

The Great Green Reset of Global Economies: A Golden Opportunity for Environmental Change and Social Rehabilitation

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November 23, 2022

Abstract

A globally interactive geo-socioeconomic revolution will be necessary in order to sustainably resource our continued our ways of life and be able to expand beyond to the next giant leap of human progression and evolution. Applied comprehensive integrated changes coupled with a global collaboration invested in over-reaching environmental goals incorporating both the public and private sectors are at the crux of properly upgrading infrastructures and societies. Positive non-biased re-engineering of our societies and their governing laws, policies and economies must include two underlying principles- transparency and environmental transformation. These two founding principles are the Great Green Reset's scaffolding meant to address a lexicon of constantly revolving and evolving socioeconomic, political, and environmental issues. By integrating environmental sustainability and reclamation in conjunction with promoting biodiversity, We, being a socially accepting, fair, safe and healthy Peoples, can progress confidently into the Fourth Industrial Revolution knowing that at this juncture in human history and time, "We actively took a global stance choosing to make the correct decisions for the successful continuation and advancement of our species and its way of life so our future generations may experience the same lush biodiversity on Earth that we so heavily rely on for our existence". To gain the public trust, transparency and environmental transformation are the core underlying principles that create a scaffolding of sound, logical, common-sense science policies that legislative decisions are built around. Along with developing national and international science policy frameworks centered around a healthier, greener, smarter future, legislators should reap the deep benefits of having a highly qualified transdisciplinary science team dedicated to consulting with indigenous peoples, local communities, and key experts to provide unbiased opportunity to re-imagine and re-engineer science policy promoting fair socioeconomic equitable equality at all levels of interaction on local, national, and international framework scales. All this must be envisioned within a circular economy.

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crafting new sci-pol ppt notes.docx available at <https://authorea.com/users/543737/articles/601375-the-great-green-reset-of-global-economies-a-golden-opportunity-for-environmental-change-and-social-rehabilitation>

The Great Green Reset of Global Economies: A Golden Opportunity for Environmental Change and Social Rehabilitation

Shannon Vattikuti

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PRESENTED AT:



UPDATING SUSTAINABLE SCIENCE-POLICY

New Science-Policy Construct:

1. Equitably Fair.
2. Benefits the general public's health regardless of their socioeconomic status.
3. Informs and educates citizens of all ages.
4. Promotes socially and monetarily feasible environmental protection, reclamation, and transformative restoration.
5. Logical & 'Common-Sense' standards between humans, nature, biodiversity, and Earth's finite resources.

<http://sdg.iisd.org/news/local-governments-should-formulate-not-just-implement-policy-for-green-recovery/> (<http://sdg.iisd.org/news/local-governments-should-formulate-not-just-implement-policy-for-green-recovery/>)

TRANSFORMATIVE CHANGE & BRIDGING THE GAPS

[VIDEO] <https://www.youtube.com/embed/16vVIzxrzw?rel=0&fs=1&modestbranding=1&rel=0&showinfo=0>

Integrating socioeconomic equality helps to bridge the three branches of government--legislative, executive, and judicial branches--prioritizing the necessary platforms which establish a harmonizing global balance between society, technology, indigenous cultures, and nature.

[VIDEO CLIP REQ.]

Applying a global Green Reset using the OneHealth approach and nature-based innovation re-establishes the broken equilibrium between the human-biodiversity-sustainability NEXUS within our current global economy.

SUSTAINABLE DEVELOPMENT GOALS (SDGS)

- New science policy frameworks centered around fairness and transparency promote the actionable and overarching goals need for adequate biodiversity protection, reclamation, and standardization. U.N. SDGs 2030 (<http://sdg.iisd.org/sdgs/>)
- Humans, now the dominant planetary species, require vast quantities of resources--neglecting community health, socioeconomic fairness, and environmental biodiversity.

FOURTH INDUSTRIAL REVOLUTION (4TH I.R.)

