

Ateneo de Manila University

Archium Ateneo

Magisterial Lectures

Arete

7-14-2020

Pathways of Hope

Jose Ramon T. Villarin

Follow this and additional works at: <https://archium.ateneo.edu/magisterial-lectures>



Part of the [Physics Commons](#)

ATENEO

Magisterial
Lecture SERIES

ATENEO
Magisterial
Lecture SERIES

*THE POPE, THE POOR
AND THE PLANET:
Overcoming Insularity Via
An Integral Ecology*

FR JOSE RAMON T VILLARIN, SJ
DEPARTMENT OF PHYSICS
ATENEO DE MANILA UNIVERSITY

THE POPE, THE POOR, & THE PLANET

Overcoming Insularity Via An Integral Ecology

FR JOSE RAMON T VILLARIN, SJ

DEPARTMENT OF PHYSICS

ATENEEO DE MANILA UNIVERSITY

OUTLINE

- The complexity of the crisis: a climate example
- Roots of the crisis
- Our response and some pathways of hope
- Ten simple steps

THE EXPONENTIAL (COMPOUNDING GROWTH / DECAY)

$$dx/dt = r \cdot x$$

In English:

Change of some thing in time depends on how much of that thing you have right now.

THE EXPONENTIAL (COMPOUNDING GROWTH / DECAY)

$$\frac{dx}{dt} = r \cdot x$$
$$x(t) = x(t_0)e^{(r \cdot t)}$$

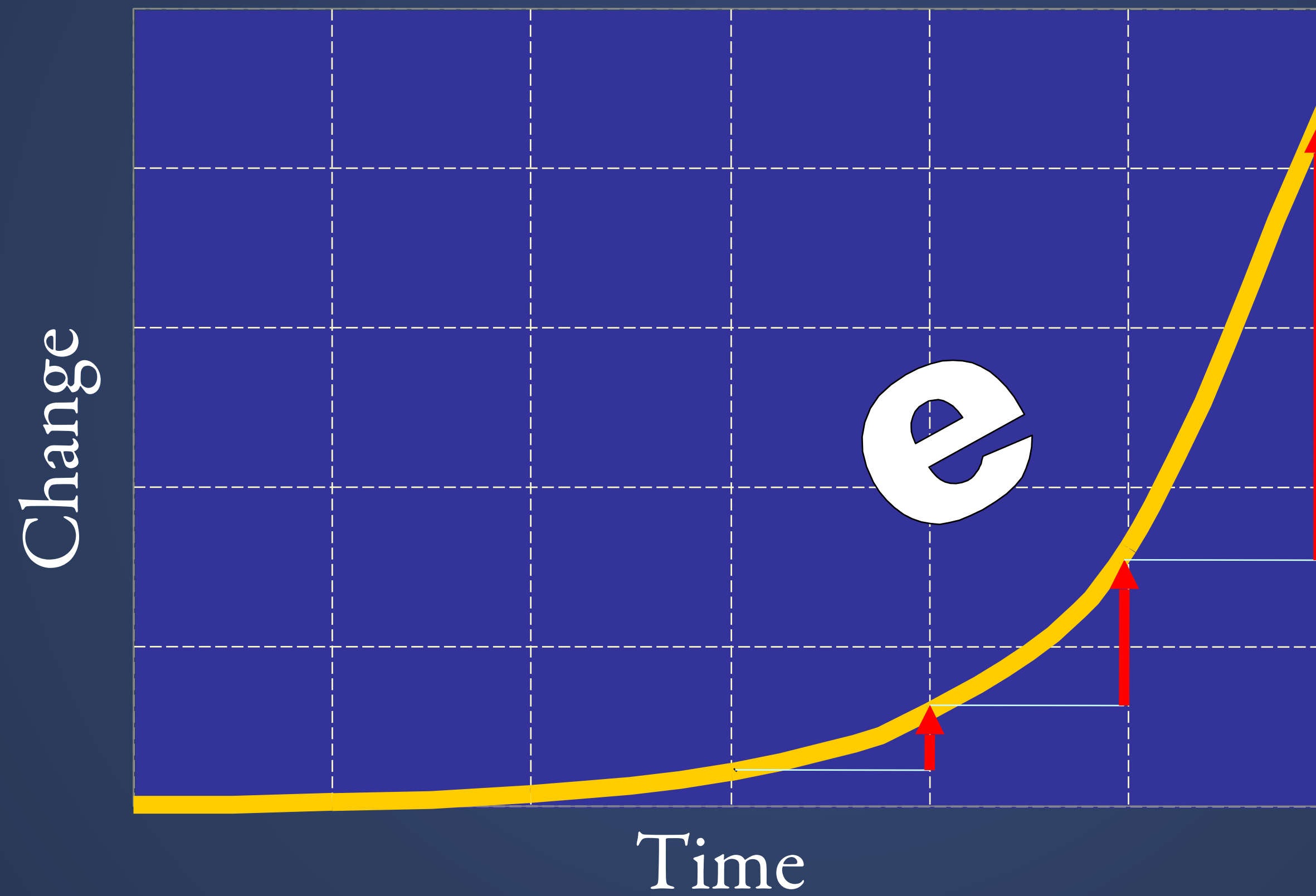
In English:

In growing, things grow slowly at the start
and grow more rapidly later.

(In decaying, things decay rapidly at the start
And decay more slowly later.)

THE EXPONENTIAL (COMPOUNDING GROWTH / DECAY)

