

Policy Options to a Radical New Normal

EDIT AT WILL BUT DO NOT DELETE IDEAS

If your policy overlaps with 2 themes, add it to both and put the linked theme in parentheses beside it.

Notes from Posner:

- Reduce the amount of information (so 2-3 key policies for each theme?)
- Avoid jargon & choose wording carefully
- Start each page with one of the stories being collected

Policy refers to written and unwritten laws, rules, procedures, processes, regulations, and guidelines that govern people.

A policy for the Ecozoic is any measure or collective agreement that produces or sustains social-ecological justice.

Click the link below to go to the segment in the document:

[Policy Options to a Radical New Normal](#)

[Intro/A2E value statement](#)

[Themes](#)

[Care and Feminism](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Conservation and Environment](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Education](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Energy](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Food](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Infrastructure and Institutions \(Housing, transportation, construction, military\)](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Justice and Inclusion](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Money and Finance](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Physical and Spiritual Health and Well-Being](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Work and Production](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Worldview and Systems Change OR Science and Governance Structures](#)

[Description](#)

[Individual Policy/Action](#)

[Local/Municipal Policy](#)

[State/Provincial/Federal Policy](#)

[Resources](#)

[Related Stories/Examples](#)

[Sign up \(writing, available & interested for interviews/videos\)](#)

[Contributors](#)

Intro/A2E value statement

Uneven Earth Green New Deal Series:

<http://unevenearth.org/2019/10/a-green-new-deal-for-an-ecological-economy/>

Points to include in the introduction:

- The basics of human living are increasingly difficult for all to access with ease
- Social and environmental constraints are getting tighter each year
- Some themes are interwoven throughout our thinking - systems/complexity, justice, Earth-Human relationship
- Foregrounded in the basics of ecological economics (add image of the 3 embedded systems)
- Compiled by a very large network of students and researchers across the world working on different pieces of ecological economics. If you don't find what you're looking for, have questions, or need clarification please contact us (link + form) and we'll make sure you get directed to the right scholar for your question.
- Each theme struggles with an ongoing problem - motivation and ways individuals can change versus systems based recommendations. Our motivation for individuals is to come for a place of acknowledgement of our ecological interdependence while the real onus is on governments to make systems change that focuses on power imbalances, injustice, and large scale change

Themes

Care and Reproduction

Description

One of the central and defining features of Ecological Economics is the recognition that the economy is embedded within the social system. The functioning of our economies is thus dependent not only on the health of the surrounding ecosystem, but the health of our social systems as well. For our social systems to thrive, we require economies that are oriented around the provisioning of humanity's basic needs at both intra- and intergenerational scales. Indeed, we are only as safe or empowered as the most vulnerable members of our communities as the COVID-19 pandemic helps make clear in two ways: first, we have learned that many of the most vulnerable are essential workers without whom our economy will not function, and second, we cannot end a pandemic as long as it continues to circulate among the vulnerable. Yet mainstream economics continues to privilege market imperatives and profit above human well-being. Policies regarding the most important, yet undervalued, aspects of life need to be reoriented from success on Wall Street to the empowerment and care of people. This includes the maintenance of daily life such as healthy meals, access to

fresh water and safe shelter, but also includes the exchange of ethics and morals, a sense of citizenship and communication skills, all of which are critical to developing the capabilities of people as workers, engaged citizens and environmental stewards now and in the future.

Individual Action

- Have open and honest household discussions about division of labour, organizing the calendar and child care - [unfair divisions of labour hurt relationships](#) and [men need to be mindful](#) of a woman's [mental load](#)
- [Teach children empathy](#) from a young age, including [empathy for non-human beings](#)
- Close communities often have a lower environmental footprint due to increased feelings of connectedness and having meaning beyond consumption. Foster a community of sharing, reciprocity, and support with your neighbours, friends and community by:
 - Offering support to community organizations such as social services, parks, seniors groups, food pantries
 - Coordinate or participate in events
 - Publicizing information through your social networks
 - Volunteering for community organizations or to hold social gatherings in your space
 - Create a community email list or social group and hold events for parents and children (Parents' nights out, community BBQ days, porch concerts)
 - Build a tiny library or tiny food pantry in front of your home
- Take time to acknowledge and appreciate the services provided in your home: cleaning and waste management, finance management, meal planning and cooking, childcare, emotional labour, exchange and support, repairing and repurposing materials, researching and sharing knowledge about skills, entertainment in the arts and sciences - you are a **producer**! See [our production policy page](#) for more information on this!

Local and Municipal Policy

- Childcare benefits or accessibility programs for those who want to remain in the workforce
- Support a [reduced and flexible work week](#) and allowances for time off so that family commitments may be more equally distributed while improving employee well-being
- A guaranteed income for all who are not working and instead are taking care of anyone a) under the age of 18, b) is disabled, c) over the age of 60, or d) care for environment and nature - sometimes referred to as a [Care Income](#)
- Ensure infrastructure is in place for access to clean, potable water or ensure delivery to underserved areas
- Feminist urban planning - see [how to build a feminist city](#)

State/Provincial/Federal Policy

- [Rethink pay](#) including a) a government job guarantee at wages well above the poverty level for all who are able to work, which will impose a floor on private sector wages; b) Universal Basic Income either for all or for those who cannot work, c) care incomes, d) top ups for parental and sick leave
- Provide financial support to refugees, women's shelters, other unhoused peoples
- Increase resources and subsidies for nongovernmental organizations that respond to domestic violence
- Ensure women's timely access to sexual and reproductive health services such as emergency contraception and safe abortion
- Implement systems to meet mental health needs effectively including delivery of medication as part of a [holistic health strategy](#)

Resources

- [\\$15 and Fairness Campaign](#)
- [Care in Uncertain Times Syllabus](#)
- [Transcending the Learned Ignorance of Predatory Ontologies: A Research Agenda for an Ecofeminist-Informed Ecological Economics](#) by Sarah-Louise Ruder and Sophia Rose Sanniti
- [Open Letter to Governments: A Care Income Now](#)
- <https://www.degrowth.info/en/feminisms-and-degrowth-alliance-fada/collective-research-notebook/>
- Feminist urban planning collective <http://www.punt6.org/en/who-are-we/>
- [Program](#)<https://nextcity.org/features/view/urban-planning-sexism-problem>
- https://apolitical.co/en/solution_article/how-to-build-a-feminist-city

Related Stories/Examples

- [Research and policy recommendations suggest](#) that companies no longer be allowed to base salary decisions on employees' previous salaries. Cessation of this practice can disrupt and prevent the perpetuation of gender pay gaps.
- [Quebec Universal Child Care Program](#)
- [Feminist recovery plan in Hawai'i](#)

Sign up (writing, available & interested for interviews/videos)

- Sophie
- Leah

Conservation and Environment

Video embed code for website <iframe width="560" height="315" src="https://www.youtube.com/embed/J_4Xpd126m4" frameborder="0" allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>

Description

It used to be that when an ecosystem was restored or conserved, we would look back to what it once was. This was a more removed form of environmentalism that saw humans as disconnected from nature. Any long term commitment to a balanced human and Earth relationship will include conservation and environmental policies that strengthen the coevolving relationship. We need environmental policy that balances both the needs of nature and humans, as well as seeks to align human activities with the natural rhythms of the Earth.