Hallmarks of the 4th Industrial Revolution:

1. Re-engineering global science-policy framework architectures to revolve around environmentally sustainable, equitably fair, long-term stable circular economies.
2. Equitable socioeconomic policies structured with theoretical and applied concepts spearhead a suite of overarching global environmental uncertainties and insecurities.
3. Promoting sustainability, biodiversity protection, as well as narrowing gaps in social injustices between races and demographics boldly register at the top of critical issues, we face in a post-COVID-19 society.
4. Operating guidelines of world leaders, intergovernmental agencies, and policymakers alike must come to a common understanding and theme, **"That we are all in this together."**

UNDERSTANDING THE LINKS

1. Such interconnected highly evolved and diversified systems over billions of years have simultaneously promoted the rich biodiversity we see today.
2. Earth's evolutionary tree of life contains a robust lexicon of various genetic pools that act as **global stress indicators**.
3. Humans, plants, animals, fungi, bacteria, viruses, & other organisms all compete for the same resources on our planet.
4. Human advancements within civilization require continual supplies of resources for (i.) Infrastructure; (ii.) Public health & well-being; (iii.) and, Sustained progress & population growth.
5. Each perturbation in our global climate regime, which is pronounced by the severe weather patterns observed, is suggestive of a continually evolving rapidly changing Earth-integrated-system.
6. Unfortunately, there are **direct consequences** with continually obtaining these resources on a globally-driven scale:
 - Continual degradation of Earth's integrated and highly interdependent systems.
 - Biological, Atmospheric, & Lithological breakdown of terrestrial-to-marine environments-- (i.) Rainforests; (ii.) Arboreal Forest & Permafrost (iii.) Mangroves & Coral Reefs; (iv.)

THEORETICAL, LOGICAL, & EQUITABLY F.A.I.R. GLOBAL SCIENCE-POLICY IS CRUCIAL

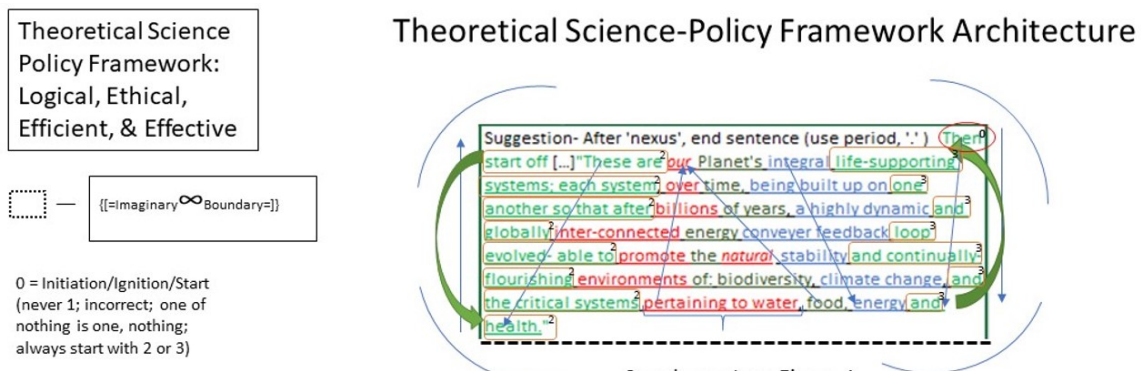


Figure 1. [TEXT NEEDED]

Re-engineering global sustainability frameworks based on national and international biodiversity management protocols and guidelines promote circular economies helping prevent the integrated breakdown of life-supporting ecosystems.

∴

Eq.1, *Theoretical a Priori Construct*:

Socioeconomic Vars: **F.A.I.R.**

[**F**= For, **A**= All, **I**= Inclusive, **R**= Rights]

Spatial Vars: **x**= QoL, **y**= SiL, **Z**= EdSecur

x= Qlty_of_Life

y= Stds_in_Living

Z= ((±(Education / JobSecurity)) + (%PopTot_Working / %JobTot_Avail))

Temporal Vars: **a, b, c, ...z**

a= Past, **b**= Present, **c**= Future, ...**z**= Cyclical Generations

1st priority: [No Prior Knowledge && ←(Open Training)→ && Highest Pay]

$$f(x) = [F.A. \rightarrow |a, b, c \dots z| \leftrightarrow I.R.]$$

$$+ f(y) = [I.F. \rightarrow (| (b, c, \dots |a|) \dots z |) \leftrightarrow A.R.]$$

$$f(Z) = [R.F. \rightarrow \dots z |a+b| = c \leftrightarrow A.I.]$$

$$f(x, y, Z) = [\{ (OccupationGrowth_rate \geq 20\% | \&\& | ('P'_{Edu_req.} + \$0.00_{Cost_training})) \}]$$

Figure 2. Multi-variable Schmea parameterizing coefficients in Universal and Equitably F.A.I.R. Reskilling Standardization.

