

Boston U. MET ML 720  
Food Policy & Food Systems

Fall, 2018 - Prof. E. Messer

Week 10 - (November 13)

**Biofuels, Land Grabs, and the Right to Food:**  
The Legacy of Colonialism and the Evolution of  
the Global Food System



Timothy C. Weiskel

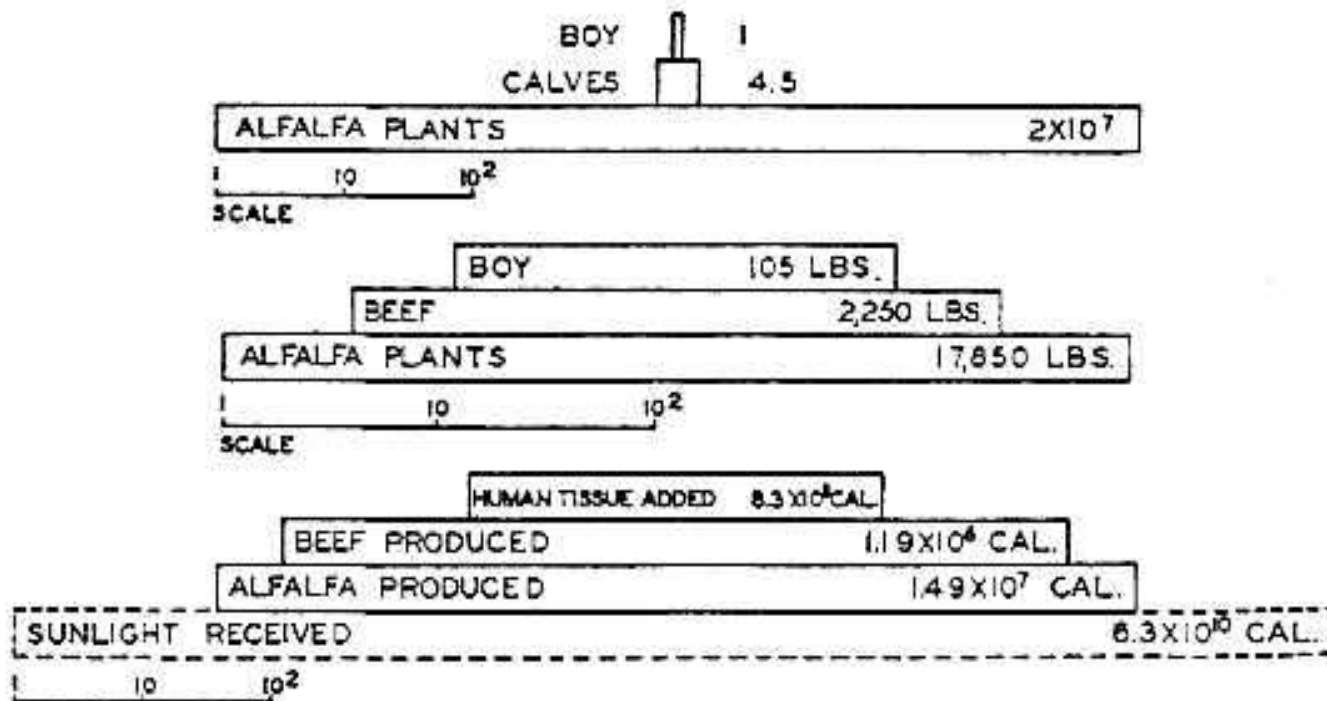
Cambridge Climate Research Associates (CCRA)

Transition-Studies.Net & Food-Matters.TV

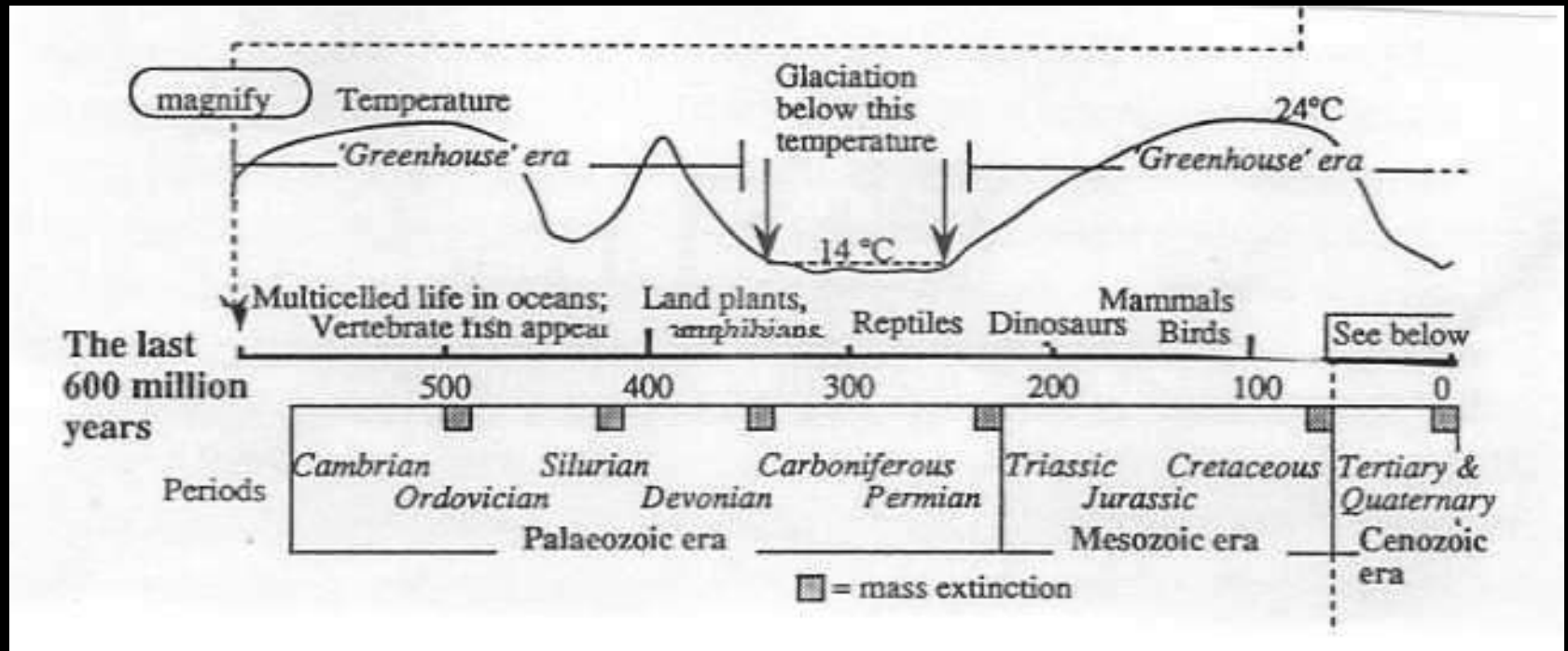
13 November 2018

# Where are we located in the structure of the ecosystem?

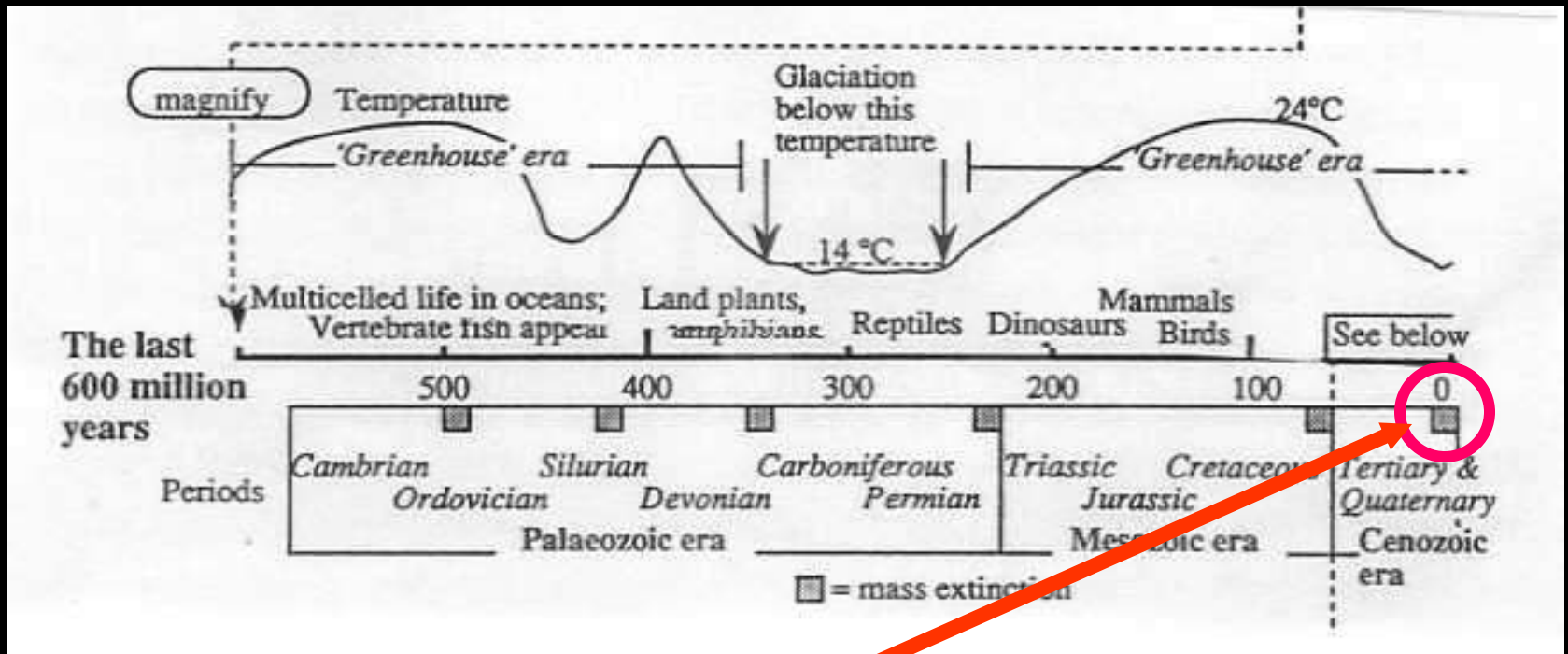
Where are we located as individuals -- and *as a species* -- in the circulation of materials and the flow of energy? Where are we in the web of life on earth?



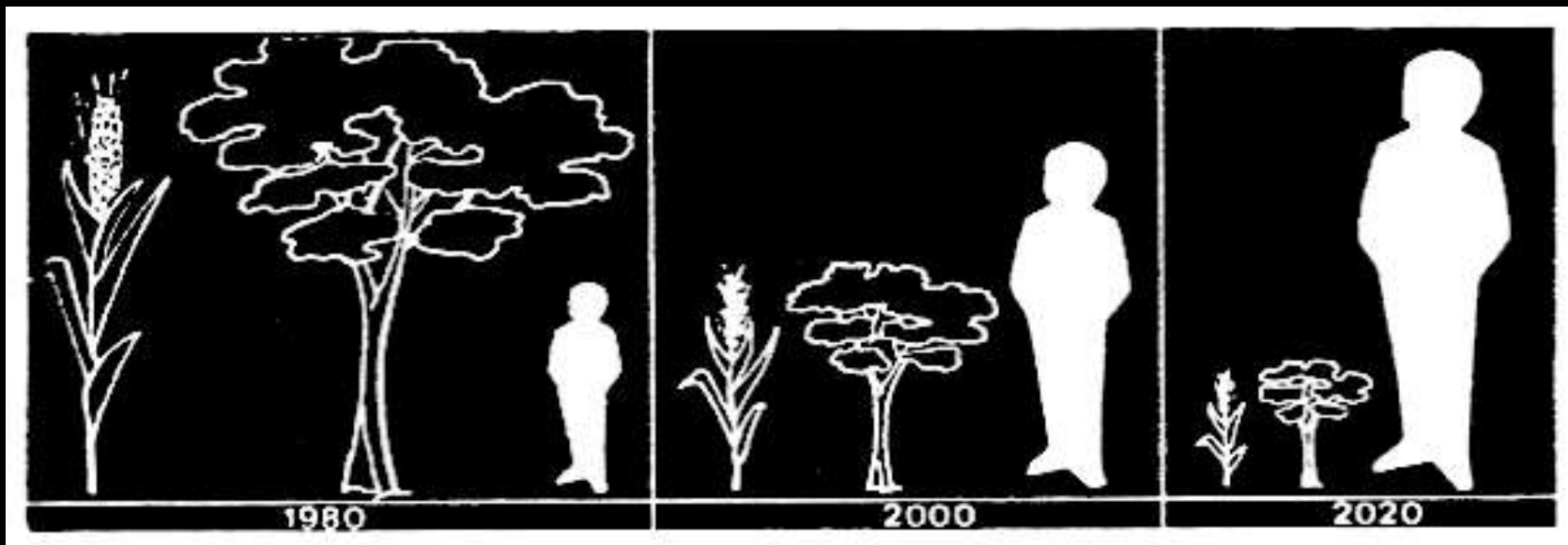
# And then, where are we located in Earth time?