Individual Action

- Explore local and regional tourism options instead of international or even national travel. Get to know your local biosphere and create relationships with nearby nature that you and your family can nurture over long periods of time. Creating a relationship with nature helps us to feel more connected to the environment overall. Regions often have [websites highlighting local activities](#).
- Once you find local places you can access easily, try to go back to these places regularly, to [build a relationship with the place](#) and see how it changes over the seasons. Allow your children to make up stories about that place - search for fairies, try to spot elves - as they grow older they will carry the whimsy and magic with them as a relationship to place and it could [fuel environmental activism](#)
- Join (or create) local nature clubs. Give yourself opportunities to enjoy different activities outdoors, in all seasons and weather.

Local and Municipal Policy

- Include cultural components to restoration and conservation projects. Include benches for people to sit on to enjoy nature, create paths with signage to stay off of certain protected areas, and etc.
- Create eco-cultural experiences for local residences such as canoe launches on local rivers, paths through natural spaces
- Development of a local 'restoration ethic' for decision making informed by science, human culture, health of non-human species, and restorative capacity
- Hold regular festivals, gatherings, BBQs, [Nature Play groups](#), and family events in public spaces
- Remove invasive plants and plant keystone species (oak, cherry, cottonwood, birch)
- Create pollinator garden spaces

- Ban yard pesticides and implement controls on yard fertilizing
- Center Indigenous land management practices, context and location specific, by being in relationship with Indigenous communities in place, cross-referencing any resources with the communities

State/Provincial/Federal Policy

- Account for [ecosystem services](#) in overall measurements of national success.
- Design and invest in diverse outdoor spaces that both protect natural spaces and allow humans to interact with nature, considering a variety of relationships and values that humans have with nature, and thus enhancing the cultural significance of nature in people's lives
- Support art programs and grants for [environmental storytelling](#)

Resources

- Restoration Ecology for the Anthropocene - Davy, B., Kish, K., Quilley, S., Murphy, S., and McCarthy, D.
- [Humans and Nature: The Right Relationship](#) by Geoff Garver and Peter G. Brown
- [Citizen science](#) - people get trained in a narrow area to assist with collecting data etc for research. [Kris Stepenuck](#), faculty at UVM, would be a scholar to inquire with

Related Stories/Examples

- [The Elves in Iceland](#) ““We humans have forgotten about that and think we can live without nature,” Jónsdóttir told ATI. “But the elves remember and help remind us that of course we can not do that.””
- [Cross Country Pilgrimage Routes](#) getting kids to rural areas and building personal relationships with farmers
- [Love My Hood](#) Kitchener
- [Hedgelaying in Ontario's Greenbelt](#)
- [How Native Americans Managed "Wild" Land Long Before Settlers](#)
- [What western states can learn from Native American wildfire management strategies](#)
- [Indigenous Stewardship Methods and NRCS Conservation Practices](#)

Sign up (writing, available & interested for interviews/videos)

- Katie Kish
- Natalia Britto dos Santos (happy to help, but I have limited availability at the moment)
- Matt Burke
-

Education

Description

The primary objective of current educational practice in Western countries is to produce students who are equipped with skills and competencies necessary to engage effectively with the labour market. Instead, education needs to teach creativity, innovation, and adaptability for a turbulent and uncertain future. Children should be spending more time outdoors with more hands-on learning. Universities need to produce eco-conscious problem solvers and critical thinkers, not simply efficient workers.

Individual Policy/Action

- Allow children to cook, clean, cut, sew, climb, explore, and ask questions.
 - Encourage coordination and sharing of responsibility for educating children between those groups? home schooling expanded into/through the community. of course, ideally, that would be/need to be in tandem with drastic reduction in expectation/need in hours spent in labor market work.
- Take kids outdoors in all seasons and kinds of weather, to let them explore nature in a [child-led way](#) (i.e., allow them opportunities to find what they are interested in, and allow time for them to explore it. Adults can bring suggestions and inspirations, but let kids be kids)
- Lobby your local educational governing body to include environmental and justice/inclusivity programming and significant outdoor time for children of all ages

Local/Municipal Policy

- Enforce minimum mandatory outdoor programs for kids at all school levels, [children need to be outside](#) for their mental, physical, and environmental health
- Provide outdoor cultural, educational, and relational activities for people of all ages
- Make knowledge free - open access knowledge portals through schools, libraries, universities, etc. to expand learning opportunities
- Building community relationships and community-engaged / service-learning courses. This can provide an opportunity for students to learn from experiential experts, rather than academic experts (who often don't have much relevant personal experience). Agriculture is a great example here - we can pay farmers who are willing to share their expertise with students through applied, experiential courses. This also honors epistemic plurality in an actionable way.
- Redevelop elementary and secondary curriculum
 - Slow down, put into perspective and eventually quit "toxic teaching", i.e. the teaching of toxic principles (e.g., growth at all costs, even at the cost of sending people to work when it's unsafe, just to keep the GDP up)
 - Create curriculum that includes alternative pedagogical approaches (e.g.: child-led learning, with teachers-learners relationships being more mentorship-based)

- Curriculum redevelopment that improves critical thinking, [hands-on skills](#), ecological and community based morals, and resilience building