The Exponential

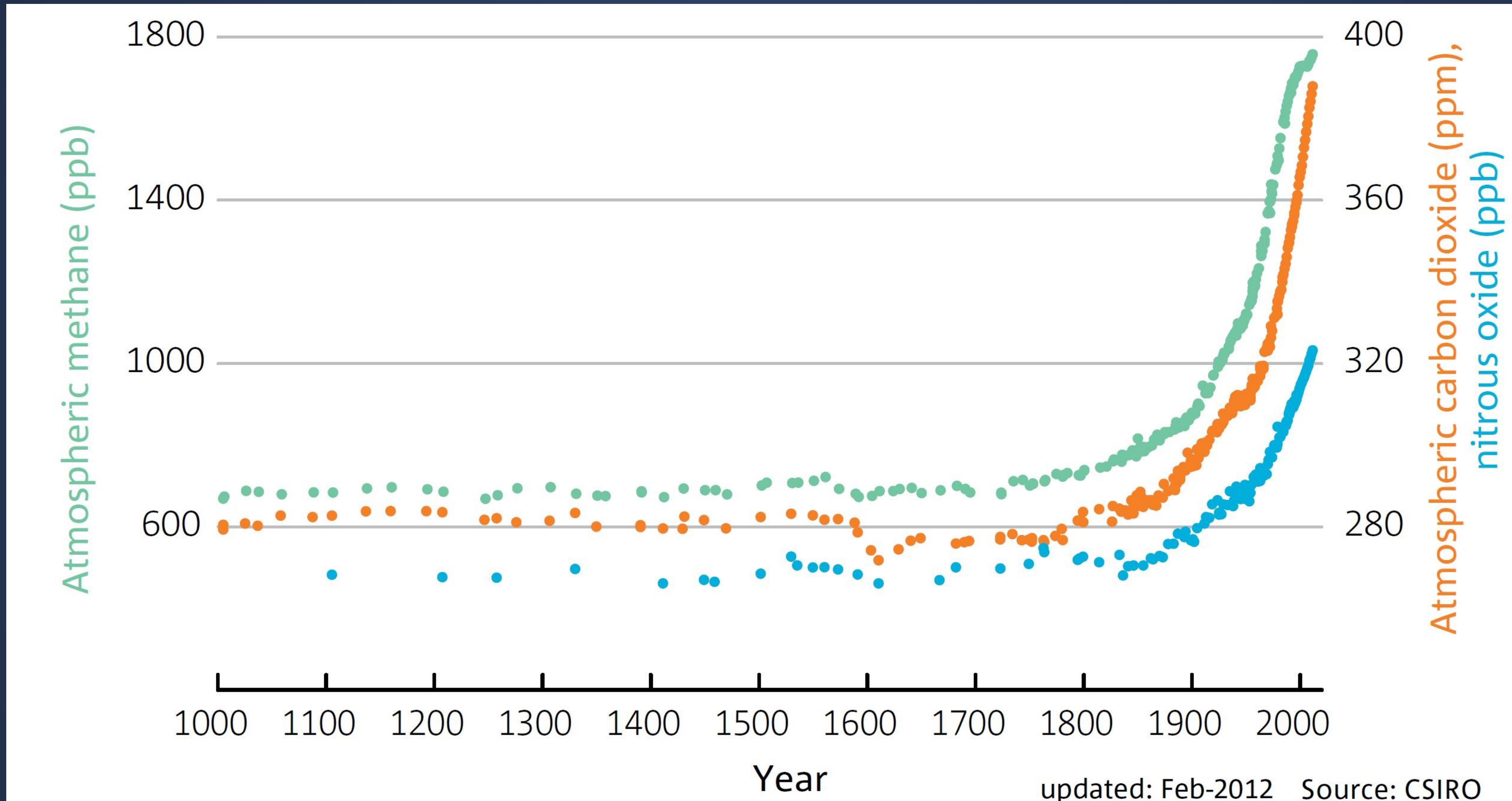


EXPONENTIAL GROWTH OF GHGs

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATeneo
*Magisterial
Lecture* SERIES

