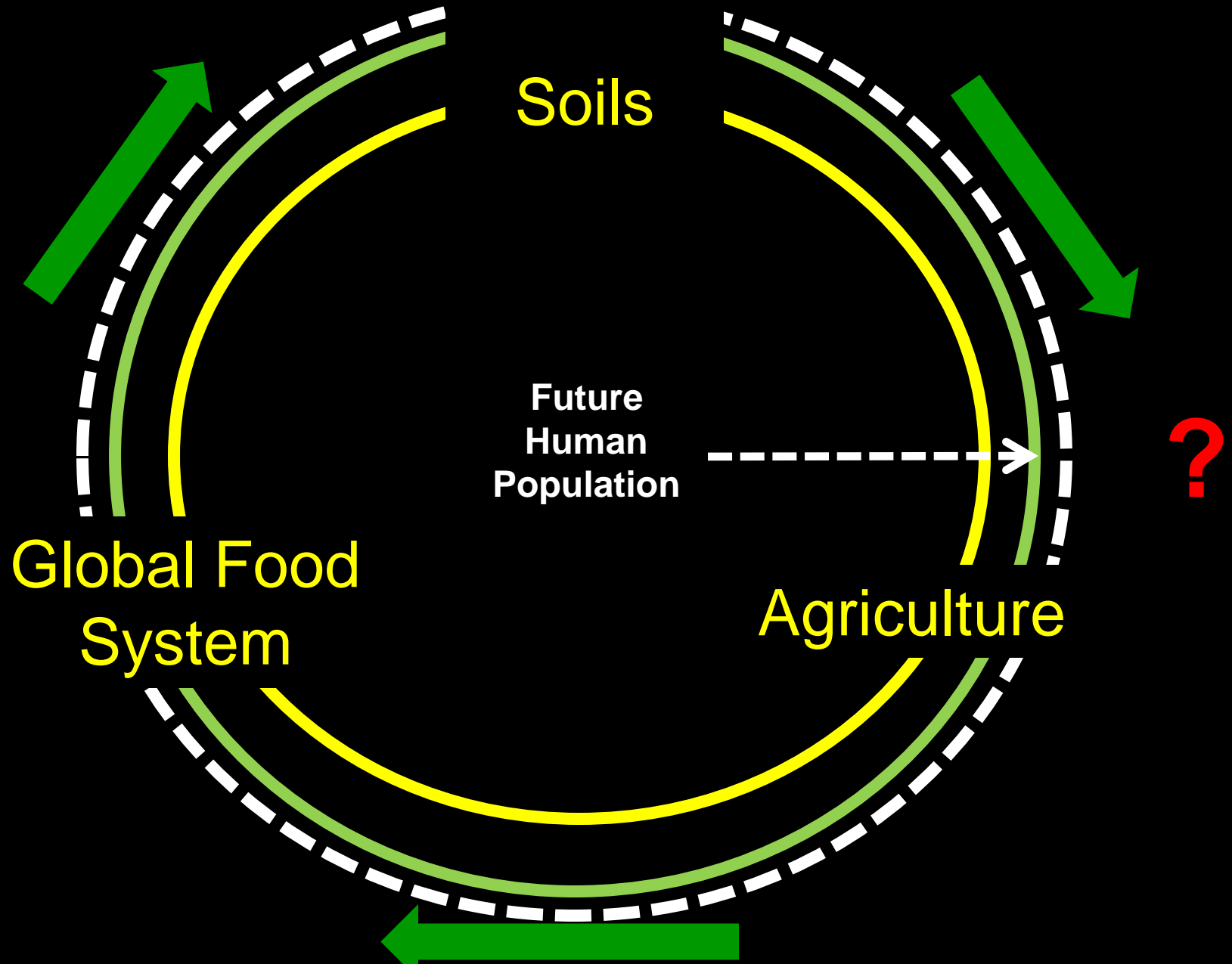




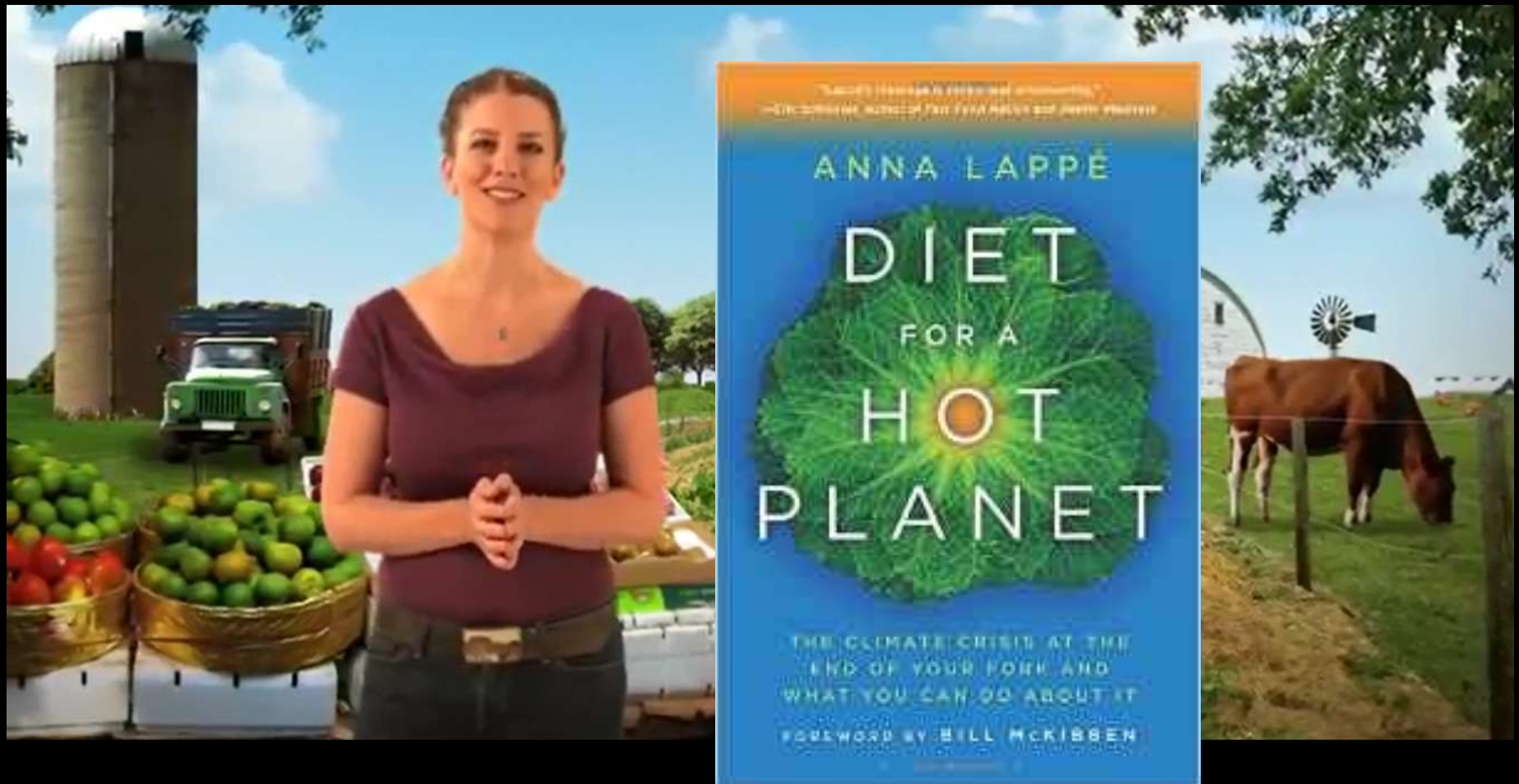
# Climate Change



# Climate Change



Anna Lappé has taken this message globally, addressing the food crisis on the horizon from climate change.





<https://environmentaljusticetv.wordpress.com/2012/11/17/food-mythbusters-do-we-really-need-industrial-agriculture-to-feed-the-world-2/>



Soils grow food.... Humankind must  
now learn to *grow soil* with sustainable  
permaculture practices



<https://environmentaljusticetv.wordpress.com/2012/11/17/food-mythbusters-do-we-really-need-industrial-agriculture-to-feed-the-world-2/>



Soils hold massive amounts of carbon. They can sequester atmospheric carbon OR release their stored carbon, depending on how we treat them.

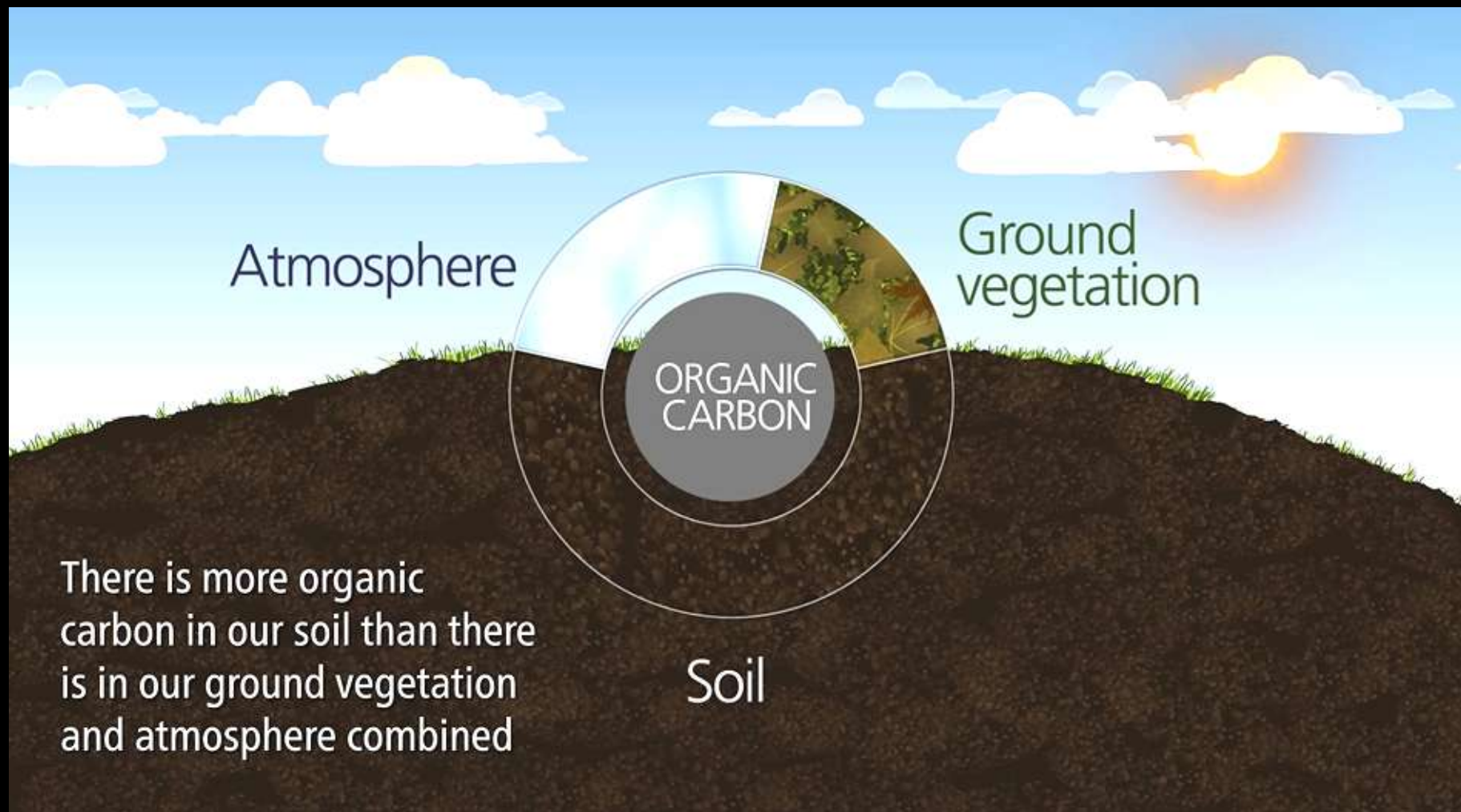
2 400 BILLION  
TONS OF CARBON



9 BILLION TONS  
OF CARBON



<https://environmentaljusticetv.wordpress.com/2017/05/13/soils-climate/>



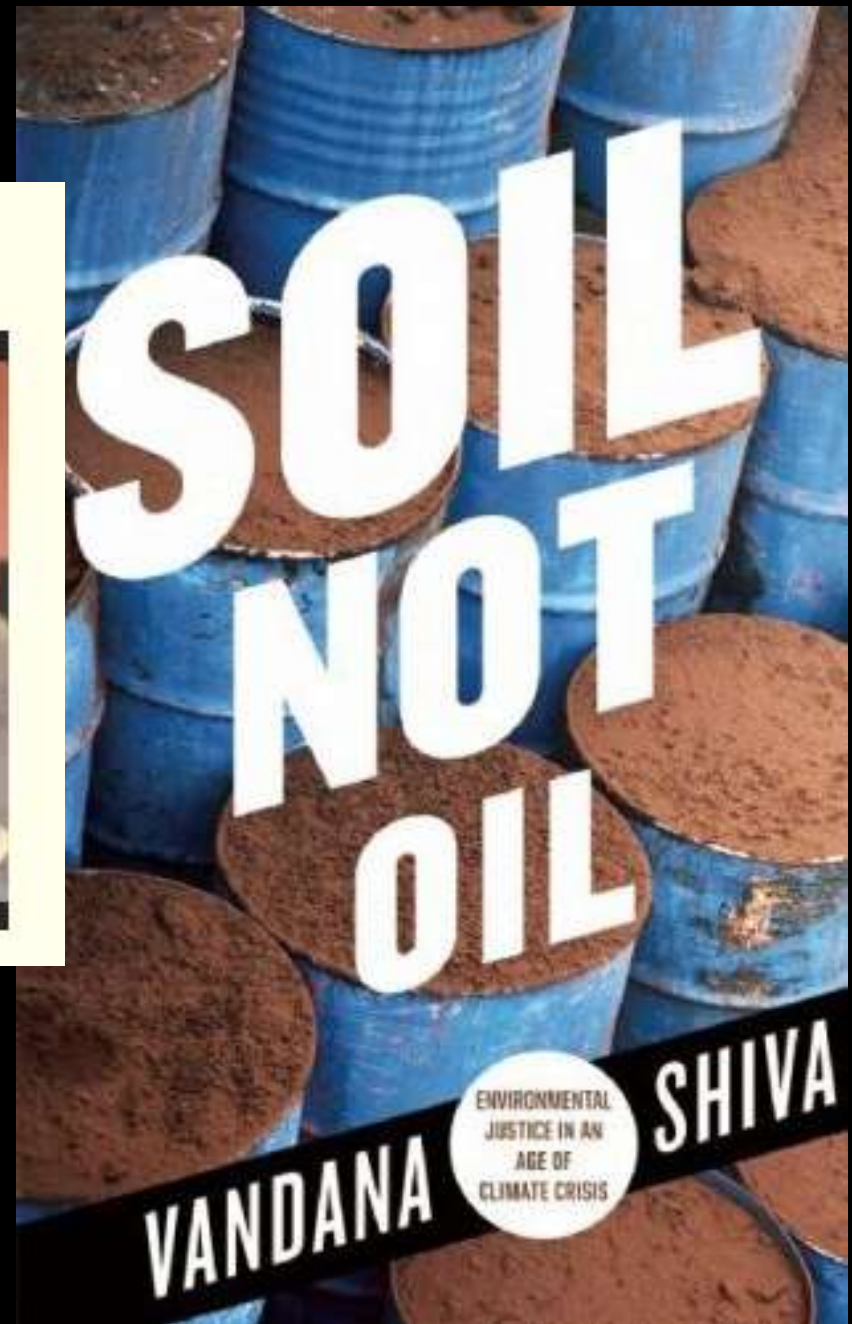
<https://environmentaljusticetv.wordpress.com/2015/07/01/soils-our-ally-against-climate-change/>

## It's in the Soil

Posted on February 20, 2013 | [Leave a comment](#) | [Edit](#)



**Vandana Shiva**  
**Dehradun**  
Environmentalism and Author



<https://environmentaljusticetv.wordpress.com/2013/02/20/its-in-the-soil-3/>



# Soil *NOT* Oil

International Environmental Conference

August 5th – 6th, 2016 Richmond, California

Soil Not Oil Conference ~ Dr. Vandana Shiva Key...





