## Off

### 1NC – T

#### Interpretation—the aff may not specify a just government

#### A is an generic indefinite singular. Cohen 01

Ariel Cohen (Ben-Gurion University of the Negev), “On the Generic Use of Indefinite Singulars,” Journal of Semantics 18:3, 2001 <https://core.ac.uk/download/pdf/188590876.pdf>

\*IS generic = Indefinite Singulars

French, then, expresses the two types of reading differently. In English, on¶ the other hand, generic BPs are ambiguous between inductivist and normative¶ readings. But even in English there is one type of generic that can express only¶ one of these readings, and this is the IS generic. While BPs are ambiguous¶ between the inductivist and the rules and regulations readings, ISs are not. In¶ the supermarket scenario discussed above, only (44.b) is true:¶ (44) a. A banana sells for $.49/lb.¶ b. A banana sells for $1.00/lb.¶ The normative force of the generic IS has been noted before. Burton-Roberts¶ (1977) considers the following minimal pair:¶ (45) a. Gentlemen open doors for ladies.¶ b. A gentleman opens doors for ladies.¶ He notes that (45.b), but not (45.a), expresses what he calls “moral necessity.”7¶ Burton-Roberts observes that if Emile does not as a rule open doors for ladies, his mother could utter [(45.b)] and thereby successfully imply that Emile was not, or was¶ not being, a gentleman. Notice that, if she were to utter. . . [(45.a)] she¶ might achieve the same effect (that of getting Emile to open doors for¶ ladies) but would do so by different means. . . For [(45.a)] merely makes a¶ generalisation about gentlemen (p. 188).¶ Sentence (45.b), then, unlike (45.a), does not have a reading where it makes¶ a generalization about gentlemen; it is, rather, a statement about some social¶ norm. It is true just in case this norm is in effect, i.e. it is a member of a set of¶ socially accepted rules and regulations.¶ An IS that, in the null context, cannot be read generically, may receive a¶ generic reading in a context that makes it clear that a rule or a regulation is¶ referred to. For example, Greenberg (1998) notes that, out of the blue, (46.a)¶ and (46.b) do not have a generic reading:¶ (46) a. A Norwegian student whose name ends with ‘s’ or ‘j’ wears green¶ thick socks.¶ b. A tall, left-handed, brown haired neurologist in Hadassa hospital¶ earns more than $50,000 a year.¶ However, Greenberg points out that in the context of (47.a) and (47.b),¶ respectively, the generic readings of the IS subject are quite natural:¶ (47) a. You know, there are very interesting traditions in Norway, concerning the connection between name, profession, and clothing. For¶ example, a Norwegian student. . .¶ b. The new Hadassa manager has some very funny paying criteria. For¶ example, a left-handed. . .¶ Even IS sentences that were claimed above to lack a generic reading, such¶ as (3.b) and (4.b), may, in the appropriate context, receive such a reading:¶ (48) a. Sire, please don’t send her to the axe. Remember, a king is generous!¶ b. How dare you build me such a room? Don’t you know a room is¶ square?

#### Rules readings are always generalized – specific instances are not consistent. lCohen 01

Ariel Cohen (Ben-Gurion University of the Negev), “On the Generic Use of Indefinite Singulars,” Journal of Semantics 18:3, 2001 https://core.ac.uk/download/pdf/188590876.pdf

In general, as, again, already noted by Aristotle, rules and definitions are not relativized to particular individuals; it is rarely the case that a specific individual¶ forms part of the description of a general rule.¶ Even DPs of the form a certain X or a particular X, which usually receive¶ a wide scope interpretation, cannot, in general, receive such an interpretation in the context of a rule or a definition. This holds of definitions in general, not¶ only of definitions with an IS subject. The following examples from the Cobuild¶ dictionary illustrate this point:¶ (74) a. A fanatic is a person who is very enthusiastic about a particular¶ activity, sport, or way of life.¶ b. Something that is record-breaking is better than the previous¶ record for a particular performance or achievement.¶ c. When a computer outputs something it sorts and produces information as the result of a particular program or operation.¶ d. If something sheers in a particular direction, it suddenly changes¶ direction, for example to avoid hitting something.

