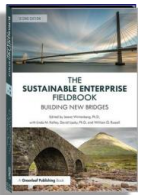


Holistic integration: connecting and aligning toward sustainable globalization

- what we've learned
- what are resources
- what to look for
- what can I do moving forward

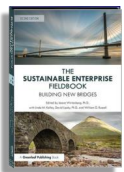
Linda Morris Kelley
May 21, 2020
ld366496@gmail.com



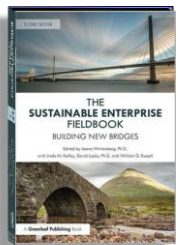
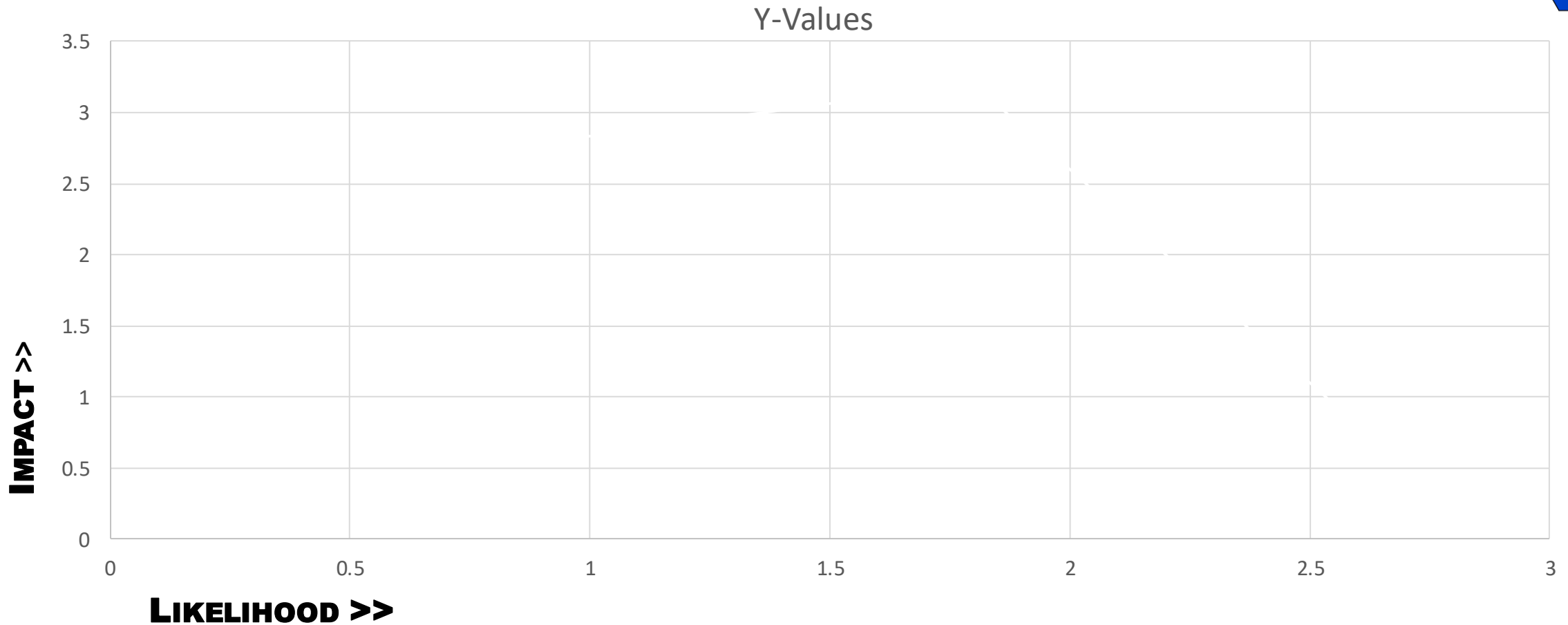
Our kaleidoscope world



We can't go back.
From where we are **NOW**, where are we going?
What do you anticipate our "**new normal**" will be like?

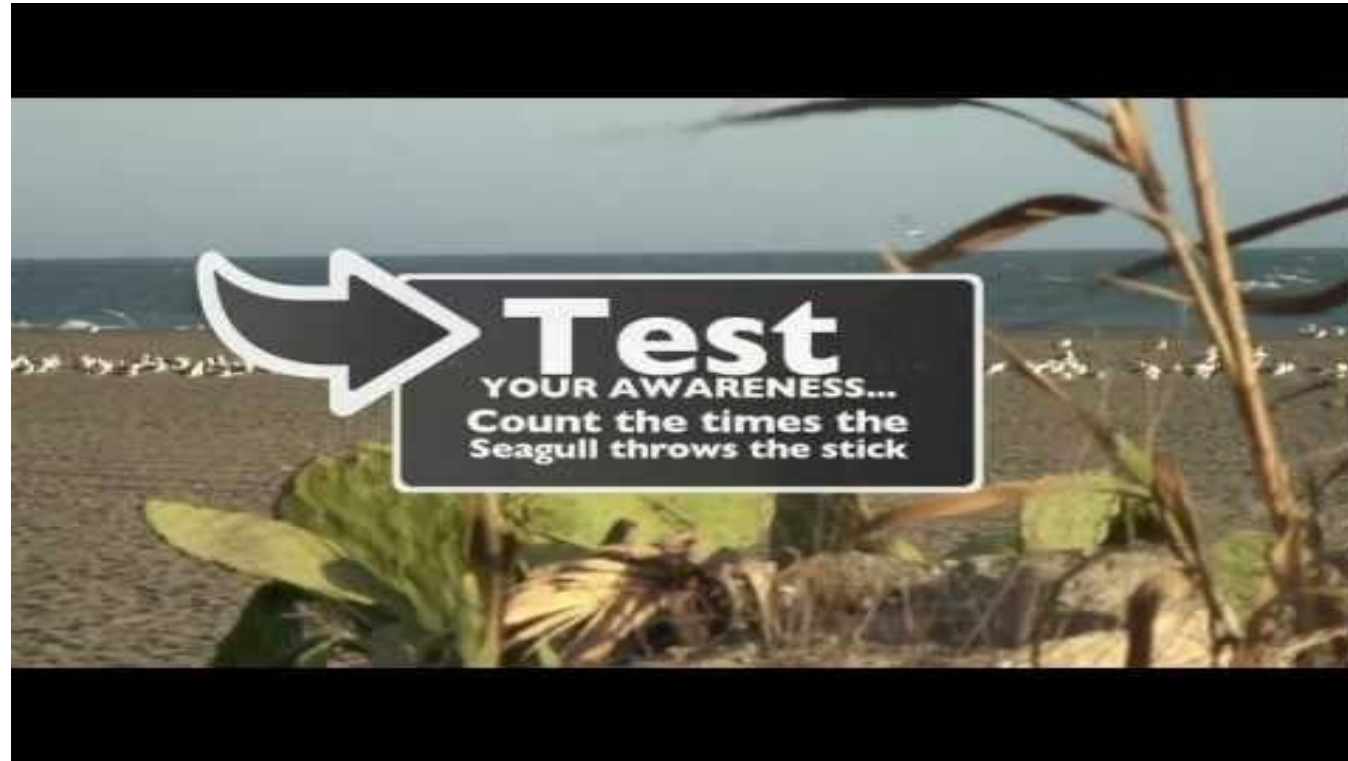


Assignment: Regional future casting 5 years out



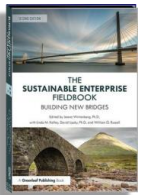
- High Employment level,
- Full healthcare coverage,
- Full education access,
- Food access,
- Clean water quality,
- Extreme weather events,
- Renewed tourism,
- Active arts & culture,
- Business innovation? ...

Do you see it?



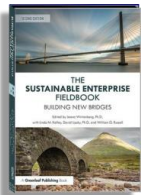
<https://www.youtube.com/watch?v=MUi8eMkf0KM>

What you don't see may be more important than what you do see.