International Environmental Conference

August 5th – 6th, 2016 Richmond, California

<https://environmentaljusticetv.wordpress.com/2016/11/16/soil-not-oil-conference-dr-vandana-shiva-keynote-speaker-2/>



Our soils are a global treasure!  
That took millions of years to create

## Symphony of the Soil – UN International Year of the Soils

Posted on December 9, 2015 at 11:58 AM

### Symphony of the Soil - UN International Year of the Soils

from Lily Films



*Symphony of*  
*the Soil*



1:44:40



HD



<https://vimeo.com/112879294>

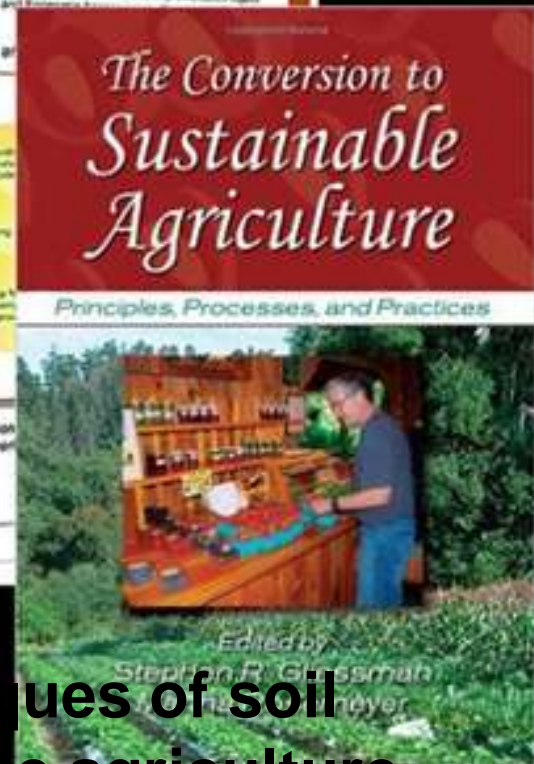
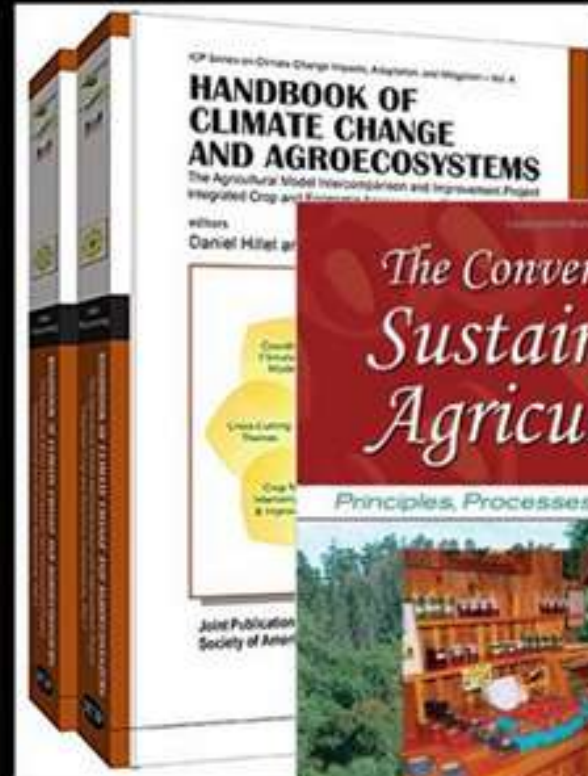
<https://environmentaljusticetv.wordpress.com/2015/07/07/symphony-of-the-soil/>

# Restorative Development:

## Sustainable Agriculture and the Climate Crisis



Professor William Moomaw



ues of soil  
e agriculture

# William Moomaw – Climate Advocacy: From Grassroots Activism to International Policy

Posted on [March 16, 2015](#) | [Leave a comment](#) | [Edit](#)



# Climate Change and the Structure of the Global Food System



## The Transition Toward a Sustainable Agriculture

<https://environmentaljusticetv.wordpress.com/2016/10/23/climate-change-and-the-structure-of-the-global-food-system-the-transition-toward-a-sustainable-agriculture-cambridge-community-television-ev-n-227-cctv/>



# Soil Solutions to Climate Problems – Narrated by Michael Pollan

Posted on [December 8, 2015](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2017/04/01/soil-solutions-to-climate-problems-narrated-by-michael-pollan-3/>



# But, what if we change the paradigm?

## #1 What if we change – Hope in a Changing Climate by John D. Liu

Posted on [July 15, 2015](#) | [Leave a comment](#) | [Edit](#)




<https://environmentaljusticetv.wordpress.com/2015/07/15/1-what-if-we-change-hope-in-a-changing-climate-by-john-d-liu/>

# Restoration Writ Large: Unleashing the Potential of Nature and People for Large-Scale Ecosystem Restoration : John Liu

Posted on [November 17, 2014](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2014/11/17/restoration-writ-large-unleashing-the-potential-of-nature-and-people-for-large-scale-ecosystem-restoration-john-liu/>

An aerial photograph of a lush, green landscape featuring terraced tea fields. The fields are arranged in a winding, snake-like pattern across rolling hills. In the background, a dense forest of trees is visible, partially shrouded in a light mist or fog. The overall scene is serene and picturesque, with vibrant green foliage and soft, diffused lighting.

Human beings are a keystone species that  
can steward the regeneration of our planet.  
Join us.



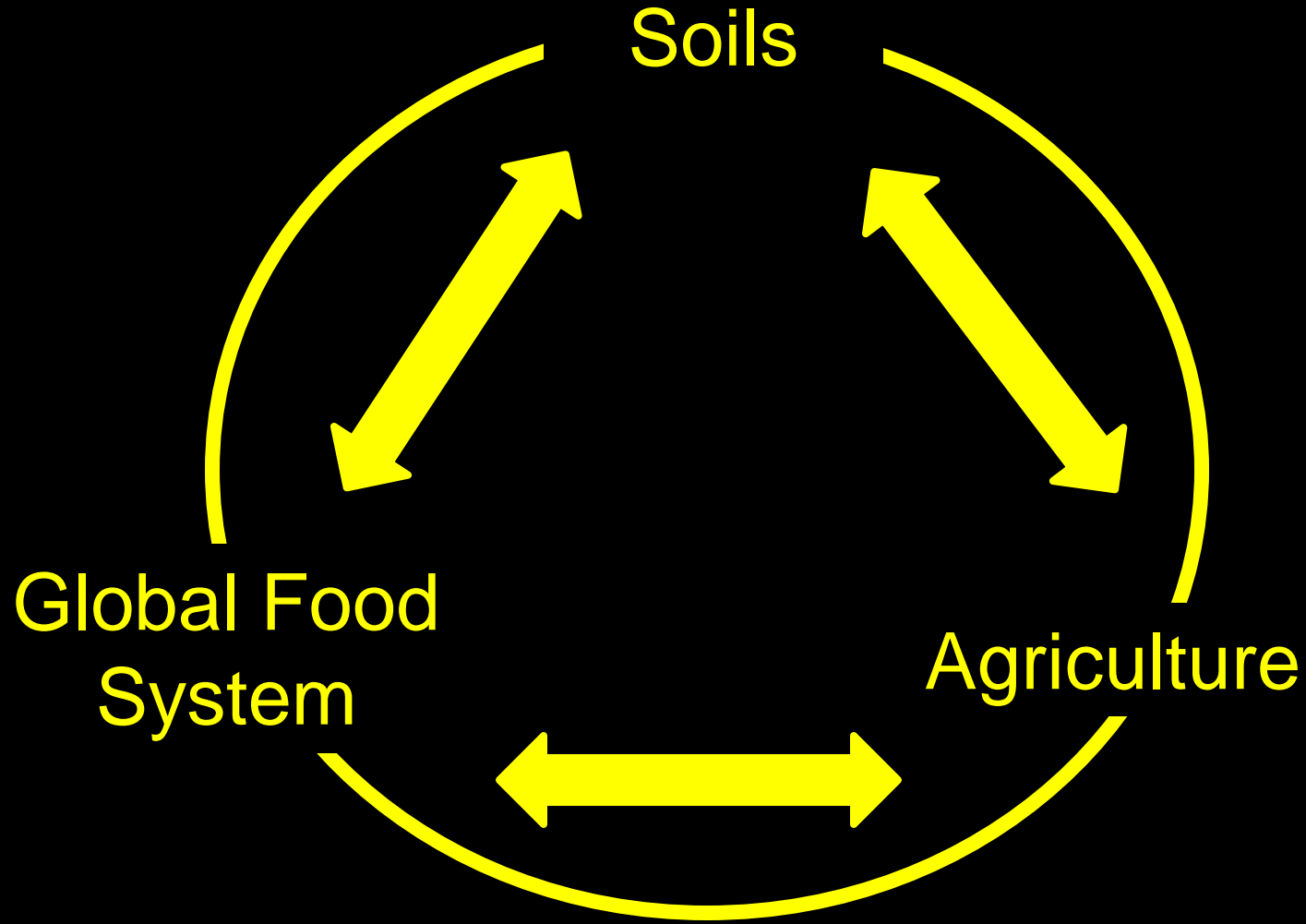


Human beings are a keystone species that  
can steward the regeneration of our planet.  
Join us.

*“We don’t grow plants. We grow soil, and  
soil grows plants.”*

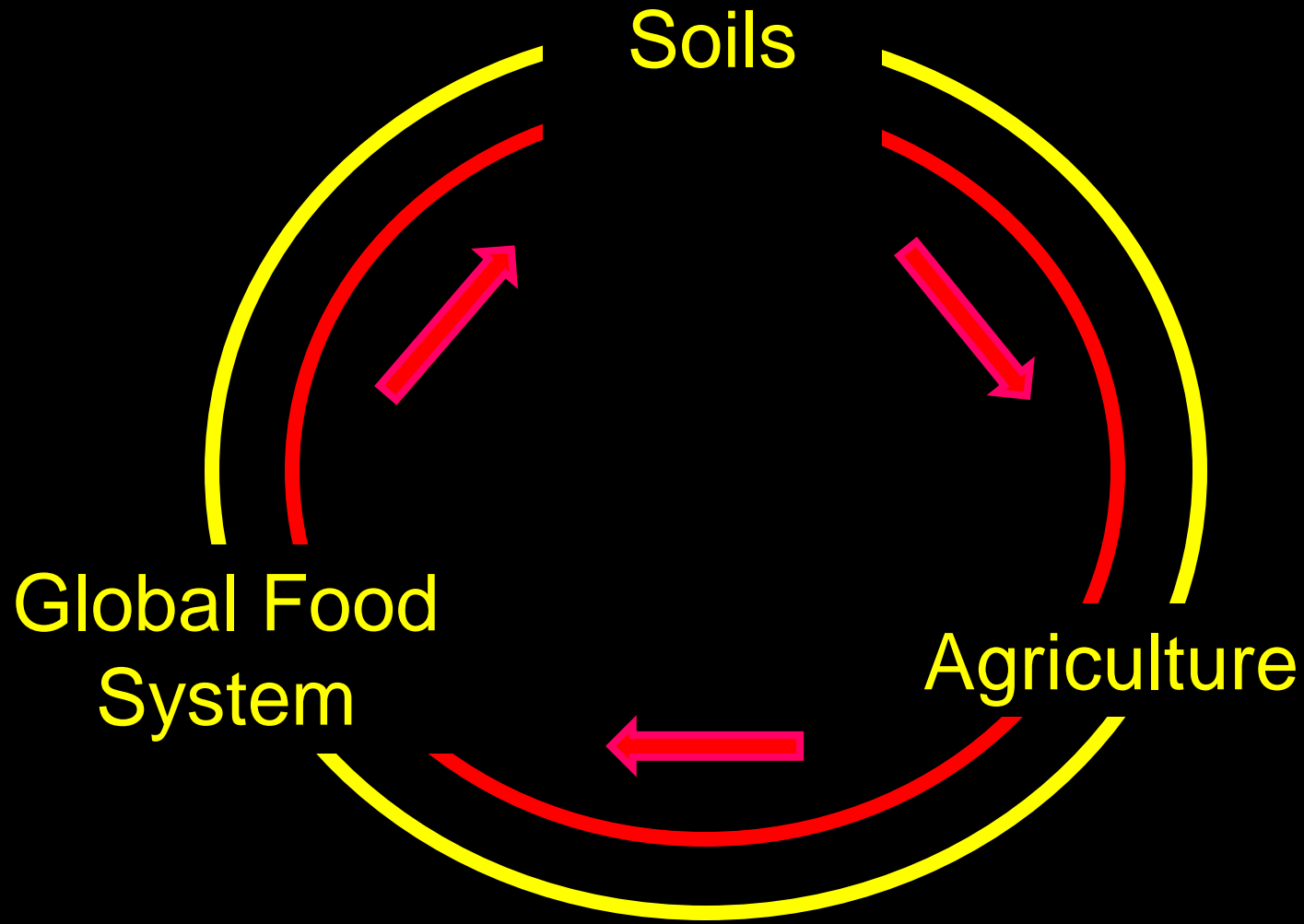
<https://www.youtube.com/watch?v=U4mBwbpDWOI>