#### That outweighs—only our evidence speaks to how indefinite singulars are interpreted in the context of normative statements like the resolution. This means throw out aff counter-interpretations that are purely descriptive

#### Violation—they specified US —we’ve inserted a list of other potentially just governments in the doc – there are at least 96 countries that could count as “just governments” as a democracy, with more depending on their definition and metric.

A close up of a map

Description automatically generated

#### Vote neg:

#### 1] Precision –any deviation justifies the aff arbitrarily jettisoning words in the resolution at their whim which decks negative ground and preparation because the aff is no longer bounded by the resolution.

#### 2] Limits—specifying a just government offers huge explosion in the topic since they get permutations of more than 50 just governments in the world depending on their definition of just government. Neg positions like the Economy DA, Advantage CPs, etc. are jettisoned when the aff specifies a country that we don’t have specific ev to.

#### Use competing interps – it tells the negative what they do and do not have to prepare for

#### No RVIs—it’s your burden to be topical. Anything else chills real abuse

### 1NC – T

#### Interpretation: the affirmative must defend that only just governments ought to recognize the right to strike

#### Just governments respect liberties

Dorn 12 James A. Dorn, Cato Journal, "The Scope of Government in a Free Society", Fall 2012, https://www.cato.org/sites/cato.org/files/serials/files/cato-journal/2012/12/v32n3-10.pdf

If laws are just, liberty and property are secure. The most certain test of justice is negative—that is, justice occurs when injustice (the violation of natural rights to life, liberty, and property) is prevented. The emphasis here is on what Hayek (1967) called “just rules of conduct,” not on the fairness of outcomes. No one has stated the negative concept of justice better than the 19th century French classical liberal Frederic Bastiat ([1850] 1964: 65): When law and force confine a man within the bounds of justice, they do not impose anything on him but a mere negation. They impose on him only the obligation to refrain from injuring others. They do not infringe on his personality, or his liberty or his property. They merely safeguard the personality, the liberty, and the property of others. They stand on the defensive; they defend the equal rights of all. They fulfill a mission whose harmlessness is evident, whose utility is palpable, and whose legitimacy is uncontested. In short, the purpose of a just government is not to do good with other people’s money, but to prevent injustice by protecting property and securing liberty.

#### Violation—the US is not just – their court system is racist and doesn’t respect liberty

Nellis, Ph.D., 18, Report to the United Nations on Racial Disparities in the U.S. Criminal Justice System, https://www.sentencingproject.org/publications/un-report-on-racial-disparities/, Sentencing Project,

The United States criminal justice system is the largest in the world. At yearend 2015, over 6.7 million individuals1) were under some form of correctional control in the United States, including 2.2 million incarcerated in federal, state, or local prisons and jails.2) The U.S. is a world leader in its rate of incarceration, dwarfing the rate of nearly every other nation.3) Such broad statistics mask the racial disparity that pervades the U.S. criminal justice system, and for African Americans in particular. African Americans are more likely than white Americans to be arrested; once arrested, they are more likely to be convicted; and once convicted, and they are more likely to experience lengthy prison sentences. African-American adults are 5.9 times as likely to be incarcerated than whites and Hispanics are 3.1 times as likely.4) As of 2001, one of every three black boys born in that year could expect to go to prison in his lifetime, as could one of every six Latinos—compared to one of every seventeen white boys.5) Racial and ethnic disparities among women are less substantial than among men but remain prevalent.6) The source of such disparities is deeper and more systemic than explicit racial discrimination. The United States in effect operates two distinct criminal justice systems: one for wealthy people and another for poor people and people of color. The wealthy can access a vigorous adversary system replete with constitutional protections for defendants. Yet the experiences of poor and minority defendants within the criminal justice system often differ substantially from that model due to a number of factors, each of which contributes to the overrepresentation of such individuals in the system. As former Georgetown Law Professor David Cole states in his book No Equal Justice,

#### Prefer for limits – there are 200 governments in the world – letting them pick an unjust one explodes limits via infinite permutations of governments

### 1NC – CP

#### CP: The National Labor Relations Board should, after soliciting notice and comment, rule that the definition of ‘employee’ in the National Labor Relations Act extends to include agricultural laborers.