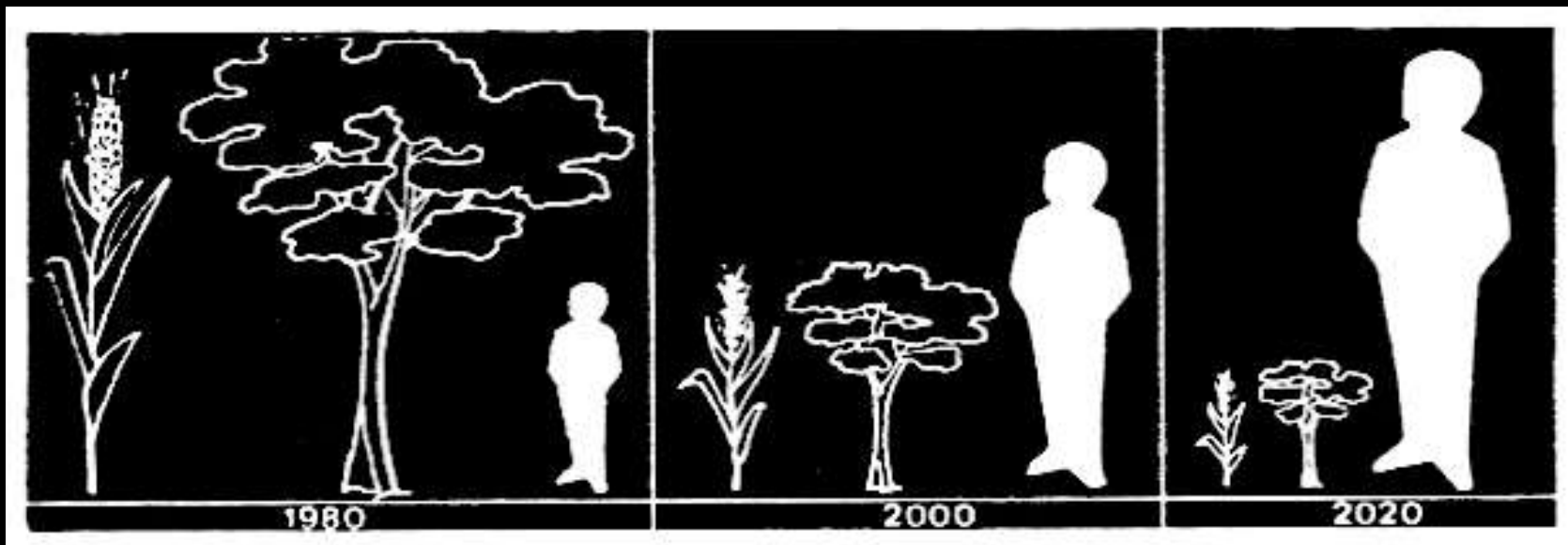
# And then, where are we located in Earth time?



Sixth major mass extinction “episode” = now

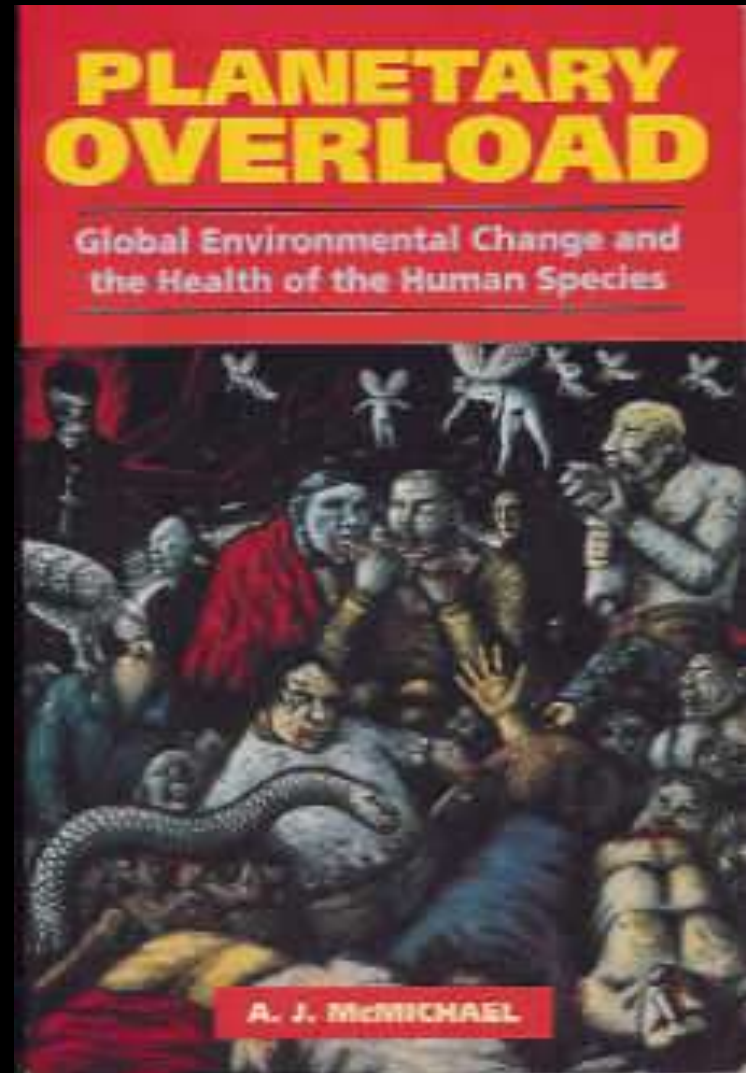


Schematic representation of species ratio transformations through time. *Note bene* the pace and magnitude of the transformations we have become accustomed to as “normal” are systemically quite abnormal and cannot persist much longer.



Remember, ... the trophic structure of the ecosystem is crucially important. Therefore, in an ecosystem *ratios really matter*.

We can begin to ask about “overload” questions, but answering these questions will inevitably raise further (perhaps embarrassing or revealing) questions about ratios.





**Georg Borgstrom**

\$2.95

*author of The Hungry Planet*

An international food science authority spells out the stark realities facing man if we continue to push our earth to its biological limits.

# TOO MANY

AN ECOLOGICAL OVERVIEW OF EARTH'S LIMITATIONS

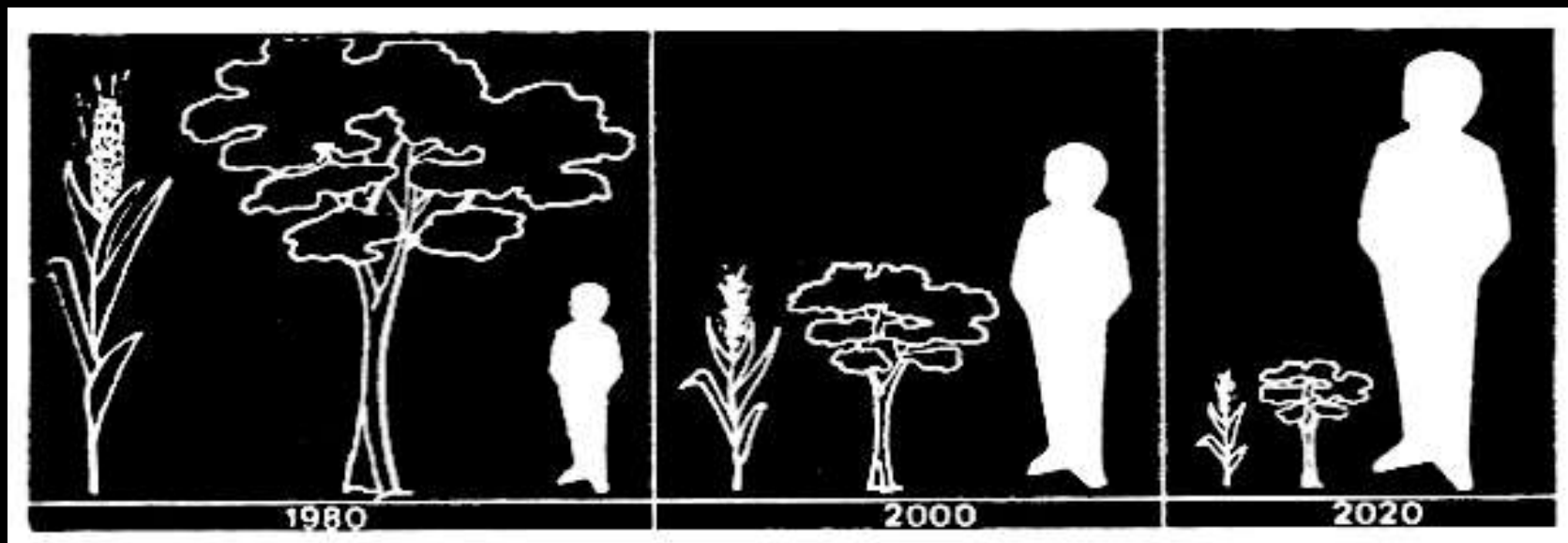
"Level-headed, factual and scary . . . not a book for those who would remain complacent."  
—*Los Angeles Times*



Some have already argued that there are too many humans currently alive and about to live for the planet to sustain them.

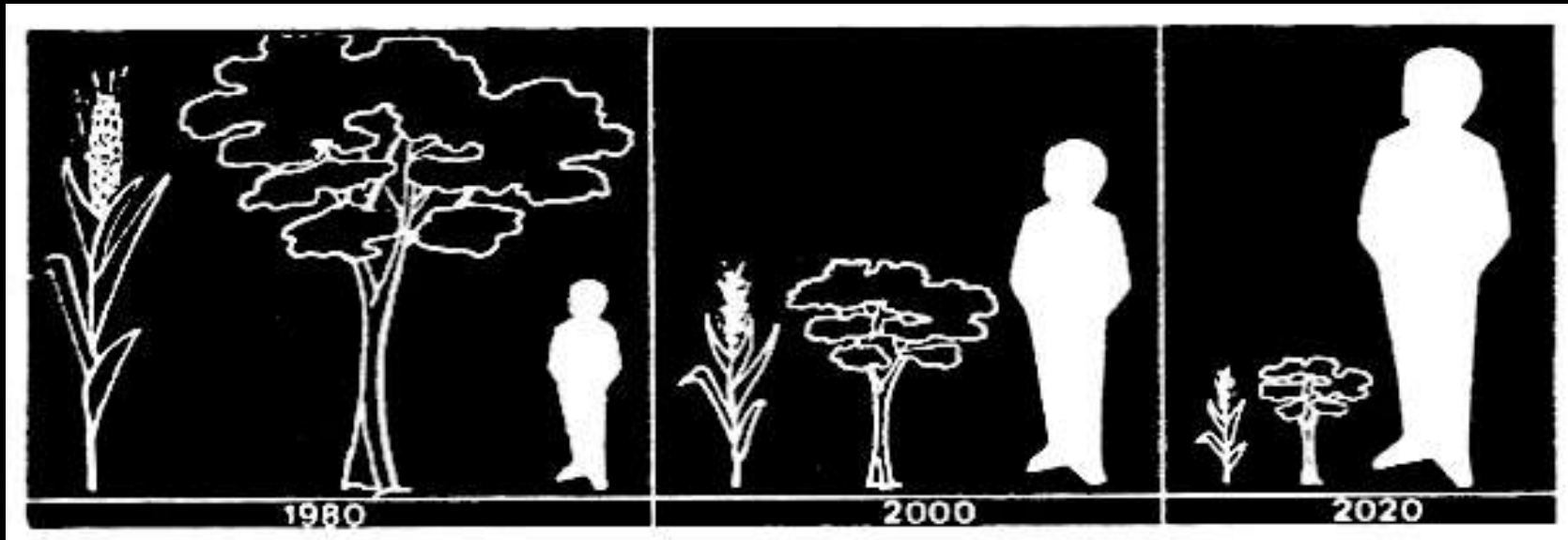


The international scientific community has been convened to address this question. And they have issued the *Millennium Ecosystem Assessment Report* (March 2005).