# Climate Change

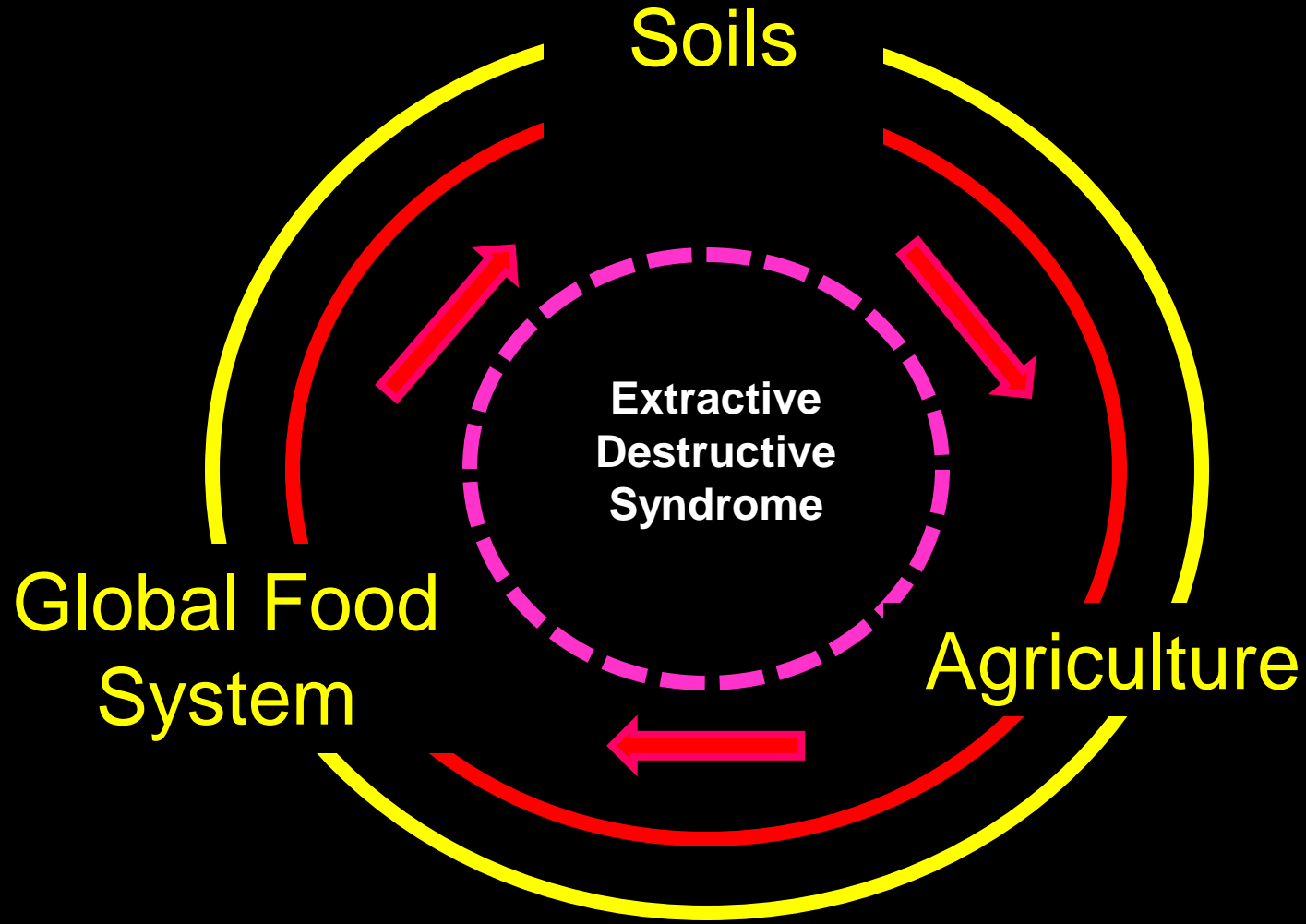




# Climate Change

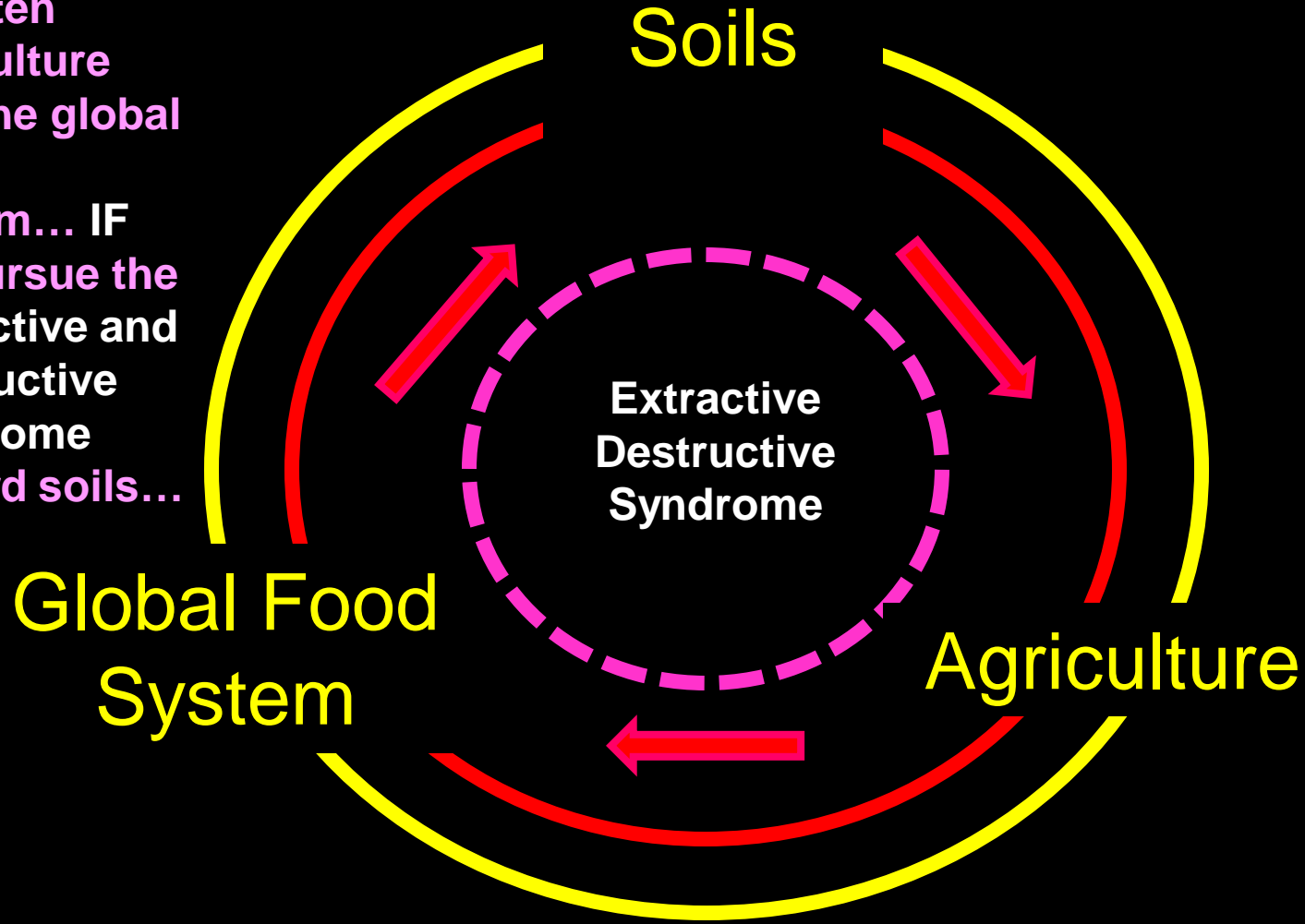


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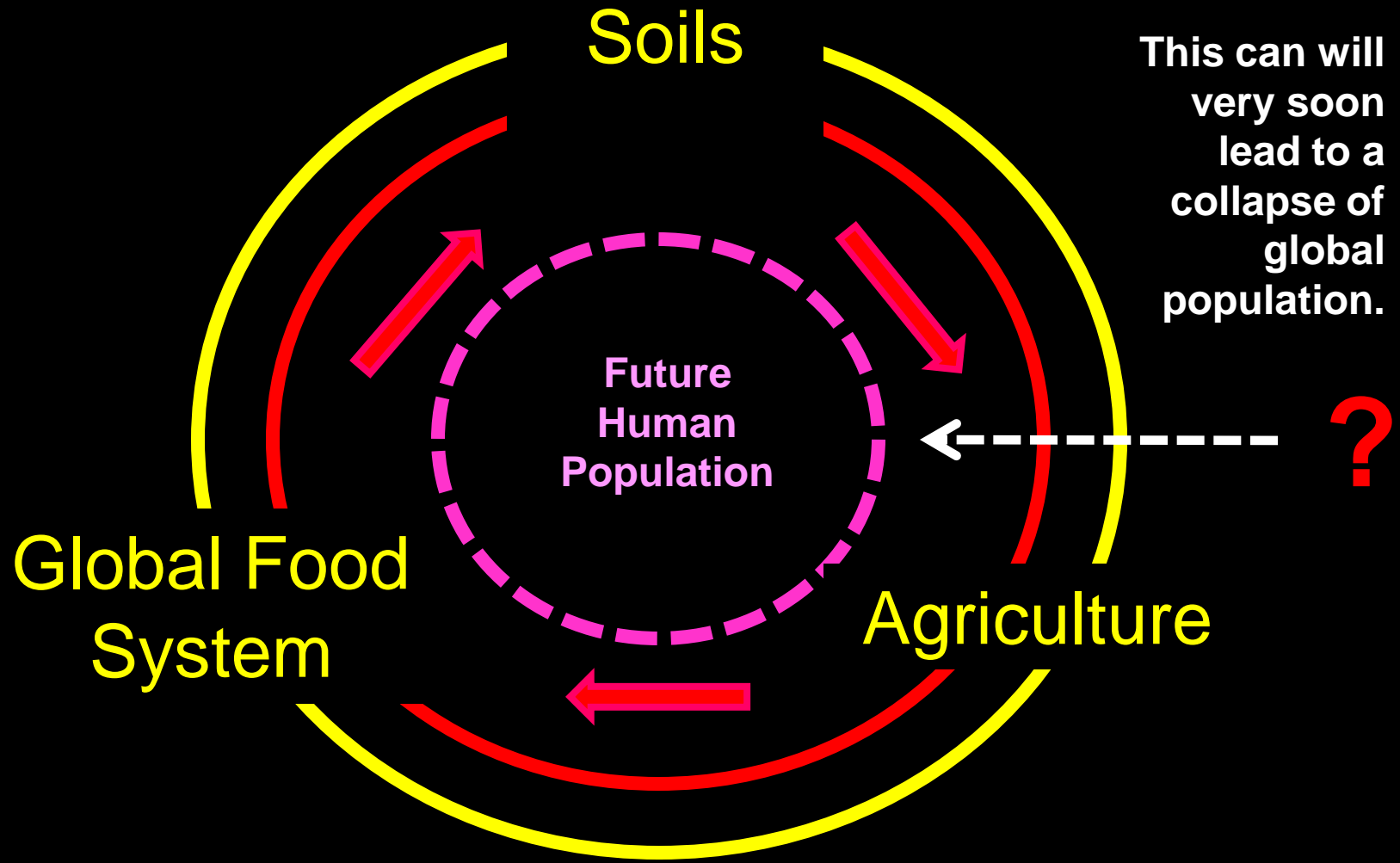


# Climate Change

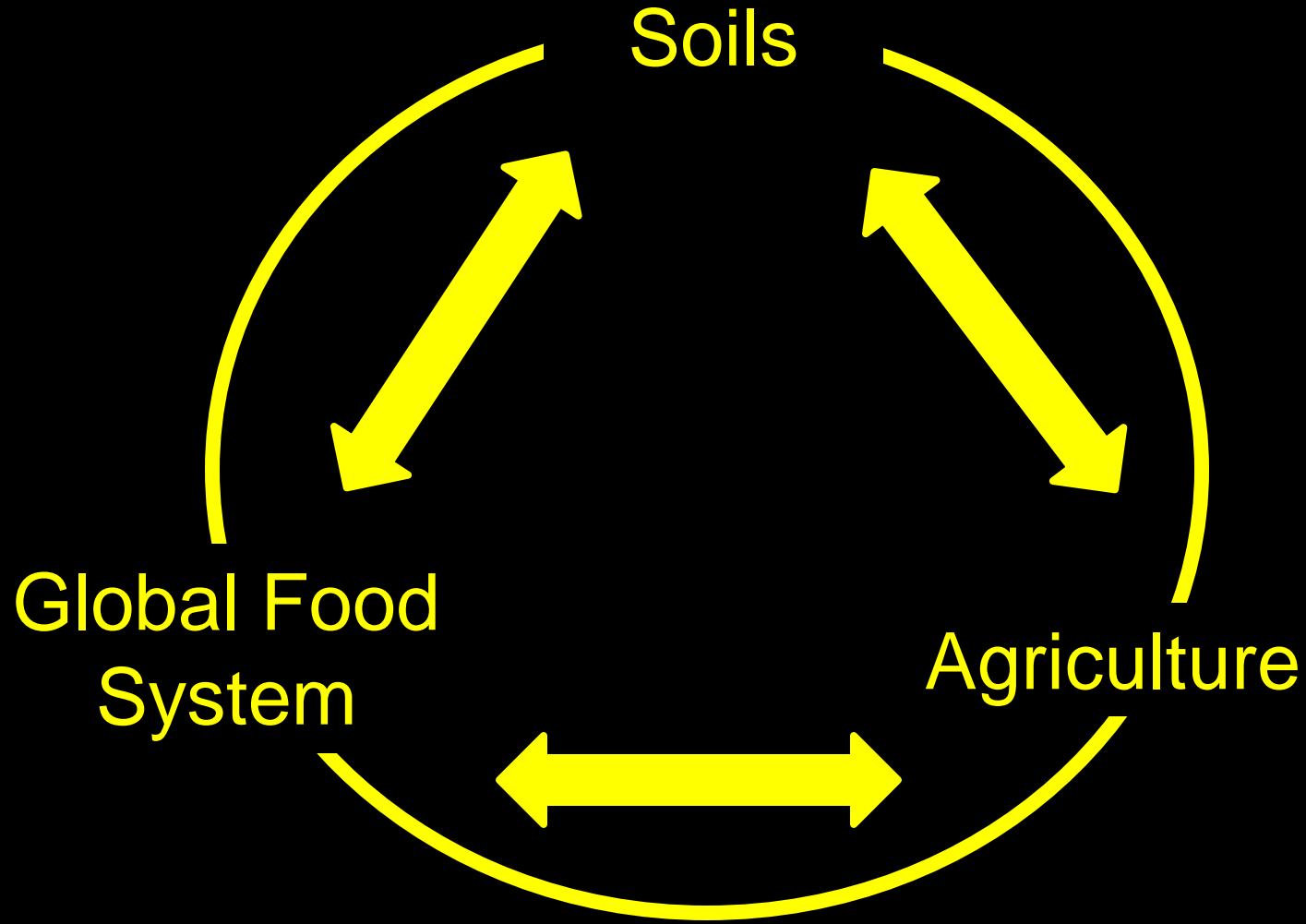
Climate change will threaten agriculture and the global food system... IF we pursue the extractive and destructive syndrome toward soils...