Exponential Growth of GHGs



updated: Feb-2012 Source: CSIRO

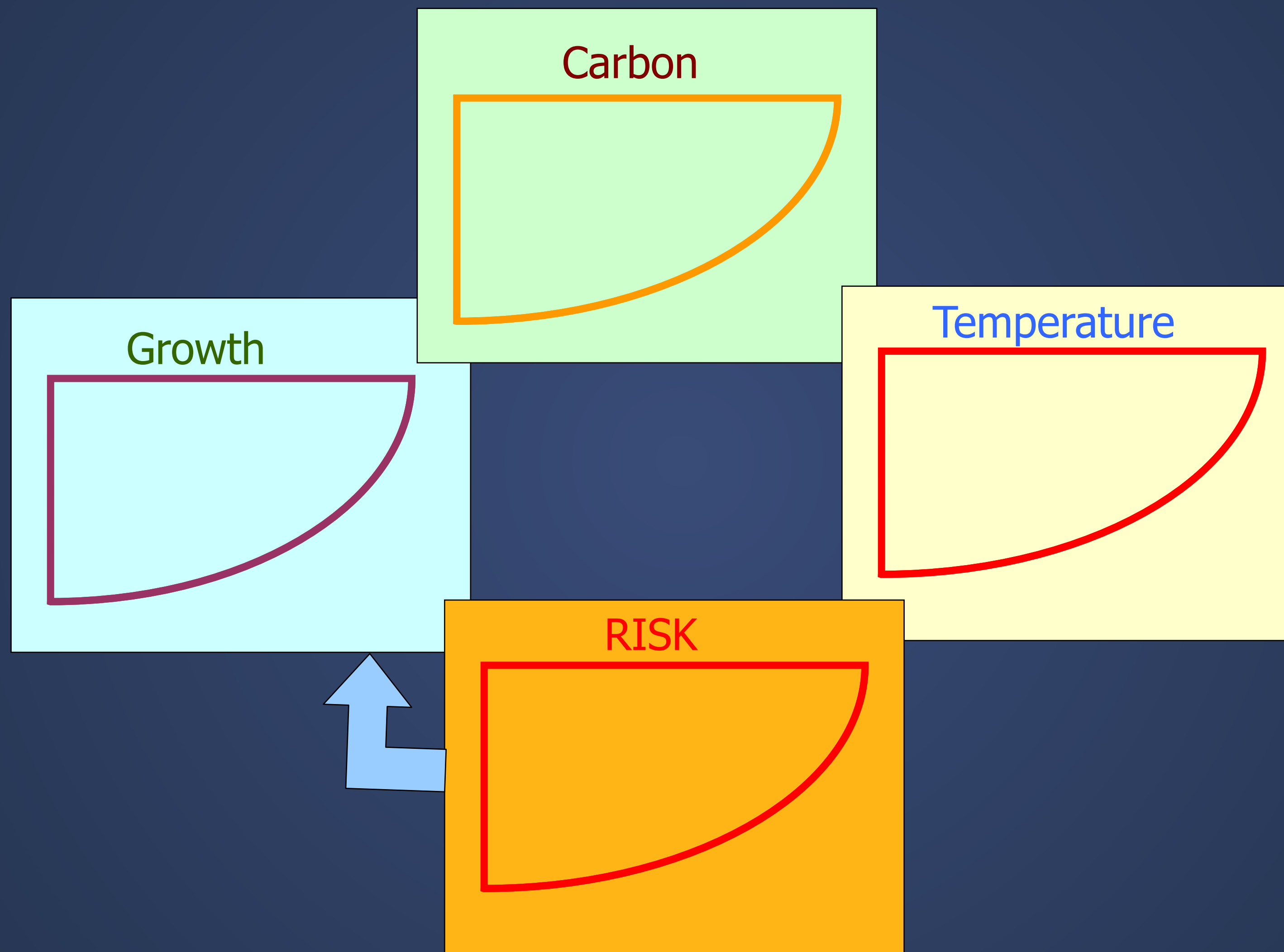
<http://www.csiro.au/>

SCHEMATIC OF THE CRISIS

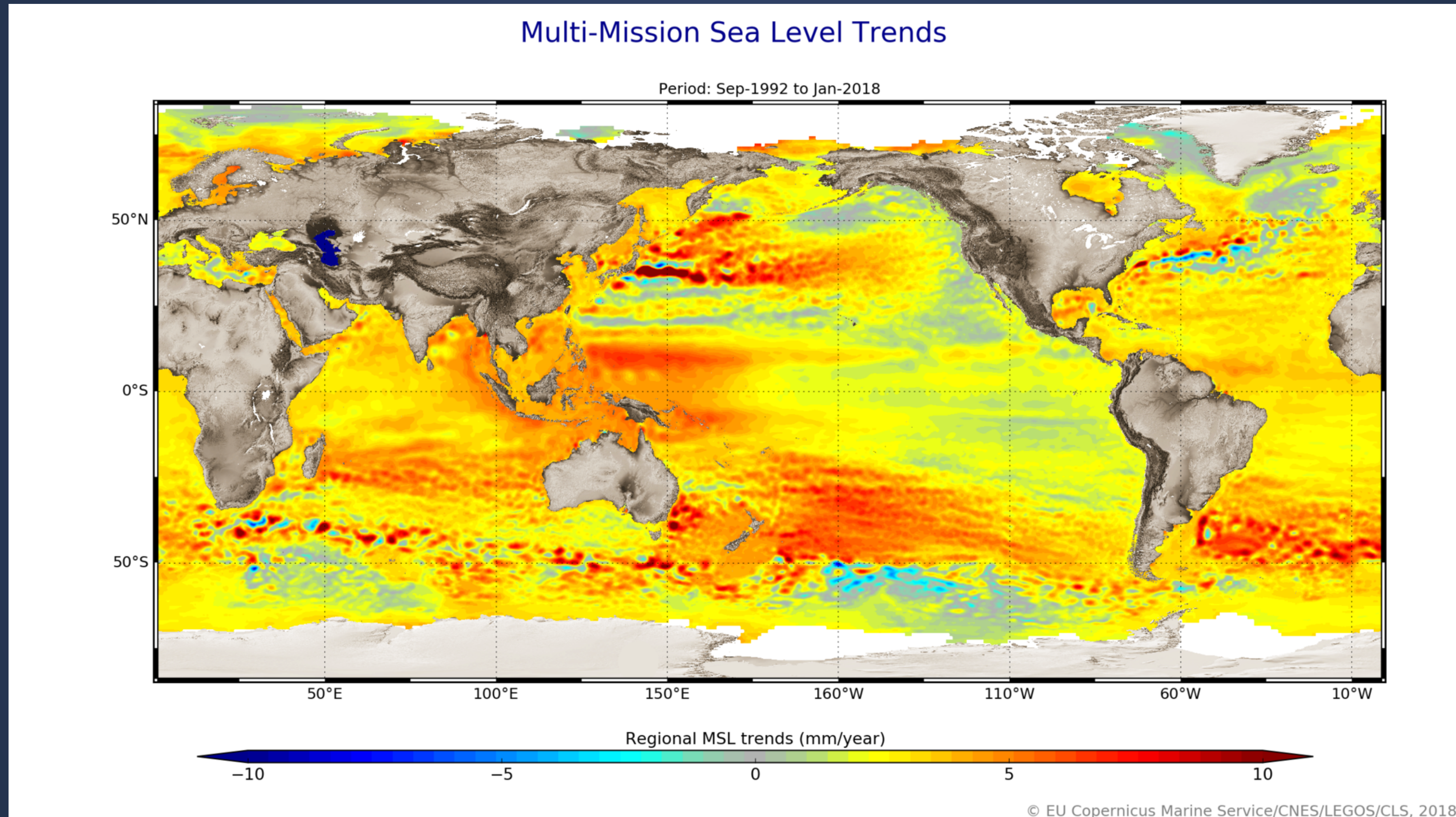
THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEO
Magisterial
Lecture SERIES

SCHEMATIC OF THE CRISIS



SAMPLE IMPACT: SEA LEVEL RISE



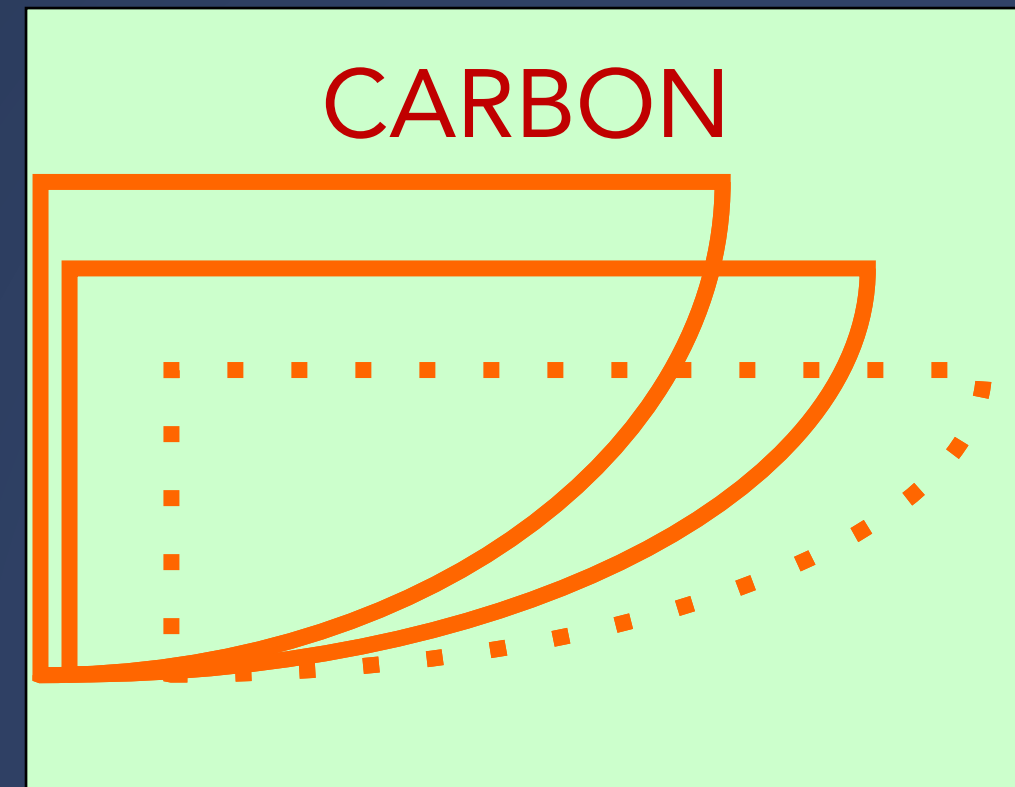
THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