State/Provincial/Federal Policy

- Shrink and reorganize higher education
 - Rethink the tenure process and eliminate the job-for-life guarantee
 - Limit the number of graduates and PhDs
 - Re-create polytechnic craft colleges with emphasis on practical, DIY manufacture and innovation combining traditional craft and engineering skills with high tech autonomous fabrication/additive manufacturing
 - Diversify funding channels
- Punish universities for failure to sustain freedom of speech and expression and for lack of diversity of perspective
- Require publicly funded universities to have equitable gender and racial representation on governing Boards
- Defund/merge into broader disciplinary areas (sociology), ideological /sectarian programmes (gender studies, critical race studies); or insist an equal number of mirror disciplines promoting alternative perspectives
- Incentivise students to stay local - linking grants and loans to programmes in the vicinity of 6th form education. Hyper-mobility has been a feature of HE since the 1960s, but this actively drives individualization, erodes strong lived intergenerational families, fosters a society of spatially/mobile individuals dependent on the Market and the State more than family/community, and in the end creates externalities (e.g. elder care) that can only be accommodated by State/Market - further exacerbating dependence on growth. Mobile self-actualizing individuals, for whom only questions are 'Who am I?; what could I become?' - become much more dependent on material success and consumption for meaning, and are less likely to carry forward family traditions and place-bound rituals (church going, indigenous ceremony etc). The society of individuals drives and is driven by the consumer society .

Resources

- Uneven Earth Green New Deal Series: [Education](#)
- [From the Anthropocene to Mutual Thriving: An Agenda for Higher Education in the Ecozoic](#) by Ivan Vargas Roncancio, Leah Temper, Joshua Sterlin, Nina L. Smolyar, Shaun Sellers, Maya Moore, Rigo Melgar-Melgar, Jolyon Larson, Catherine Horner, Jon D. Erickson, Megan Egler Peter G. Brown, Emille Boulot, Tina Beigi, and Michael Babcock
- [Jstor Makes Information Accessible to the Public](#)
- A [2020 manifesto aimed at a conservative audience](#), with green political economy in mind
- An example of an Ecozoically aligned university - [CIDECI](#) in Chiapas, Mexico

Related Stories/Examples

- [Nature Connect](#)
- [EcoSchool Canada](#)
- [Ignore Productivity Pressure](#)

Sign up (writing, available & interested for interviews/videos)

- Katie Horner (happy to help, but I don't have enough expertise here to be a lead)
- Matt
- Alice Damiano (only for the "quit toxic teaching" subtopic, which I just added)
- Nina and ditto what Katie H. said

Energy and Climate Change

Description

- Chaos in the energy sector due to the shutdown and the geopolitical context: good news and bad news
- Long-term consequences such as changes in energy consumption patterns, collapse of the fossil fuel sector, interruption in the shift to renewables, and the potential for supply crunch down the line.
- As Nafeez Ahmed suggests, is this crisis or what comes from it the beginning of civilizational phase shift?
- Policy must be guided by 1) an accurate and realistic understanding of the role of energy in society and 2) a willingness to honestly confront the profound socio-economic implications of a shift to a renewable energy basis

Individual Policy/Action

- Reduce overall energy use at the household level, through
 - absolute reductions in the consumption of energy services (e.g. working from home when possible, discouraging frivolous travel),
 - shifting to more efficient modes of providing energy services (e.g. public transit and micromobility over cars), and
 - prioritizing shared rather than individualized utilization of energy services (e.g. community kitchens, ride-sharing)

Local/Municipal Policy

- Energy literacy introduced to school curricula to provide a realistic view of energy transition prospects and enable transformative thinking
- Community energy planning

- Neighborhood/institutional retrofits for energy efficiency
- Local, peer-to-peer or communal energy production to the extent possible
- District energy
 - Feasibility studies
 - Anchor institutions (i.e. hospitals, universities)
- Initiatives to reduce overall energy use in buildings and households

State/Provincial/Federal Policy

- Public buyout and long-term winding down of fossil fuel industry along just transition principles, done in such a way as to avoid critical shortages during the renewable energy build-out
- Retraining and support programs for workers in fossil fuel industry and sectors needing help to transition away from carbon-intensive practices
- Rural cooperatives for production and ownership of electricity and telecom
- Nationalization of the energy sector where necessary
- Re-localization of industrial policy
- Shifting away from GDP growth as a guiding principle for economic policy to allow for reductions in useful energy delivered (strongly correlated with GDP growth - Ayres, Warr, Kummel, et. al) while minimizing the resulting social and economic impacts stemming from economic contraction
- Prioritize energy sufficiency

Resources

- Uneven Earth Green New Deal Series on Energy:
<http://unevenearth.org/category/gnd-series/>
- *Our Renewable Future*: <https://islandpress.org/books/our-renewable-future>
- In Support of a Physics-Based Energy Transition Planning: Sowing Our Future Energy Needs: <https://link.springer.com/article/10.1007/s41247-017-0031-2>
- *The Economic Growth Engine: How Energy and Work Drive Material Prosperity*:
<http://pure.iiasa.ac.at/id/eprint/8944/>
- It'll be harder than we thought to get the carbon out [Blueprints for a Miracle]:
<https://ieeexplore.ieee.org/abstract/document/8362233>
- [Degrowth and Technology: Towards feasible, viable, appropriate and convivial imaginaries](#). 2018.

Related Stories/Examples

- {Not sure where is best for these}: 1) massive reduction if not elimination of advertising and marketing industries and activities, that prey on social status hunger and drive frivolous, one-upping-others consumerism 2) appropriate low-tech technologies, culture change in relationship to technology development and

innovation - see *degrowth and tech* resource
above <https://www.cooppower.coop/about-us>

Sign up (writing, available & interested for interviews/videos)

- Tim
- Martin
- Matt
- David
- Chris

Food

Description

Most of our food systems are dominated by international markets. If we do not address the fundamental structural flaw of treating food only as a commodity rather than seeing multiple dimensions of food, we miss a huge opportunity to build resiliency that requires us to approach food as a commons. Food market is complex and difficult to change as it is a strongly embedded system with many transnational ties. While the individual can change behaviour to establish their own ecological relationship to food and community, the real onus is on governments to help create systemic change in the way food is produced, traded, and distributed to people.