As both terrestrial and oceanic weather systems have significantly increased in intensity globally over the last decade, especially within the Gulf of Mexico, it is pertinent to create a sophisticated (main & several auxiliary forms) network of education promoting healthier standards of living and quality of life for both rural and urban communities. Maintaining critical infrastructure during catastrophic storms, tornados, hurricanes, floods,

fires, and other natural disasters/hazards will be a national priority in the 21st century. For instance, my home state of Mississippi has experienced flooding, multiple hurricanes and severe weather that has promoted deadly and destructive tornados. These globally interconnected and multifaceted trends are rapidly evolving on an annual cycle and various spatiotemporal scales. Climate change affects everyone, from the indigenous and local communities to regional and national infrastructure and security.

WHAT'S TO COME

Transitioning from theoretical to applicable sustainability holistically confronts these uncertainties by re-engineering and integrating common-sense science-policy frameworks into regional, national, and multi-lateral legislation.

DISCLOSURES

No conflicts of interest exist with this presentation. A portion of the material being presented has been submitted as an abstract to the American Geophysical Union's Fall Meeting 2020.

AUTHOR INFORMATION

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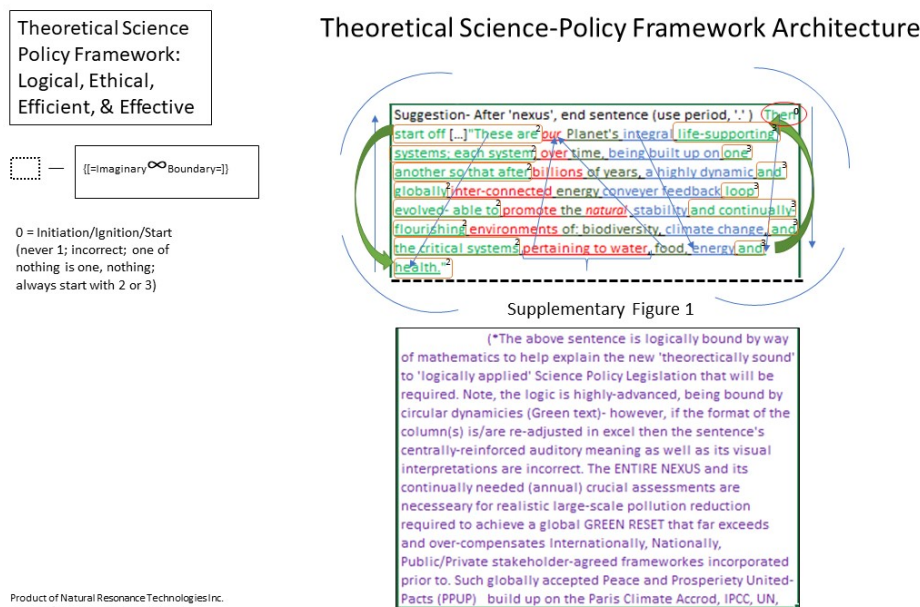
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ABSTRACT

A globally interactive geo-socioeconomic revolution will be necessary in order to sustainably resource our continued our ways of life and be able to expand beyond to the next giant leap of human progression and evolution. Applied comprehensive integrated changes coupled with a global collaboration invested in over-reaching environmental goals incorporating both the public and private sectors are at the crux of properly upgrading infrastructures and societies. Positive non-biased re-engineering of our societies and their governing laws, policies and economies must include two underlying principles- transparency and environmental transformation. These two founding principles are the Great Green Reset's scaffolding meant to address a lexicon of constantly revolving and evolving socioeconomic, political, and environmental issues. By integrating environmental sustainability and reclamation in conjunction with promoting biodiversity, We, being a socially accepting, fair, safe and healthy Peoples, can progress confidently into the Fourth Industrial Revolution knowing that at this juncture in human history and time, "We actively took a global stance choosing to make the correct decisions for the successful continuation and advancement of our species and its way of life so our future generations may experience the same lush biodiversity on Earth that we so heavily rely on for our existence". To gain the public trust, transparency and environmental transformation are the core underlying principles that create a scaffolding of sound, logical, common-sense science policies that legislative decisions are built around. Along with developing national and international science policy frameworks centered around a healthier, greener, smarter future, legislators should reap the deep benefits of having a highly qualified transdisciplinary science team dedicated to consulting with indigenous peoples, local communities, and key experts to provide unbiased opportunity to re-imagine and re-engineer science policy promoting fair socioeconomic equitable equality at all levels of interaction on local, national, and international framework scales. All this must be envisioned within a circular economy.