#### Solves and competes - notice and comment rulemaking solves the case and spills over to set a precedent that the courts will uphold

Zeisler 14 [Royce Zeisler, J.D. Candidate 2014, Columbia Law School; B.S., B.A. 2012, University of British Columbia, "CHEVRON DEFERENCE AND THE FTC: HOW AND WHY THE FTC SHOULD USE CHEVRON TO IMPROVE ANTITRUST ENFORCEMENT", Columbia Business Law Review, 2014, HeinOnline]

An instructive use of this style of regulation occurred in 1991 with the National Labor Relations Board's ("NLRB") promulgation of 29 C.F.R. § 103.30. There, the NLRB promulgated its first rule seeking to cease the costly, frequent, and ineffective litigation aimed at determining collective bargaining units in hospitals.1 3 1 Specifically, the regulation created the legal presumption that, absent "extraordinary circumstances," there were only eight possible collective bargaining units in acute care hospitals. 132 In limiting the presumed form of bargaining units, the NLRB specifically intended to overrule conflicting precedent and create a legal presumption for courts to employ. After promulgation, this rule was challenged and a unanimous Supreme Court upheld the regulation partly based on Chevron deference. 33 Notably, this regulation did not turn litigation into a simple application of predetermined values (as the rules in Vermont Yankee did). 3'4 It simply set the presumption for generalist courts to deploy in deciding the existence of bargaining units.

#### **It avoids politics – it’s under the radar**

Estreicher 15 [Samuel Estreicher. Dwight D. Opperman Professor of Law & Director, Center for Labor and Employment Law, NYU School of Law. I appreciate the comments of several current members of the NLRB, as well of those of former chair Wilma Liebman and NLRB attorneys John Colwell and Joan Flynn. All persisting errors are my fault. Copyright© 2015 by Samuel Estreicher. All rights are reserved. "‘DEPOLITICIZING’ THE NATIONAL LABOR RELATIONS BOARD: ADMINISTRATIVE STEPS." https://scholarlycommons.law.emory.edu/cgi/viewcontent.cgi?article=1173&context=elj]

The charge of politicization contains a kernel of truth but is nearly always an overstatement. The members of the Board and the General Counsel, the other presidential appointee, are conscientious professionals aware of their distinct obligations in serving a public agency. Most cases involve relatively fact-specific applications of the Act by administrative law judges; these rulings stir little controversy and are summarily affirmed by three-member panels of the agency without dissent (and routinely enforced by the courts of appeals). It is with respect to a relatively small number of cases and certain agency initiatives, such as the promulgation of national rules, where the law is either unclear or reversal of the agency law is being sought, and where Board members are likely to be especially responsive to their pre-NLRB political or ideological inclinations.3 It is this relatively narrow, yet important, sphere of the agency’s work that triggers the politicization charge.

#### Only Congress can amend a statute

Legal Dictionary ND [https://legal-dictionary.thefreedictionary.com/amend]

amend

v. to alter or change by adding, subtracting, or substituting. One can amend a statute, a contract or a written pleading filed in a law suit. The change is usually called an amendment. The legislature will amend a statute, the parties to a contract can amend it, and a party to a lawsuit can amend his or her own pleading. A contract can be amended only by the parties participating in the contract. If the contract is written, it can be amended only in writing (although curiously enough an oral contract can be amended orally or in writing). A pleading can be amended before it is served on the other party, by stipulation or agreement in court between the parties (actually usually between their attorneys), or upon order of the court. (See: amended complaint, statute, stipulation)

#### Key to democracy and court acquiescence---notice and comment engages participants and creates deference.

Harry First and Spencer Weber Waller 13. Harry First, New York University School of Law. Spencer Weber Waller, Loyola University Chicago School of Law. “Antitrust’s Democracy Deficit”. Fordham Law Review, Volume 81 Issue 5 Article 13. https://ir.lawnet.fordham.edu/cgi/viewcontent.cgi?article=4890&context=flr