# Climate Change

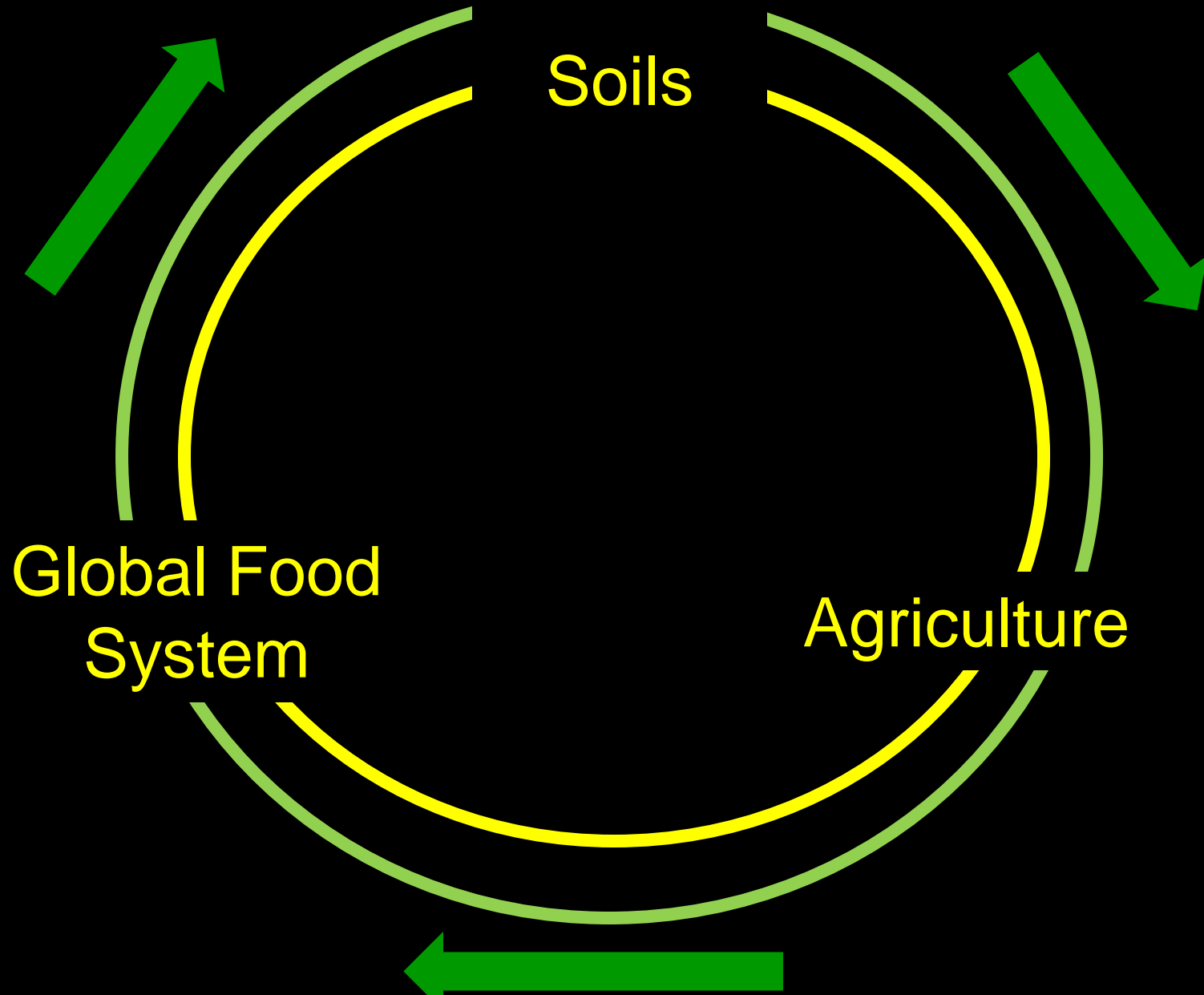


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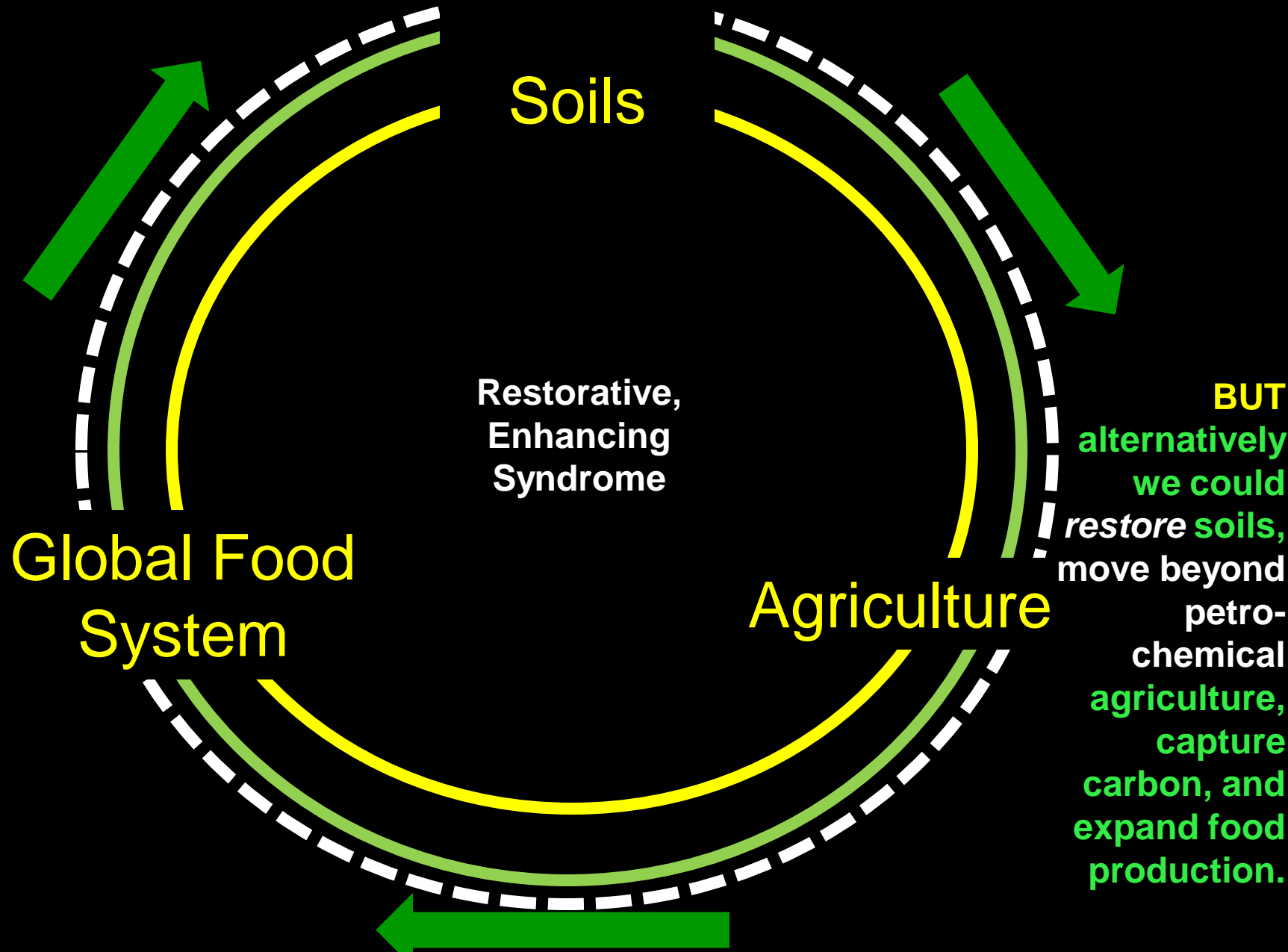




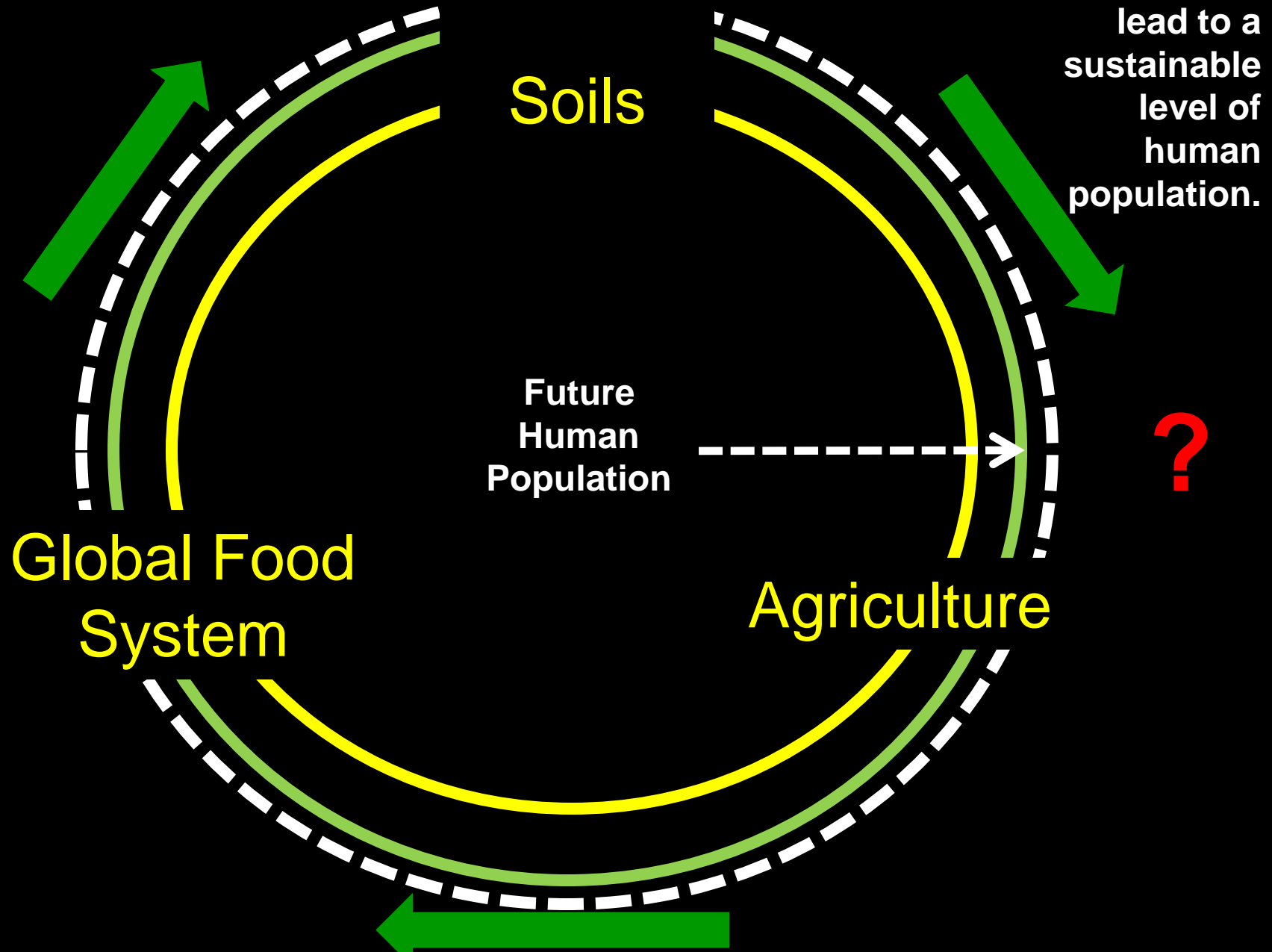
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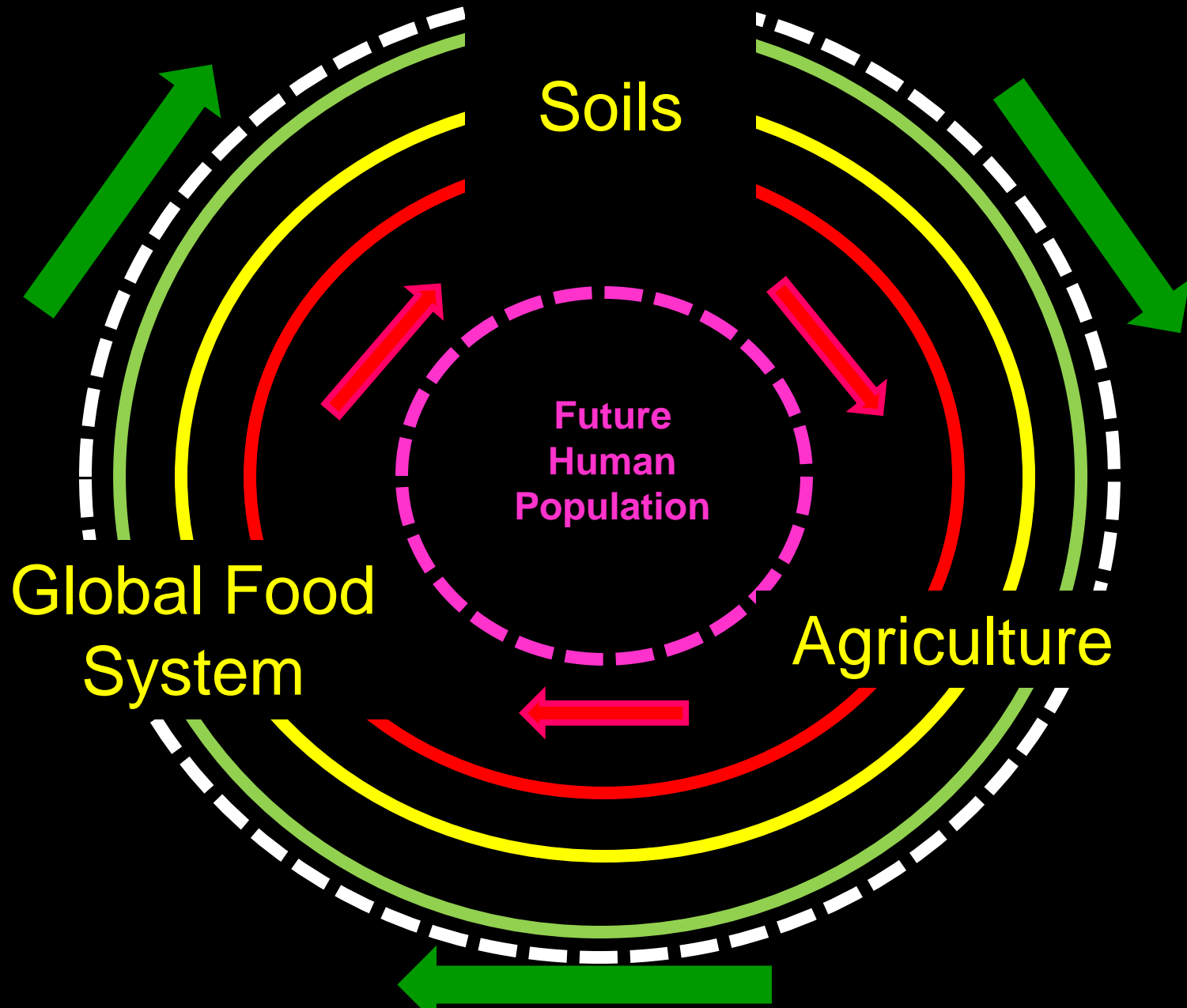
# Climate Change



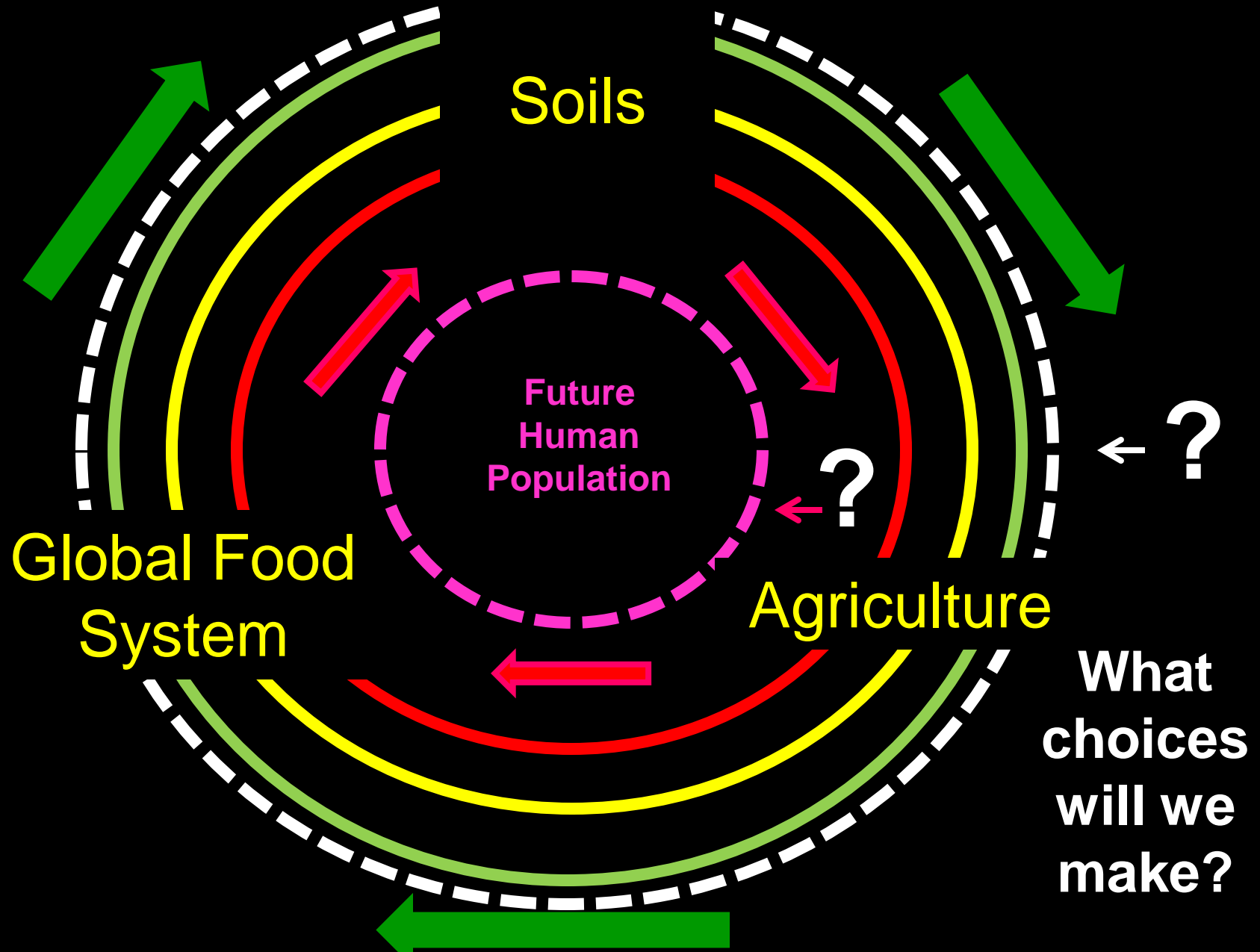
# Climate Change



# Climate Change



# Climate Change





# This may sound good... but is it “sustainable” or suicidal?

## Sustainable Agriculture – According to Monsanto

Posted on [July 31, 2018](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2018/07/31/sustainable-agriculture-according-to-monsanto/>