SOLUTIONS: MITIGATION AND ADAPTATION

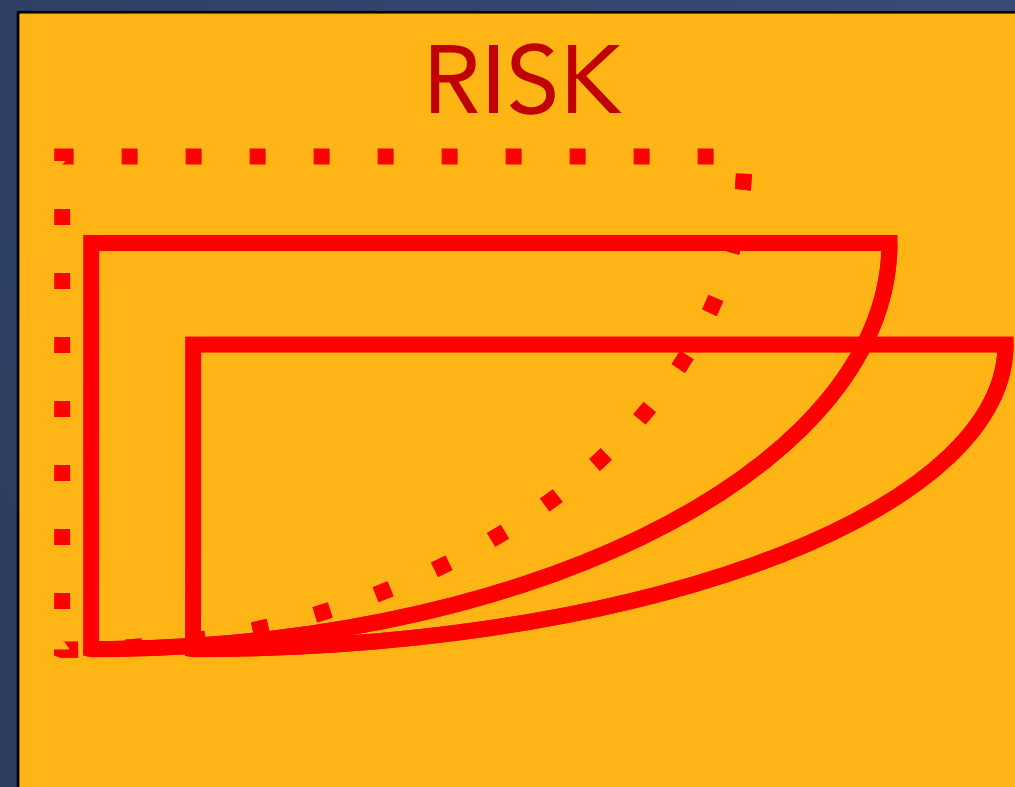
THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENE0
Magisterial
Lecture SERIES

SOLUTIONS: MITIGATION AND ADAPTATION



Reduce the carbon.



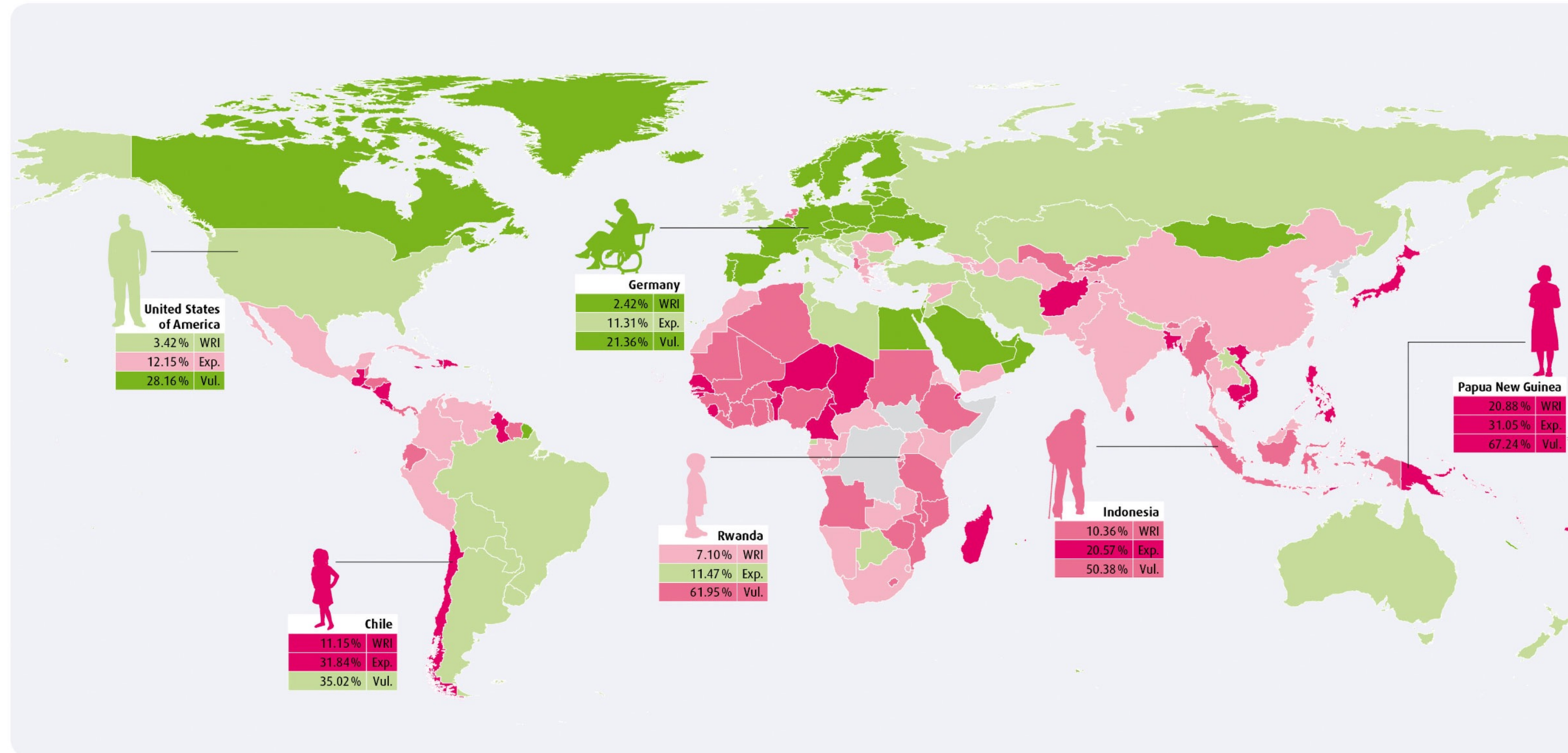
Reduce the risk.

WHERE'S THE CARBON?

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

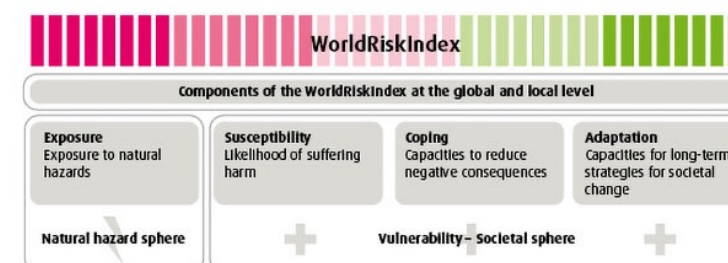
ATNEO
*Magisterial
Lecture* SERIES

WHERE'S THE RISK?



WorldRiskIndex (WRI) in %	Exposure in %	Vulnerability in %
very low 0.36 - 3.15	very low 1.02 - 9.53	very low 20.97 - 32.01
low 3.16 - 5.45	low 9.54 - 11.70	low 32.02 - 40.77
medium 5.46 - 7.13	medium 11.71 - 14.50	medium 40.78 - 48.60
high 7.14 - 10.43	high 14.51 - 17.73	high 48.61 - 63.00
very high 10.44 - 50.28	very high 17.74 - 86.46	very high 63.01 - 76.47
no data available	no data available	no data available

Max. = 100%, Classification according to the quantile method.