Redressing antitrust’s democracy deficit on the procedural side can be done with the tools of administrative law. Administrative law is the body of law that controls the procedures of governmental decision making.151 It allows interested persons to participate in decisions that affect their interests. Normally, it requires appropriate notice, the right to be heard, fair procedures, protection of fundamental rights, and judicial review of the resulting decision. These basic features are present in the administrative laws of most foreign legal systems and are part of a growing international consensus.152 The tradeoff is that the decisions of administrative agencies that properly follow these strictures normally are granted a degree of deference as to the interpretation of the laws they enforce.153 Frequently, but not inevitably, private parties also have the right to proceed with actions for damages against private parties who violate their regulatory obligations and even against the government itself when it acts unlawfully, either substantively or procedurally. These tools of administrative law are available to make antitrust enforcement decisions more transparent and more responsive to the interests that the antitrust laws were meant to serve, thereby promoting both better decision making and greater democratic legitimacy.

CONCLUSION

Free markets and free people cannot be assured by the efforts of technocrats. Ultimately, both come about through the workings of democratic institutions, respectful of the legislature’s goals and constrained from engaging in arbitrary action. Antitrust has moved too far from democratic institutions and toward technocratic control, in service to a laissez-faire approach to antitrust enforcement. We need to move the needle back. Doing so will strengthen the institutions of antitrust, the market economy, and the democratic branches of government themselves.

#### US democratic retreat causes terrorism, great power war, famine, and poverty.

Garry Kasparov 17. Chairman of the Human Rights Foundation, founded the Renew Democracy Initiative. “Democracy and Human Rights: The Case for U.S. Leadership”. Feb 16 2017. U.S. Senate. http://www.foreign.senate.gov/imo/media/doc/021617\_Kasparov\_%20Testimony.pdf

The Soviet Union was an existential threat, and this focused the attention of the world, and the American people. There existential threat today is not found on a map, but it is very real. The forces of the past are making steady progress against the modern world order. Terrorist movements in the Middle East, extremist parties across Europe, a paranoid tyrant in North Korea threatening nuclear blackmail, and, at the center of the web, an aggressive KGB dictator in Russia. They all want to turn the world back to a dark past because their survival is threatened by the values of the free world, epitomized by the United States. And they are thriving as the U.S. has retreated. The global freedom index has declined for ten consecutive years. No one like to talk about the United States as a global policeman, but this is what happens when there is no cop on the beat. American leadership begins at home, right here. America cannot lead the world on democracy and human rights if there is no unity on the meaning and importance of these things. Leadership is required to make that case clearly and powerfully. Right now, Americans are engaged in politics at a level not seen in decades. It is an opportunity for them to rediscover that making America great begins with believing America can be great. The Cold War was won on American values that were shared by both parties and nearly every American. Institutions that were created by a Democrat, Truman, were triumphant forty years later thanks to the courage of a Republican, Reagan. This bipartisan consistency created the decades of strategic stability that is the great strength of democracies. Strong institutions that outlast politicians allow for long-range planning. In contrast, dictators can operate only tactically, not strategically, because they are not constrained by the balance of powers, but cannot afford to think beyond their own survival. This is why a dictator like Putin has an advantage in chaos, the ability to move quickly. This can only be met by strategy, by long-term goals that are based on shared values, not on polls and cable news. The fear of making things worse has paralyzed the United States from trying to make things better. There will always be setbacks, but the United States cannot quit. The spread of democracy is the only proven remedy for nearly every crisis that plagues the world today. War, famine, poverty, terrorism–all are generated and exacerbated by authoritarian regimes. A policy of America First inevitably puts American security last. American leadership is required because there is no one else, and because it is good for America. There is no weapon or wall that is more powerful for security than America being envied, imitated, and admired around the world. Admired not for being perfect, but for having the exceptional courage to always try to be better. Thank you.

### 1NC – DA

#### Build Back Better passes now

**Tasolides et al 11-5** [Justin Tasolides, Breanne Deppisch and Spectrum News Staff] “House passes $1 trillion bipartisan infrastructure bill: 'A monumental step forward as a nation'” Spectrum News, [https://spectrumlocalnews.com/nc/coastal/news/2021/11/05/biden-social-climate-bill-congress 11-5-21](https://spectrumlocalnews.com/nc/coastal/news/2021/11/05/biden-social-climate-bill-congress%2011-5-21) RE

Progressives agreed to pass the smaller bill Friday night, while moderates pledged to back the larger $1.85 trillion Build Back Better bill later this month, provided official estimates of the cost via the Congressional Budget Office are in line with expectations.