# Secret Documents Expose Monsanto's War on Cancer Scientists

Posted on [July 22, 2018](#) | [Leave a comment](#) | [Edit](#)

## Secret Documents Expose Monsanto's War on Cancer Scientists



July 17, 2018

U.S. Right to Know

by Stacy Malkan

[All About Organics](#), [Health Issues](#)

DeWayne Johnson, a 46-year-old father dying of non-Hodgkin lymphoma, became the first person to face [Monsanto in trial last week](#) over allegations the company hid evidence about the cancer-causing dangers of its Roundup weedkiller. Johnson is the first of some 4,000 people suing [Monsanto in state and federal courts](#) claiming their cancers were caused by [glyphosate-based Roundup](#). The litigation, and documents coming to light because of it, are shining light on the heavy-handed tactics

**Bloomberg Businessweek**

Monsanto Was Its Own  
Ghostwriter for Some Safety  
Reviews

Markets

**EPA Official Accused of Helping  
Monsanto 'Kill' Cancer Study**

Chairman of UN's joint meeting on pesticide residues co-runs  
scientific institute which received donation from Monsanto,  
which uses glyphosate

**The  
Guardian**

## Secret Documents Expose Monsanto's War on Cancer Scientists

Posted on [July 22, 2018](#) | [Leave a comment](#) | [Edit](#)

## Secret Documents Expose Monsanto's War on Cancer Scientists



July 17, 2018

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[All About Organics](#), [Health Issues](#)

## Monsanto Manipulates Science to Make Roundup Appear Safe

Unsealed court documents demonstrate Monsanto's strategy for twisting the science surrounding Roundup.



# Why 'Monsanto' is no more



People hold signs during a demonstration against agribusiness giant Monsanto in 2015. (Nicklaus Ramsey/AP/Getty Images)

By Caitlin Dewey June 4 [Email this author](#)

# Bayer-Monsanto merger plan protests

Posted on [March 3, 2018](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2018/03/03/bayer-monsanto-merger-plan-protests/>



\$15 Billion  
MONSANTO



<https://environmentaljusticetv.wordpress.com/2018/08/01/monsanto-the-company-that-owns-the-worlds-food-supply-youtube/>

This may sound good... but is it  
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## Sustainable Agriculture – According to Monsanto

Posted on July 31, 2018 | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2018/07/31/sustainable-agriculture-according-to-monsanto/>

In a time of climate change, the concentrated ownership of the world's agricultural resources in the hands of a small number of large corporations is ecologically and economically dangerous.

**Monsanto and Bayer merge, drop the Monsanto name – Business Insider**

Posted on [August 7, 2018](#) | [Leave a comment](#)

**After a \$66 billion merger, Monsanto is disappearing — sort of**



Jim Young/Reuters

WORLD NEWS AUGUST 2, 2018 / 7:25 AM / UPDATED 11 HOURS AGO

# Sanctions-hit North Korea warns of natural disaster brought by heat wave

Hyonhee Shin

5 MIN READ



SEOUL (Reuters) - North Korea on Thursday called for an “all-out battle” against record temperatures that threaten crops in a country already grappling with tough international sanctions over its nuclear weapons program.



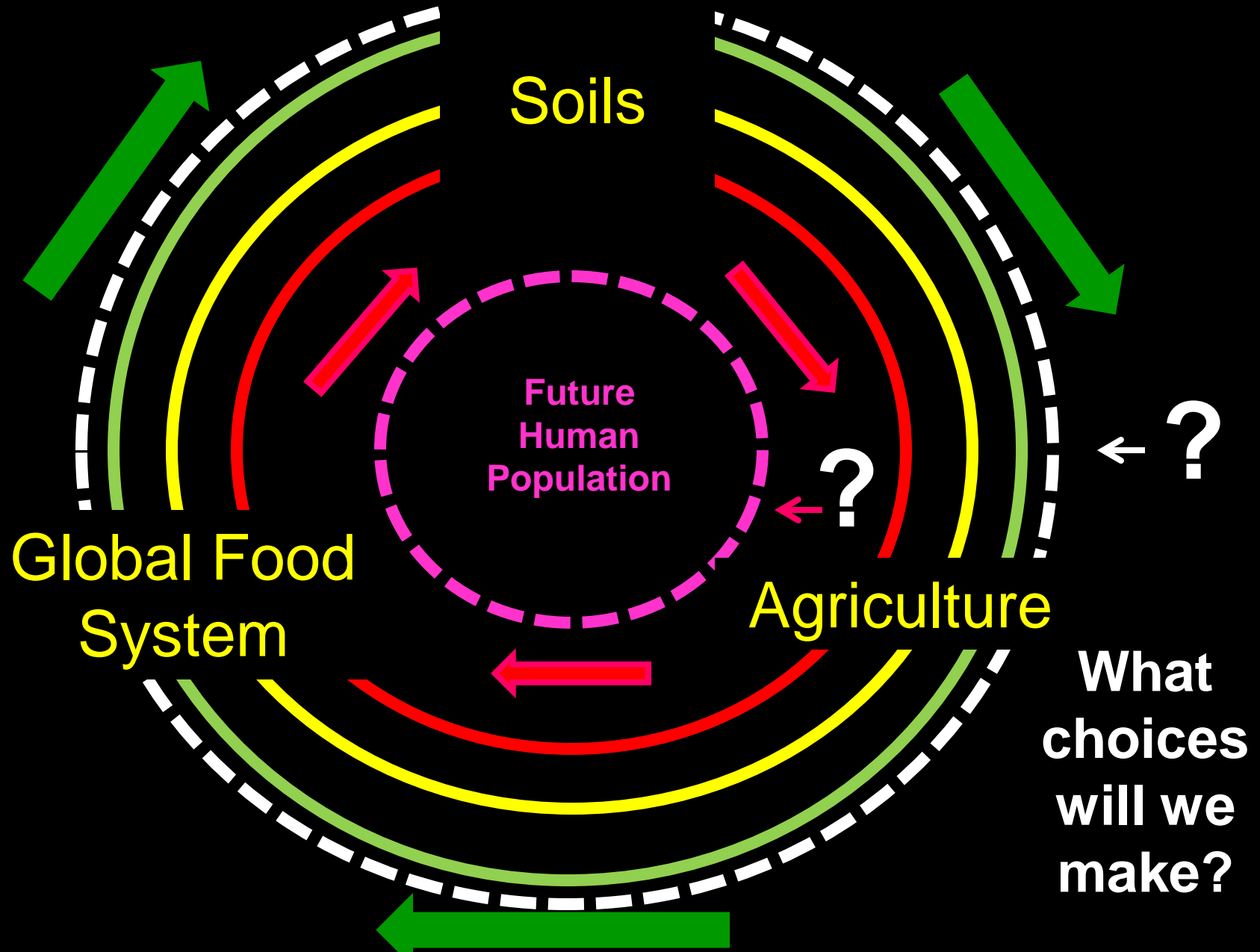
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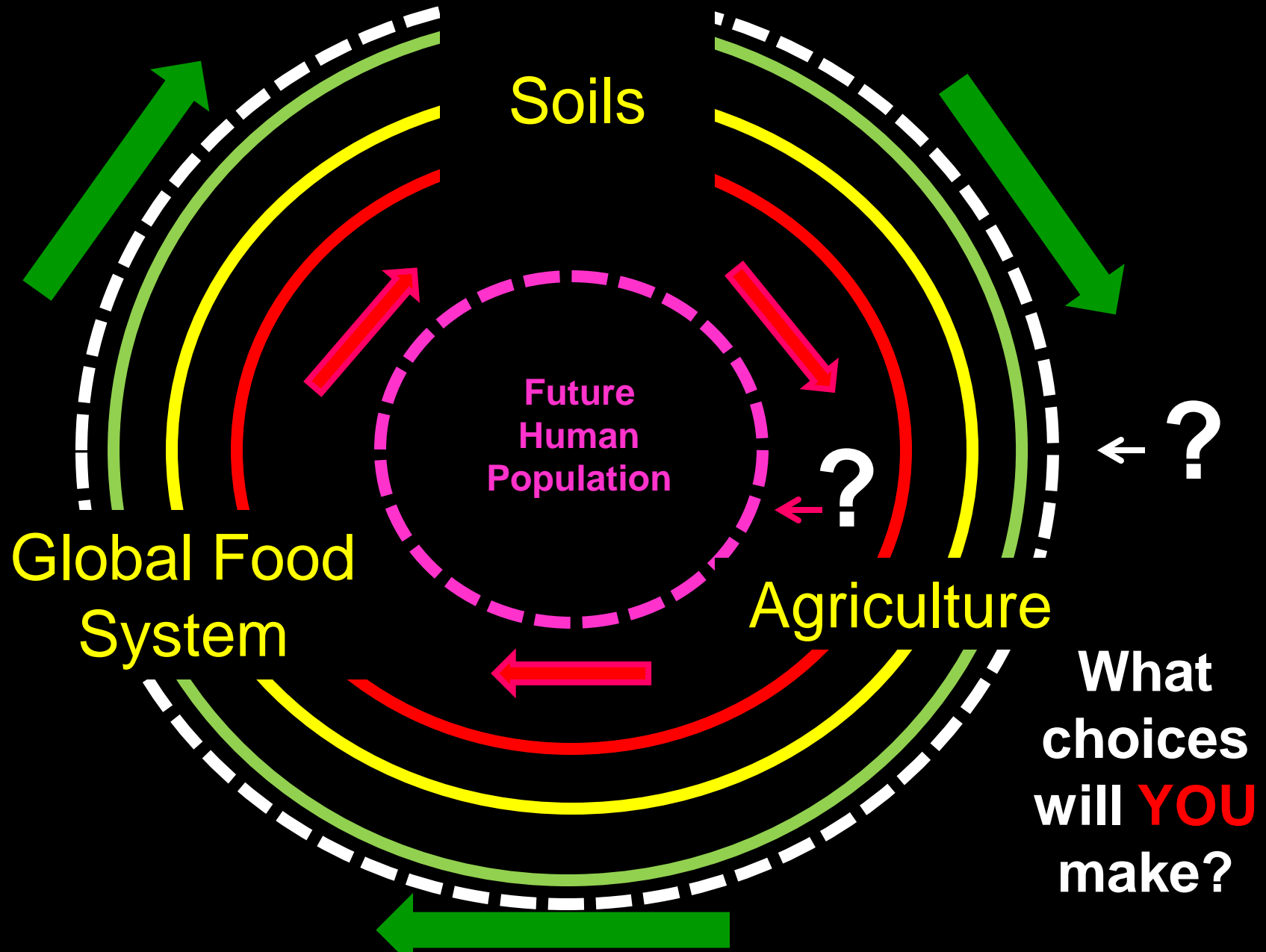




# Climate Change



# Climate Change



The problem that the **crisis of global agriculture** underscores is that:

Our changing *climate* is **a global crisis...**

The problem that the **crisis of global agriculture** underscores is that:

Our changing climate is **a global crisis...**

This requires **a global response**

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But what we have is



The problem that the **crisis of global agriculture** underscores is that:

Our changing climate is **a global crisis...**

This requires **a global response**

But what we have is

**international responses....**

Global problem

VS

International responses

Global problem

vs

International responses

In fact, we have

Inter-national responses

(ie. nation vs. nation)

Global problem

vs

International responses

In fact, we have

Inter-national responses

(ie. nation vs. nation)

AND, in fact, – *corporations* vs. the nations

The Intergovernmental Panel on Climate Change (IPCC) – Science-based

**was set up to clarify the nature of the  
global problem**

(WMO + UNEP)

Global problem

vs

Inter-national responses



The Intergovernmental Panel on Climate Change (IPCC) – Science-based

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Global problem

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...but what will organize the *inter-national* response that is needed?

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Global problem

vs

?

Inter-national responses

?

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The Intergovernmental Panel on Climate Change (IPCC) – Science-based

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(WMO + UNEP)

Global problem

VS

? Inter-national responses ?

...but what will organize the *inter-national* response that is now needed?

# What is the “international” response? - Diplomacy

A “Protocol” – the “Kyoto Protocol” – not a  
“treaty” but

“a preliminary memorandum often formulated  
and signed by diplomatic negotiators as a  
basis for a final convention or treaty.”

## The **Kyoto Protocol** ....

.....is an international treaty which extends the 1992 **United Nations Framework Convention on Climate Change (UNFCCC)** that commits State Parties to reduce greenhouse gas emissions, based on the scientific consensus that (a) global warming is occurring and (b) it is extremely likely that human-made CO<sub>2</sub> emissions have predominantly caused it. The Kyoto Protocol was adopted in Kyoto, Japan, on December 11, 1997 and entered into force on February 16, 2005.



**“Parties” and “Members”  
(ie. signers of the Protocol)  
meet annually in a  
“Conference of Parties”  
(COP)**

These take place in different venues around the world and are usually marked by the deliberations and public discussion of new approaches to limiting GHGs.

# Key COP meetings have been:

Those held in:

**Bali, Indonesia** (COP 13) - 2007

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and

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Durban, South Africa (COP 17) – 2011

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and

Marrakech, Morocco (COP 22) – 2016

**SO let's look at the last 12 years!**

In turn, then: **Bali, COP 13 – 2007**  
... ten years ago...

Bali COP was the first to be held in a “Third World” country – so members from the “global south” were very interested in the agenda which included a lot of their concerns...

It was co-chaired by the Chair of the UNFCCC and the President of the host country.