10 countries with highest risk	10 countries with highest exposure	10 countries with highest vulnerability
Vanuatu 50.28	Vanuatu 86.46	Central African Republic 76.47
Tonga 29.42	Tonga 55.92	Chad 74.70
Philippines 25.14	Brunel Darussalam 52.71	Niger 73.23
Solomon Islands 23.29	Philippines 49.94	Eritrea 72.38
Guyana 23.23	Japan 46.55	Guinea-Bissau 71.67
Papua New Guinea 20.88	Guyana 45.56	Liberia 71.49
Guatemala 20.60	Costa Rica 44.27	Mozambique 71.19
Brunel Darussalam 18.82	Guatemala 38.50	Sierra Leone 70.80
Bangladesh 17.38	Solomon Islands 37.81	Burundi 69.87
Fiji 16.58	Mauritius 37.22	Madagascar 69.68

© Bündnis Entwicklung Hilft 2018

Data source: IFHV, based on the PREVIEW Global Risk Data Platform, CReSIS, CIESIN and global databases; detailed information at www.WorldRiskReport.org

Climate Risk Report, 2018
(<http://ehs.unu.edu>)

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

WHERE'S THE RISK?

Rank	Country	Risk (%)
1.	Vanuatu	50.28
2.	Tonga	29.42
3.	Philippines	25.14
4.	Solomon Islands	23.29
5.	Guyana	23.23
6.	Papua New Guinea	20.88
7.	Guatemala	20.60
8.	Brunei Darussalam	18.82
9.	Bangladesh	17.38
10.	Fiji	16.58
11.	Costa Rica	16.56
12.	Cambodia	16.07
13.	Timor-Leste	16.05
14.	El Salvador	15.95
15.	Kiribati	15.42

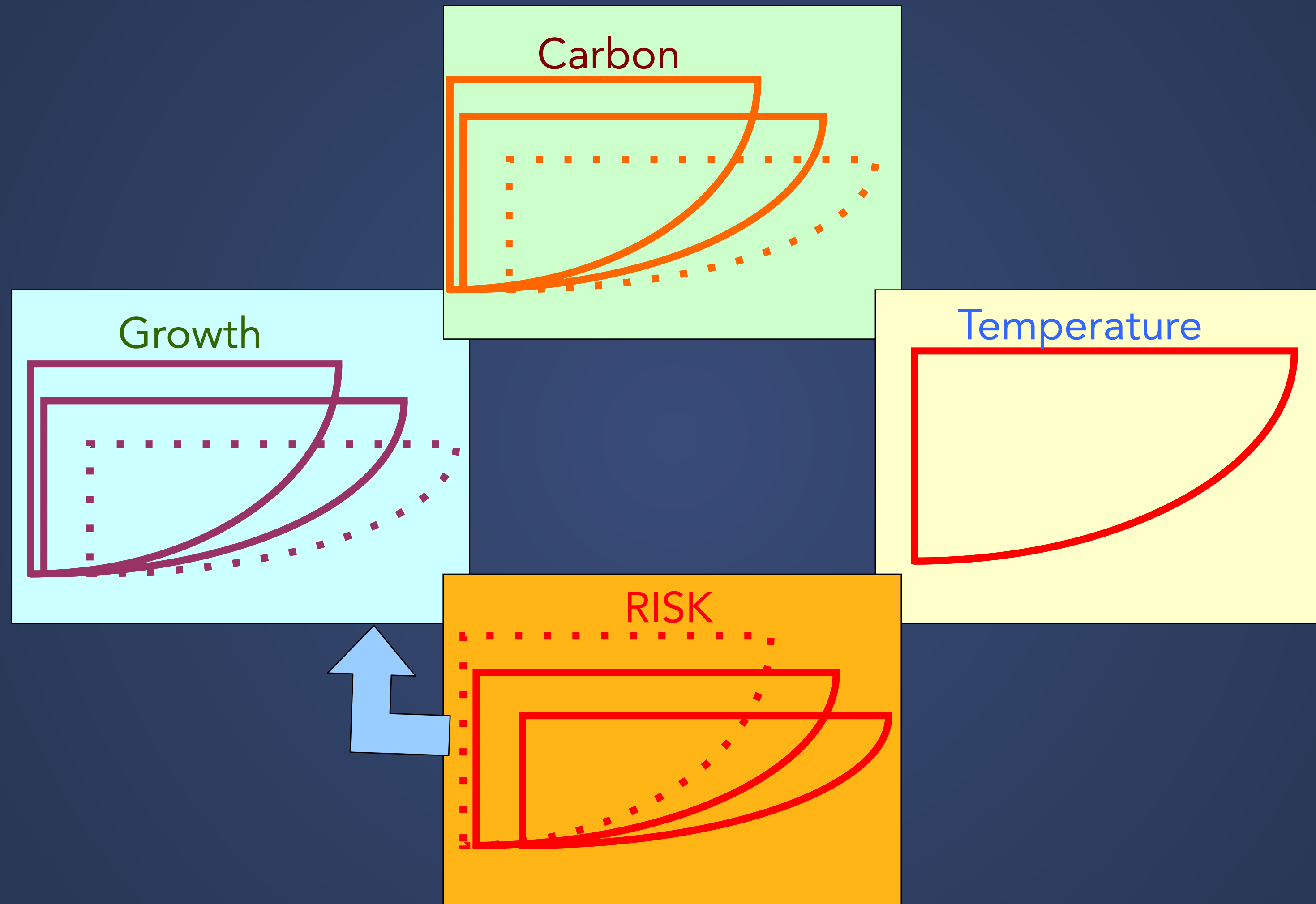
Climate Risk Report, 2018 (<http://ehs.unu.edu>)

THE CLIMATE ETHICAL PROBLEM: DIFFERENTIATION

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENE0
*Magisterial
Lecture* SERIES