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.



[Course Utility Page](#)

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

[Harvard Extension School](#)

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

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

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

Copyright. ©. 2006, Timothy C. Weiskel

[Course Related Events](#)

[- Course Calendar - Fall 2006](#)

[- Class Videos](#)

Library Resources:

[- Harvard Library \(HOLLIS](#)

[Connection\)](#)

[- The Environmental Information](#)

[Center](#)

[- Environmental Science and](#)

[Public Policy Archives](#)

Class Resources

[Week 4](#)

[Week 3](#)


[Week 2](#)

[Week 1](#)



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



A portrait of Dr. Tim Weiskel, an older man with white hair, wearing a dark suit, white shirt, and red tie. He is seated on a light-colored sofa with a yellow cushion. The background is a light-colored wall with a subtle floral pattern.

Dr Tim Weiskel  
Research Director  
Cambridge Climate Research Associates  
Balliol College And Rhodes Scholar (1969)

"Tunisia: A Taste of the Future? Climate Change, Food Prices and Political Chaos"

"Fueling the Coming Revolutions: Climate Change, GMOs and the Ethanol vs. Food Conflict"



# The Globalization of Food Production: The Atlantic Plantation System and the Origins of Africa's Food Crisis



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

## NEWS

[▶ Watch](#) ONE-MINUTE WORLD NEWS

## News Front Page

[Africa](#)[Americas](#)[Asia-Pacific](#)[Europe](#)[Middle East](#)[South Asia](#)[UK](#)[Business](#)[Health](#)[Science & Environment](#)[Technology](#)[Entertainment](#)[Also in the news](#)[Video and Audio](#)[Programmes](#)[Have Your Say](#)[In Pictures](#)[Country Profiles](#)[Special Reports](#)[Related BBC sites](#)[Sport](#)[Weather](#)

Page last updated at 06:37 GMT, Sunday, 13 September 2009 07:37 UK

[✉ E-mail this to a friend](#)[🖨️ Printable version](#)

## 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



## News Front Page

[Africa](#)[Americas](#)[Asia-Pacific](#)[Europe](#)[Middle East](#)[South Asia](#)[UK](#)[Business](#)[Health](#)[Science & Environment](#)[Technology](#)[Entertainment](#)[Also in the news](#)[Video and Audio](#)[Programmes](#)[Have Your Say](#)[In Pictures](#)[Country Profiles](#)[Special Reports](#)[Related BBC sites](#)[Sport](#)[Weather](#)

Page last updated at 06:37 GMT, Sunday, 13 September 2009 07:37 UK

[E-mail this to a friend](#)[Printable version](#)

## 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?

A: Because of our fanciful understanding of the ecosystem.



## 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?

A: Because of our fanciful understanding of the ecosystem.



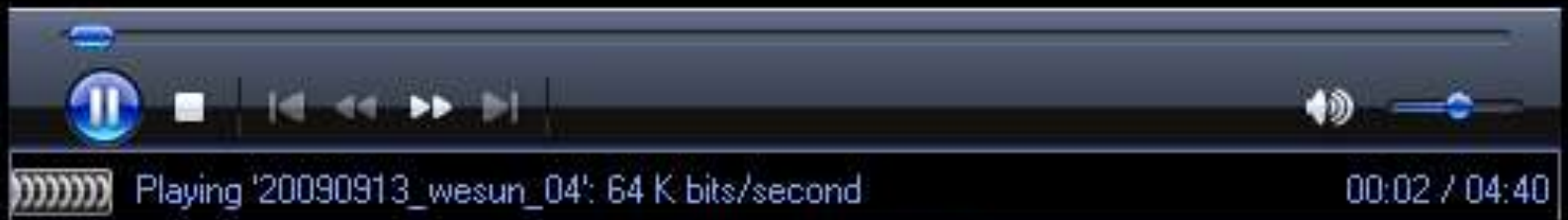
Borlaug won the Nobel Peace Prize and US Congressional Gold Medal

BBC

"Green Revolutionary  
Norman Borlaug Dies."

NPR News  
Weekend Edition, Sunday  
13 September 2009

"Agriculture pioneer Borlaug dies." BBC  
News Online, (13 September 2009 07:37  
UK 06:37 GMT, Sunday).



Click to Play, Pause, Stop

<http://www.climate-talks.net/2008->

[ENVRE130/Audio/20090913-NPR-Borlaug-dies.htm](http://www.climate-talks.net/2008-ENVRE130/Audio/20090913-NPR-Borlaug-dies.htm)





BBC, Newshour, 13  
September 2009

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

**Norman Borlaug**  
**(1914 – 2009)**

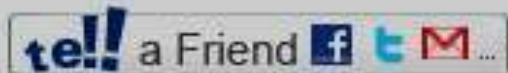


# Population Growth Requires Second Green Revolution

Norman Borlaug Interview



Norman Borlaug accepting Congressional Gold Medal from President George W. Bush (July 17, 2007)

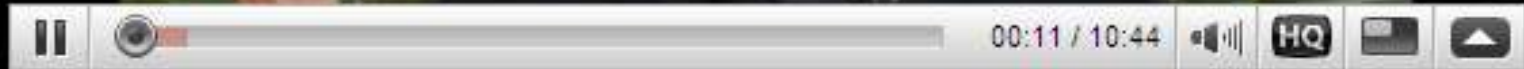


Norman Borlaug (March 25, 1914 - September 12, 2009) is known as the father of the Green Revolution.

His work with high-yield, disease-resistant wheat varieties is credited with saving as many as a billion people from starvation worldwide.

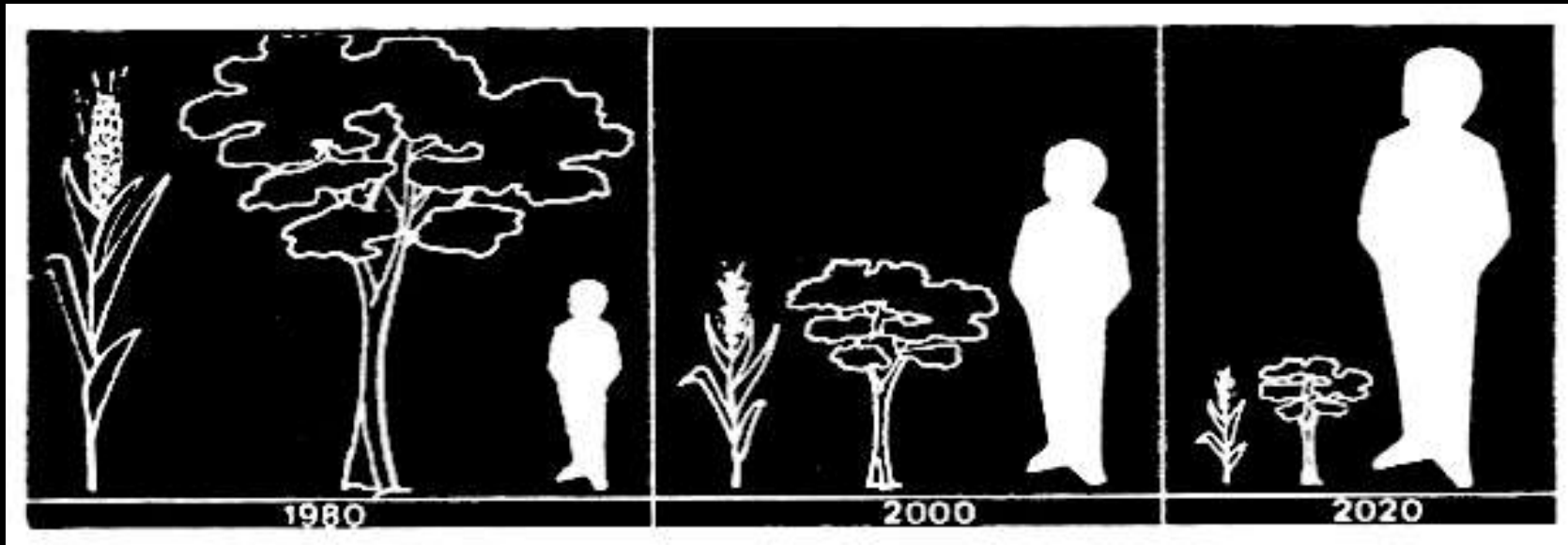
Borlaug was awarded the Nobel Peace Prize in 1970 in recognition of

his contributions to world peace through increasing food supply.



"Greatest Man to Ever Live: Norman Borlaug."  
YouTube - CommonReason, (13 September 2009).

<http://www.climate-talks.net/2008-ENVRE130/Video/20090913-YouTube-Borlaug-Promoter.htm>



Clearly the most basic problem of environmental ethics in Western civilization is that

We have largely ‘forgotten’ (and it may be that many of our leaders never knew) the basic ecological insight about our collective “niche” as a species in the global ecosystem.



[Home](#) / [Nobel Prizes](#) / [Nobel Peace Prize](#) / [Norman Borlaug - Biography](#)[About the Nobel Prizes](#)[Facts and Lists](#)[Nobel Prize in Physics](#)[Nobel Prize in Chemistry](#)[Nobel Prize in Medicine](#)[Nobel Prize in Literature](#)**[Nobel Peace Prize](#)**[All Nobel Peace Prizes](#)[Facts on the Nobel Peace Prize](#)[Prize Awardee for the Nobel Peace Prize](#)[Nomination and Selection of Peace Laureates](#)[Nobel Peace Prize Medal](#)[Articles in Peace](#)[Video Nobel Lectures](#)[Prize in Economic Sciences](#)[Nobel Laureates Have Their Say](#)[Nobel Prize Award Ceremonies](#)[Nomination and Selection of Nobel Laureates](#) [Printer Friendly](#) [Share](#) [Tell a Friend](#) [Comments](#)

## The Nobel Peace Prize 1970 Norman Borlaug

[The Nobel Peace Prize 1970](#)[Norman Borlaug](#)

## Biography



A central figure in the "green revolution", **Norman Ernest Borlaug** (March 25, 1914- ) was born on a farm near Cresco, Iowa, to Henry and Clara Borlaug. For the past twenty-seven years he has collaborated with Mexican scientists on problems of wheat improvement; for the last ten or so of those years he has also collaborated with scientists from other parts of the world, especially from India and Pakistan, in adapting the new wheats to new lands and in gaining acceptance for their production. An eclectic, pragmatic, goal-oriented scientist, he accepts and discards methods or results in a constant search for more fruitful and effective ones, while at the same time avoiding the pursuit of what he calls "academic butterflies". A vigorous man who can perform prodigies of manual labor in the fields, he brings to his work the body and competitive spirit of the trained athlete, which indeed he was in his high school and college days.