Individual Policy/Action

- Ask your neighbors if they need help getting or paying for groceries.
- Support local food producers as often as possible. Shop at local farmer's markets and small chain grocery stores.... less or more thoughtful meat consumption, local diets
- [Grow your own food](#) in your garden or on your balcony
- Create a local farmer union (thinking back to the power of farm worker organizing in the 60s)
- [Buy/Join a CSA](#)
- Participate in democratizing food systems -- start a buying club or join one on Open Food Network

Local/Municipal Policy

- Basic income and unions for local farmers
- Make space for regional farmers' markets; include activities for families and local producers to make this an enticing and interesting place for families to frequent

- Provide entrepreneurial start-up funding and incubation hubs for technology, social services, food services, and physical goods. Make affordable space for start-ups, creative hubs for artists, and sponsor locally relevant events to showcase this work
- Eliminate barriers for local food production and selling - allow community members to make their own foods and beverages to trade with others
- Support appellation control to link products to landscapes
-
- Incentivize growing food in people's lawns. Work on rezoning policies where needed

State/Provincial/Federal Policy

- Ban [CAFOs](#) (link does not include uncomfortable imagery)
- Change laws that 'exceptionalize' farm workers (for example, farm workers don't qualify for overtime pay after 40 hours the way other hourly workers do)
- Scale taxation system so local food sellers and producers pay very little tax while national and multi-national chains pay much more (such as McDonalds)
- Remove state control on alcohol and marijuana consumption, production, and sale to create a strong market of local small-scale brewers and growers
- Changing zoning and permitting policies to enable small-scale agriculture and food production
- Treat farmers and food providers like Health Care providers and ensure a basic food box for all Take basic food out of the capitalist economy and treat it as a public good
- Fundamental restructuring of policy AWAY from export orientation and towards a multi-functional approach where food and OTHER policy silos are brought together... there is room for a food economy in addition to working towards social production models --
- FOOD IS NOT JUST AGRICULTURE! It is land food, and fisheries, and forest-food when we are doing it right... expanding consideration of perennial ag and dietary changes to reflect climate reality.
-

Resources

- [Thunder Bay and Area Food Policy Council](#) I have permission to lift (with credit) from here for our own work in this area, this is a cogent critique of the status quo with pragmatic, real time responses at the regional level
- Uneven Earth Green New Deal Series: [Food](#)
- [The Case for Studying Non-Market Food Systems](#) by Sam Bliss
- [Community gardens as Essential Services](#)
- [Txoko - Basque Cooking Club](#)
- A [speculative manifesto](#) based on what it would take to get red-necks to vote green
- [World Food Security Letter by Dr. Jenn Clapp](#) in response to COVID-19
- [Soul Fire Farm - Take Action](#)

- Chapter: [Reframing Food as a Commons in Canada: Learning from Customary and Contemporary Indigenous Food Initiatives that Reflect a Normative Shift](#)

Related Stories/Examples

- Belo Horizonte's municipal approach to food security and food sovereignty: <https://www.futurepolicy.org/food-and-water/belo-horizontes-food-security-policy/>
- Bowles, Timothy M., Maria Mooshammer, Yvonne Socolar, Francisco Calderón, Michel A. Cavigelli, Steve W. Culman, William Deen, et al. 2020. "[Long-Term Evidence Shows That Crop-Rotation Diversification Increases Agricultural Resilience to Adverse Growing Conditions in North America.](#)" *One Earth* 2 (3): 284–93. <https://doi.org/10.1016/j.oneear.2020.02.007>.
 - Highlighting that we need to quickly get away from production systems reliant on massive scale monocropping of a handful of crops.
- [Cross Country Pilgrimage Routes](#) getting kids to rural areas and building personal relationships with farmers
- A chapter on Food Commons and Canada I co-wrote with J. LeBlanc and J.L. Vivero Pol [https://www.researchgate.net/publication/333676851 Reframing Food as a Commons in Canada Learning from Customary and Contemporary Indigenous Food Initiatives that Reflect a Normative Shift](https://www.researchgate.net/publication/333676851_Reframing_Food_as_a_Commons_in_Canada_Learning_from_Customary_and_Contemporary_Indigenous_Food_Initiatives_that_Reflect_a_Normative_Shift)
 - Emphasizing POST COMMODITY FOOD governance, shift from food export to food sovereignty view; aligns with EE values. I'd like to see this model be a centre piece (I am busy in my PhD work adapting it to the settler colonial context and i am not done yet, but have made some shifts)
- Lyla June Johnston's [work on recovering Indigenous food systems](#) and related [work](#)

Sign up (writing, available & interested for interviews/videos)

- Sam
- Caitlin
- Maria
- Matt
- Katie H.
- Janica
- Jodi K.

Infrastructure and Institutions (Housing, transportation, construction, military)

Description

advertising

Individual Policy/Action

- Explore alternative transportation methods such as car sharing, biking, telecommuting, and public transportation
- Join community groups focused on protecting wildlife and resources
- Shrink your lawn

Local/Municipal Policy

- Enforce rental restrictions including rent capping and rules protecting renters
- Plan and build pedestrian streets in the core of communities and cities
- Ban watering lawns, bottled water extraction, and water softeners to save natural water systems
- Encouragement of non-car transportation, from biking to public transport (this can also go in state/provincial/federal)
- Create no mow zones
- Install motion lights so as not to disrupt animals at night
- Eliminate single-family-only zoning, which contributes to sprawl, automobile dependence and racial segregation.

State/Provincial/Federal Policy

- Significantly shrink the military budget while instituting mandatory national service in which military is one option of many

Resources

- Uneven Earth Green New Deal Series: [Military and Justice](#)

Related Stories/Examples

- [Wellington Water Watchers](#)

Sign up (writing, available & interested for interviews/videos)

- Matt
- Steve Quilley
- David

Justice and Inclusion

Description

National and transnational legislations, court provisions, and governance models across the world increasingly recognize the legal subjectivity of animals, rivers, and forests, among other beings and relations. The contested constitutional clause of the rights of nature (RN), for example, is a growing legal response to the “*inter-related global crises of climate, food, energy, poverty, and meaning*’ (Escobar 2016: 13). While the RN expresses the interdependence between ecological and social systems, the legal discipline is still deeply informed by the mindsets, practices, and institutions casting nature as a limitless source of goods and services to meet ever-expanding human needs. To state it in terms of scholar Thomas Berry—considered one of the founding figures of the Earth jurisprudence movement—the discontinuity between humans and nonhumans, and the ensuing bestowal of all rights to humans alone is at the root of the socio-ecological devastation of our planet. The task ahead, he insists, is that of re-inventing the human while re-embedding our social and normative systems within the broader community of life. A radical transformation of legal education is part and parcel of this challenging task. Here are a few ideas to help aid necessary transformations in the legal education as part and parcel of a global movement for socio-ecological forms of justice:

1) Teaching theories/practices of justice that underscore nonhuman suffering as part and parcel of a concept of justice.. The fact that human life is inextricably intertwined with life and non-life, human and not suggests that the concept of justice should include nonhumans as entities that can potentially be subjected to various forms of injustice. Socio-ecological justice embraces just social relations among persons, but also relations of responsibility and care towards the nonhuman world. This proposal derives from the full understanding of the entanglements between human and nonhumans, and how they both transform each other. In brief, social justice but also ecological justice; forms of social inequality, but also forms of ecological injustice are two sides of the same issue.