THE CLIMATE ETHICAL PROBLEM: DIFFERENTIATION

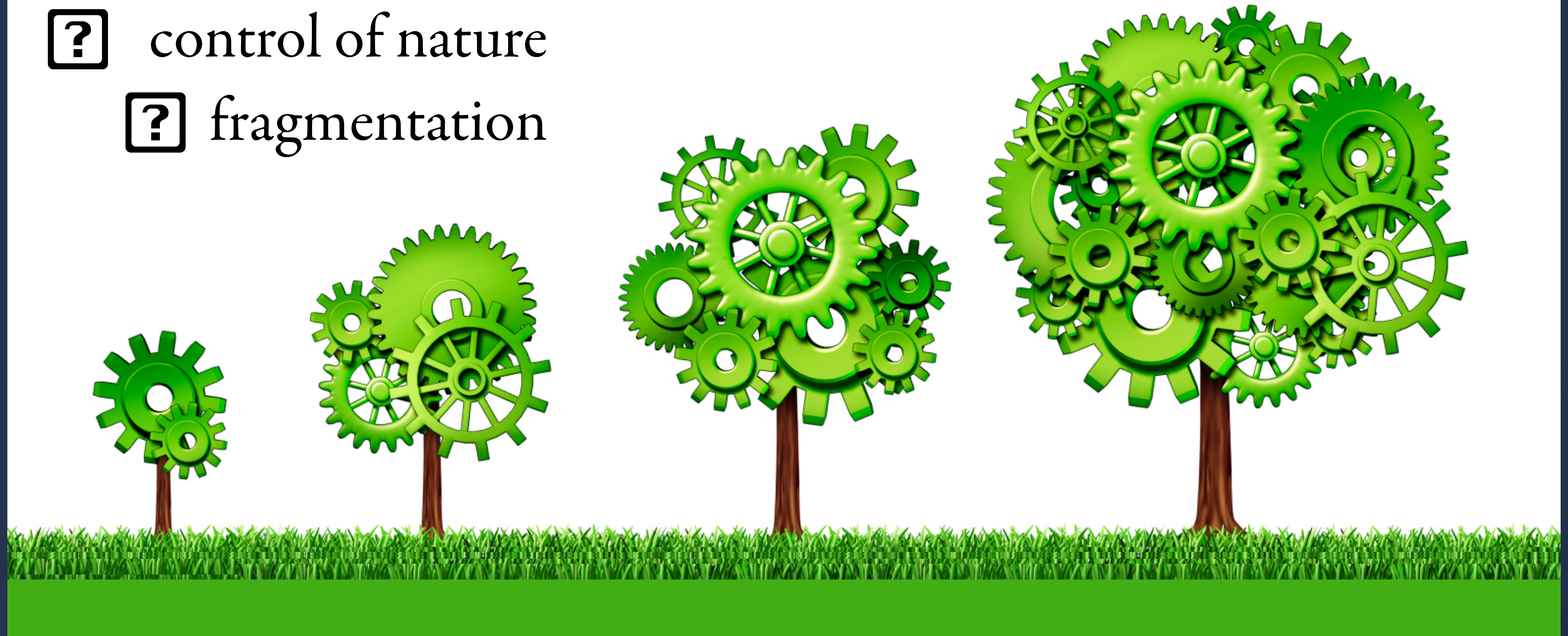


ROOTS OF THE CRISIS

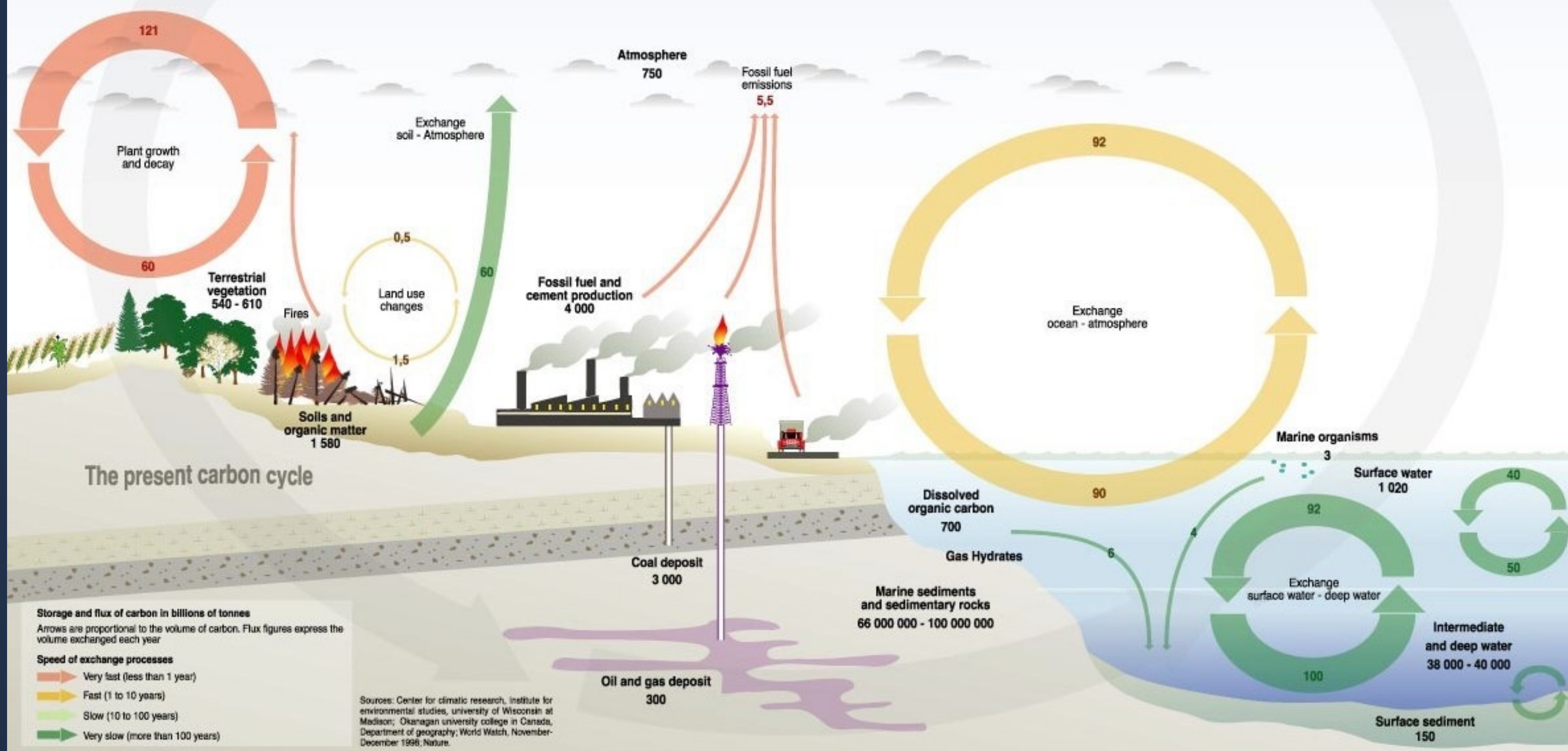
- Technocracy
- Misguided Anthropocentrism