RELATED DOCUMENTS:

### ARTICLE



PEACE

#### The Nobel Peace Prize

[→ Read more about the](#)[Nobel Peace Prize during its first 100 years](#)

RECOMMENDED:

### FACTS AND LISTS



NOBEL PRIZES

#### Who Are the 2010 Nobel Laureates?

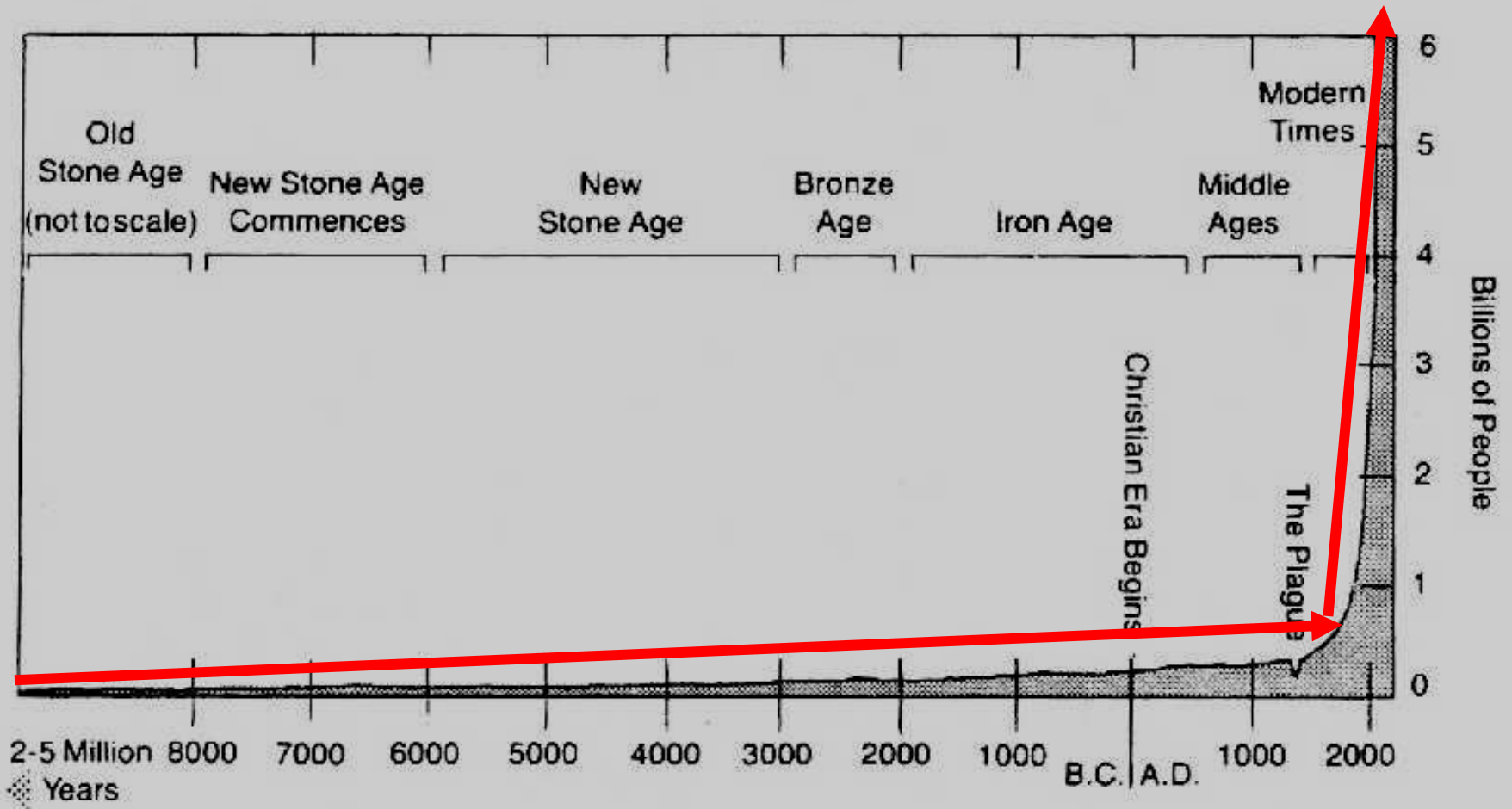
[→ See a list of the eleven](#)[Nobel Laureates of 2010](#)

### HAVE YOUR SAY!

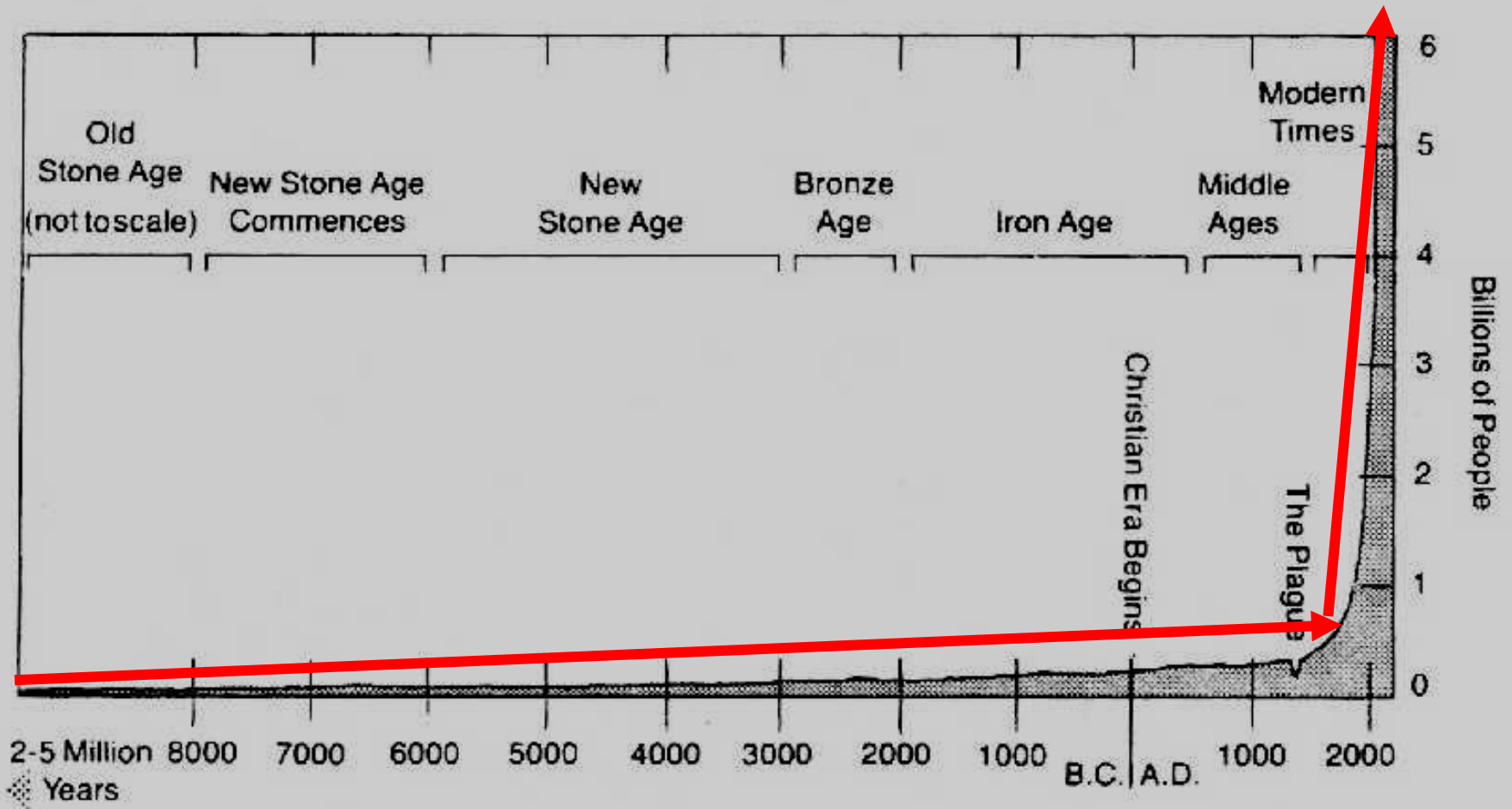


What do you hope to achieve in the future?