# UNFCCC Chair – Co-Chair of Bali Meetings in 2007



<https://environmentaljusticetv.wordpress.com/2017/07/26/expectations-for-the-bali-climate-change-conference/>

# China request for apology...



<https://environmentaljusticetv.wordpress.com/2017/07/26/papua-new-guinea-drops-the-bomb-on-bali-for-un-climate-talks/>

m o m e n t o f t h e  
B a l i b r e a k t h r o u g h

1 5 D e c e m b e r 2 0 0 7

<https://environmentaljusticetv.wordpress.com/2017/07/26/moment-of-the-bali-break-through/>



# US refusal ... and then reversal



<https://environmentaljusticetv.wordpress.com/2017/07/26/un-climate-change-conference-bali-2007/>



<https://environmentaljusticetv.wordpress.com/2017/07/26/america-get-out-of-the-way/>

# Then what...?

## Copenhagen, COP15 - 2009



<https://environmentaljusticetv.wordpress.com/2017/05/03/climate-of-denied-opportunity-at-copenhagen-3/>



**Democracy Now – Coverage**  
[Copenhagen Climate Summit 2009](#)



# China gets blunt at Copenhagen summit

Posted on [December 8, 2015](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2015/12/08/china-gets-blunt-at-copenhagen-summit-4/>

# What was China's *actual* position in Copenhagen?



[https://www.democracynow.org/2009/12/21/us\\_led\\_copenhagen\\_accord\\_decried\\_as](https://www.democracynow.org/2009/12/21/us_led_copenhagen_accord_decried_as)





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Durban, South Africa (COP 17) – 2011

# Durban, COP17 – 2011

## Public demand for...



**CLIMATE SOS**  
POOR COUNTRIES DEMAND ACTION

# Durban, COP17 – 2011

## “Climate Justice”



**CLIMATE SOS**  
**POOR COUNTRIES DEMAND ACTION**



# COP17 -- Durban, South Africa

## Was it a Deal Done? Or Was it "A Done Deal"?



# Global Crisis – Global Voices

## International and Intergenerational Equity in Durban



*"This is not about India.... It is about the entire world. Does climate change mean that you give up equity?"*

Goodman, Amy, and Denis Moynihan  
"Cry, the Beloved Climate."  
TruthDig.Com  
29 November 2011

The United Nations' annual climate summit descended on Durban, South Africa, this week, but not in time to prevent the tragic death of Qodeni Ximba. The 17-year-old was one of 10 people killed in Durban on Sunday, the night before the U.N. conference opened. Torrential rains pummeled the seaside city of 3.5 million. Seven hundred homes were destroyed by the floods.

Ximba was sleeping when the concrete wall next to her collapsed. One woman tried to save a flailing 1-year-old baby whose parents had been crushed by their home. She failed, and the baby died along with both parents. All this, as more than 20,000 politicians, bureaucrats, journalists, scientists and activists made their way to what may be the last chance for the Kyoto Protocol.....



"Cry, the Beloved Climate,"  
TruthDig.Com, (29 November 2011).



## Alex Stark outlines the US position on Day 1 of the COP17 Climate Talks

OneWorldTV



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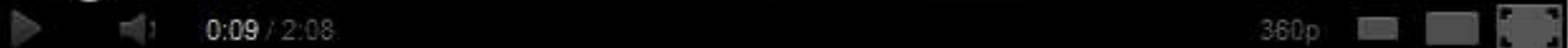


"Alex Stark outlines the US position on Day 1 of the COP17 Climate Talks,"

*YouTube - OneWorldTV, (28 November 2011).*



**CLIMATE SOS**  
POOR COUNTRIES DEMAND ACTION



"Effectiveness of SA climate summit questioned,"  
*YouTube - AlJazeeraEnglish, (29 November 2011).*



"Steve speaking at the Occupy COP17 Event on the first day of the United Nations Climate Talks,"  
*YouTube - OneWorldTV, (28 November 2011).*



## Diana Vogel, 350.org, at the Global Day of Climate Action for COP17 in D

OneWorldTV



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"Diana Vogel, 350.org, at the Global Day of Climate Action for COP17 in Durban, South Africa,"

## Martin Khor in COP17 Press Conference

by OneWorldTV



"Martin Khor in COP17 Press Conference,"  
*YouTube - OneWorldTV, (2 December 2011).*

## Durban Climate March: It's Time for Civil Disobedience (Kumi Naidoo)

OneWorldTV

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"Durban Climate March: It's Time for Civil Disobedience (Kumi Naidoo),"  
*YouTube - OneWorldTV, (3 December 2011).*



## Durban Climate March: It's Time for Civil Disobedience (Kumi Naidoo)

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## Durban Climate March: "I Will Willingly Go to Prison" for Climate Struggle

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"Durban Climate March: It's Time for Civil Disobedience"  
YouTube - OneWorldTV

<https://environmentaljusticetv.wordpress.com/2012/08/16/durban-climate-march-i-will-willingly-go-to-prison-for-climate-struggle->



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With Amy Goodman & Juan Gonzalez

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## COP17 United Nations Climate Change Conference Coverage

Democracy Now! is on the ground in Durban South Africa to report on the COP17 climate talks.

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PEOPLE: THE EPIC  
STORY OF RACE &  
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France, Germany Back E.U. Treaty Changes  
in Eurozone Crisis

U.N.: Austerity Measures Could Worsen  
Recession

Report: U.S. Claims Pakistan Authorized  
Deadly Strike

U.S. Hands Over Largest Military Base in  
Iraq

Senate, E.U. Approve Iran Sanctions

Obama Unveils New Tarnet for Global AIDS





President's informal stocktaking plenary

Mary Robinson: I hope occupy movement tackles the climate crisis  
by OneWorldTV



<https://environmentaljusticetv.wordpress.com/?s=Mary+Robinson>



<http://www.youtube.com/embed/rPeX2LIVKOY>



20111206-BBC-TWT-Mary-Robinson



<http://www.climate-talks.net/2008-ENVRE130/Audio/20111206-BBC-TWT-Mary-Robinson.mp3>





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Page last updated at 08:07 GMT, Saturday, 10 December 2011

## 'Burst of optimism' at climate talks



Environmental correspondent Richard Black: "They've come back with a much much stronger draft, which talks about starting in the new year."



01.44

03.07

Talks are ongoing at the climate change conference in Durban in the hope of reaching some sort of deal. Environment correspondent Richard Black looks at





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## At Last, Nations Agree To Landmark Climate Deal

by RICHARD HARRIS

**Listen to the Story**

Weekend Edition Sunday

[3 min 32 sec]

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Rajesh Jantila/AFP/Getty Images

Delegates worked into the early hours of Sunday morning on the final day of the climate talks in Durban, South Africa.

December 11, 2011

text size **A** **A** **A**

After a third sleepless night, climate negotiators in Durban, South Africa, finally found a way to reach a compromise early Sunday morning. The deal doesn't set hoped-for new targets to limit global warming, but delegates ultimately decided to embrace it rather than risk a major collapse of this international process.

Few people had high expectations for this year's annual round of United Nations climate talks. The main hope was to finalize an agreement reached in principle the year before — that is, establishing a major new fund to help funnel billions of dollars from rich nations to poor nations. That will help them adapt to a changing climate and to produce clean energy so they don't contribute so much to climate change.

**What Countries Are Doing To Tackle Climate Change**

December 11, 2011

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# At Last, Nations Agree To Landmark Climate Deal

by RICHARD HARRIS



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## United Nations climate talks in Durban close with deal



11 December 2011 Last updated at 03:55 ET

?

UN climate talks have ended a marathon session with an agreement to work towards a legally enforceable deal, covering all countries, to take effect by 2020.

Management of a fund for climate aid to poor countries has also been agreed, though how to raise the money has not.

David Shukman reports.

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President's informal stocktaking plenary



India's Chief Climate Delegate at COP 17, Durban, South Africa, emphasized the problem of equity in reaching a global accord.



# The case for international equity and fairness.



*“This is not about India. It is about the entire world. Does climate change mean that you give up equity?...”*

<https://environmentaljusticetv.wordpress.com/2017/07/23/india2-durban-south-africa-cop/>



# The case for intergenerational equity and fairness.



Anjali Appadurai  
College of the Atlantic

<https://environmentaljusticetv.wordpress.com/2013/07/21/get-it-done-urging-climate-justice-youth-delegate-anjali-appadurai-mic-checks-un-summit/>

# Voices from “inside” and “outside” the negotiations.

<https://environmentaljusticetv.wordpress.com/2014/11/17/frustrated-by-inaction-youth-delegates-occupy-cop-17-plenary-in-durban/>



Kumi Naidoo, Greenpeace International, was a powerful voice “outside” the formal negotiation process in what some called the “occupy Durban” movement.

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<https://environmentaljusticetv.wordpress.com/2013/07/21/lauding-collapse-of-global-warming-movement-inhofe-tells-un-summit-you-are-being-ignored-youtube/>

Senator James Inhofe – another “voice” from outside the talks – who claims that the “Kyoto process” is dead.

DURBAN, SOUTH AFRICA



**KATE HORNER**  
Friends of the Earth

DURBAN, SOUTH AFRICA



**BOBBY PEAK**  
groundWork - South Africa

Real Rio Action is on the Streets



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news



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# After failure at Copenhagen, and Durban, Obama realized he needed a deal with China....

**US and China strike deal on carbon cuts in push for global climate change pact | Environment | The Guardian**

Posted on [July 23, 2017](#) | [Leave a comment](#)



US President Barack Obama looks on as Chinese President Xi Jinping speaks during a joint press conference in the Great Hall of the People in Beijing

Photograph: Greg Baker/AFP/Getty Images



# John Kerry **took over from Hilary Clinton as Secretary of State and reached out to China.**

US-china carbon deal: A historic milestone in the global fight against climate change | Damian Carrington | **Environment** | The Guardian

Posted on [July 23, 2017](#) | [Leave a comment](#)





# Key COP meetings have been:

Those held in:

Bali, Indonesia (COP 13) - 2007

Copenhagen, Denmark (COP 15) - 2009

Durban, South Africa (COP 17) – 2011

Paris, France (COP 21) – 2015

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VOL. CLXV, No. 57,079

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SUNDAY, DECEMBER 13, 2015

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The deal, which was met with an eruption of cheers and applause from thousands of delegates gathered from around the world, represents a historic breakthrough on an issue that has foiled decades of international efforts to address climate change.

Traditionally, such pacts have required developed economies like the United States to take action to lower greenhouse gas emissions, but they have exempted developing countries like China and India from such obligations.

The accord, which United Nations diplomats have been working toward for nine years, changes that dynamic by requiring action in some form from every country, rich or poor.

"This is truly a historic moment," the United Nations secretary-general, Ban Ki-moon, said in an interview. "For the first time, we have a truly universal agreement on climate change, one of the most crucial problems on earth."

President Obama, who regards tackling climate change as a central element of his legacy, spoke of the deal in a televised address from the White House. "This agreement sends a powerful signal that the world is fully committed to a low-carbon future," he said, raising hopes that the world has both the will and the ability to defeat global warming.

Plan B? If the deal fell apart, the world would be back to square one.

The new deal will not, on its own, solve global warming. At best, scientists who have analyzed it say, it will cut global greenhouse gas emissions by about half enough as is necessary

Continued on Page 25

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### Healing Step, If Not a Cure

#### An Accord Recognizes Its Own Shortcomings

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Scientists who closely monitored the talks here said it was not the agreement that humanity really needed. By itself, it will not save the planet.

The great ice sheets remain imperiled, the oceans are still rising, forests and reefs are under stress, people are dying by thousands from heat waves and floods, and the agricultural system that feeds seven billion humans hangs in peril at risk.

And yet 15 years after the first warning of global warming was put on the map, the world has a new agreement, and climate change is still a threat.

## Visa Screening Missed an Attacker's Zealotry on Social Media

This article is by Matt Apuzzo, Michael S. Schmidt and Julia Preston.

WASHINGTON — Tashfeen Malik, who with her husband carried out the massacre in San Bernardino, Calif., passed three background checks by American immigration officials as she moved to the United States from Pakistan. None uncovered what Ms. Malik had made little effort to hide — that she talked openly

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Had the authorities found the posts years ago, they might have kept her out of the country. But immigration officials do not routinely review social media as part of their background checks, and there is a debate inside the Department of Homeland Security over whether it is even appropriate to do so.

The discovery of the old social media posts has exposed a significant — and perhaps inevitable —

shortcoming in how foreigners are screened when they enter the United States, particularly as people everywhere disclose more about themselves online. Tens of millions of people are cleared each year to come to this country to work, visit or live. It is impossible to conduct an exhaustive investigation and secure the social media accounts of each of them, law enforcement officials say.

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Plan B" if the deal fell apart. The El Niño weather phenomenon was also a factor.

The new deal will not, on its own, solve global warming. At best, scientists who have analyzed it say, it will cut global greenhouse gas emissions by about half enough as is necessary

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And yet, 10 years after the first warning of a global warming crisis, the world has taken a step forward. It has agreed to cut greenhouse gas emissions, and that is a start.

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In the aftermath of terrorism attacks, the world has both the will and the ability to defeat this challenge.

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The new deal will not, on its own, solve global warming. At best, scientists who have analyzed it say, it will cut global greenhouse gas emissions by about half enough as is necessary

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The great ice sheets remain unimpaired, the oceans are still rising, forests and reefs are under stress, people are dying by thousands from heat waves and floods, and the agricultural system that feeds seven billion humans is under threat.

And yet, for all the talk of a new era, the world is still a long way from solving the problem. The deal is a first step, but it is not a cure.

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# **The Limits of the Paris COP21 “Deal” and the Future of Climate Science**

**20 December 2015**

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Kerry: Climate Agreement is a Win for All



## COP 21: UN climate change conference | Paris

# James Hansen, father of climate change awareness, calls Paris talks 'a fraud'

The former NASA scientist criticises the talks, intended to reach a new global deal on cutting carbon emissions beyond 2020, as 'no action, just promises'

Oliver Milman

@olivermilman

Saturday 10 December 2016 07:00 GMT



22,311 775



Many of the conservatives from climate change denialists, James Hansen says. Photograph: Mandy Harwood for the Guardian

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Despite diplomatic enthusiasm senior climate scientists point to failure of the Paris agreement to halt carbon emissions.

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Many of the conservatives from climate change denialists, James Hansen says. Photograph: Martin O'Connell for the Guardian

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# The limits of the Paris achievement...

1. The Paris Agreement is a landmark achievement in the fight against climate change, but it is not a silver bullet. It sets a framework for action, but the details of implementation are left to individual countries.

2. The Paris Agreement is a voluntary agreement, and while it has been signed by 195 countries, not all have fully implemented their commitments. This raises questions about the effectiveness of the agreement.

3. The Paris Agreement is a long-term agreement, and it is not clear how it will be enforced. There is no mechanism for punishing countries that fail to meet their commitments.

4. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the national level. Many countries have not yet developed national climate plans, and those that have are often weak.

5. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the local level. Many cities and regions have not yet developed local climate plans, and those that have are often weak.

6. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the corporate level. Many companies have not yet developed corporate climate plans, and those that have are often weak.

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8. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the community level. Many communities have not yet developed community climate plans, and those that have are often weak.

9. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the sectoral level. Many sectors have not yet developed sectoral climate plans, and those that have are often weak.

10. The Paris Agreement is a global agreement, but it is not clear how it will be implemented at the sub-sectoral level. Many sub-sectors have not yet developed sub-sectoral climate plans, and those that have are often weak.

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*Nations can reach a “deal”.....*

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Can the laws of nature be compromised?

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Answer: **No...!**

SO, where does that leave ***climate science***  
after the historic Paris COP21 “deal?”



<https://environmentaljusticetv.wordpress.com/2015/12/14/climate-scientist-james-hansen-warns-world-is-on-wrong-track-to-prevent-runaway-global-warming/>



AND...

Dr. James Hansen is not  
alone...

Human communities and nation-states can come to whatever agreements they wish to negotiate about governance, BUT *Nature does not negotiate....*

### Climate Change Conference – Laws of Nature and Human Governance

Posted on [July 26, 2017](#) | [Leave a comment](#) | [Edit](#)



# Esquire



## When the End of Human Civilization Is Your Day Job

Among many climate scientists, gloom has set in. Things are worse than we think, but they can't really talk about it.



**Jason Box,  
Glaciologist**





See: <https://environmentaljusticetv.wordpress.com/page/2/?s=jason+box>





<https://environmentaljusticetv.wordpress.com/2016/05/02/top-climate-expert-crisis-is-worse-than-we-think-scientists-are-self-censoring-to-downplay-risk-2/>





**KEVIN ANDERSON**  
Tyndall Center for Climate Change Research

# The Limits of the Paris COP21 “Deal” and the Future of Climate Science







# The Limits of the Paris COP21 “Deal” and the Future of Climate Science



# What Comes After Paris COP21...?

## Agricultural Stress → Food Insecurity and → the Demand for “*Climate Justice*”

### The Food Gap

The Impacts  
of Climate  
Change  
on Food  
Production:  
A 2020 Perspective

### “Loopholes” in the Paris “deal”...

The loopholes create a structure of global  
“Climate Apartheid”





# “Loopholes” in the Paris “deal”...

What kind of world can we predictably expect to live in from this “deal”?