Technocracy

- ❑ control of nature
- ❑ fragmentation

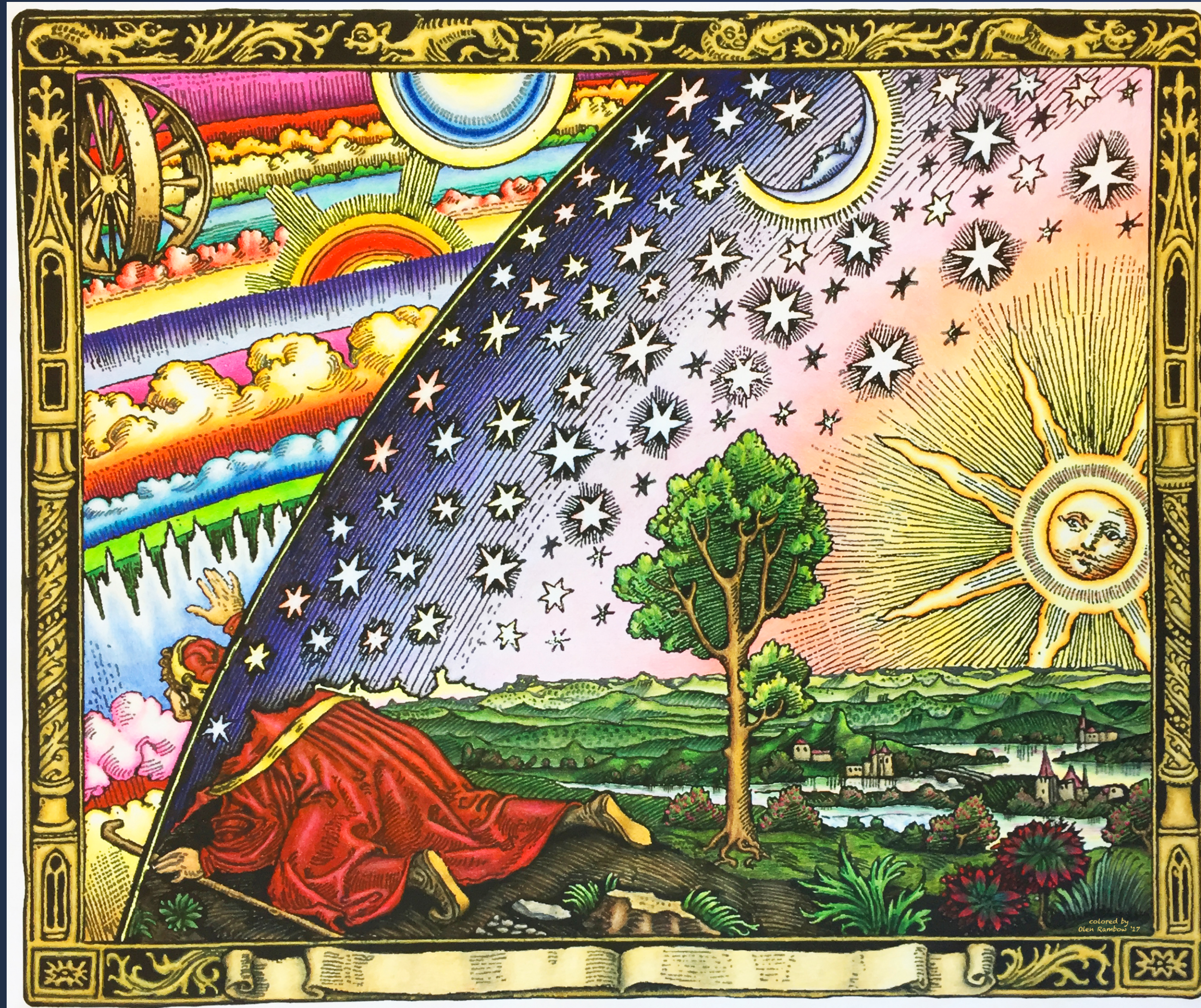


The Carbon Cycle



Carbon cycle. (2005). In UNEP/ GRID-Arendal Maps and Graphics Library.
 Retrieved 05:36, June 22, 2008
 from http://maps.grida.no/go/graphic/carbon_cycle.

TECHNOCRACY



- Fragmentation
- Separation

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ANTHROPOCENTRISM: Misguided sense of place

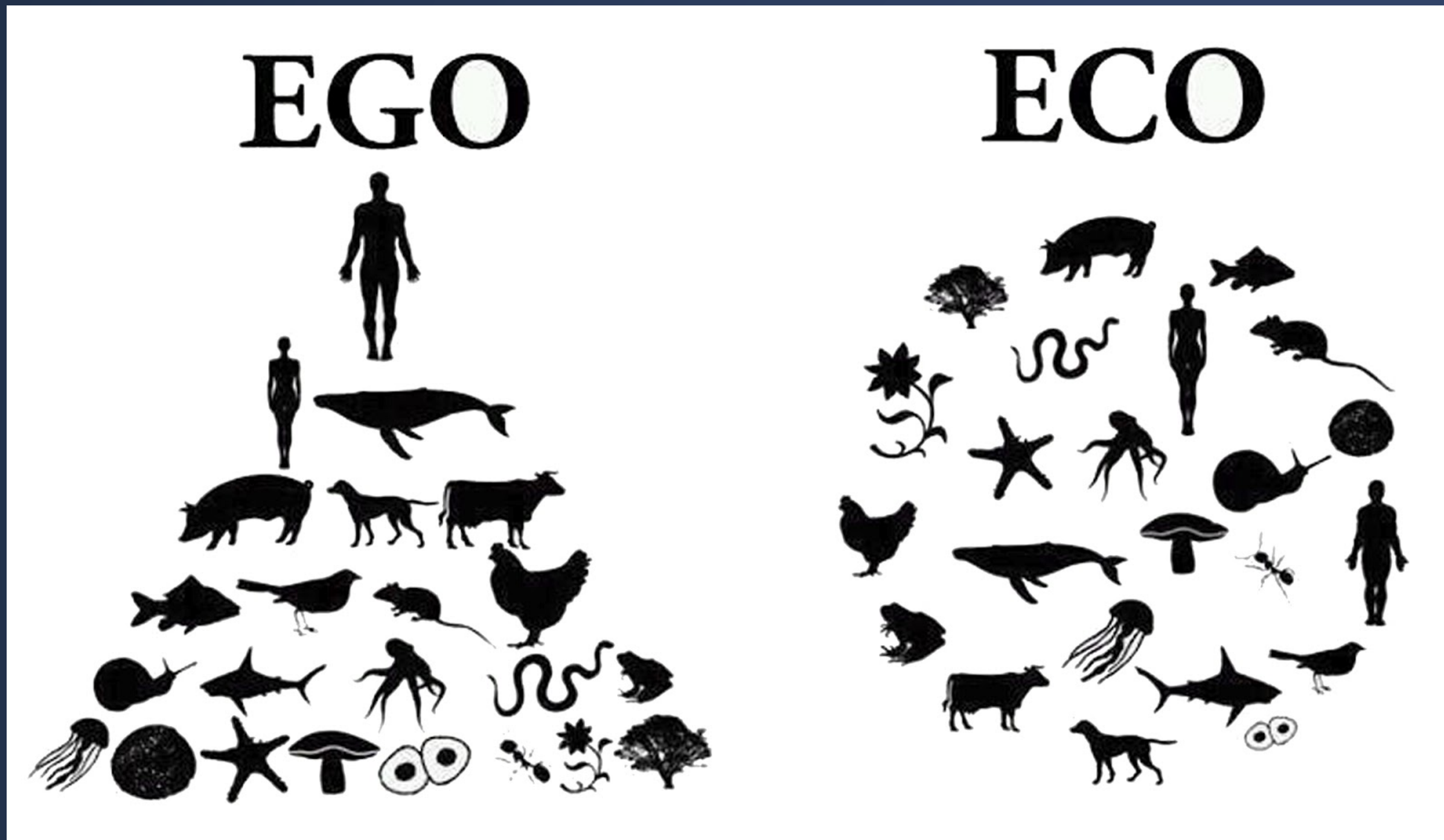


Image: kindredspiritus.wordpress.com

False Superiority (Human Exceptionalism)

False Inferiority (Human Mediocrity)

OUR RESPONSE AND SOME PATHWAYS OF HOPE:

- An integral way of looking
- Leadership of the commons
- Educating persons and culture
- An ecological spirituality



Together, look at
creation whole.