# World Population Growth Through History

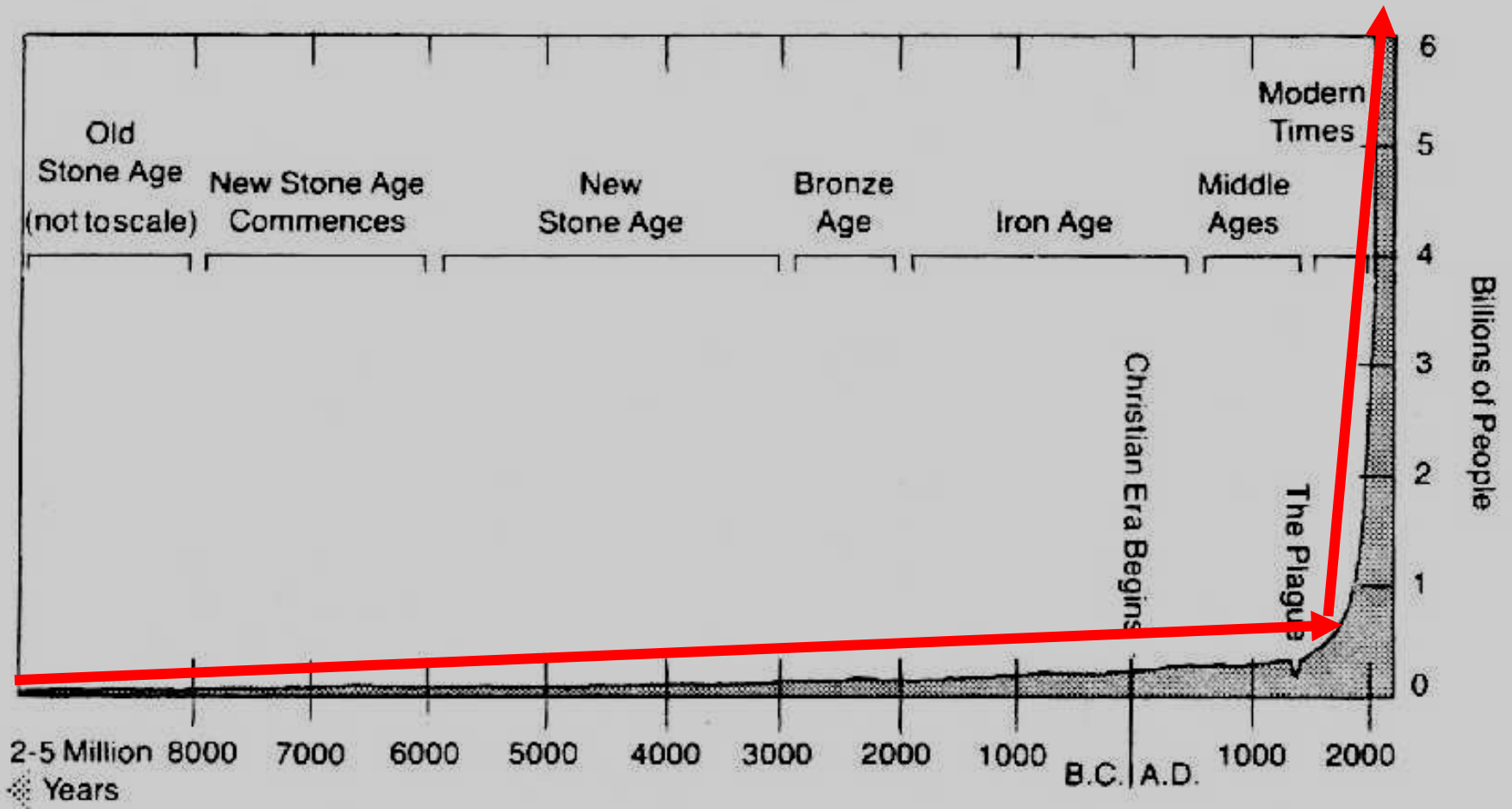


# World Population Growth Through History

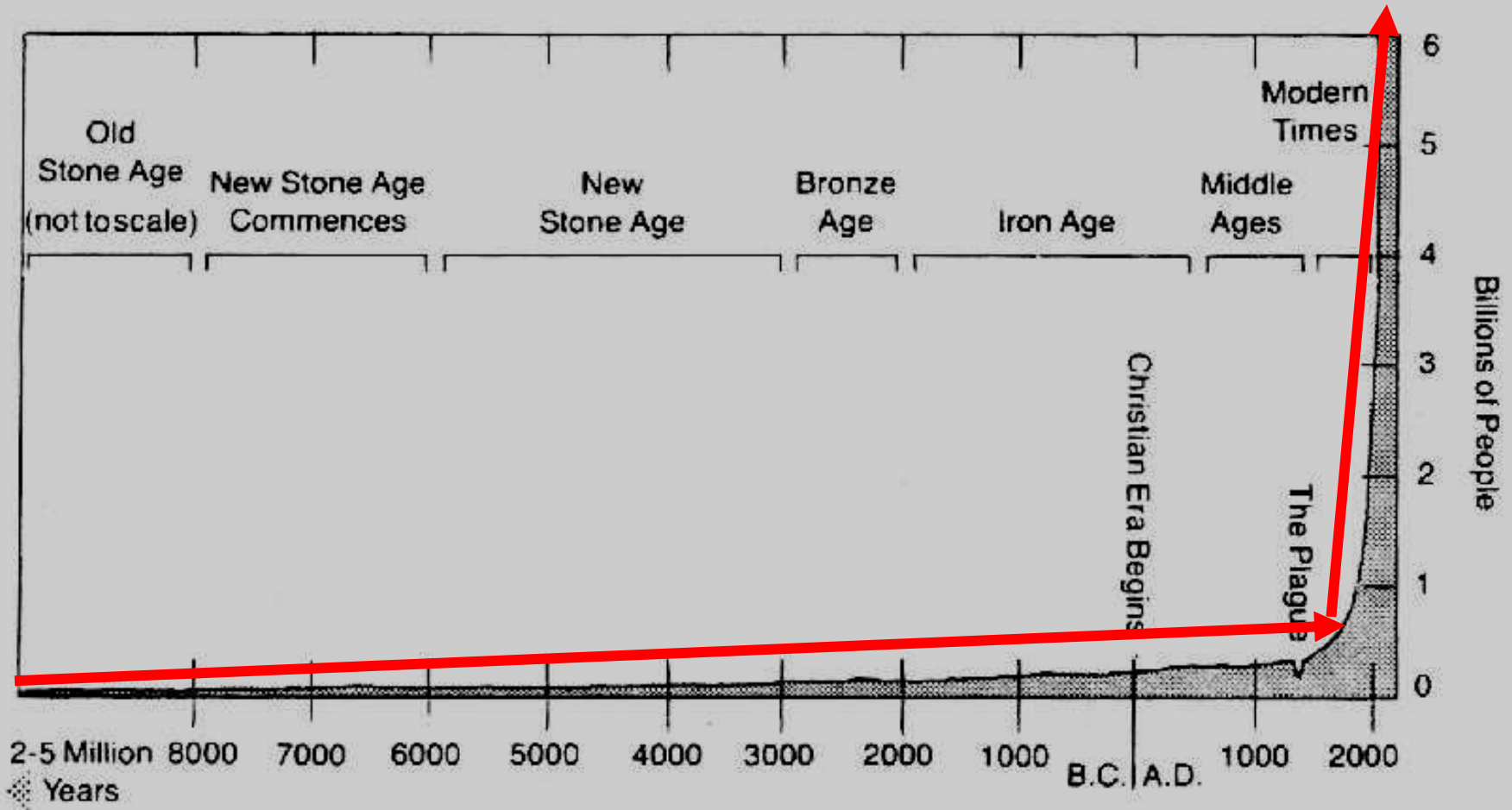




# World Population Growth Through History

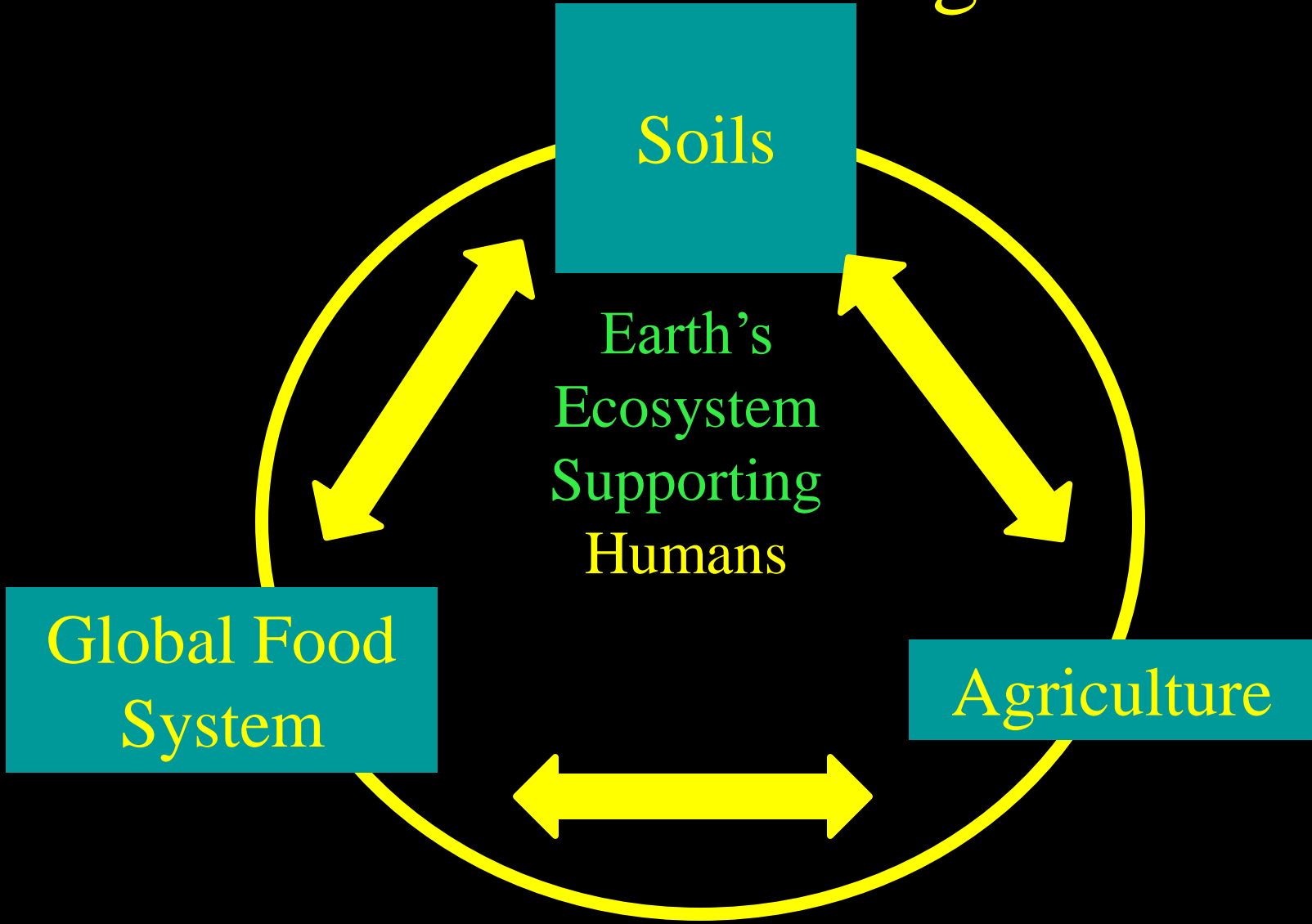


# World Population Growth Through History

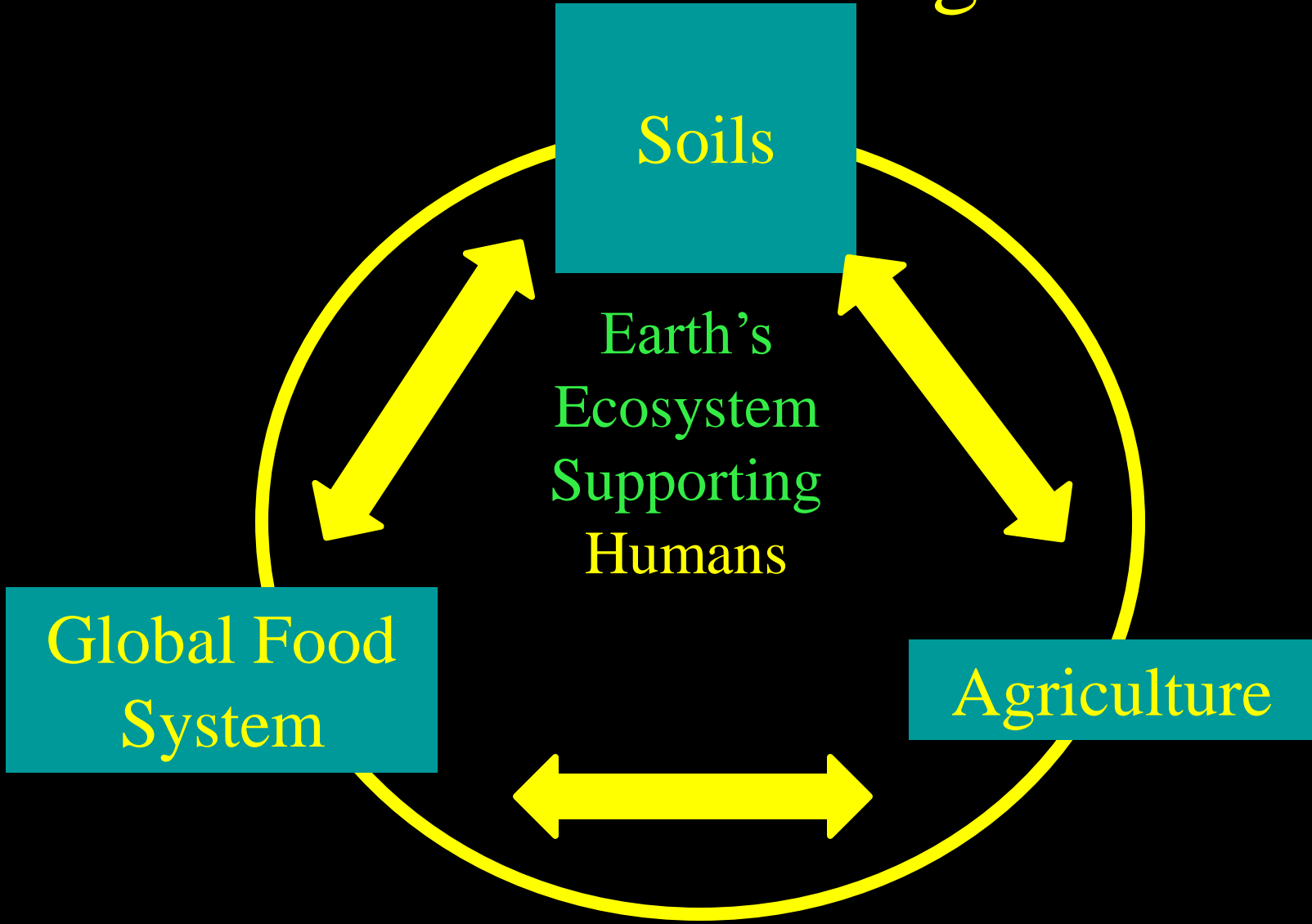


Never before...and never again.