2) Teaching theories/practices of the state that redefine the concept of “state obligation” in terms of a new semantic and ethical approach to nature. The so

called “anthropocene” requires a new understanding of the relationship between humans and the environments in which they live, and a series of positive obligations of the state vis-à-vis what different levels of state (from the executive to the judiciary) legislate and adjudicate “nature’s” rights. In this regard, we need to carefully consider a new **socio-ecological contract** that places nonhumans as subjects in their relations with the state (i.e. rights of natures and responsibilities to nature), both in terms of rights and obligations (Is a nonhuman a “responsible” entity?). Moreover, we should consider how certain forms of eco-centrism might transform institutional arrangements of the modern state, not only at the level of principles of governance (i.e. sustainability, environmental justice, reciprocity, precautionary principle), but also at the micro-level of institutional engineering.

3) Teaching an ecological political and legal theory: Legal theory should address not only human but human-nonhuman relationships, laying the ground for ecological political theory as a fundamental principle of governance at any scale (from the community to the state and the international realm). This might open up a possibility of a new politics that go beyond human-to-human power relations (but that also includes them), thus compromising the very way in which we (humans) conceive the making of the public sphere. In this sense, a principle of governance for these rapidly changing times should include “life” in all its forms, instead of the social life of the human alone.

Caveats: Retrieving the centrality of the ecological relations in the organization of public life has immense consequences for these 3 fields. A few questions emerge: 1) how to politicize nature without de-politicizing human relations (a legal theory of the anthropocene is not anthropocentric, but it cannot be just bio-centric). 2) How to consider the role of materiality, and the vulnerability of human and nonhuman bodies without neither romanticizing our relations to the environment, nor eclipsing social inequality. 3) How to actualize power relations analysis to understand the sources of inequality, without losing sight of ecological inequalities (i.e. the unequal distribution of harm across the Global South and the Global North), among others. It also suggests important questions of moral philosophy, and legal pluralism: Can nonhumans be moral subjects? Can we extend ethics to nonhuman worlds? What can we learn from grassroots legal pluralism?

Individual Policy/Action

- #landback

Local/Municipal Policy

- Support local cultural activities based on the heritage of the region and reconciliation with Indigenous people

- Provide increased access to sanitation and emergency shelter spaces for homeless and other folks in need

State/Provincial/Federal Policy

- Stop talking about social justice and feeding sectarian ethnic/racia/gender narratives of original sin. Identity politics on the left begets identity politics on the right - as night follows day. It has happened in America in Europe - and it's tragic.
- Encourage and develop institutions and innovations than build broad-based forms of social capital and mutual identification (such as the Basque Txoko - see below)
- **Ecological literacy for lawyers, judges and other adjudicating parties.** Teach lawyers and other practitioners basic ecological principles (potentially as a requirement for the practice of the legal profession in social and environment-related fields: labor law, administrative law, constitutional law, corporate law)
- **Formally teach socio-ecological principles of governance in legal and political theory courses in universities.** Students in higher education should have some level of *socio-ecological governance literacy* before graduating. For example, by teaching them classical contractual theories and how they change when we include ecological principles (i.e. symbiosis, resilience, complex systems, etc.)
- **Integrate grassroots knowledge into policy making around issues of justice.** This means to treat community knowledge as “knowledge” in its own right (cognitive justice).
- **Support popular Socio-Ecological Justice Tribunals.** People should be able to hold companies accountable for environmental damage. We need to attend to local justice systems to do this (i.e. how communities adjudicate justice in socio-ecological conflicts that affect them and their territories directly).
- **Declare indigenous territories as victims of environmental harm and socio-ecological injustice.** For many indigenous communities land is person. This means that land can also be subject of injustice. We need to re-think our concepts of “reparation” and “reconciliation” to integrate ecological systems.
- **Formally recognize the existence of an ongoing colonial ecological injustice in history and policy.** This means that as much as there are forms of injustice cutting across issues of race, class, and gender, there are forms of ecological injustice that specifically arise because of ongoing colonial relations. Any opportunity to acknowledge this in theory and practice is valuable.

Resources

<http://navigatorsoftheanthropocene.com/one-vote-one-club-communitarian-demos-proposal-based-on-txoko-basque-cooking-club/>

On peoples tribunals:

<https://www.opendemocracy.net/en/opensecurity/peoples-tribunals-and-roots-of-civil-society-justice/>

<https://rabble.ca/news/2012/07/people%E2%80%99s-tribunal-mining-impacts-why-we-found-goldcorp-guilty>

On indigenous legal traditions:

<https://libguides.uvic.ca/iluvic>

Atlas of Environmental Justice

<https://ejatlas.org/>

On the crime of ecocide:

<https://ecocidelaw.com/the-law/what-is-ecocide/>

On local initiatives for socio-ecological justice:

<https://www.equatorinitiative.org/wp-content/uploads/2019/02/Wuasikamas-Colombia.pdf>

On cognitive justice:

<http://www.emergencenetwork.org/>

Related Stories/Examples

Sign up (writing, available & interested for interviews/videos)

- Jen Gobby
- Leah Temper
- Ivan Dario Vargas Roncancio
- Steve Quilley
- Nina Smolyar

Money and Finance

Description

Money is a social relation. It is an abstract measure of what we all owe to one another.

The monetary-growth imperative question: interest rates driving our economy to growth and reinforcing inequalities.

Conventional financial theories of asset pricing and portfolio allocation are grounded in neoclassical conventions of utilitarianism and profit seeking and fail to address the ecological economic tenets of scale and distribution. Private financial markets have profoundly negative impacts on social and ecological welfare through moral hazard, the inequitable distribution of wealth, disregard for biophysical constraints, and emboldenment of financial crises.

To date, ecological economists present some fundamental critiques to financial theories. Discounting and present value maximization overestimate the value of exploiting resources in the short term over perpetual decline in the long run. Moreover, a stock of investment cannot sustain a perpetual flow without a physical process resource inflows and product outflows. While the production of real wealth is constrained by the biophysical limits of physical resources, financial speculation entitles investors to more wealth without the constraints of production. Finally, the distribution of financial assets lead to greater concentrations of wealth, creating real profits for asset holders without increasing real wealth. The illusion of unconstrained wealth is only maintained while scale and inequitable distribution increase and where the financial sector remains disconnected from the real economy.