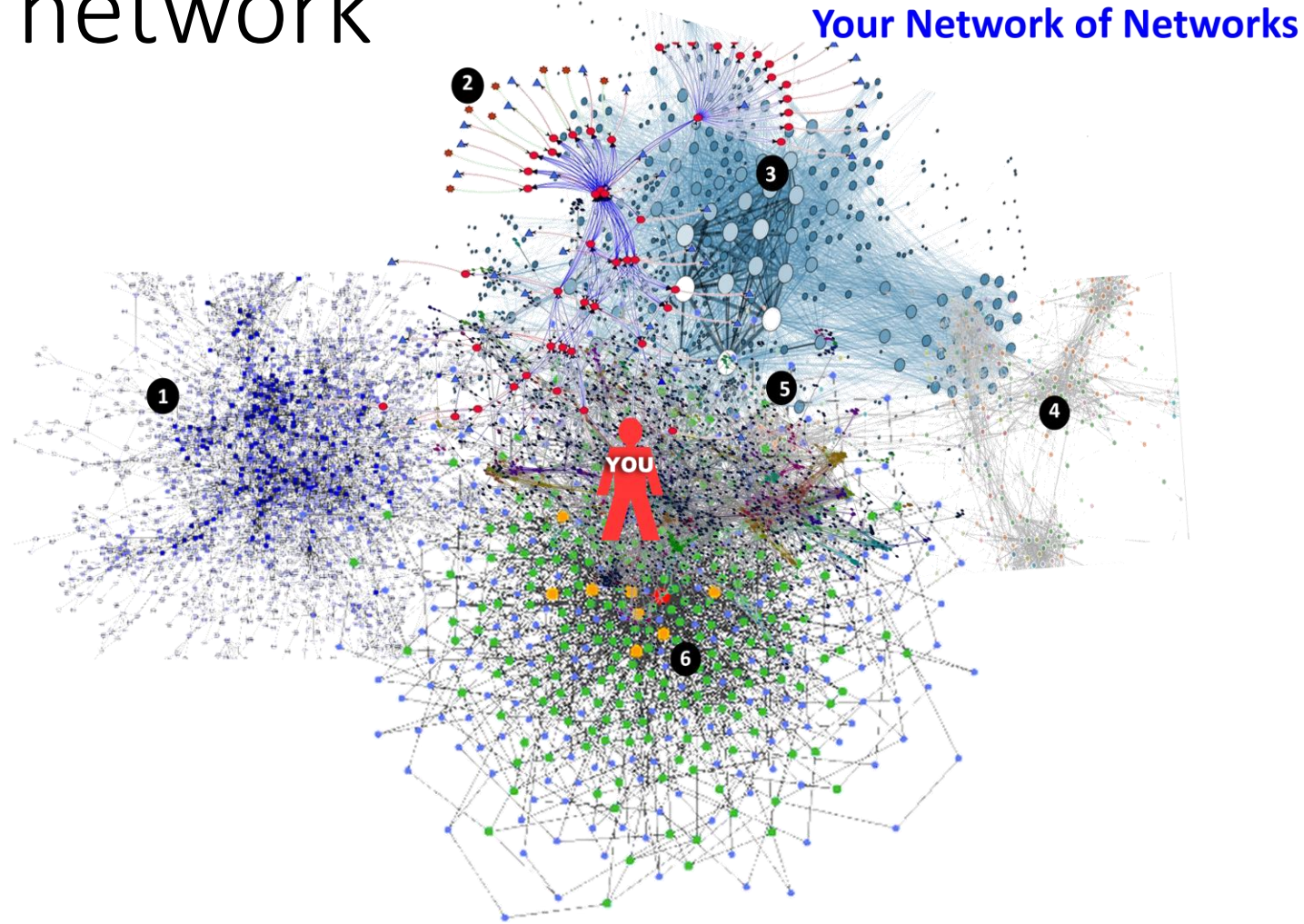


Gathering information, making decisions, taking action, and mental models

- How do you decide what's relevant?
- How do you decide what's important?
- How do you decide when, where and how to take action?

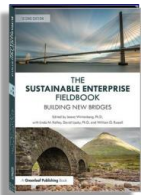


Your network



Some of your networks?

- 1. ??
- 2. ??
- 3. ??
- 4. ??
- 5. ??
- 6. ??

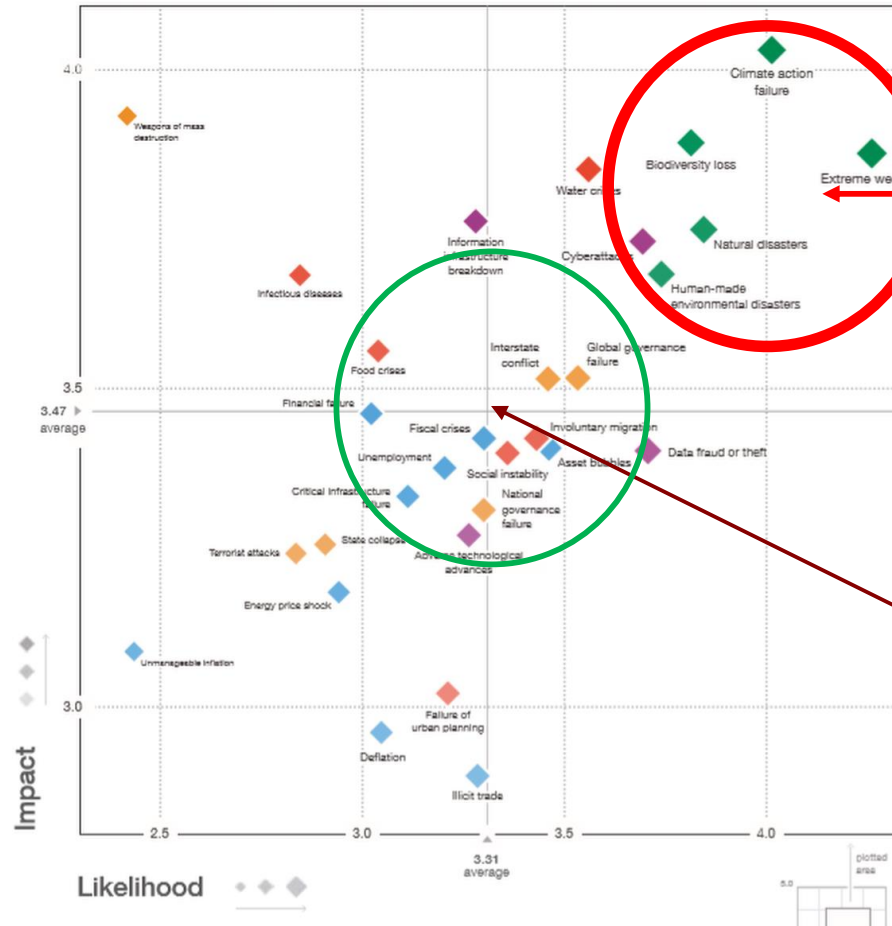


Creative Commons Copyright, 2017. Linda Morris Kelley. Attribution, Non-Commercial, Share Alike.

The future of security and sustainability

World Economic Forum's
Global Survey of top executives

Figure II: The Global Risks Landscape 2020 Issued January 15, 2020

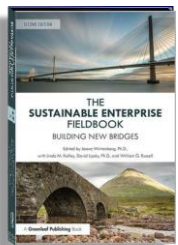


- ✓ Climate action failure
- ✓ Extreme weather
- ✓ Unemployment
- ✓ Biodiversity loss
- ✓ Natural disasters
- ✓ Human-made environmental disasters

February 2020

- ✓ Infectious disease
- ✓ Fiscal crises
- ✓ Unemployment
- ✓ Global governance failure
- ✓ Interstate conflict
- ✓ Information infrastructure breakdown
- ✓ Food crises

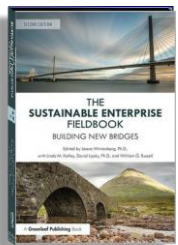
<https://www.weforum.org/reports/the-global-risks-report-2020>



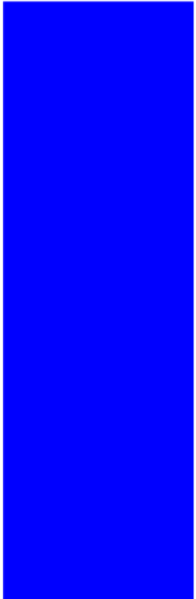
Systems view shows impacts that siloing misses