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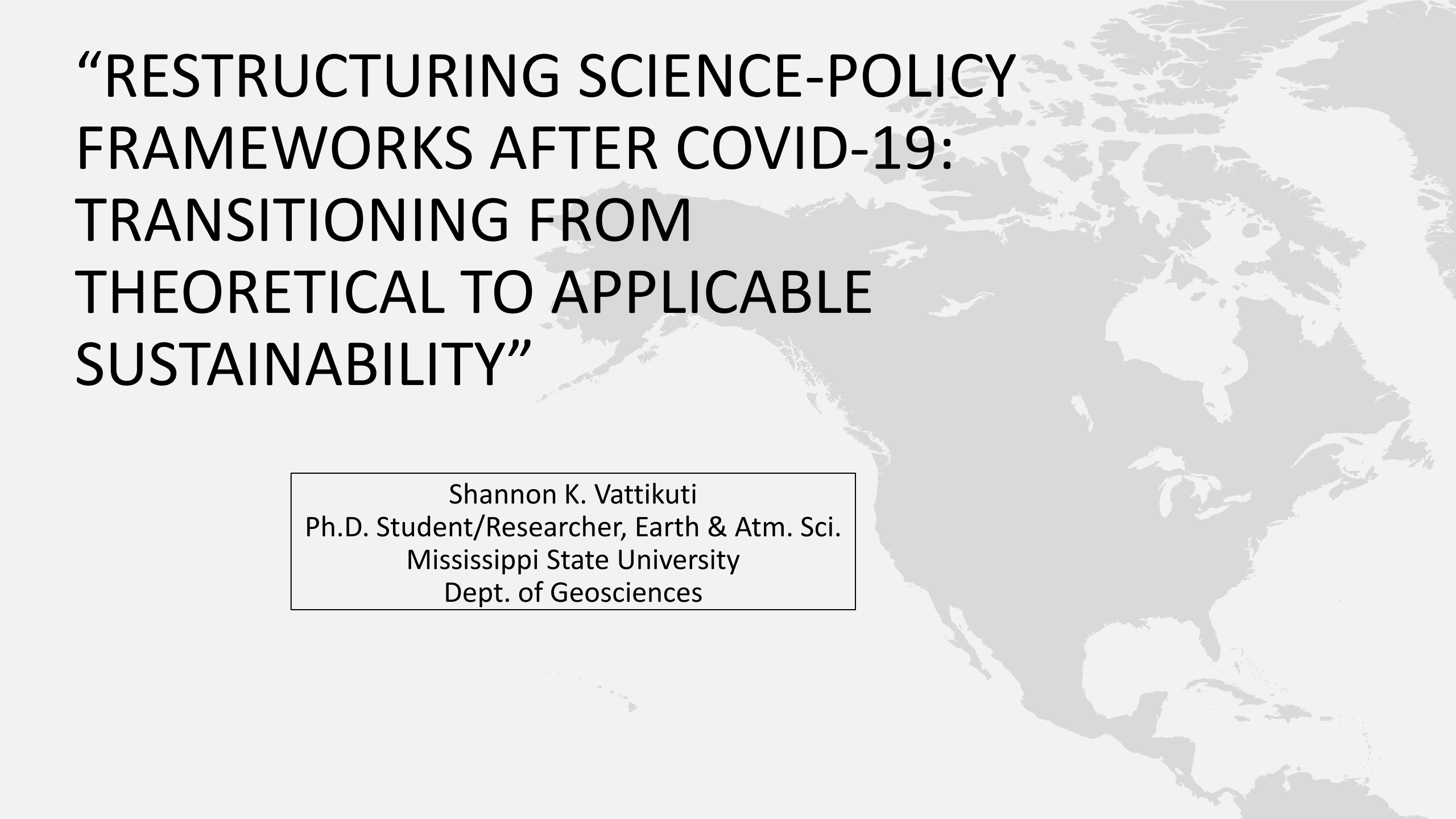
REFERENCES

1.