The operationalization of ecological economic principles in finance requires measures to disincentivize short-termism, unproductive allocation, and speculation. First, incorporating social and biophysical indicators can improve pricing and allocative efficiency by reorienting capital towards social justice and ecological restoration. Second, systems thinking can be utilized to trace interdependence in capital flows that lead to financial crises. There is currently a lack of formal theoretical and methodological models that sufficiently predict future occurrences. Finally, the efficacy of policy alternatives that bind financial growth within biophysical limits must be considered. Some alternatives include interest free loans to real economic development, smaller decentralized systems, higher reserve requirements and restricted leverage, taxes on financial transactions, tightly regulated financial instruments, and incentives aimed at maintaining the productive capacity of ecosystems upon which economic activity ultimately depends.

Individual Policy/Action

- Move your money and accounts to a local credit union
 - Actively participate in your credit union through Annual General Meeting, electing boards, recruiting board members

- Credit Unions can be challenging for low income Canadians to access as they can discriminate based credit score - push your credit union to support low income banking
- Push credit union to create positive impact Guaranteed Income Certificates
 - GIC's that invest in social or community housing
- Seek out responsible investment advice to align your investments with “new normal” values.
- Expand your perception of investing from purely financial to generating security for future consumption needs.
 - Eg. Invest in your capacity to produce food, build shelter, make and fix needed tools
- Consider what aspects of your budget you can de-financialize. Use relationship building alternatives.
 - Child care clubs rather than hiring a childminder
 - Meal clubs and meal planning to reduce the amount your household eats out

Local/Municipal Policy

- Create positive interest initiatives - use the forward natural capital of existing natural regions to express the long-term value of a region, natural space, or ecosystem service
- Evaluate local ecosystem services
- Establish, enforce/encourage the use of local currencies outside of the banking systems (time banks, alternative currencies, etc.)
- Encourage local credit unions/cities to purchase community bonds issued by social and solidarity economy organizations

State/Provincial/Federal Policy

- Create alternative system of income such as a) [universal basic income](#); b) [two tiered currency system](#)
- Nationalized money supply and coordinated Monetary Fiscal Policy
- Eliminate debt and call for a debt audit
- Cap income and interest rates and allow for negative interests (inspired by Islamic banking)
- tax financial and electronic transitions,
- System of regional and municipal public banks and coops
- Advocate for the public sector to deposit liquidity within local credit unions/coops
- Modern Monetary Theory being put into practice
- Negative interest rates purchased by central banks

Resources

- <https://www.ujimaboston.com/>
- <https://fairfinancefund.org/>

- Uneven Earth Green New Deal Series:
<http://unevenearth.org/2020/01/public-money-for-environmental-justice/>
- [Toward an Ecological Monetary Theory](#) by Joe Ament
- [Ecological Monetary Theory](#) Joe Ament
- <https://melenchon.fr/2020/04/07/comment-annuler-la-dette-pour-redemarrer-leconomie/>

Related Stories/Examples

- [The Berkshares Local Currency](#)
- MMT in practice in the US already?
<https://mronline.org/2020/03/26/the-federal-reserves-coronavirus-crisis-actions-explained-part-1/?fbclid=IwAR0822tXrVKOh3k1dNziTpDO7Ett0MDWNKyKFBPwEX3oF0ImzI7LYdGEguw>

Sign up (writing, available & interested for interviews/videos)

- Claire
- Joe
- Charles
- Truzaar Dordi

Physical and Spiritual Health and Well-Being

Description

Individual Policy/Action

- Go outdoors as often as possible, daily if possible. Get some fresh air, sunshine, listen to the rain, watch snowflakes fall. Go for a walk, or just stay still, whatever works better for you. Begin to develop and deepen right relationship to the land where you live ~ begin by learning about the pre-settler colonialism history of human-land relations in that place; who were the prior human stewards of the land that nourishes you now? what is your knowledge of and relationship with these people? how do you relate to belonging in time and place?
- Give yourself opportunities to experience mindfulness practices. They might seem hard at the beginning, just keep trying and keep an open mind.
- Related to healthy food: what we eat affects us profoundly on all dimensions of existence/ being -> mindful eating: content and process

Local/Municipal Policy

- Reduction in work week hours; shift culture away from productivism

State/Provincial/Federal Policy

- Post-growth measures of well-being and abolish GDP as measure for federal policies; establish Gross National Happiness or some other quality of life and environment well-being indicator, democratically determined
-

Resources

Related Stories/Examples

Thinking about the “Well-Being” page, I have a bunch of videos talking about genuine progress research and policy initiative. My “crash course in EE” YouTube has close to 30,000 hits, so something in there is striking a chord. See: <https://youtu.be/d05jEprJxtE>.

On general policy design, there’s this video on teaching the Meadows leverage points framework (with chalk!): <https://youtu.be/GFv1pA1gsVw>.

Sign up (writing, available & interested for interviews/videos)

- Katherine Zywert
- John Adams
- Nina Smolyar

Trade and Localization

Description

Individual Policy/Action

-

Local/Municipal Policy

-

State/Provincial/Federal Policy

-

Resources

BALLE - [Business Alliance for Local Living Economies](#)
[Vital Communities - Local First](#)
[Institute for Local Self-Reliance](#); and [Stacy Mitchell](#)

Papers

-

Union Demands

-

Localised Production

-

Related Stories/Examples

-

Work and Production

Mandatory prosocial wings of corporations

Description

After the 2008 crash, millions of middle and lower class Canadians and Americans lost their jobs while the richest walked away nearly unscathed. A narrative was established that in order to kickstart the economy and create jobs there was one single option - ramp up production and consumption. The 2020 pandemic has again demonstrated the precarious nature of many jobs and how quickly millions of people become scared of being unable to feed their children. This time, it has also highlighted the sheer number of [bullshit jobs](#) and useless positions that need not exist, and the world keeps turning. Aquinas famously said that "to live well is to work well". In the industrial revolution the nature of work and production changed, removing community and meaning from craft and labour. This newly established

system of work and production quickly depleted life's resources, wreaking havoc on both our psychological and ecological well-being.