Interconnected



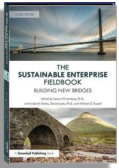
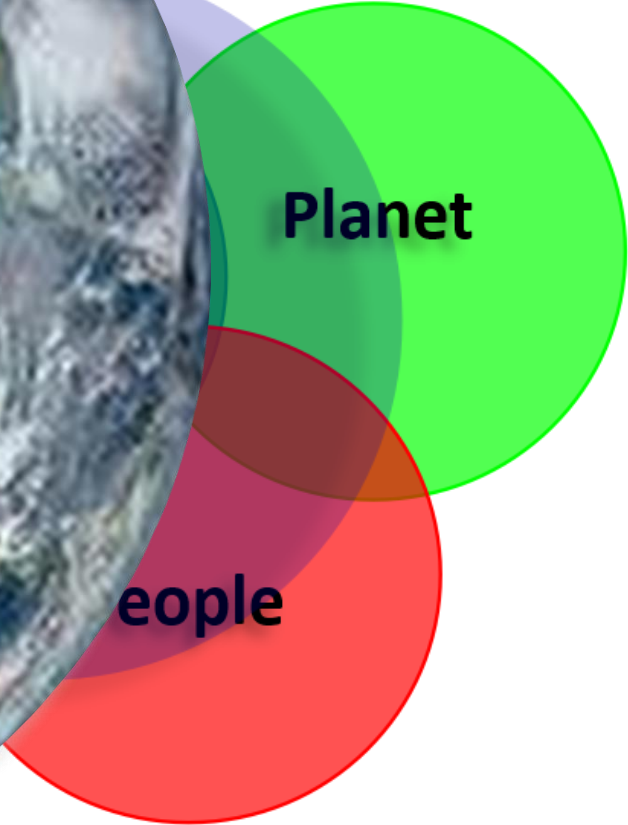
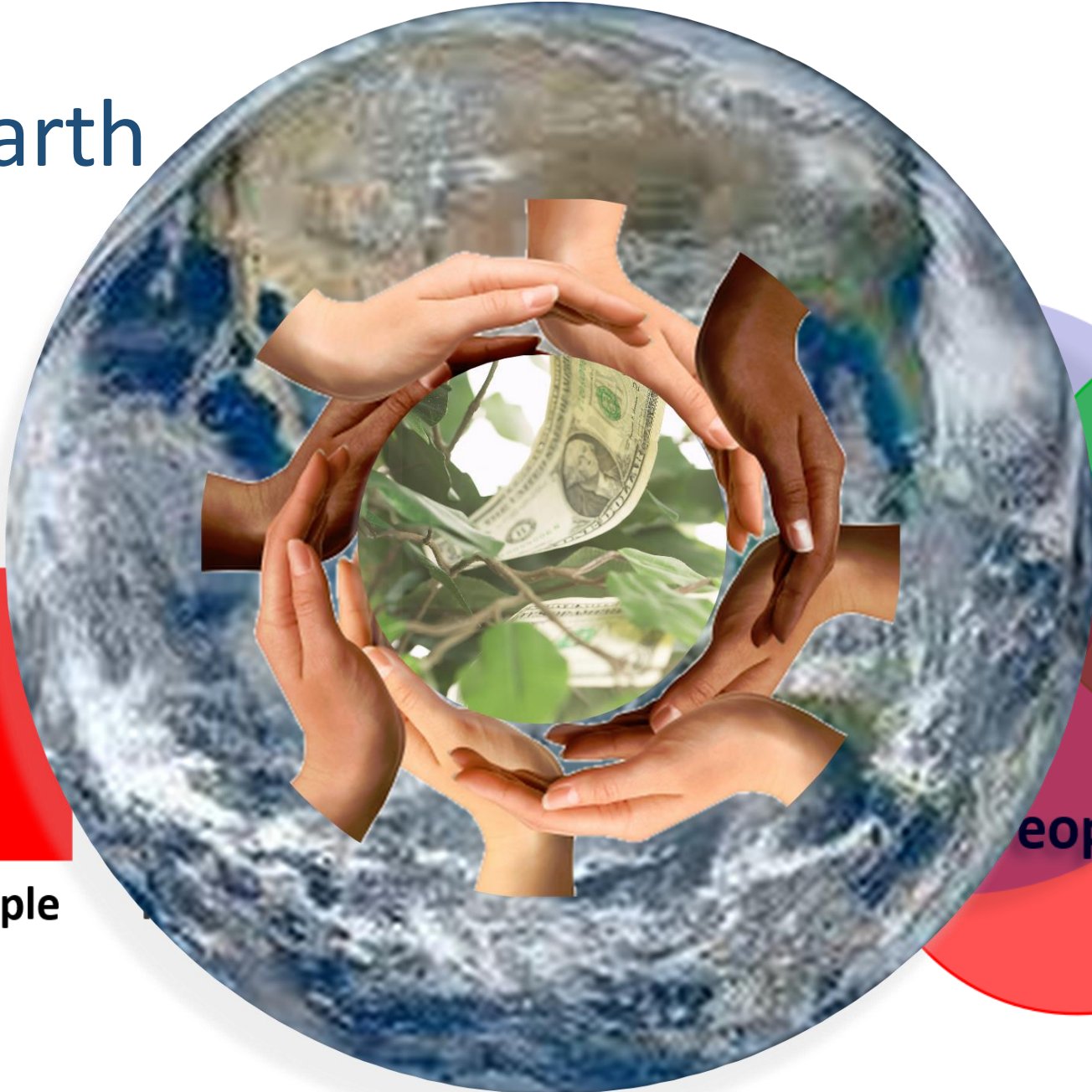
All One Earth



Profit



People



The foundation for Sustainability is nested and networked interdependent systems, nested within this one planet Earth.

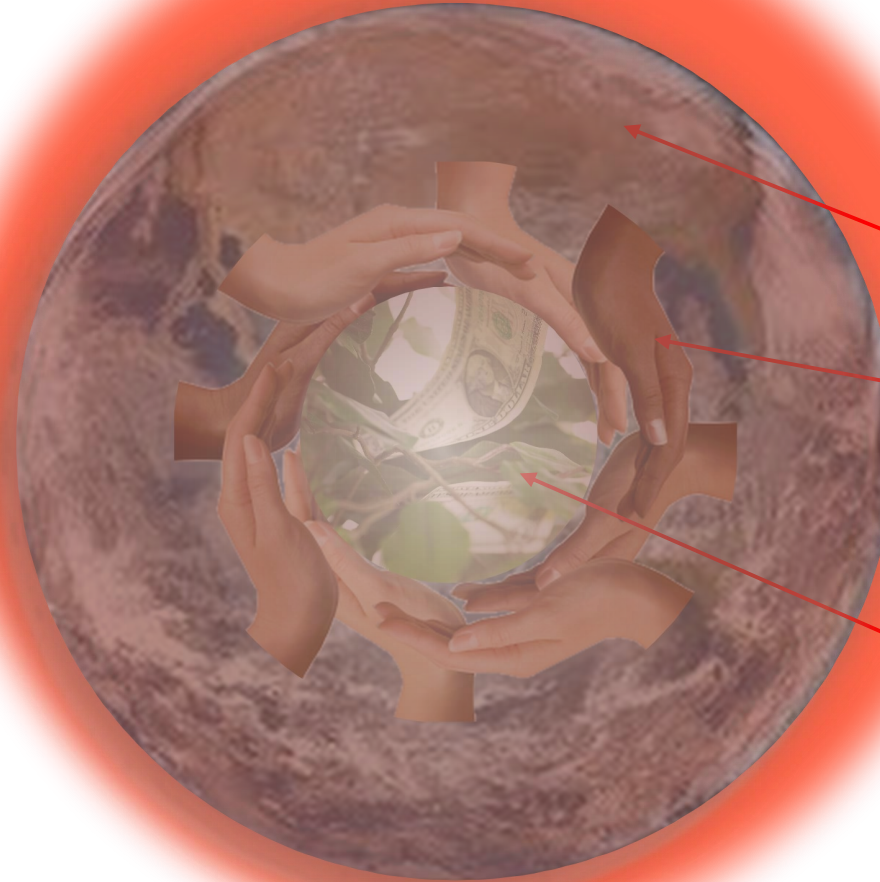
Everything we do is nested into the environment of Planet Earth.

Without access to the resources of this supportive planet, humanity **cannot** not exist.

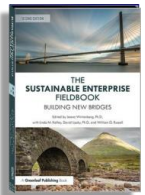
There are **no externalities** in Nature.

Resiliency depends on essential redundancies.

Nature bats last!