**Sustainable Development Goals |
SDG Knowledge Hub | IISD**

sdg.iisd.org

“RESTRUCTURING SCIENCE-POLICY FRAMEWORKS AFTER COVID-19: TRANSITIONING FROM THEORETICAL TO APPLICABLE SUSTAINABILITY”

A faint, light gray world map is visible in the background of the slide, centered behind the text.

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DECLARATIONS OR CONFLICTS

NO CONFLICTS OF INTERESTS DECLARED WITH THE DATA AND MATERIALS USED IN THIS PRESENTATION.

- A portion of the material being presented has been submitted as an abstract to the American Geophysical Union's (AGU) Fall Meeting 2020. *"The Great Green Reset of Global Economies: A Golden Opportunity for Environmental Change and Social Rehabilitation"*; Session SY005. Beyond Statistics: Providing Science-Based Guidance to Support Resilient Investment in an Uncertain Future. Abstract ID# is: 771961. Submitted 07/29/2020.

RE-ENGINEERING SCIENCE-POLICY FRAMEWORKS: A MOTIVATING ARCHITECTURE PROMOTING FUTURE EQUITY

Personal Statement:

- Science-Policy Frameworks can be viewed as:
 - a) Logical & 'Common-Sense' standards between humans, nature, biodiversity, and Earth's finite resources
 - b) Equitably Fair Science-Policy:
 - i. Benefits the general public's health regardless of their socioeconomic status
 - ii. Informs and educates citizens of all ages
 - iii. Promotes socially and monetarily feasible environmental protection, reclamation, and transformative restoration

*"WE WILL ONLY CHANGE IF
WE WANT TO CHANGE"
His Royal Highness Charles,
Prince of Wales, 06/05/2020, World
Economic Forum: The Great Reset*

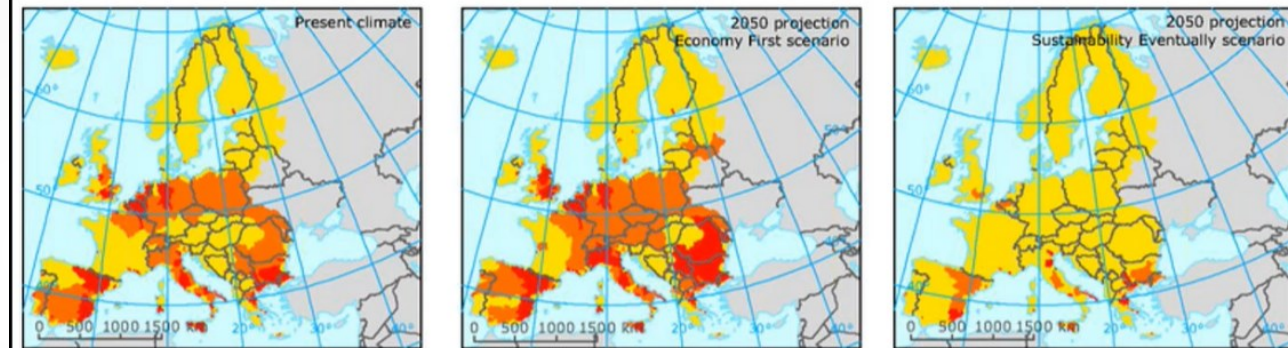
Founders of the National Academies
of Science, Engineering, and Medicine



...AS SCIENCE-POLICY PROTOCOLS AND CONTINGENCIES INEVITABLY SURPASS AND OUTPERFORM THE LEGISLATIVE, EXECUTIVE, AND JUDICIAL BRANCHES OF GOVERNMENTS WORLD-WIDE POST ~2050 A.D.