# Climate Change



# Climate Change



# Climate Change

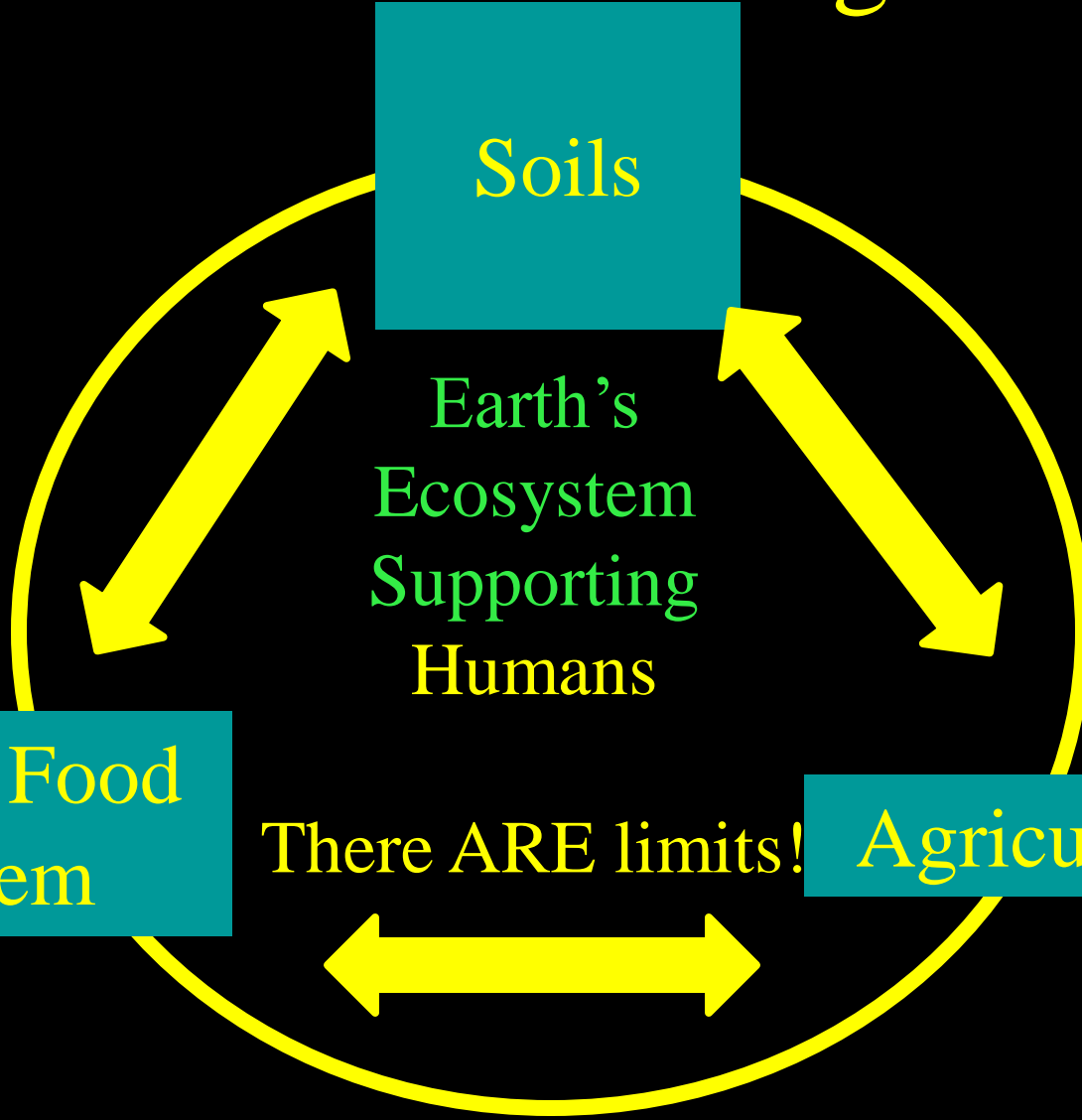
Soils

Earth's  
Ecosystem  
Supporting  
Humans

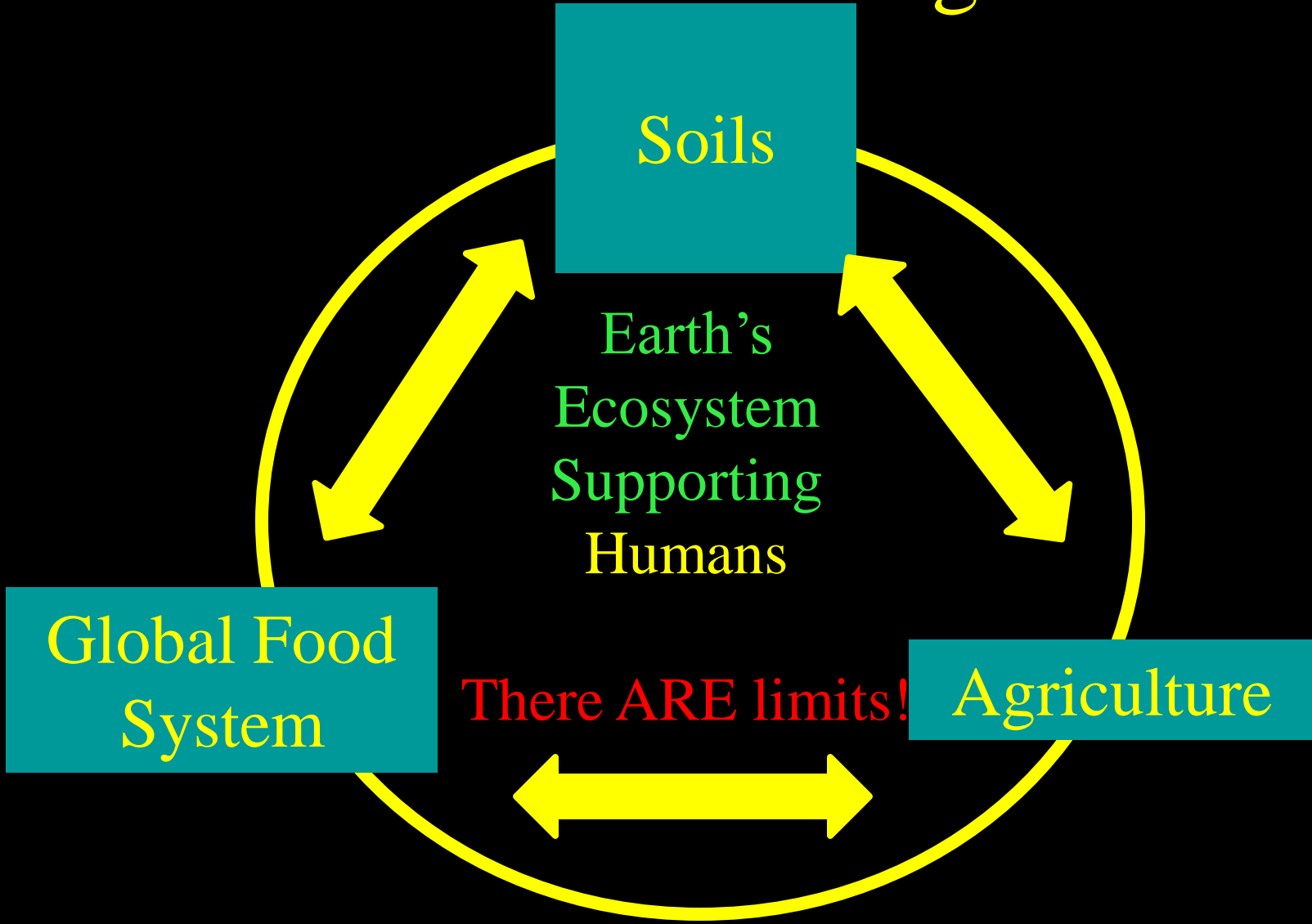
Global Food  
System

There ARE limits!

Agriculture



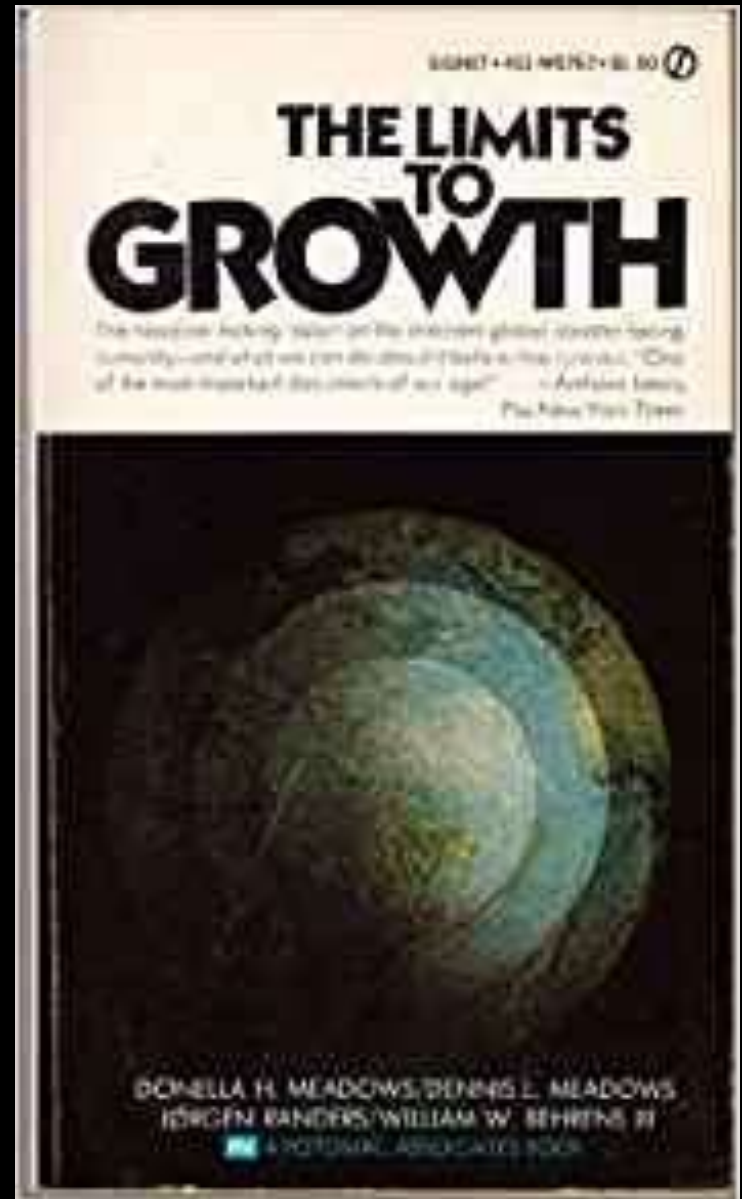
# Climate Change



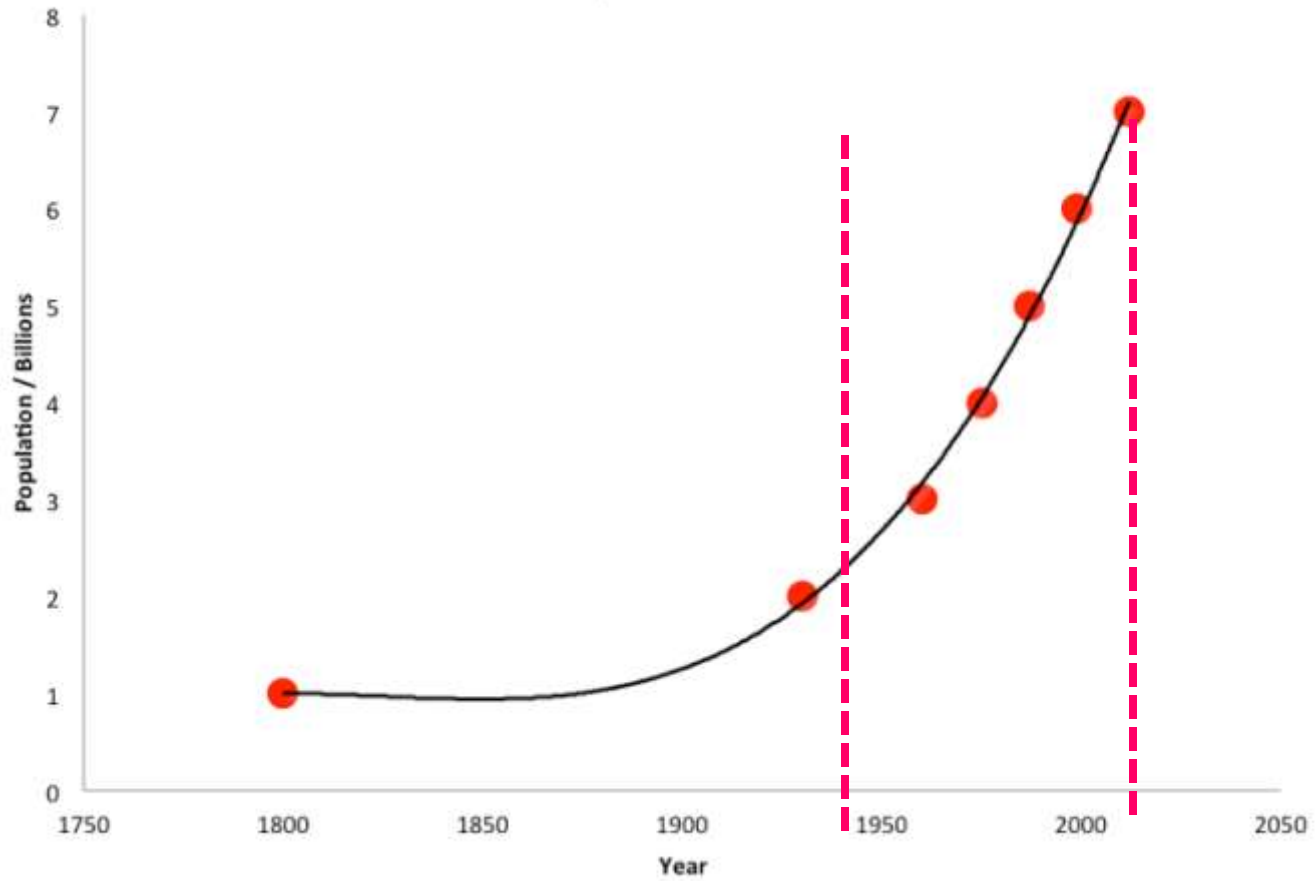


This was clearly demonstrated to the modern world by a group of MIT scientists who issued a Report to the Club of Rome in 1972 entitled,