1. Natural resources, life support systems (Planet)
2. Human ingenuity: manufacturing, technology, cooperation > value creation systems (People)
3. Value exchange, trade, capital systems (Profit)



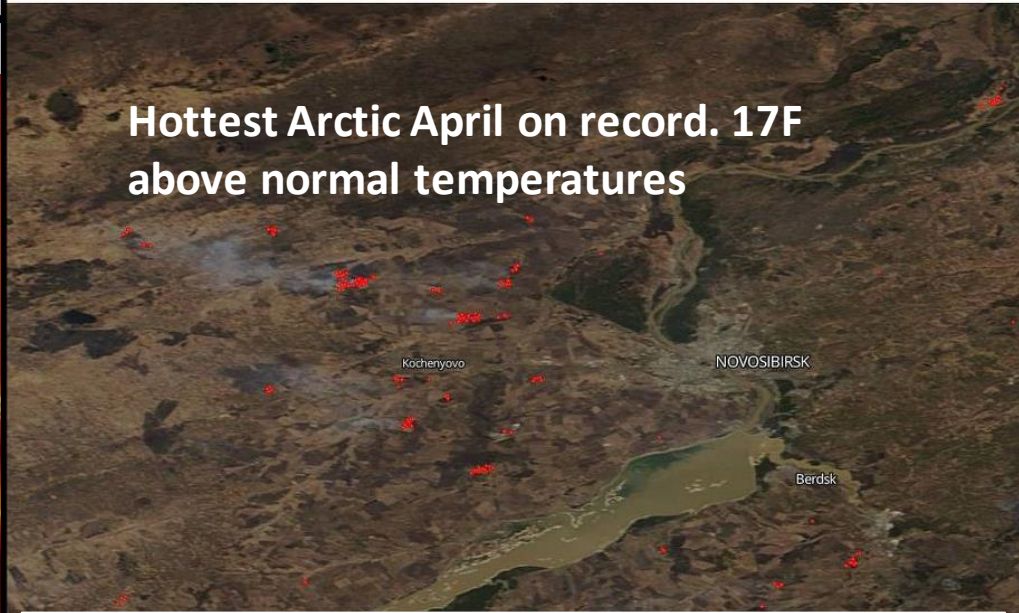
Climate extremes,

May, 2020

April 27, 2020

Wildfires in Siberia Bring More Challenges to Locked Down Area

Hottest Arctic April on record. 17F above normal temperatures



<https://www.nasa.gov/image-feature/goddard/2020/wildfires-in-siberia-bring-more-challenges-to-locked-down-area>

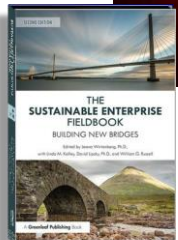
500-year flood – 10K evacuate, 2 dams break in Michigan's upper peninsula with very heavy rains, May 20, 2020



<https://abcnews.go.com/US/thousands-evacuate-500-year-flood-destroys-dams-michigan/story?id=70786068>

<https://www.nytimes.com/2019/10/24/climate/california-wildfires-climate-change.html?action=click&module=RelatedLinks&pgtype=Article>

<https://weather.com/>



Human h

and global temperatures

Increases

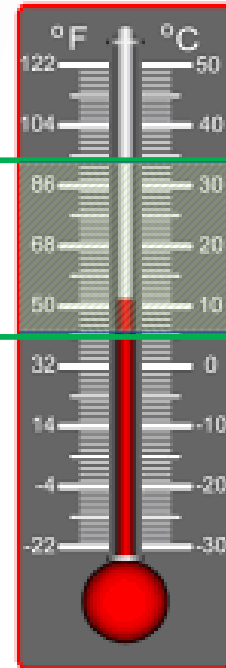


Amritsar, India, is one place that has reeled under higher than normal heat and humidity. MUNISH BYALA/HINDUSTAN
 TIMES VIA GETTY IMAGES

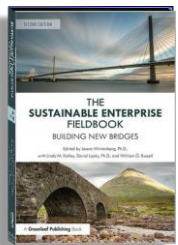
Lethal levels of heat and humidity are gripping global 'hot spots' sooner than expected

By Warren Cornwall | May. 8, 2020, 2:40 PM
https://www.sciencemag.org/news/2020/05/lethal-levels-heat-and-humidity-are-gripping-global-hot-spots-sooner-expected?utm_campaign=ScienceNow&utm_source=JHubbard&utm_medium=Facebook

How long can humans survive on a prolonged basis?

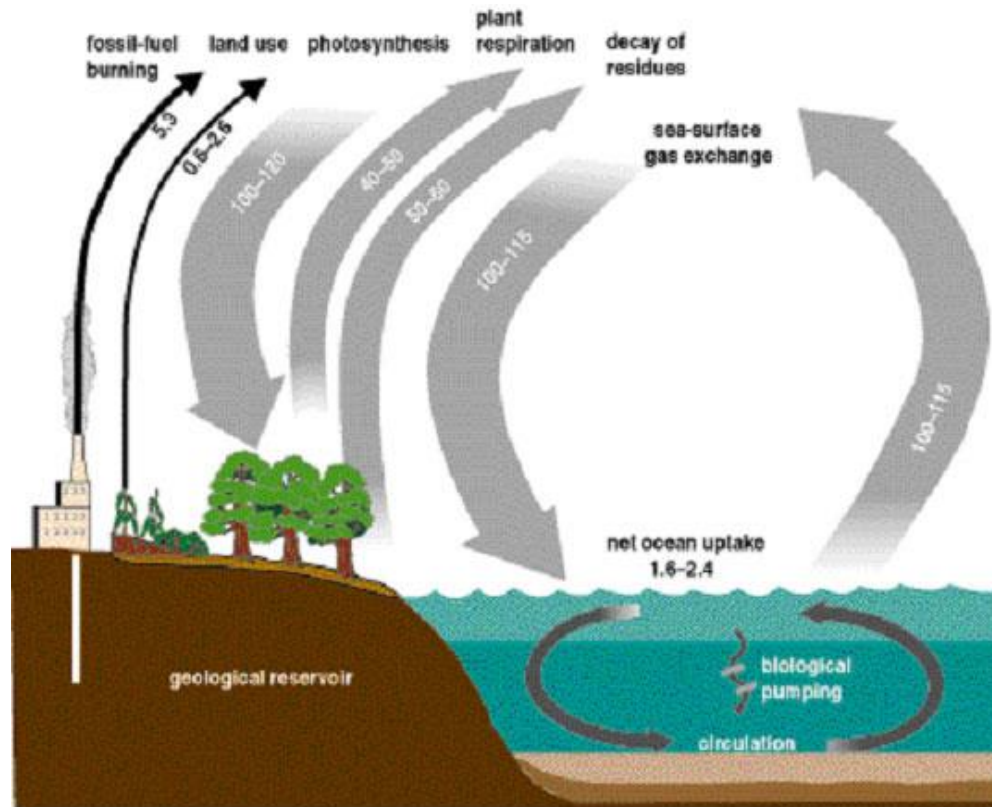


The Zone

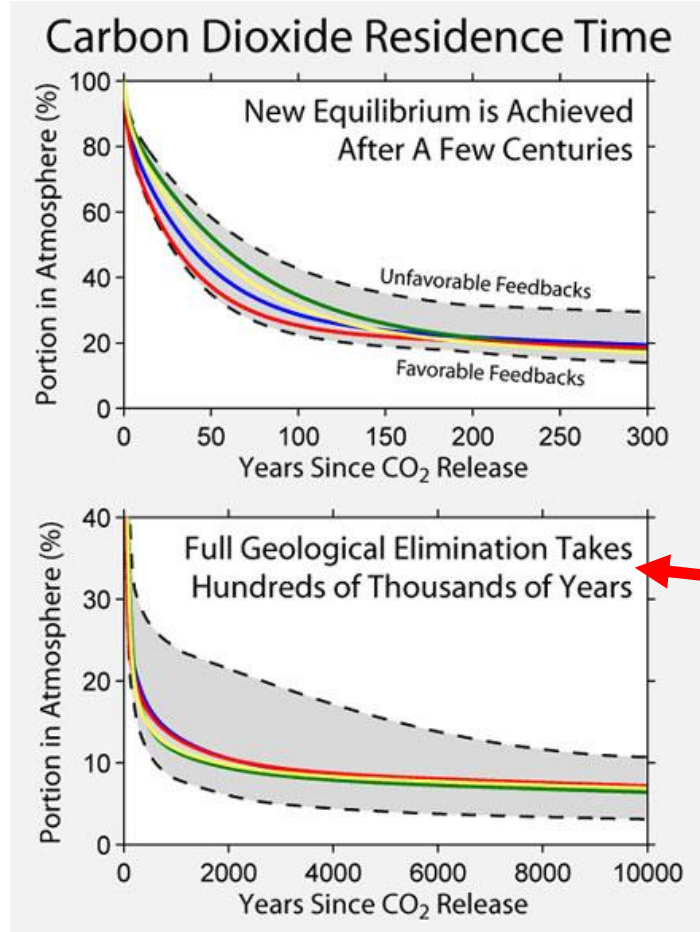


VectorStock® VectorStock.com/1829294

Atmospheric CO₂



If we *totally* stopped spewing carbon into the atmosphere today,

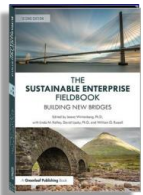


“Researchers have estimated that about 50 percent of the net anthropogenic pulse would be absorbed in the first 50 years, and about 70 percent in the first 100 years.”

“If emissions miraculously were to end today, about 20 percent of that CO₂ would remain for at least tens of thousands of years.”