Now, faced with a growing crisis of meaning, ecological emergencies, recognition of precarious work, and diminished community we need to be innovative in ensuring people have all that they need to thrive. We need to reevaluate the purpose of 'work' - to ensure that work and production fill people with meaning and fulfillment, contribute positively to community while reconnecting us with others, and exists for reasons beyond the necessity of 'pay'. Many of the recommendations below ask us to internalize the process of production as making things in our own communities is linked with improved self-esteem, increased community connection, decreased consumption, and improved human-Earth relationships. We also ask everyone to rethink the way communities organize and support one another's passion work and how we think about paying people for their work. We are asking people and governments to rethink and redefine 'productivity' and take a slower approach.

Not austerity - need basic services, essential services, higher minimum wage, organizing together, women as leaders, home as a leader, care as a leader,

Individual Policy/Action

- Craft, crochet, publish, cook, reuse, repair, paint - just make! And teach your children to do the same. Not only will it mean you need to buy less, but making improves [self-esteem](#) and [long term resilience](#).
- Support local establishments and entrepreneurs as often as possible. The "stuff" you buy will have more meaning, you'll be supporting your local community, and helping others in your community stay committed to their passions.
- Explore options for creating based activities such as building a community garden or enhancing an outdoor public space in your community. Some municipalities and grant programs support these endeavors.
- Do the job you want to do rather than working for high income. With greater systemic change throughout the system this will increasingly become an option. In cases of job loss - this is an opportunity to shift a local or entrepreneurial endeavor.
- Support open source/sharing/peer-to-peer platforms
- Retail-level investments in local enterprises, particularly nonprofit and cooperative enterprises

Local/Municipal Policy

- Support investments in community based tools and programs such as 3D printers in libraries, opening a tool library, hosting repair cafe evenings for citizens, and turning wood shops at high schools into maker spaces with broader use.
- Support work-from-home strategies to allow for complexities of life
- Provide entrepreneurial start-up funding and incubation hubs for technology, social services, food services, and physical goods. Make affordable space for start-ups,

creative hubs for artists, and sponsor locally relevant events to showcase this work (festivals).

- Work with existing building owners with vacant spaces to find alternative options for free or nearly free startup space
- Full or partial municipal and nonprofit/philanthropic takeovers of critical enterprises struggling during the economic crisis
- Support for the conversion of traditional businesses into cooperatives and nonprofit social enterprises

State/Provincial/Federal Policy

- Public jobs guarantee for essential services, regenerative agriculture, restoration, and resilience
- Rethink [pay, income, and finance](#)
- Include 'making' in [elementary curriculum](#)
- Sponsor spaces and workshops in creative industries such as theater, music, and film to provide greater feelings of community.
- Make reskilling a free option for anyone over the age of 40 and in some additional circumstances such as digital literacy for women and skills based programming for youth.
- Creative commons and opens-sourced intellectual property usage rights for findings from public investments in essential services
- Reduced formal work hours
- Universal basic income

Resources

Papers

- Towards Open, Eco-cyclical, and Distributed Production
https://wiki.p2pfoundation.net/Towards_Open,_Eco-cyclical,_and_Distributed_Production
- Work, labour, and production Ch. (will link)

Union Demands

- https://www.ctulocal1.org/posts/ctu-allies-lay-out-common-good-platform-to-protect-students-families-workers-as-coronavirus-threat-spreads/?fbclid=IwAR0UKhnY08RSw_u_o8BIL5Pe7Z3zMYR0hjwkLv2iz-vMV2tC4mLY5qyQ3GNI#:~:text=

Localised Production

- Maker Studio at TheMuseum:
<https://themuseum.ca/the-underground-studio-makerspace/>
- Mindful Makers: <https://www.mindfulmakers.ca/>

Related Stories/Examples

- Make it Kitchener: <https://www.makeitkitchener.ca/>
- Wellington Hall Academy: <https://wellingtonhallacademy.ca/eco-school-and-science-program/>
- Legacy Leadership Lab (business to social purpose organization conversions): <https://uwaterloo.ca/legacy-leadership-lab/>
- Spain UBI

Sign up (writing, available & interested for interviews/videos)

- Katie Kish
- Matt
-

Science and Governance Structures

Description

Addressing issues pertaining to two separate but interrelated aspects of the science/governance complex, i.e. 1) the ways in which science informs policymaking, and; 2) the governance and planning of scientific research.

- SCIENCE FOR POLICY AND POLICY FOR SCIENCE
- Complexity navigation... allow for uncertainty
- promoting boundary institutions operating at the interface of science/policy
- New systems for determining what kind of knowledge can inform policy; new ways to assess validity
- Broad social goals

Things that Peter would like to see represented:

Indigenous

liberal state

planetary boundaries

1. How does/should policy ensure science that is equitably applicable, responsible, and rigorous? Katie H. raised the issue of funding and that clearly needs to be addressed. It's interesting to note, however, that shift towards privatization in science was originally prompted by scientists themselves, seeking to "de-militarize science." Obviously, that didn't

work since military R&D still dwarfs every other source of research funding combined in the US. So now the overwhelming majority of research funding is either allocated to enriching the few or learning new and interesting ways to kill people (or some combination both). How do we ensure that big-government science does not mean military science? And, how do we ensure that corporate science is held to providing tangible and equitable social benefits?

The other dimension here is responsibility, since we know that big science is capable of interfering with the dynamics of complex adaptive systems. In essence, this is the "Jeff Goldbloom in Jurassic Park" rabbit hole that I am more than willing to go down. I have some ideas about how this relates to the pandemic (and no, they don't involve bioweaponry or tin-foil hat theories) but in our own work, I see this relating to GMOs, gene-drives, and geo-engineering just to name a few. What sorts of precautionary policies are needed to prevent science from spinning out of control?

2. how does/should science inform policymaking? The pandemic has ordinary people actually looking at and thinking about scientific models, and it's becoming quite clear that policy-makers have no idea how models work and what they are intended for (in Ontario, the Ford government controversially skewed the data from a U of T epidemiological model to better fit their curve). Policymakers and expert managers want facts, and they often misunderstand modelers for "fact-makers" when in reality theoretical science is not and never can be nomothetic when dealing with complex systems. So again, this boils down to policymakers adopting a minimax (i.e. militarized) mindset when confronted with complex problems. How can policy address that?

- K.H. New systems for determining what kind of knowledge can inform policy; new ways to assess validity

Most of the lit on PNS concerns how science can regulate itself through things like extended peer-review, and I haven't seen much in the way of actual, concrete policy recommendations to address these issues. As I mentioned before, more digging and brainstorming would be warranted if we're interested in confronting these topics. I'm game to give it a try if others are.