- Science-policy begins to govern legislation directly correlating the consequences between anthropogenic disruption and global climate change
- Transparency should be self-evident to the public when drafting and implementing Science-Policy
- Science-Policy Frameworks should be a regional to global standards.
- Science-Policy is constructed around unbiased science

EU context – water scarcity



Annual water stress for present conditions and projections for two scenarios



- European Energy Agency, 2012, [*Annual water stress for present conditions and projections for two scenarios*](#)

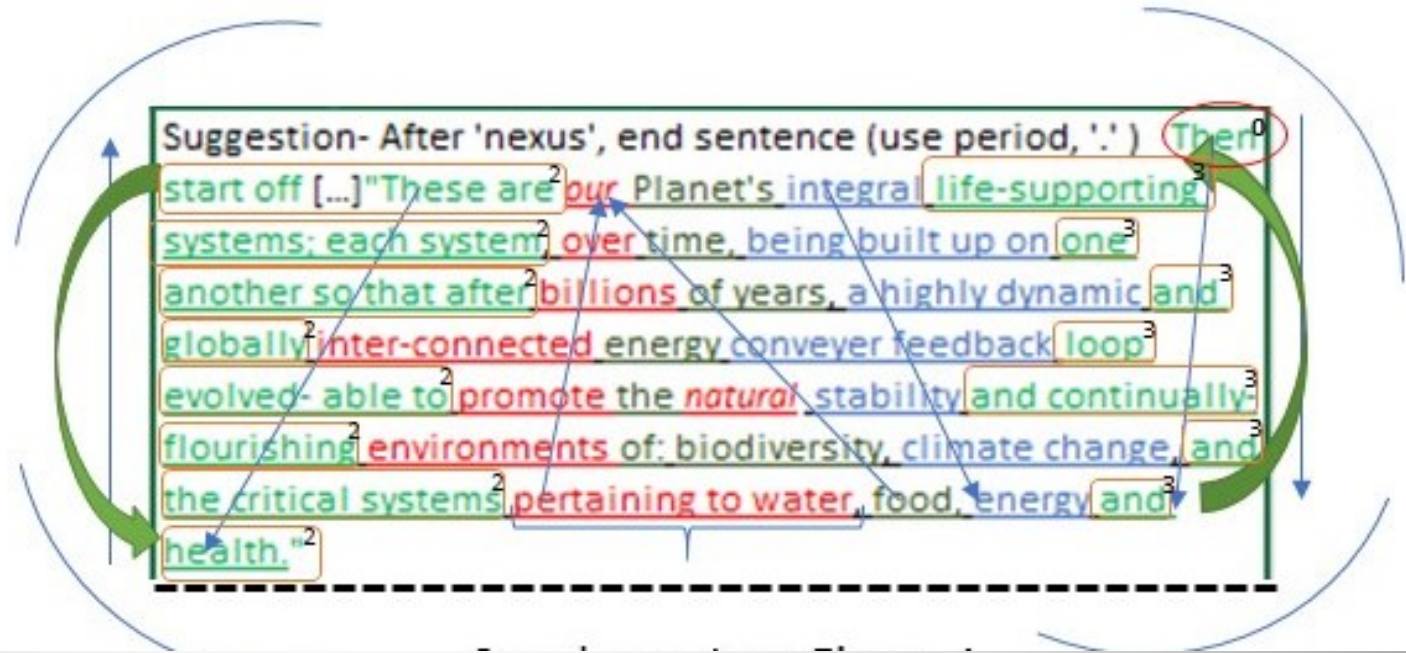
Theoretical Science
Policy Framework:
Logical, Ethical,
Efficient, & Effective



{[=Imaginary ∞ Boundary=]}

0 = Initiation/Ignition/Start
(never 1; incorrect; one of
nothing is one, nothing;
always start with 2 or 3)