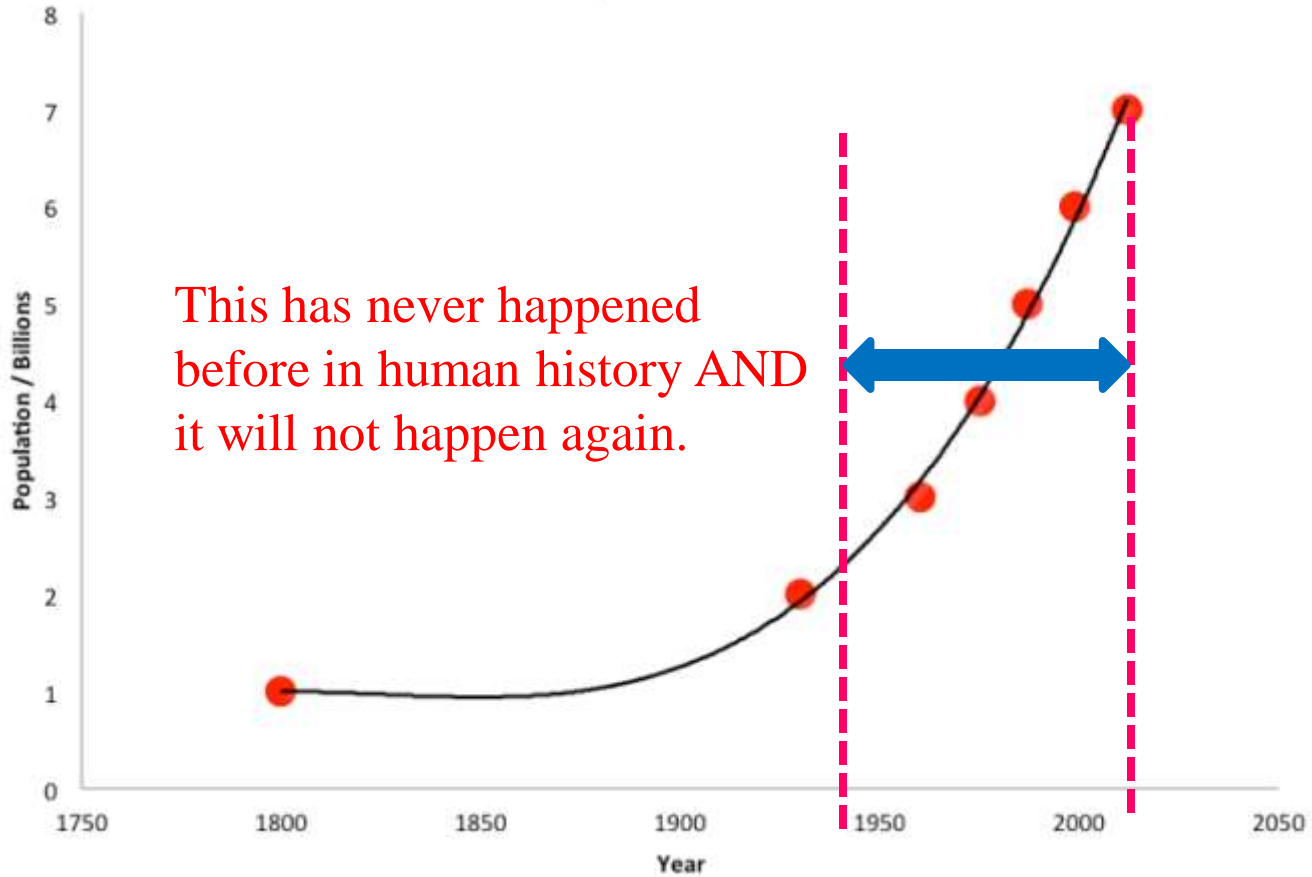
“The Limits to Growth”



## Human Population Growth



## Human Population Growth



This has never happened  
before in human history AND  
it will not happen again.

Never before AND never again...



<https://environmentaljustice.tv.wordpress.com/2012/08/16/people-and-planet-speech-only/>

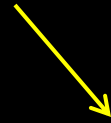


Norman Borlaug addressed the

The “Food” Problem

Norman Borlaug addressed the

The “Food” Problem

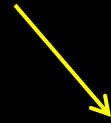


... but we have come to understand that  
this is only part of:

**The Food/Population Problem**

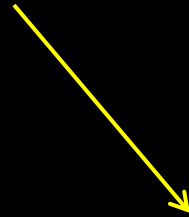
Norman Borlaug addressed the

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:

**The Food/Population/Environment Problem**

(This Requires a Paradigm Shift)

A portrait of Dr. Tim Weiskel, an older man with white hair, wearing a dark suit, white shirt, and a patterned tie. He is seated on a light-colored sofa with a floral pattern. A blue text box is overlaid on the bottom left of the image.

Dr Tim Weiskel  
Research Director  
Cambridge Climate Research Associates  
Balliol College And Rhodes Scholar (1969)

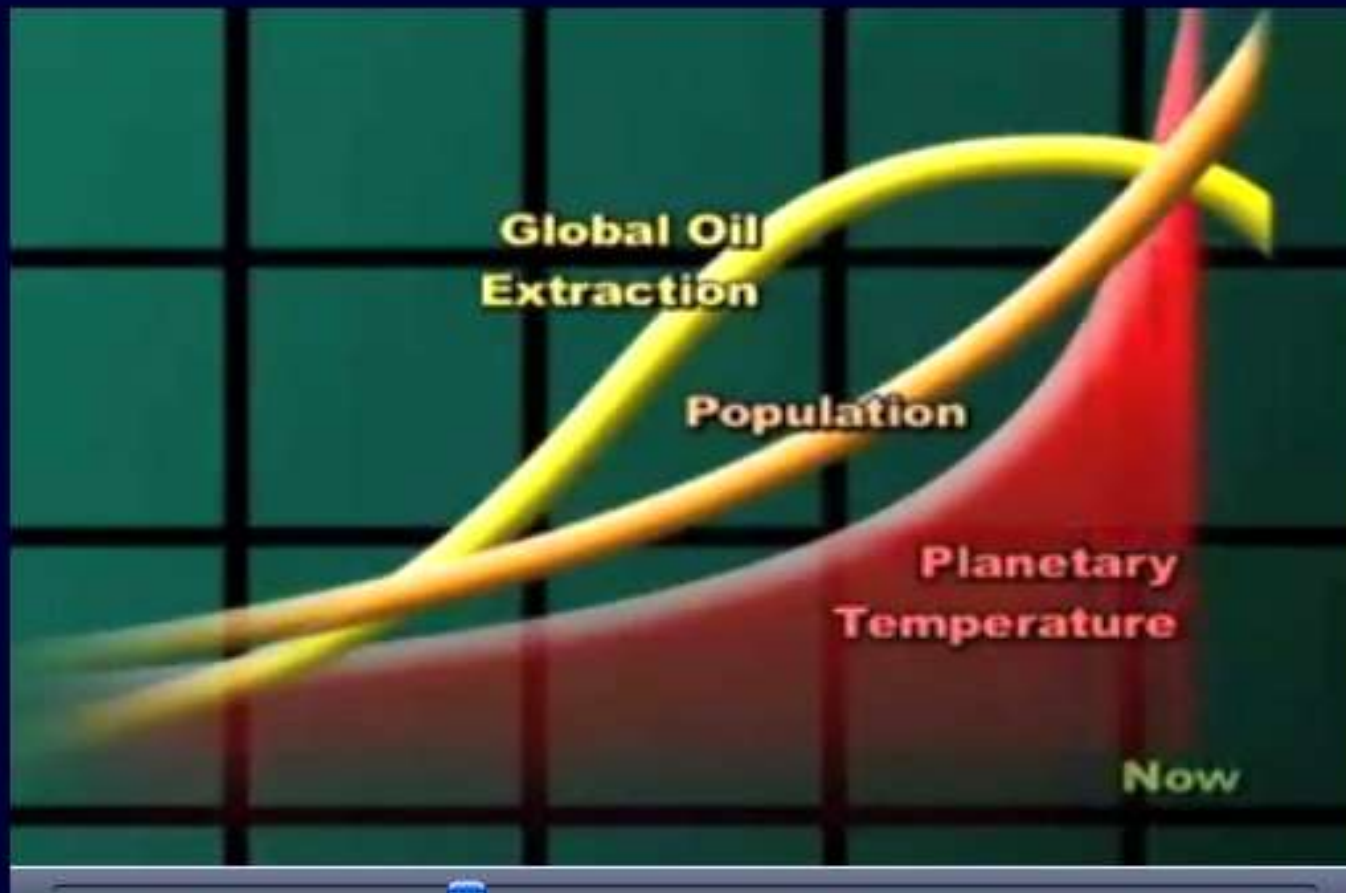


## Norman Borlaug (1914 – 2009)

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?





If they cannot make this needed paradigm shift – if we cannot collectively make that shift – then, we can expect some very rude and costly disruptions in the global food system in the relatively near future.

Consider the “conversion experience” –the “epiphanal experience” described by Ray Anderson....



<http://www.youtube.com/watch?v=-hG-c1KY7Y4&feature=PlayList&p=FA50FBC214A6CE87&index=7>  
<http://youtu.be/-hG-c1KY7Y4?t=4m41s>

“...people like me should be in jail....”



<http://www.youtube.com/watch?v=-hG-c1KY7Y4&feature=Playlist&p=FA50FBC214A6CE87&index=7>

Which of these two gentlemen is closer to understanding the ecology & *ethics of sustainability*?



Norman Borlaug

Which of these two gentlemen is closer to understanding the ecology & *ethics of sustainability*?



Norman Borlaug

OR



Ray Anderson

*...blog on.*



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

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



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

In the middle of the 20<sup>th</sup> century – *largely following the 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 does this mean for the ethics of agriculture?

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

In the middle of the 20<sup>th</sup> century – *largely following the 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 does this mean for the ethics of agriculture?

# How Biofuels Could Starve the Poor | Foreign Affairs

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



By [C. Ford Runge](#) and [Benjamin Senauer](#)

THE ETHANOL BUBBLE



# The New Food Wars: Globalization GMOs and Biofuels

Posted on [February 9, 2017](#) | [Leave a comment](#) | [Edit](#)



[University of California Television \(UCTV\)](#)