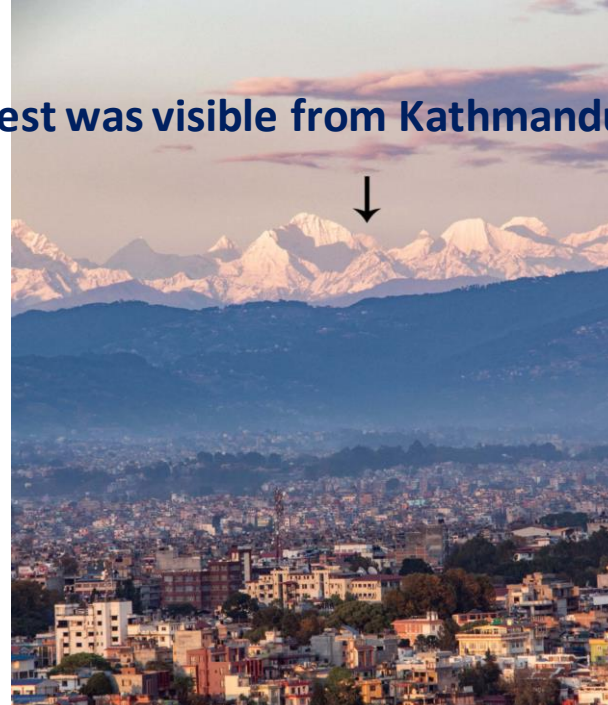
<https://www.yaleclimateconnections.org/2010/12/common-climate-misconceptions-atmospheric-carbon-dioxide/>

Also see, <https://climate.ncsu.edu/edu/EnergyBalance>



With a 17% global reduction in carbon emissions right now,

Last week (May 2020) Mount Everest was visible from Kathmandu for the first time in living memory.

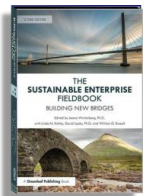


Cleaner air means lungs function better, less asthma, more oxygen intake, more CO₂ expiration, less biological stress, less tiredness, more energy.



Everest visible from Kathmandu for the first time in living memory.
Credit: [Abhushan Gautam](#)

https://snowbrains.com/everest-visible-kathmandu-nepal-first-time/?fbclid=IwAR0YKa15zSPV8WCuGVyHx4YTxBzD7nu6ORg93Obk8ICrP96SEdM9_FvfGs



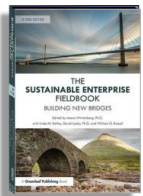
Jellyfish in the clear water canals of Venice



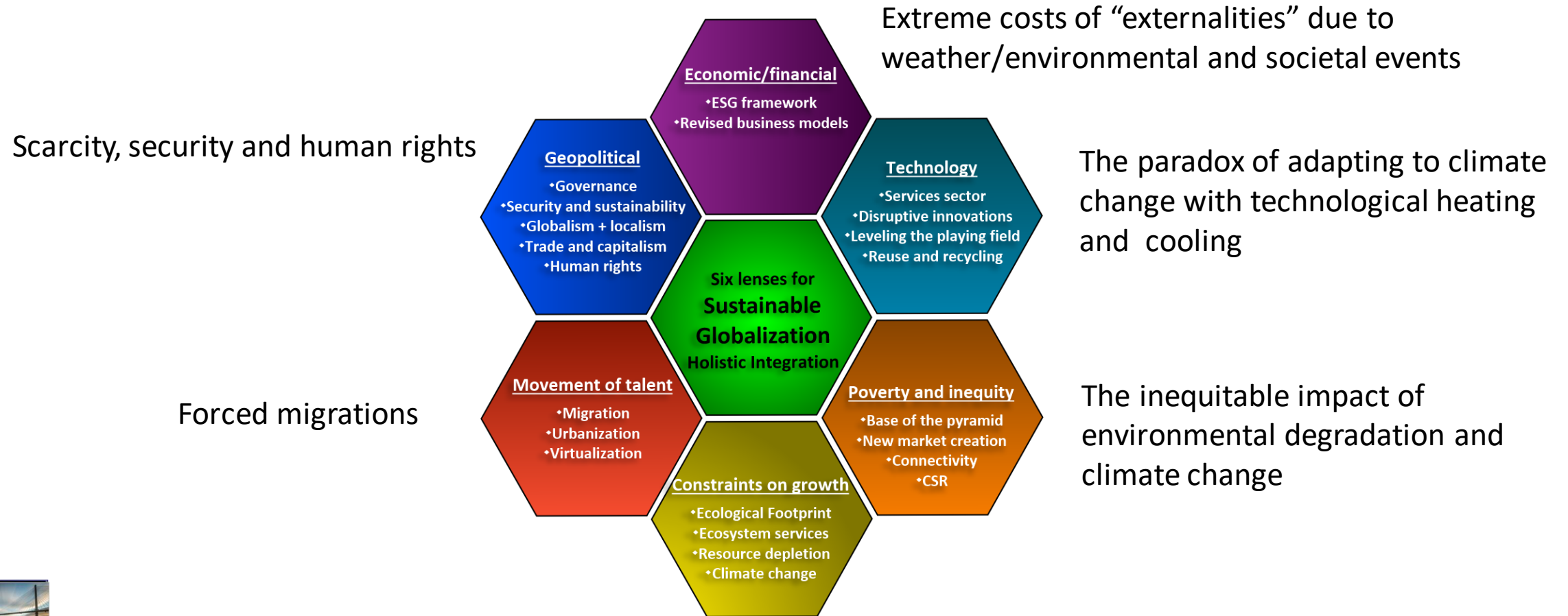
A jellyfish swims in transparent waters of the Venice canals amid the coronavirus disease (COVID-19) outbreak, in Italy, April 12, 2020.

Andrea Mangoni via REUTERS

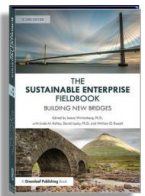
<https://time.com/5824807/jellyfish-in-venice/>



Systems, lenses and climate change, and climate weirding



Ecosystem services: global warming, climate change and resources depletion



Inventive bricolage multiplied



Hand Sanitizer - Sheffield, Massachusetts, USA

BERKSHIRE MOUNTAIN DISTILLERS, INC.

BMD Hand Sanitizer

New Sizes Available Soon.
Hand sanitizer supply is subject to change.
Please check our Facebook and Instagram for the most up to date information - @berkshiremtdist.
Be well and stay safe,
team BMD

BMD has been able to donate over 150 gallons of Hand Sanitizer, thus far, to organizations and first responders who are working directly with those most in need.

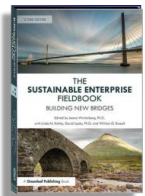
<https://berkshirermountaindistillers.com/>