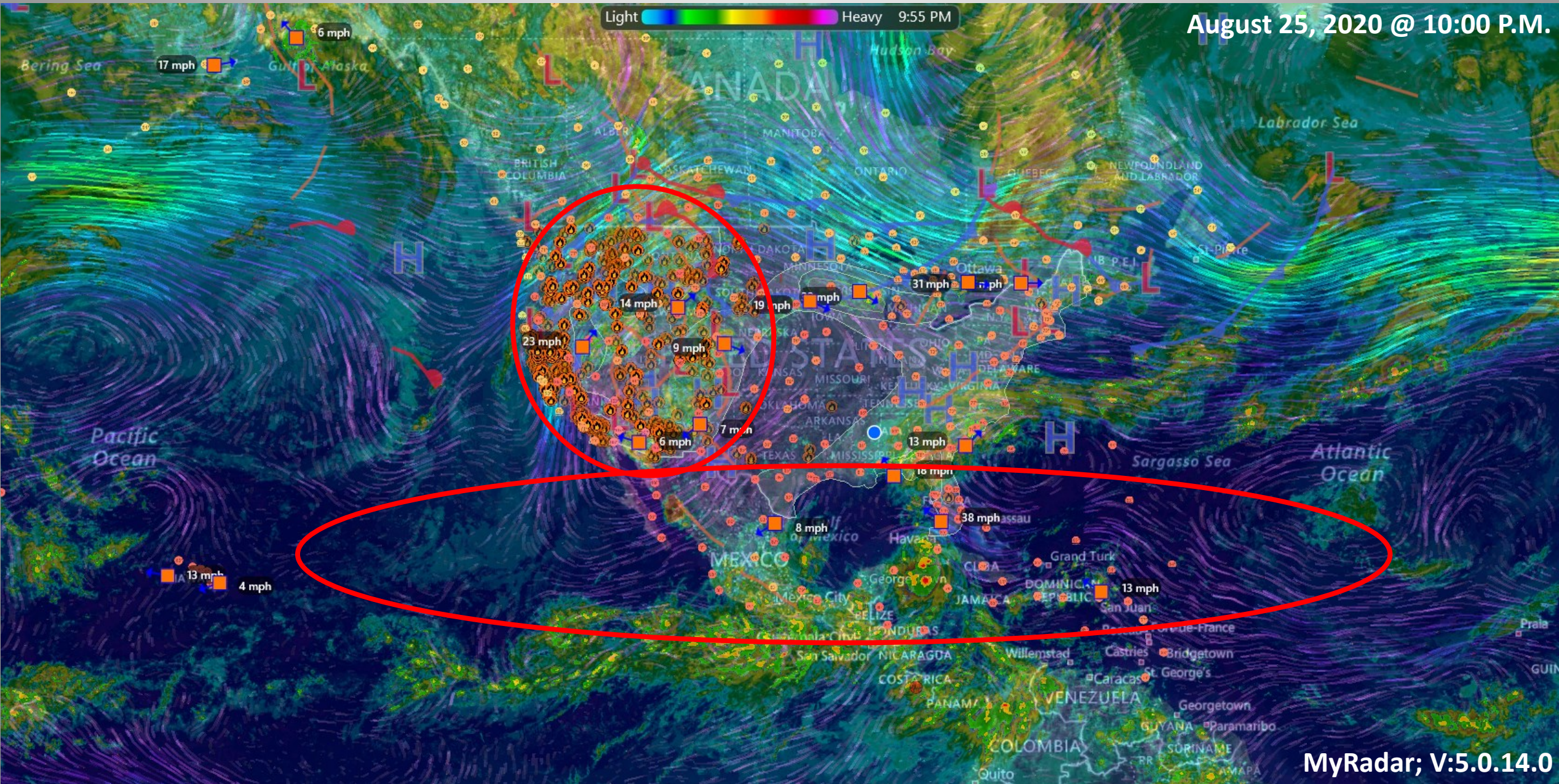
Theoretical Science-Policy Framework Architecture



OUTLOOKS

- Re-engineering global science-policy framework architectures to revolve around an environmentally sustainable, equitably fair, long term and stable circular economies are the hallmarks of the Fourth Industrial Revolution.
- Operating guidelines of world leaders, intergovernmental agencies, and policy makers alike will have to come to a common understanding and theme, "That we are all in this together".

A PREVIEW OF WHAT'S TO COME...



ACKNOWLEDGEMENTS:

- United Nations & World Health Organization
- GEO Health CoP
- IPBES (Intergovernmental Sci.-Pol. Platform on Biodiversity & Ecosystem Services)
- American Geophysical Union (AGU)
- Mississippi State University (MSU), Attending Institution



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MEDICINE

Thank You



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Questions & Comments?



*Empowered lives.
Resilient nations.*



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ADAPTATION PROFESSIONALS