- In the literature it is assumed science and the academy can govern itself and that's not the case

- In relation to covid ...how people fare is based on how good governance is in the places that they are
- How do you govern science and how should science inform government?
- Responsibility (DM framing) – one small dimension of that ... not necessarily policies in a legal way ... institutions policies relating to IRB ...encouraging universities to change their IRB policies to things mentioned above and that could reach into the social components including participation in research and who is included... Indigenous review boards
- RRI in the UK after mad cow disease - citizen science in the uk has a more ideological tone than in the united states. In the UK its democratizing political force while in the US it is citizen science for collecting data - how do we make science better by getting citizens involved rather than vice versa.
- Look at best practices to find recommendations
- The relationship between science, government and technology can work as an example
- The first thing that comes to mind is this group called science for the people which has been around for a long time in different iterations, but its rebranded and repositioned itself as an organization and a publication asking qs about what is the responsibility of science and scientists - who is it serving? It certainly comes out of the experience in the US with science funding military industrial complex... thinking about where that responsibility lies and around the corporatization and the whole idea of science being there to enable markets and the privatization of knowledge... a big portion would also involve open source knowledge movement and access to science and the different ways that is/isn't enabled and who it empowers (**that mandatory maker thing**)
- The apparatus of the security state... using language and rationale around militaristic response to the pandemic and similarly implementing all these different... relates to the idea of governance of the body (bio power, enviro governance from that angle) one health... speaking of how health individual is related to everyone else... also related to the health of the non-human world - deeply interconnected ... can see how that approach could become an all consuming apparatus that gets down to the inside bodies of monitoring and insight and checking in on everyone and reporting back... the whole security state mindset applied to a health question... the concentrations of power that are enabled from that kind of response
- Ecohealth etc. in the postnormal arena

- Military -- relative size of the military and how in terms of distribution of research funding the military is the most funded entity in terms of science and research and development in particular in the world and it dwarfs pretty much all other research areas
- What's the alternative way of relating to complex systems? Don't optimize command and control... "resilience" - multi criteria analysis... consider as many variables as possible as being relevant

Individual Policy/Action

- Participate in citizen science by...
- Support open source and peer produced knowledge by ...
- Join a watchdog commission

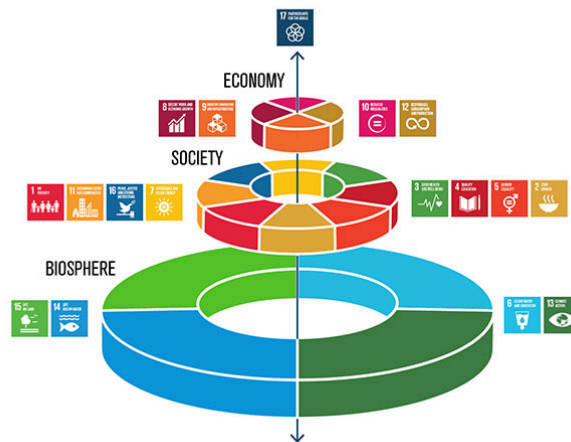
Local/Municipal Policy

- Incentivise corporate investment into community 'science centres' (like Google office in Kitchener has to have a mandatory building/space that educates the community or gives resources for citizen research)
- Independent watchdog commission
- Requiring scientists to serve as consultants in legislation -- UNIVERSITIES need to see legal/political service as equal or more to publication record
 - Publically funded institutes that watch the policy and communicate that to citizens
- regulatory capture
- government-funded citizen science programs (e.g. the RRI)
- Indigenous/local knowledge governance + participation

State/Provincial/Federal Policy

- Rely on research where funding doesn't represent a very obvious conflict of interest or fund non-biased research centres to inform and create policy
- Formation of an independent, government watchdog commission that audits scientific research informing policy in order to help policymakers identify and understand research bias.
- Adoption of a public dialogue and participation model in the spirit of the UK's Responsible Research and Innovation initiative
- re-allocation of federal research budget
 - Major cap on military budget
 - Priority based on planetary boundary research?
- Independent watchdog commission

- Stockholm Resilience Centre work



- Maintain diversity and redundancy
- Manage connectivity
- Manage slow variables and feedback
- Foster complex adaptive systems thinking
- Encourage learning
- Broaden participation
- Promote polycentric governance
- precautionary policies are needed to prevent science from spinning out of control
 - What are some?
- perverse incentives in science and policy (e.g. evidence-based policy vs. policy-based evidence)
- government-funded citizen science programs (e.g. the RRI)

Resources

- Planetary boundaries
- Stockholm Resilience Centre
- Donut economics
- <https://scienceforthepeople.org/>

Related Stories/Examples

Here's something I have re global governance, PNS and H1N1:

<https://www.tandfonline.com/doi/full/10.1080/09505431.2016.1212825>

Sign up (writing, available & interested for interviews/videos)

- Alice Damiano

- David
-

Current policy statements, proposals, and principles that may align and inspire

[Green New Deal\(s\): A Resource List for Political Ecologists](#)

<https://www.globaltapestryofalternatives.org/definitions#term-Alternatives>

[Ten principles for building back better to create wellbeing economies post-covid](#)

<https://renewnewengland.org/policy/>

<https://www.poorpeoplescampaign.org/about/our-demands/>

<https://therednation.org/10-point-program/>

<https://justrecoveryforall.ca/>

<https://davidsuzuki.org/science-learning-centre-article/build-back-better-designing-a-canadian-economic-system-that-grows-well-being-and-quality-of-life/>

[A People's Orientation to a Regenerative Economy](#)

[The 2100 Project: An Atlas for the Green New Deal](#)

<https://www.radicalecologicaldemocracy.org/precept/>

[Green New Deal – New Consensus](#)

[Green New Deal Scorecards](#)

[An Ecosocialist Green New Deal: Guiding Principles – DSA Ecosocialists](#)

<https://www.ienearth.org/wp-content/uploads/2017/10/IENJustTransitionPrinciples.pdf>

[18 Strategies for a Green New Deal: How to Make Climate Mobilization Work](#)

<https://www.bam2020.world/peoples-movements-call-for-the-rebirth-of-america/>

[People's Bailout Principles](#)

New Economy Coalition's [Pathways to a People's Economy](#)

Seven Generations New Deal: A Climate Policy Centering Indigenous Science and Environmental Justice. [A seven point action plan for an era of urgency.](#)

Contributors

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