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Harvard's First Distinguished Service Award

## After 50 Years Harvard Honors Lester Brown

<https://environmentaljusticetv.wordpress.com/2015/04/24/lester-brown-harvard-lecture-6-may-2015-530-700pm/>

Lester Brown has foreseen this problem clearly for several decades...



<https://environmentaljusticetv.wordpress.com/2016/03/19/lester-brown-on-full-planet-empty-plates/>

Published in 2017

# The Food Gap

The Impacts  
of Climate  
Change  
on Food  
Production:  
A 2020 Perspective



## Jean Ziegler – UN rapporteur talks about the global food crisis – 28 Apr 08

Posted on [July 22, 2014](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2014/07/22/jean-ziegler-un-rapporteur-talks-about-the-global-food-crisis-28-apr-08/>



# What Comes After Paris COP21...?

## Agricultural Stress → Food Insecurity and → the Demand for “*Climate Justice*”

“Loopholes” in the Paris “deal”...

The loopholes create a structure of global  
“Climate Apartheid”



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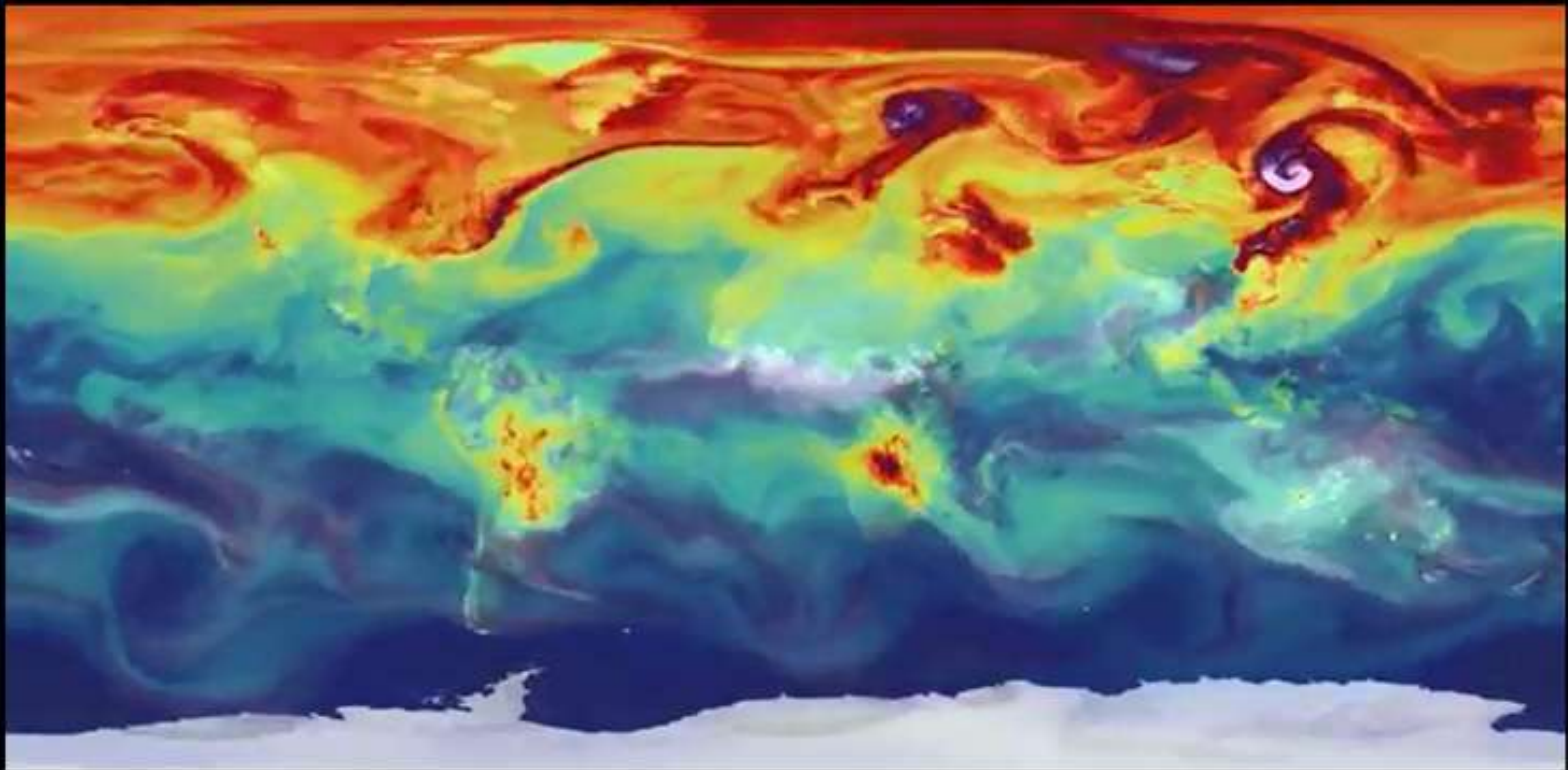
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**Paris COP21 and after...**  
**Was this a Global Agreement?**  
**How Will China Act? What Will India Do?**



# Key COP meetings have been:

Those held in:

Bali, Indonesia (COP 13) - 2007

Copenhagen, Denmark (COP 15) - 2009

Durban, South Africa (COP 17) – 2011

Paris, France (COP 21) – 2015

and

Marrakech, Morocco (COP 22) - 2016



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# Marrakech Climate Summit 2016





## As U.S. Elects Global Warming Denier, Thousands March in Marrakech Calling for Climate Justice

Posted on [November 14, 2016](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2016/11/14/as-u-s-elects-global-warming-denier-thousands-march-in-marrakech-calling-for-climate-justice/>



Summary: **We need to learn what has happened over the last 11 years....**

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from:

**Bali COP 13 (2007)** – first COP in the “Third World” raised concerns for Third World development and “developed world” assistance. U.S. opposes Third World position, is booed in plenary session and reverses its “official stance.” Then retracts its commitment under President George W. Bush. U.S. insists on no targets or timetables for carbon emissions. **Paupau New Guinea** tell U.S. “either ‘lead’ or get out of the way.”

Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from:

Copenhagen COP 15 (2009) – first COP for President Obama. Great expectations that he would reverse President Bush's hostile policies, but great disappointment when he offered nothing and meetings collapsed without accord. U.S. "blamed" China for 'lack of transparency.' China defends policy integrity of the Kyoto principle of "Common but differentiated responsibilities."

Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from:

**Durban COP17 (2011)** – first COP on African continent. Disputes continue between “global North” and “global South.” **India emerges as strong defender of “equity” to affirm the “common but differentiated” responsibilities – emphasizing the historical role of U.S. and Europe in creating emissions problem.** The **concept of “Climate Justice”** emerges as a major demand of the NGO community – outside the talks. This becomes the theme of the global South.

Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from:

Paris COP 21 (2015) – 190 + nations agree to “voluntary limits” to be set by each country for themselves. No fixed timetable and no firm targets. Each country agrees to publish its own achievements and monitor its own progress on reducing GHGs. Scientists say the “agreement between nations” is a “fraud” because it cannot possibly achieve the reductions needed for the survival of civilization.

Summary: **We need to learn what has happened over the last 11 years....**

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from:

**Marrakech COP22 (2016)** – first COP intended to discuss how to “implement” historic “Paris Accord of 2015.” Whole conference thrown into fear and disarray as delegates learn of the election of President Donald Trump in U.S. elections. Trump campaigned on theme of scrapping the Paris Accord altogether, and does this officially in June 2017.



Summary: **We need to learn what has happened over the last 12 years....**

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from **Bali** to **Marrakech** and up to today over the last 12 years.

To learn about the evolution of these climate COP meetings in depth, you can begin by consulting the unparalleled, on-the-spot reporting of Democracy Now!

[Copenhagen Climate Summit 2009](#)

[Cancún Climate Summit 2010](#)

[Durban Climate Summit 2011](#)

[Doha Climate Summit 2012](#)

[Warsaw Climate Summit 2013](#)

[Lima Climate Summit 2014](#)

[Paris Climate Summit 2015](#)

[Marrakech Climate Summit 2016](#)

Summary: **We need to learn what has happened over the last 11 years....**

In terms of the evolution of climate diplomacy, we need to think about what comes next:

## **Post-Paris Climate Negotiations**

**Uncertain** what will happen “next.” President Trump withdrew from Paris Accord in June 2017. U.S. was further alienated from G20 on climate issue. In effect, the G20 has become a G19 + 1 (the U.S.).

**China is beginning** to reach out to the G19 to work on climate now that U.S. is isolated, and Trump administration is striving to pursue extraction and maximum carbon-driven growth strategy.

Summary: We need to learn what has happened over the last 12 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from (COP history) to:

Post-Paris Climate Negotiations

Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from (COP history) to:

Post-Paris Climate Negotiations

What will China do next?

Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from (COP history) to:

Post-Paris Climate Negotiations

What will China do next?

Will it become an effective world leader on global climate issues?



Summary: We need to learn what has happened over the last 11 years....

In terms of the evolution of climate diplomacy, we need to keep in mind the progression from (COP history) to:

Post-Paris Climate Negotiations

What will China do next?

Will it become an effective world leader on global climate issues?

We do not know...?

# Trump presidency may spell disaster for climate | China Dialogue

Posted on [December 13, 2016](#) | [Leave a comment](#) | [Edit](#)



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chinadialogue

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# Trump China

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乔伊迪普·格普塔

09.11.2016

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评论

对气候变化不以为然的特朗普当选美国总统，这会令美国站在全球气候行动和绿色经济转型的对立面吗？



当选总统唐纳德·特朗普曾表示气候变化这个概念是中国制造出来的“骗局”。

图片来源: Gage Skidmore

China has a long history of economic strength and is continuing a growth strategy.



# But what will this mean for the “carbon footprint” of China’s *contemporary economy?*

## China’s National People’s Congress opens annual session

Posted on [March 9, 2016](#) | [Leave a comment](#)



CCTV America

<https://environmentaljusticetv.wordpress.com/2016/03/09/chinas-national-peoples-congress-opens-annual-session/>



# What will the family policy change mean for the global climate?



<https://environmentaljusticetv.wordpress.com/2015/10/31/will-the-end-of-chinas-one-child-rule-help-the-economy/>

Important questions for world survival, *especially since the U.S. direction has been totally reversed by President Trump in June-July 2017*

**Fact Check: President Trump's remarks on leaving the Paris climate accord**

Posted on [July 8, 2017](#) | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2017/07/08/207-fact-check-president-trumps-remarks-on-leaving-the-paris-climate-accord/>

Important questions for world survival, *especially since the U.S. direction has been totally reversed* by President Trump in June-July 2017

**World leaders condemn US withdrawal from Paris climate deal**

Posted on [June 3, 2017](#) | [Leave a comment](#)



<https://environmentaljusticetv.wordpress.com/2017/07/10/world-leaders-condemn-us-withdrawal-from-paris-climate-deal-2/>

Important questions for world survival, *especially since the U.S. direction has been totally reversed* by President Trump in June-July 2017

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Important questions for world survival, *especially since the U.S. direction has been totally reversed* by President Trump in June-July 2017

John Kerry calls Trump's decision "self-destructive step" that puts U.S. last

Posted on [June 3, 2017](#) | [Leave a comment](#)



<https://environmentaljusticetv.wordpress.com/2017/06/03/john-kerry-calls-trumps-decision-self-destructive-step-that-puts-u-s-last/>



It grew worse for the U.S. and the world at  
the G20 in Hamburg, July 2017

VIEW

## It's US & UK vs Germany & China at G20 summit

The two-day summit in Hamburg, which kicks off today, could be the G20's tensest meeting ever



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## G20 Leaders Agree... Or Do They?

It's day two of the G20 summit in the German city of Hamburg and leaders have devised a final communique acknowledging their differences on climate change.

28 days left to listen

🕒 50 minutes

Posted on [July 8, 2017](#) | [Leave a comment](#)

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## G20 talks fail to bridge climate chasm

A statement at the G20 summit says the Paris accord is "irreversible" but the US forces compromise.

🕒 27 minutes ago | [Europe](#)

▶ [Body language analysed](#)

▶ [Anti-G20 riot in Hamburg](#)

📷 [In pictures: Violence at G20 protests](#)

▶ [How much do world leaders earn?](#)



# There were warnings of the consequences well before Trump's decision...

## Panel on EU Chief: China Ready To Fill U.S. "LEADERSHIP VACUUM"

Posted on July 8, 2017 | [Leave a comment](#) | [Edit](#)



<https://environmentaljusticetv.wordpress.com/2017/07/08/panel-on-eu-chief-china-ready-to-u-s-leadership-vacuum-climateaccord/>

**If China is going to lead, where  
are we headed on climate as  
a global community?**



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**If China is going to lead, where  
are we headed on climate as  
a global community?**

**What was China's role in the  
collapsed talks  
in **Copenhagen** **and** since 2009?**

**How does it view its role today,  
10 years later?**

# What Do We *Really* Know About China and Climate?

# What Do We *Really* Know About China and Climate?

*(...not much, really.)*

**There are some important academic programs...**

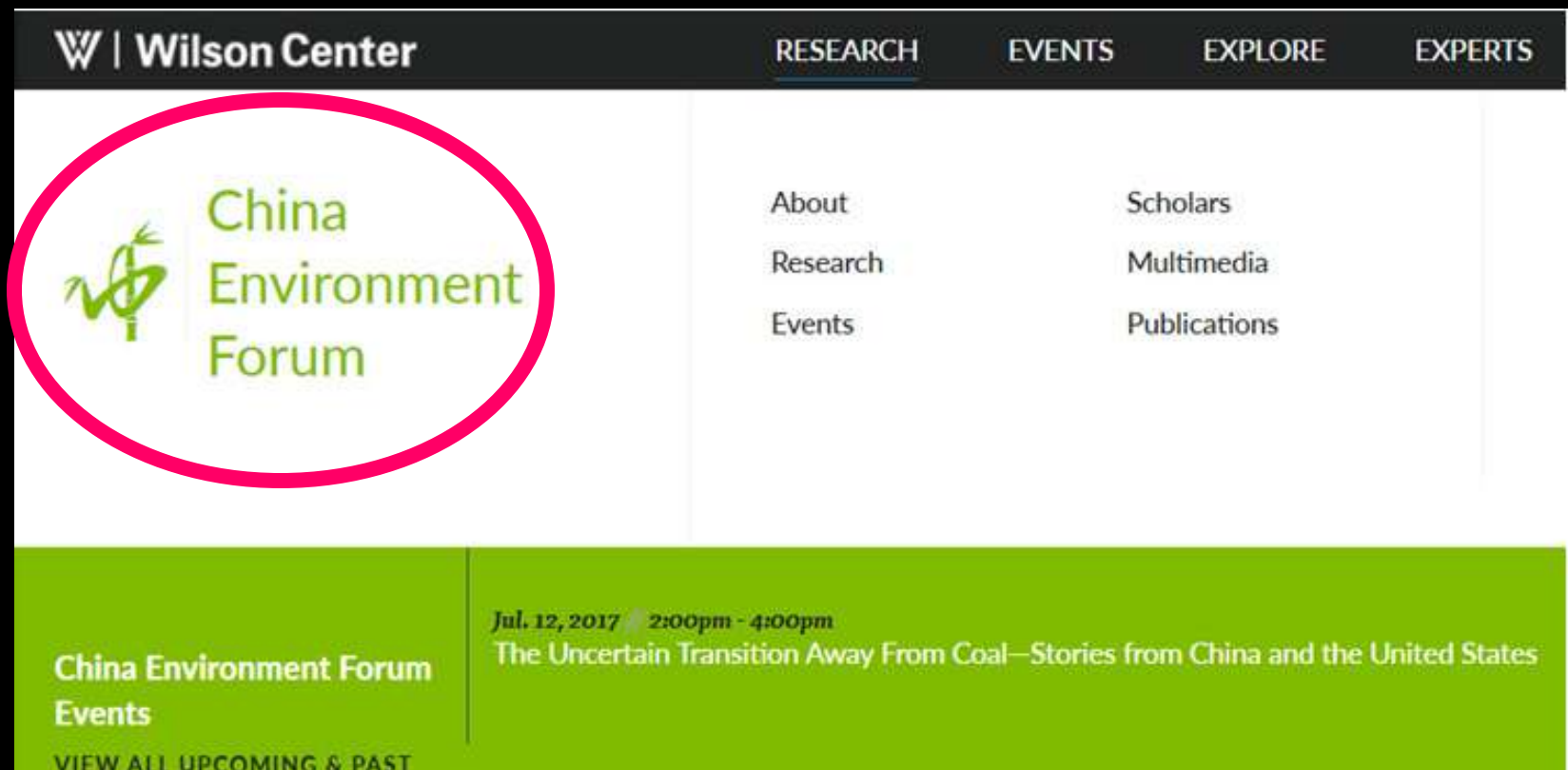
**Harvard-China Project**



# What Do We *Really* Know About China and Climate?

*(...not much, really.)*


**There are some important government policy programs...**



The screenshot shows the Wilson Center website. The header includes the Wilson Center logo and navigation links: RESEARCH, EVENTS, EXPLORE, and EXPERTS. The main content area features the China Environment Forum logo, which is circled in red. To the right of the logo are links for About, Research, Events, Scholars, Multimedia, and Publications. At the bottom, there is a green banner for an event titled "The Uncertain Transition Away From Coal—Stories from China and the United States" scheduled for July 12, 2017, from 2:00pm to 4:00pm. The banner also includes the text "China Environment Forum Events" and a link to "VIEW ALL UPCOMING & PAST".