Soap - Niger, Africa

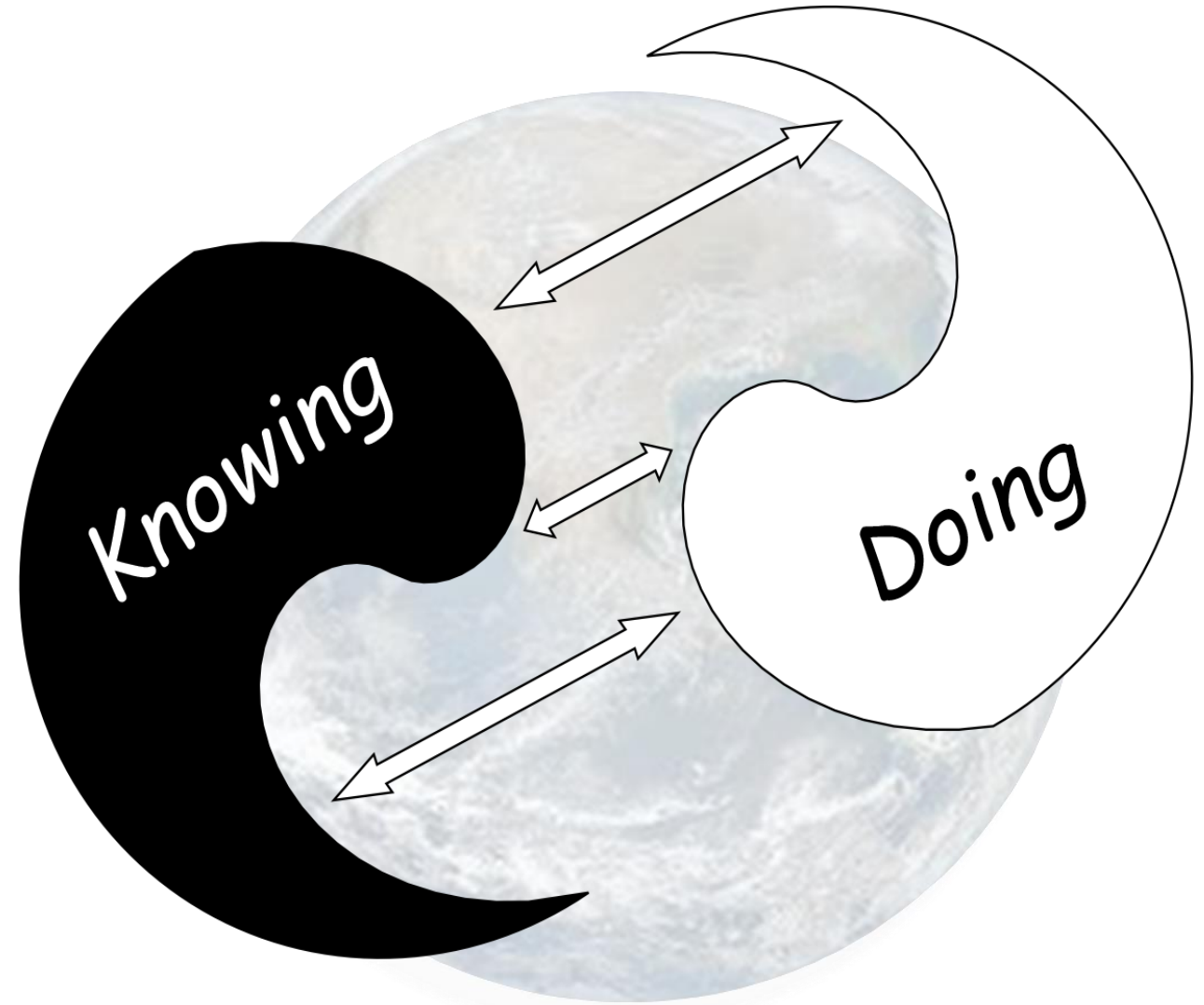


It started as a mini-cooperative to give a small income for hundreds of refugees evacuated from Libya.

<https://www.unhcr.org/en-us/news/stories/2020/5/5ebe3eb14/self-help-project-niger-churns-hygiene-products-fight-against-coronavirus.html>



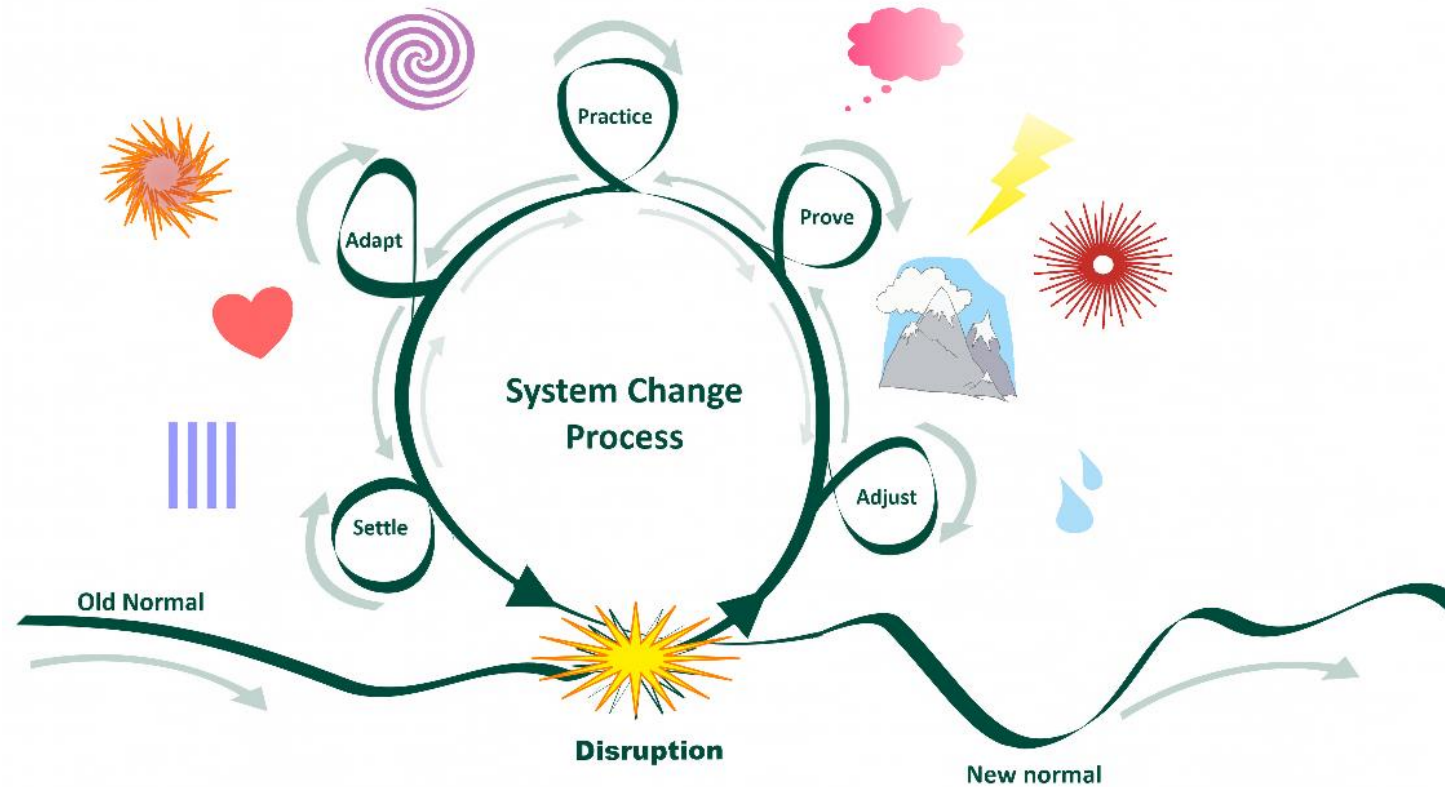
Knowing and Doing



Consequences of separating "knowing" and doing?

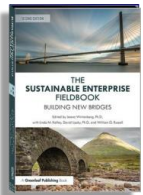
Process of change – significant change is difficult

Be compassionate and forgiving with yourself and with others working through this process

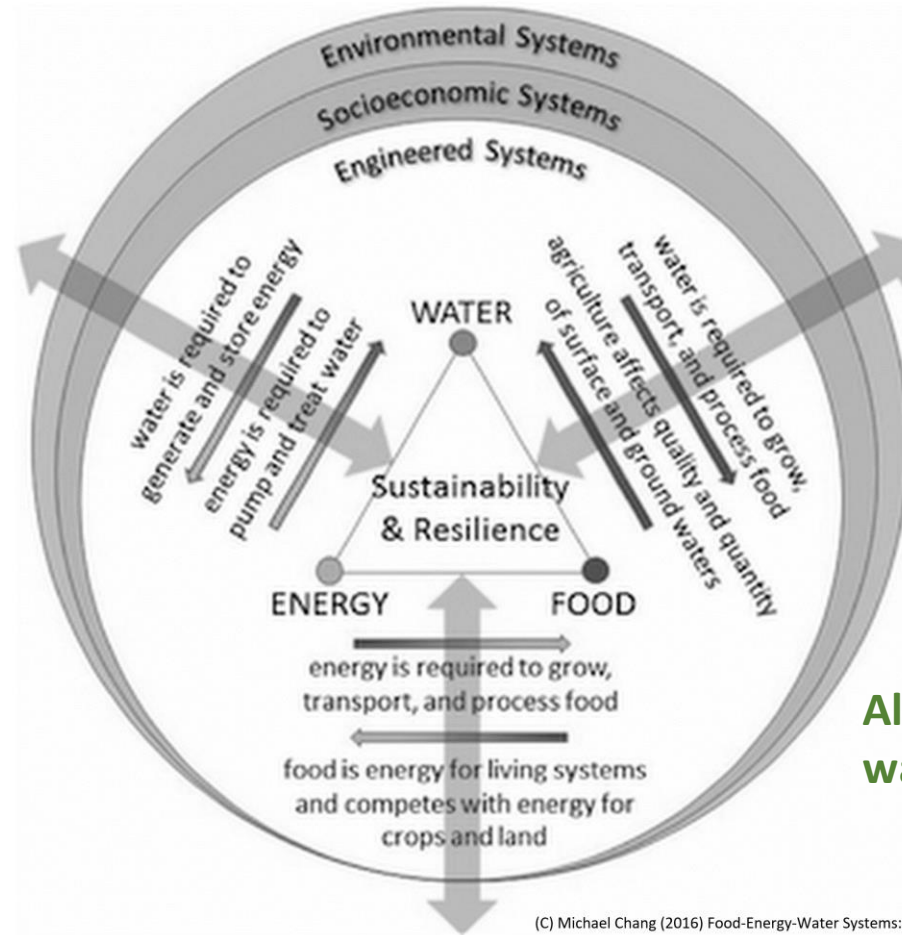


Linda Morris Kelley, 2010. This work is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License.