**act:onaid**



**Mandating Hunger: The  
Impacts of Global Biofuels  
Mandates and Targets**



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

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



# Ethiopia's land rush: Feeding the world – John Vidal

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





# 'Land-grab' for food security - 18 Nov 09

AlJazeeraEnglish

24,920 videos



Subscribed



**NASSER MOHAMED AL-HAJRI**  
HASSAD FOOD, QATAR

1:16 / 5:33 360p

## Answers to the global food crisis

etalkstv

13 videos



Subscribe

**Finance and hunger:  
Speculation on food and  
(mis)investment in agriculture  
(land grabbing)**





# Answers to the global food crisis

etalkstv

13 videos



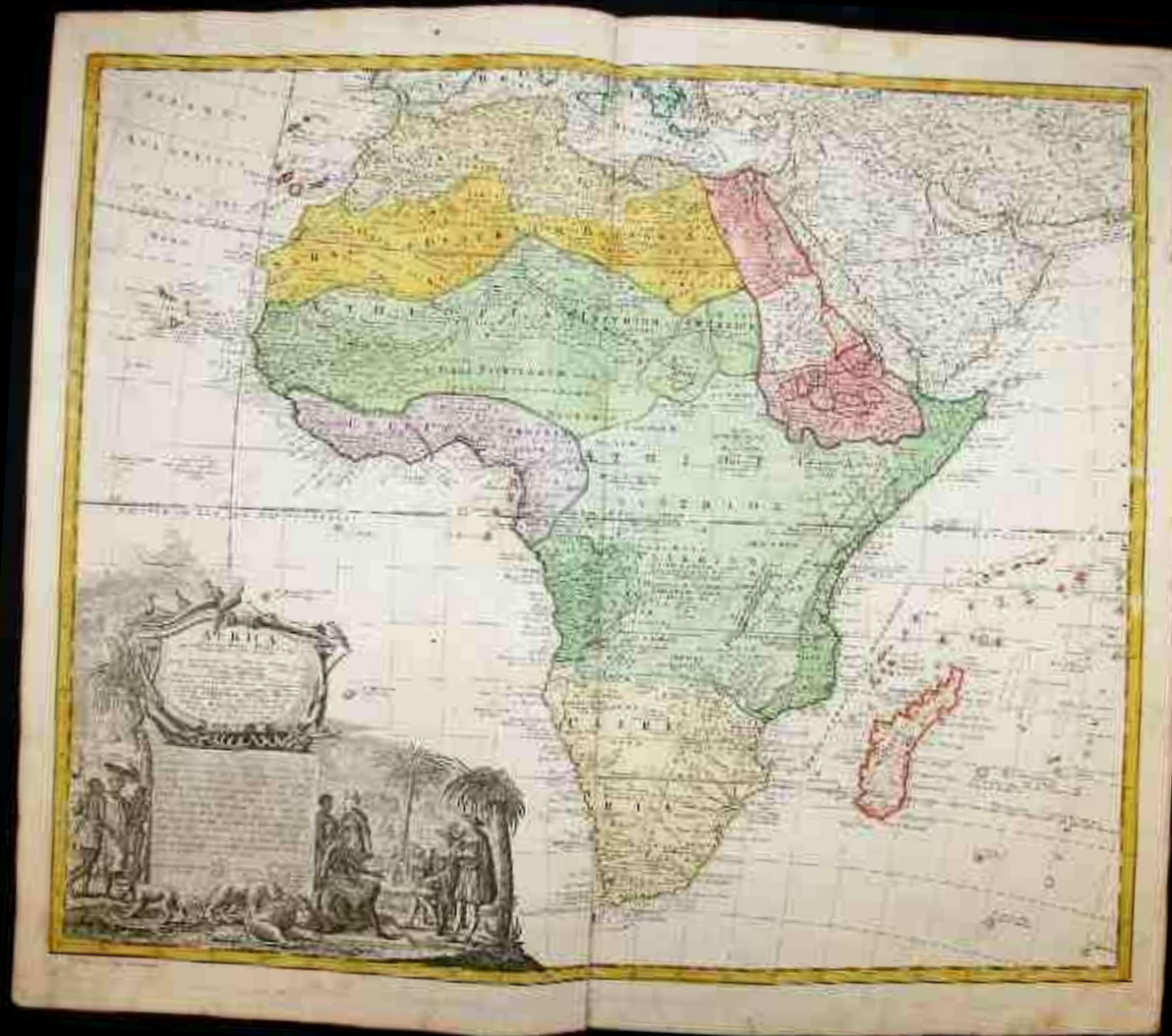
Subscribe



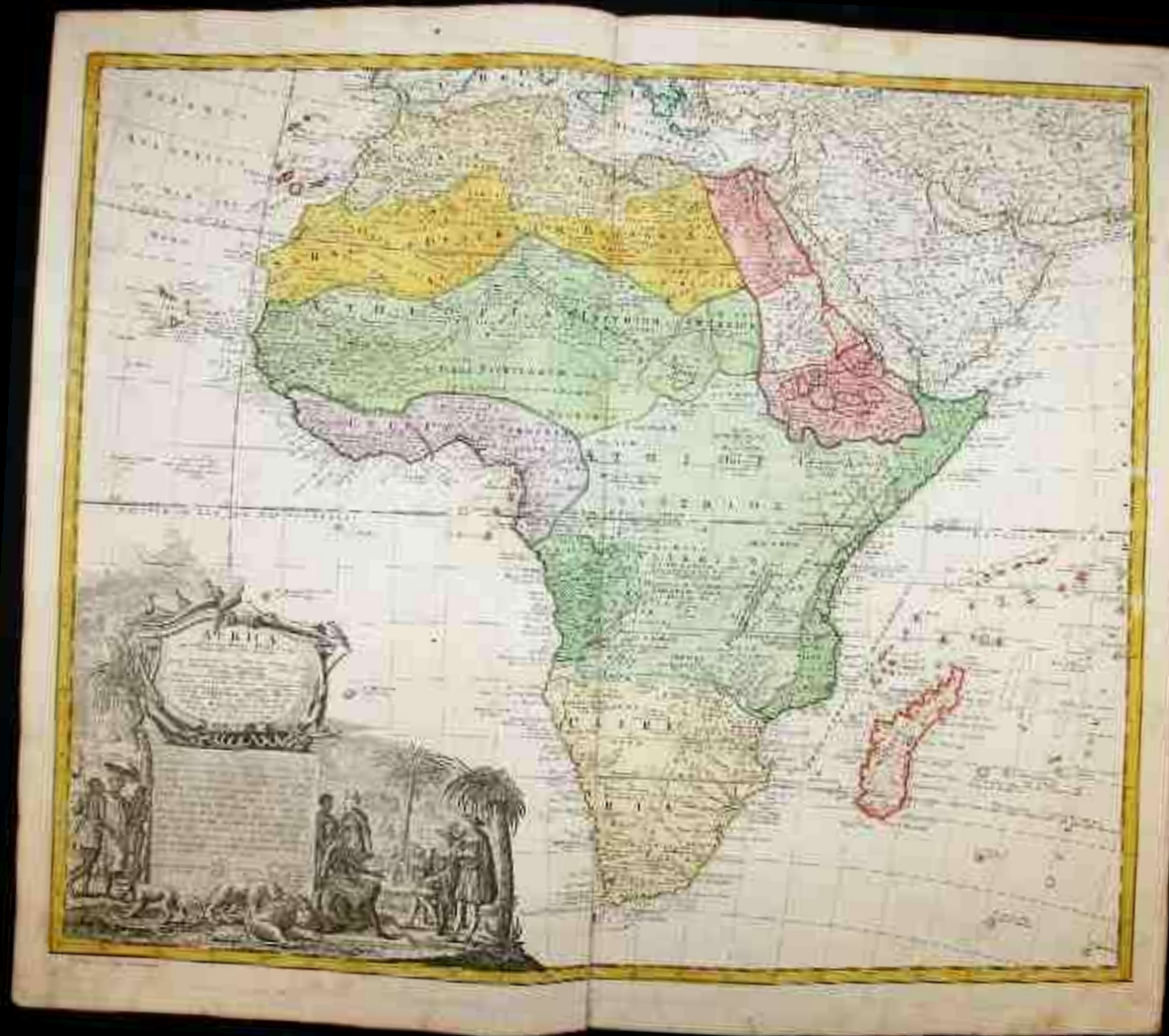
Anuradha Mittal



# Chapters in African Agricultural History: Much Needed New Investment? Or “Neo-Colonial” Land Grab?



Chapters in African Agricultural History: **Much Needed  
New Investment?** Or **‘Neo-Colonial’ Land Grab?**





# ETHICS & THE UNIVERSITY ENDOWMENT:

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, **Founder of the Oakland Institute**

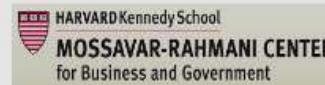


Board Members of the Oakland Institute will discuss findings of their recent report on how European hedge funds have made large scale investments in African land, resulting in food insecurity, displacement of small farmers, environmental devastation, and further impoverishment and political instability of African nations.

**Thursday, November 3<sup>rd</sup>, 2011**  
**4:30 – 6 PM | Ticknor Lounge**  
***Refreshments served***

Sponsored by **The Harvard College Social Responsibility Trust**

Co-Sponsored by **The HKS Business & Government Professional Interest Council**



# ETHICS & THE UNIVERSITY ENDOWMENT:

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, Founder of the Oakland Institute



# ETHICS & THE UNIVERSITY ENDOWMENT:

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, Founder of the Oakland Institute





## ETHICS & THE UNIVERSITY ENDOWMENT:

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, Founder of the Oakland Institute



Board Members of the Oakland Institute will discuss findings of their recent report on how European hedge funds have made large scale investments in African land, resulting in food insecurity, displacement of small farmers, environmental devastation, and further impoverishment and political instability of African nations.

## ETHICS & THE UNIVERSITY ENDOWMENT:

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, Founder of the Oakland Institute



Board Members of the Oakland Institute will discuss findings of their recent report on how European hedge funds have made large scale investments in African land, resulting in food insecurity, displacement of small farmers, environmental devastation, and further impoverishment and political instability of African nations.



## US universities in Africa 'land grab'

# US universities in Africa 'land grab'

Institutions including Harvard and Vanderbilt reportedly use hedge funds to buy land in deals that may force farmers out



US universities are reportedly using endowment funds to make deals that may force thousands from their land in Africa. Photograph: Boston Globe via Getty Images

Harvard and other major American universities are working through British [hedge funds](#) and European financial speculators to buy or lease vast areas of African farmland in deals, some of which may force many thousands of people off their land, according to a new study.

# **ETHICS & THE UNIVERSITY ENDOWMENT:**

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, **Founder of the Oakland Institute**



**Thursday, November 3<sup>rd</sup>, 2011**  
**4:30 – 6 PM | Ticknor Lounge**

**Boyleston Hall**  
**Harvard Yard**

# **ETHICS & THE UNIVERSITY ENDOWMENT:**

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, **Founder of the Oakland Institute**



**Thursday, November 3<sup>rd</sup>, 2011**  
**4:30 – 6 PM | Ticknor Lounge**

**Boyleston Hall**  
**Harvard Yard**



# **ETHICS & THE UNIVERSITY ENDOWMENT:**

Are University Endowments Investing in **Land Grabs in Africa?**

A Conversation featuring Anuradha Mittal, **Founder of the Oakland Institute**



**Thursday, November 3<sup>rd</sup>, 2011**  
**4:30 – 6 PM | Ticknor Lounge**

**Boyleston Hall**  
**Harvard Yard**

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 do it for you.

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 do it for you.

Higher education is your last best chance....That's what it is for. It can prepare you for the paradigm shifts that you will have to undertake in your own life...

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




# The Right to Food Is a Basic Human Right – WHES – World Hunger News

Posted on [October 11, 2018](#) | [Leave a comment](#) | [Edit](#)


The screenshot shows the top navigation bar of the Hunger Notes website with categories: Global, United States, Africa, Asia, Agriculture & Nutrition, Books & Media Reviews, and Opinions. Below this is the Hunger Notes logo with the tagline 'Fight Hunger with Knowledge' and a search bar. A secondary navigation bar contains links for 'About WHES & Hunger Notes', 'Learn About Hunger', 'Help Reduce Hunger', 'Take a Hunger Quiz', 'Become a Supporter', 'Contact', and 'Donate'. The main content area features the breadcrumb 'Home > Special Report: The Right to Food Is a Basic Human Right' and the article title 'SPECIAL REPORT: THE RIGHT TO FOOD IS A BASIC HUMAN RIGHT'. A short introductory paragraph follows, dated February 8, 2009, and a note that the report is divided into sections.




HUNGER NEWS CATEGORIES |

[Global](#) | [United States](#) | [Africa](#) | [Asia](#) | [Agriculture & Nutrition](#) | [Books & Media Reviews](#) | [Opinions](#)

 Fight Hunger with Knowledge

**Hunger Notes**

Search 

[Join Us](#)  [Follow Us](#)  [Find Us](#) 

[About WHES & Hunger Notes](#) | [Learn About Hunger](#) | [Help Reduce Hunger](#) | [Take a Hunger Quiz](#) | [Become a Supporter](#) | [Contact](#) | [Donate](#)

Home > Special Report: The Right to Food Is a Basic Human Right

## SPECIAL REPORT: THE RIGHT TO FOOD IS A BASIC HUMAN RIGHT

(February 8, 2009) This is a special Hunger Notes report on the right to food. Why shouldn't people have enough food, earned in the usual case by working, to keep themselves alive and alert? A very reasonable goal, but one which is far from being met, though there has been significant progress in the past 50 years. This report examines both the progress and the frustrations.

It is divided into the following sections.



[Home](#) > [Conflict: A Cause and Effect of Hunger](#) by Ellen Messer, Marc J. Cohen, Jashinta D'Costa

## CONFLICT: A CAUSE AND EFFECT OF HUNGER BY ELLEN MESSER, MARC J. COHEN, JASHINTA D'COSTA

[Conflict: A Cause and Effect of Hunger](#) by Ellen Messer, Marc J. Cohen, Jashinta D'Costa



Photo: Martin Lueders

Sarajevo 1997. This cemetery was once a field where people played. At the start of war in the former Yugoslavia in 1992, the Serbian government attacked Sarajevo, the Bosnian Capital. The 43-month siege and artillery bombardment killed civilians, separated families and made daily life a matter of survival.

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

Where you stand matters,  
because you will find that if  
you don't stand for something  
you can fall for anything...

# Bayer Buys Monsanto: Two Deadly Corporations Now Become One

Posted on [September 21, 2016](#) | [Leave a comment](#)





# Monsanto: The Company that Owns the World's Food Supply

Posted on [August 1, 2018](#) | [Leave a comment](#) | [Edit](#)





# Consider Africa's Agricultural Circumstance.

The Current trend in  
African Agricultural History:

Are We Witnessing  
Much Needed New Investment?  
Or "Neo-Colonial"  
Land Grab?

# Are There Alternatives?

## Beyond The "Green Revolution:" The Current Paradigm Shift in Global Agricultural Science

# Food MythBusters — Do we really need industrial agriculture to feed the world?

Posted on [November 12, 2012](#) | [Leave a comment](#) | [Edit](#)



Published on Oct 24, 2012 by [RealFoodMediaProject](#)

Boston U. MET ML 720  
Food Policy & Food Systems

Fall, 2018 - Prof. E. Messer

Week 10 - (November 13)

**Biofuels, Land Grabs, and the Right to Food:**  
The Legacy of Colonialism and the Evolution of  
the Global Food System



Timothy C. Weiskel

Cambridge Climate Research Associates (CCRA)

Transition-Studies.Net & Food-Matters.TV

13 November 2018