W | Wilson Center

RESEARCH EVENTS EXPLORE EXPERTS

 China Environment Forum

About  
Research  
Events

Scholars  
Multimedia  
Publications

Jul. 12, 2017 2:00pm - 4:00pm  
The Uncertain Transition Away From Coal—Stories from China and the United States

China Environment Forum Events  
VIEW ALL UPCOMING & PAST



# What Do We Know About China and Climate?

But what does *the public* hear about?  
What do they understand?

We hear  
occasional  
reports....  
about **China's**  
leadership in  
climate-  
related areas.

Report finds China surpasses US in renewable energy consumption

Posted on [July 20, 2017](#) | [Leave a comment](#) | [Edit](#)



# What Do We Know About China and Climate?

But what does *the public* hear about?  
What do they understand?

...but then we see other stories on China and global pollution.



# What Do We Know About China and Climate?

But what does *the public* hear about?  
What do they understand?

...but then we see other stories on China and global pollution.

China's Other Big Export: Pollution – The New York Times

Posted on July 22, 2017 | [Leave a comment](#) | [Edit](#)



China's Other Big Export: Pollution – The New York Times



# What Do We Know About China and Climate?

*From Copenhagen (2009) to Hamburg (2017)  
(...not very much, yet.)*



## Report finds China surpasses US in renewable energy consumption

Posted on [July 20, 2017](#) | [Leave a comment](#) | [Edit](#)



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# What Do We Know About China and Climate?

*From Copenhagen (2009) to Hamburg (2017)*  
*(...not very much, yet.)*

**Will China's patterns of future growth undercut its potential role as a "climate leader"?**



**China's biggest car show opens as economy slows**

21 April 2015 Last updated at 05:24 BST

**Demand for oil to rise 4.8% | chinadaily.com.cn**

Posted on January 31, 2013 | 2 Comments | Edit

[http://www.chinadaily.com.cn/business/2013-01/31/content\\_16189328.htm](http://www.chinadaily.com.cn/business/2013-01/31/content_16189328.htm)

Updated: 2013-01-31 03:02 By DUJUAN (ChinaDaily)



# What Do We Know About China and Climate?

*From Copenhagen (2009) to Hamburg (2017)*  
*(...not very much, yet.)*



What do we know about China's future "carbon footprint?"

# What Do We Know About China and Climate?

*From Copenhagen (2009) to Hamburg (2017)*  
*(...not very much, yet.)*



What do we know about China's  
future "carbon footprint?"

How can we find out?

# What Do We Know About China and Climate?

*From Copenhagen (2009) to Hamburg (2017)*  
*(...not very much, yet.)*

China Is a Climate Leader but Still Isn't Doing Enough on Emissions, Report Says – The New York Times

Posted on [July 19, 2018](#) | [Leave a comment](#) | [Edit](#)

*China Is a Climate Leader but Still Isn't Doing Enough on Emissions, Report Says*



A layer of smog in January over Taiyuan, the provincial capital of Shanxi, China's biggest coal-producing region. Gilles Sabrid for The New York Times



Embassy  
of the Federal Republic of Germany  
Beijing

## Mapping China's Climate Policies

June 2017 Edition

Craig Hart  
Zhu Jiyun  
Ying Jiahui  
Development Technologies International



China Carbon Forum  
中国碳论坛

An independent platform to foster trust and cooperation  
among China's stakeholders for climate action

**German scholars  
have made a start,  
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China-Germany  
climate leadership  
initiative.**





Embassy  
of the Federal Republic of Germany  
Beijing

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initiative.**

# What is China's "bold vision?"

## What specific policies will be used to implement this "bold vision?"

### China's bold vision for global energy security | Asia Times

Posted on [July 20, 2018](#) | [Leave a comment](#) | [Edit](#)

 **ASIATIMES** EST. 1990

RENEWABLE ENERGY | China's bold vision for global energy se...



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## *China's bold vision for global energy security*

 [By JEFFREY D. SACHS](#) | APRIL 8, 2018 4:32 AM (UTC+8)



The boldest plan to achieve the targets set by the 2015 Paris climate agreement comes from China. The Paris accord commits the world's governments to keep global warming to well below 2 degrees Celsius relative to the pre-industrial level. This can be accomplished mainly by shifting the world's primary energy sources from carbon-based fossil fuels (coal, oil, and natural gas) to zero-carbon, renewable (wind, solar, hydro, geothermal, ocean, biomass), and nuclear energy by the year 2050.

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[Europe must resist Trump's](#)  
14-05-2018 10:43

# How can we learn more about China's climate policies?

## Columbia | SIPA Center on Global Energy Policy | Guide to Chinese Climate Policy

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## Guide to Chinese Climate Policy





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## Guide to Chinese Climate Pol

 COLUMBIA | SIPA  
Center on Global Energy Policy

## GUIDE TO CHINESE CLIMATE POLICY 2018

BY DAVID SANDALOW



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## Columbia | SIPA Center on Global Energy Policy Guide to Chinese Climate Policy

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## Guide to Chinese Climate Policy

## China's Policies and Actions for Addressing Climate Change (2017)

National Development and Reform Commission

P.R. China

October 2017



# What is: “The Global Energy Interconnection Development and Cooperation Organization (GEIDCO)”



The Global Energy Interconnection Development and Cooperation Organization (GEIDCO), with its permanent office domiciled in Beijing, China, is a international organization among willing firms, associations, institutions and individuals who are dedicated to promoting the sustainable development of energy worldwide.

# What is the GEIDCO “Story Contest”



How might you contribute to this? What  
can we all learn from this?

# From a global perspective, this data is very troubling...

## Carbon emissions from energy industry rise at fastest rate since 2011

BP report reveals swings in global temperatures are increasing use of fossil fuels



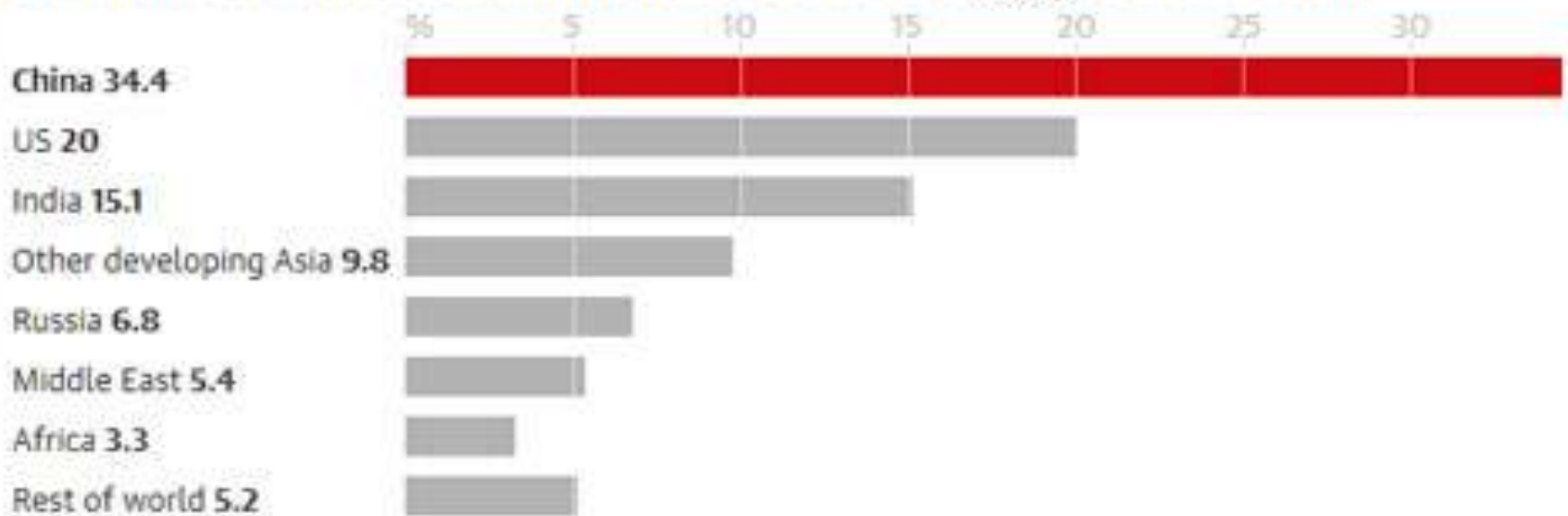
▲ Smoke belches from a coal power station near Datong in China's northern Shanxi province. China led the world's energy growth in 2018. Photograph: Greg Baker/AFP/Getty Images

From a global perspective, this data is very troubling...



# From a global perspective, this data is very troubling...

## China accounted for a third of the world's energy growth in 2018

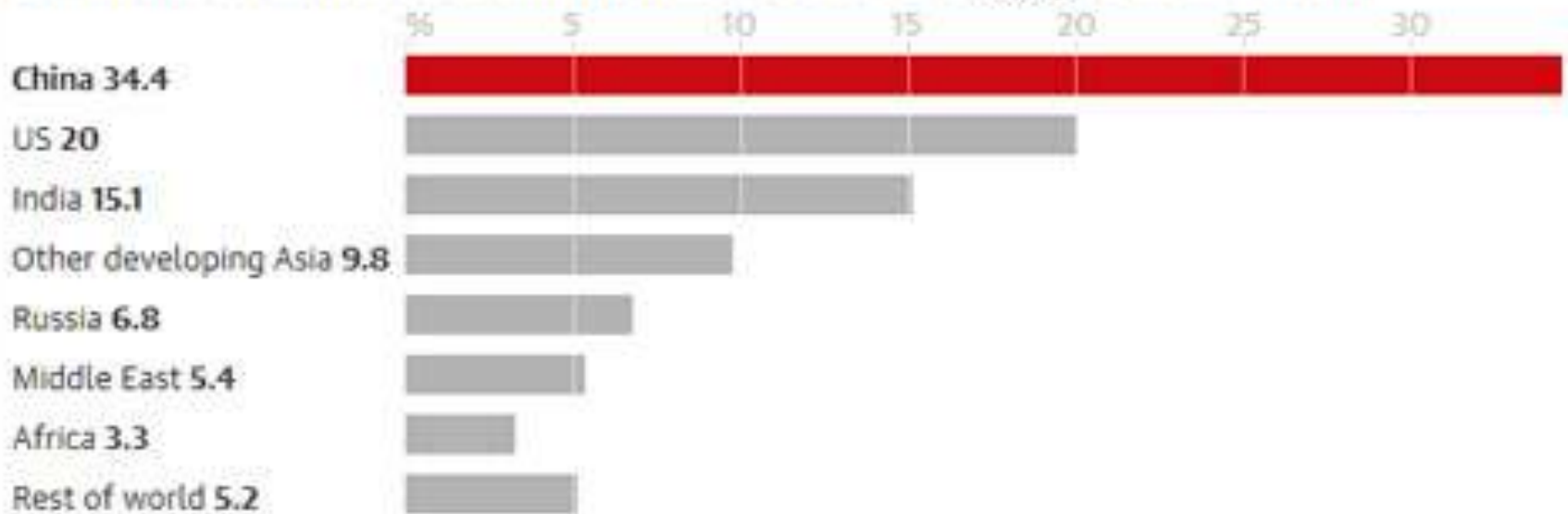


Guardian graphic. Source: BP statistical review of world energy



# The fate of humanity has come to depend to a large extent on the behavior of China.

## China accounted for a third of the world's energy growth in 2018



Guardian graphic. Source: BP statistical review of world energy

Above all the world needs more Chinese  
and American scholars  
(like Lucia Green-Weiskel and like yourselves.....)  
...who speak Chinese and English and can interpret  
our experiences and aspirations to each other  
across cultural boundaries



# And there is a need for global transition studies...



<https://environmentaljusticetv.wordpress.com/about/>

<https://environmentaljusticetv.wordpress.com/2018/05/27/the-un-the-una-and-climate-looking-ahead-to-paris-cop-21-in-december-2015-ev-n-176-cctv/>

There are some very hopeful  
leaders emerging...like this  
16-years old Swedish girl





# Fridays for future, il discorso di Greta Thunberg: “Prepariamoci, dovremo combattere per anni”

Posted on [August 5, 2019](#) | [Leave a comment](#) | [Edit](#)



[La Repubblica](#)

<https://environmentaljusticetv.wordpress.com/2019/08/05/fridays-for-future-il-discorso-di-greta-thunberg-prepariamoci-dovremo-combattere-per-anni/>



# The Zero-Emissions Boat That Will take Greta Thunberg to the U.S.

Posted on [August 5, 2019](#) | [Leave a comment](#) | [Edit](#)



A new kind of leadership on climate and environmental issues is emerging around the world...

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# Climate Change and Transition Studies

An Interactive Online Learning Initiative

Designed for IvyMind Consulting, LLC  
as a project of the

Young Scholars' Online Learning Initiative

created by

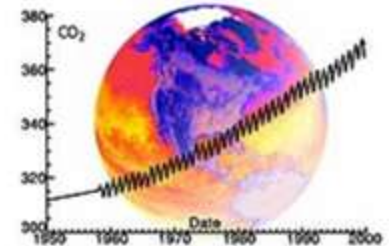
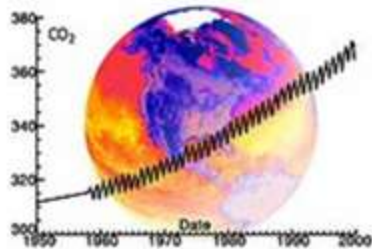
Timothy C. Weiskel

Research Director, *Cambridge Climate Research Associates*

**Climate Science for Human Survival**

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## Session 5

International Negotiations on a Global  
Problem: Progress and the Major Remaining  
Challenges for Global Leadership

8 August 2019

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