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

<https://pangasinan.gov.ph/wp-content/uploads/2018/02/mangrove-2.jpg>

ATENEU
*Magisterial
Lecture* SERIES

Lead the commons.



Lake Palakpakin, Laguna





<https://bicoltoday.com/2011/08/26/sixth-grader-becomes-a-national-pride/>

Educate persons
and cultures.

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENE0
Magisterial
Lecture SERIES

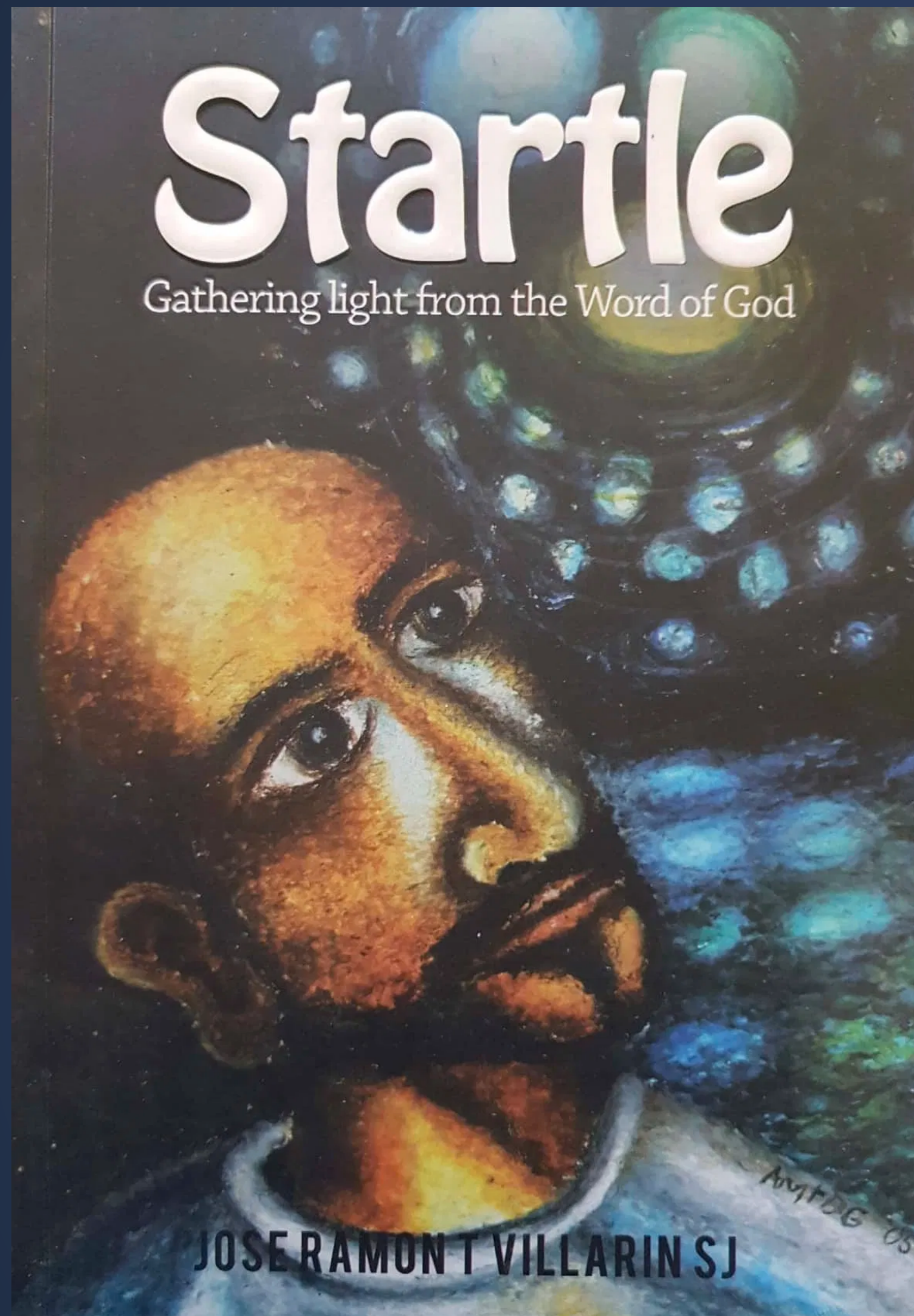


Hieronymus Bosch, The Garden of Earthly Delights

Discover God again.

“The Lord God then took the man and settled him in the garden of Eden, to cultivate (‘abad’) and care (‘shamar’) for it.” (Gen 2:15)

“abad” – to till, work, cultivate
“shamar” – to keep, guard, preserve



Reconnect to God

- Deepen our spiritual connections to self, others, and creation.
- Contemplative-in-action

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

TOP 10 LIST OF SIMPLE STEPS

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEO
Magisterial
Lecture SERIES

TOP 10 LIST OF SIMPLE STEPS



10. Say grace before
and after meals.

http://newsinfo.inquirer.net/files/2015/01/18_PopeTacloban13.jpg

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEÓ
Magisterial
Lecture SERIES

TOP 10 LIST OF SIMPLE STEPS

9. Climb a mountain (dive the sea).

<https://unsplash.com/@joannecaselynsuarez>

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEO
Magisterial
Lecture SERIES

TOP 10 LIST OF SIMPLE STEPS



8. Unplug
and savor the silence.

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

TOP 10 LIST OF SIMPLE STEPS



7. Repair something broken.

TOP 10 LIST OF SIMPLE STEPS



6. Get to know a poor person.

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

TOP 10 LIST OF SIMPLE STEPS



5. Try fasting.

TOP 10 LIST OF SIMPLE STEPS



gettyimages® | 25 YEARS
JAY DIRECTO

91164517

<https://www.gettyimages.com/detail/news-photo/filipino-girl-is-carried-to-safety-through-floodwaters-news-photo/91164517>

4. Go read a book to children.

TOP 10 LIST OF SIMPLE STEPS



3. Care for
some space
that belongs
to everyone.

TOP 10 LIST OF SIMPLE STEPS



<http://www.wardie.org.uk/>

2. If you're Catholic, receive communion.

TOP 10 LIST OF SIMPLE STEPS



<https://www.chamellephotography.com/wp-content/uploads/2016/10/Amelie-12-screencapture-tin-toys-closeup.jpg>

1. Make a box for your valuables.

Arigato gozaimasu, Shoichi Kodoh



R. Gavino / Philippine Embassy in Tokyo

THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEO
Magisterial
Lecture SERIES



THE POPE, THE POOR AND THE PLANET:
OVERCOMING INSULARITY VIA AN INTEGRAL ECOLOGY

ATENEO
Magisterial
Lecture SERIES

Image Credits

Frank Lurzano, bicoltoday.com
Jay Directo & Getty Images