Chapter 4. Managing the change to a sustainable enterprise



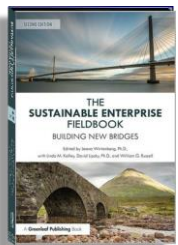
Food – Energy – Water redux



Almost none of the water is recycled.

Almost none of the food waste is composted.

Energy is wasted throughout this entire process



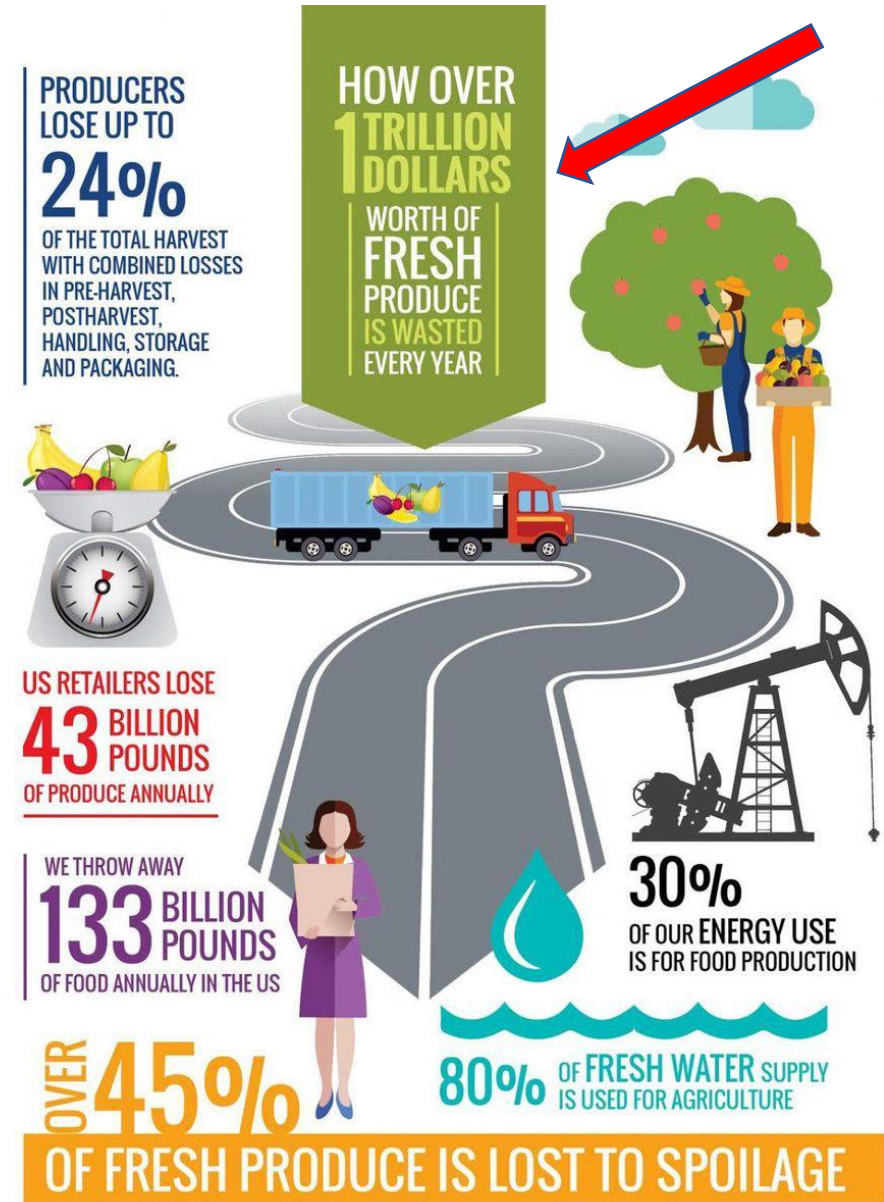
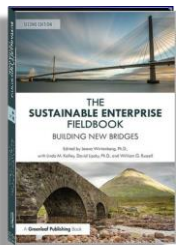
(C) Michael Chang (2016) Food-Energy-Water Systems: Opportunities at the Nexus

COVID-19 pandemic has exacerbated problems and breakdowns that were already here.

Food – water – waste

Food for thought:

- How did you get the food you ate today?
- Where did it come from?
- Who and what was involved?
- What are the impacts?
 - On whom?
 - What are they?
 - Where are they felt?
 - What are the consequences?

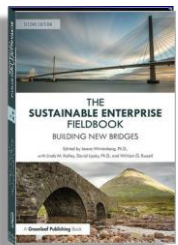


SOURCES: ndrc.org, nationalgeographic.com, and natlawreview.com • © Apeel Sciences • Illustrations: istock.com

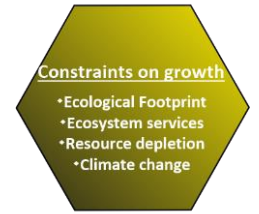
Supply chain weak links, frayed networks expose the fragility and rigidity of our food system



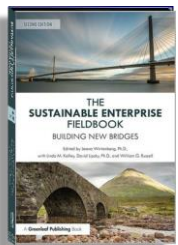
https://www.theguardian.com/world/2020/apr/09/us-coronavirus-outbreak-agriculture-food-supply-waste?CMP=Share_iOSApp_Other



Challenge and opportunity



1. Even though technology has networked our world together, it is still easy to miss the systemic interconnections and impacts that activities to make a living in one region have on economic, environmental and/or social conditions in other regions.



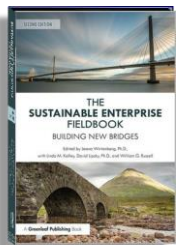
Challenge and opportunity

2. While a number of businesses have made significant contributions to furthering sustainability, none of them has yet become truly sustainable in all areas.

People comprise businesses, all businesses.

In our consumer-based economy, the choices you make everyday have an impact.

What criteria would you use to assess the positive and negative value of your choices and why?



Challenge and opportunity

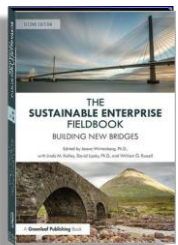


3. Currently cities account for 60% of GDP globally and that figure is increasing.

It is estimated that by 2050, 68% of the world's population will live in large urban areas.

What do you see as the most critical risks to human life productivity?

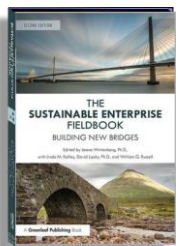
Why? If you could, where would you target changes to current policies and practices and what would they be?



Conclusion

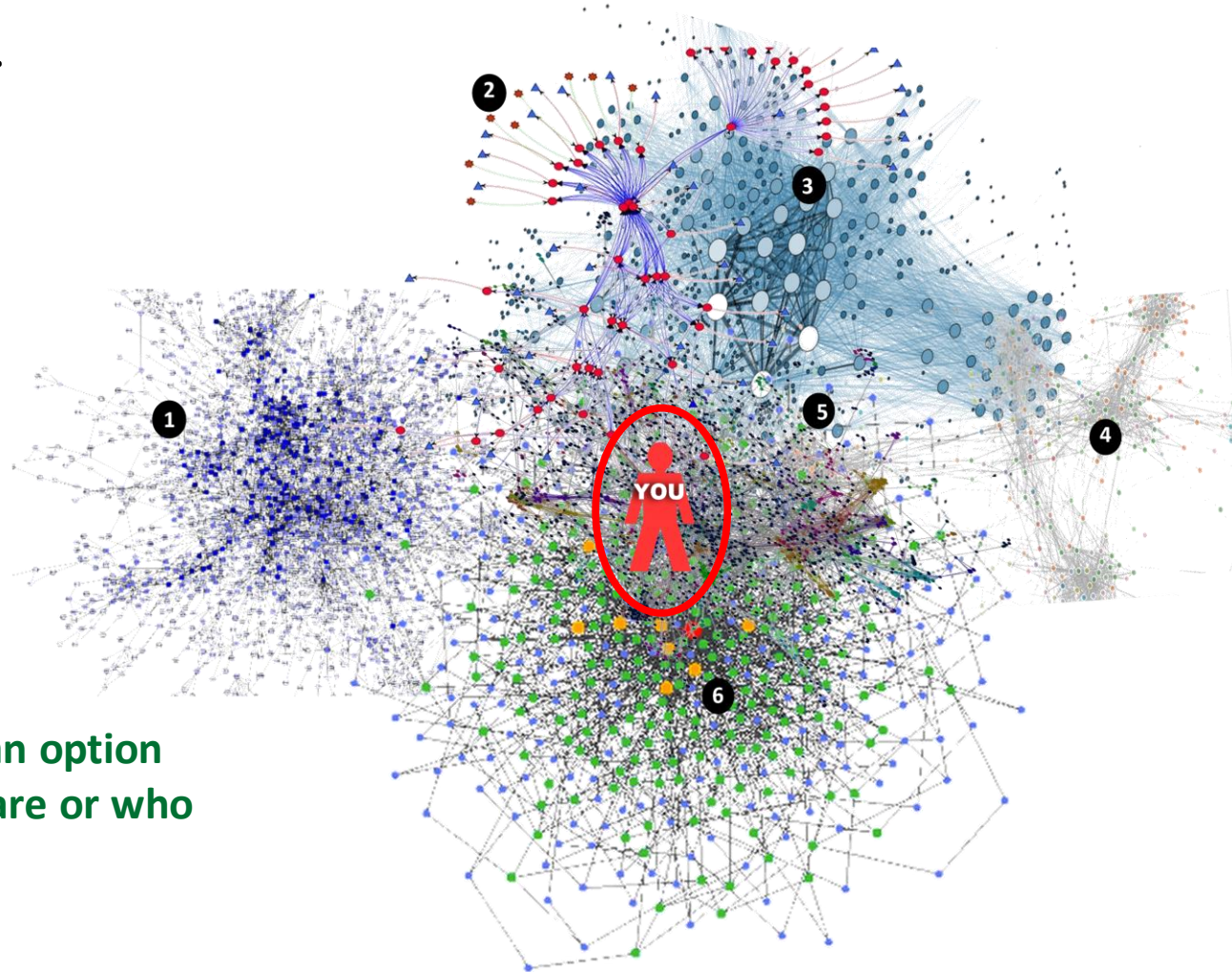


- Given the increased awareness surrounding the need for more sustainable solutions, the initiatives presented and their growing momentum gives cause for optimism. There is still a lot more to do. We need champions of deep transformation, strategically nurtured, and implemented.
- Global sustainability depends on business, governments, civil society, and informed people engaging with each other to raise the bar and develop new models of real sustainability.
- Sharing our resources, we must monitor the condition of the world in the complementary context of these six highly interconnected global lenses so that we can make valid, informed decisions which lead to changes necessary to support sustainability on the local, regional, and global scale.
- “You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete.”
R. Buckminster Fuller

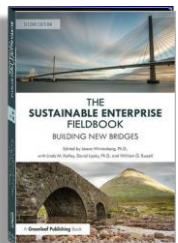


The Power of 1

- Power of influence
- Power of voice
- Power of allies and alliances



Operating in isolation is no longer an option for any of us, no matter where we are or who we are.



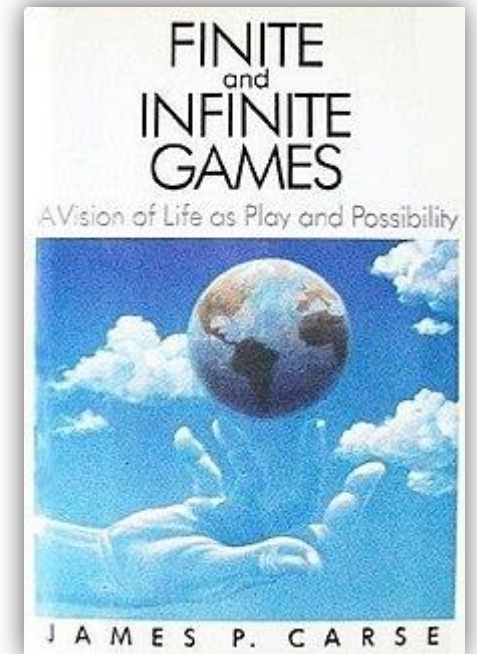
Creative Commons Copyright, 2017. Linda Morris Kelley. Attribution, Non-Commercial, Share Alike.

Finite and Infinite Games

A Vision of Life as Play and Possibility

- There are at least two kinds of games. One could be called finite, the other infinite.
- A finite game is played for the purpose of winning, an infinite game for the purpose of continuing the play.
- If a finite game is to be won by someone it must come to a definitive end.

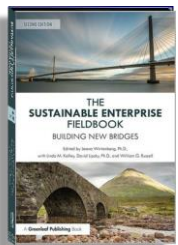
J.P. Carse, 1986



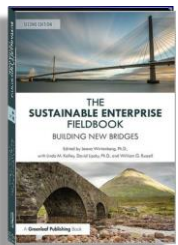
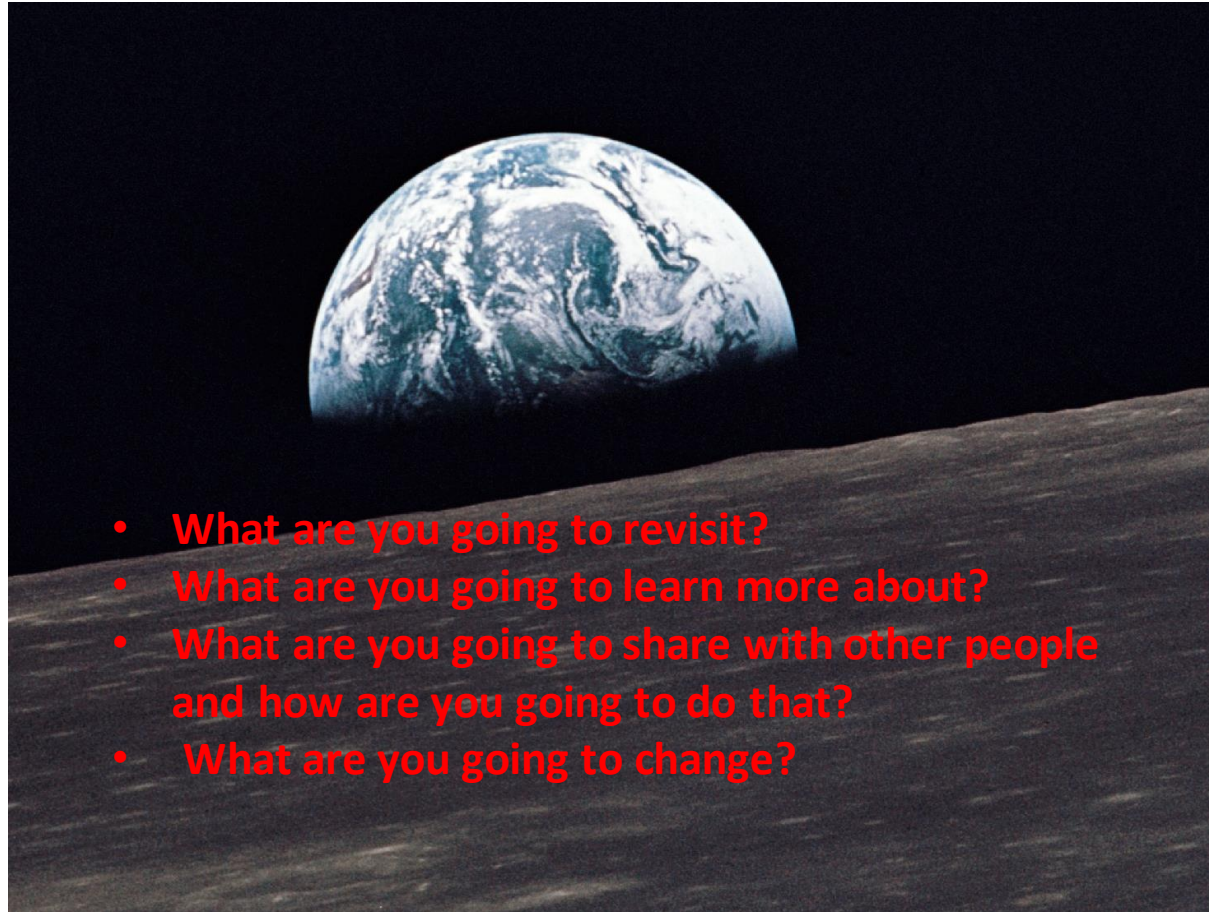
There are many, many finite games

There is only one infinite game

Sustainability is the only way we can continue to play



Reflections on sustainable globalization?



Thank you for being here!

Linda Morris Kelley

ld366496@gmail.com