"We commit to voting for the Build Back Better Act, in its current form other than technical changes, as expeditiously as we receive fiscal information from the Congressional Budget Office – but in no event later than the week of November 15th," the group of five moderates wrote.

Asked Saturday about the future of his Build Back Better legislation, Biden told reporters, "Let me be clear: We will pass this in the House. And we will pass it in the Senate."

Biden declined to say whether moderate Democrats had given him any assurances that they plan to approve the spending package, saying only, "I'm not going to answer that question … but I feel confident we will have enough votes."

The infrastructure bill, which passed the Senate in August with significant bipartisan support, includes $550 billion in new spending, focusing on “hard” infrastructure projects, like roads, bridges, airports, clean water and expanding broadband internet access.

The bipartisan bill will be funded largely by repurposing other money, including unused COVID-19 relief funds, as well as other revenue streams and spending cuts. An analysis from the Congressional Budget Office projected that it could add $256 billion to projected deficits over the next decade.

The House also voted late, along party lines (221-213) on a rule to end debate on the 10 year, allowing for a vote on President Biden's $1.85 trillion Build Back Better act the week of Nov. 15. The bill would boost health and family programs and devote $550 billion to climate initiatives, the largest legislative investment to combat the climate crisis in history.

"I’m also proud that a rule was voted on that will allow for passage of my Build Back Better Act in the House of Representatives the week of November 15th," Biden wrote in his statement.

"The Build Back Better Act will be a once-in-a-generation investment in our people," he continued. "It will lower bills for healthcare, child care, elder care, prescription drugs, and preschool. And middle-class families get a tax cut."

"This bill is also fiscally responsible, fully paid for, and doesn’t raise the deficit. It does so by making sure the wealthiest Americans and biggest corporations begin to pay their fair share and doesn’t raise taxes a single cent on anyone making less than $400,000 per year."

"Generations from now, people will look back and know this is when America won the economic competition for the 21st Century," Biden said.

#### Manchin’s broadly opposed to strike activity – plan causes a fight

Furman & Winant 10/17/21 [Jonah Furman is a labor movement organizer and writer for Labor Notes based in Maryland. Gabriel Winant is an assistant professor of history at the University of Chicago. He is the author of “The Next Shift: The Fall of Industry and the Rise of Health Care in Rust Belt America.” "The John Deere Strike Shows the Tight Labor Market Is Ready to Pop." https://theintercept.com/2021/10/17/john-deere-strike-labor-market/]

In terms of strike activity, the current private sector wave picks up where the teachers left off, after an interlude of relative inaction during the height of the pandemic. In 2020, moreover, teachers formed the first major group of workers to refuse to accept whatever terms the employer dictated for reopening the workplace. It is difficult to imagine teachers speaking out against returning to work in unsafe conditions as much as they did without the national wave of militant teachers’ strikes in the two preceding years. This resistance has now spread across the economy, in both organized and individual forms.

TODAY, WORKERS’ ECONOMIC resistance — whether through organized strikes or in the refusal of dangerous, underpaid, and unappealing jobs — is shaping the political agenda. Many of the policies in the Democrats’ $3.5 trillion budget proposal would pursue the same ends as workers’ actions but in the realm of social policy. Proposed subsidies for home health care and child care, the child tax credit, Medicaid expansion, and investments in housing and green energy would all indirectly support workers’ power. Either by increasing demand for labor further or by alleviating some of the grotesque social pressures that have forced employees to accept whatever terms employers offered them, the federal government would strengthen workers’ bargaining position. When Sen. Joe Manchin, D-W.Va., warns against becoming an “entitlement society,” what he is opposing is the shift in labor market power that such policy measures help secure.

#### Passage allows an unprecedented investment in combatting climate change

Morton 10/28 [Joseph Morton, "Democrats tout climate spending in reconciliation", 10/28/21, https://www.rollcall.com/2021/10/28/framework-includes-clean-energy-tax-credits-omits-methane-fee/]

“At the same time, substantial investments in electric vehicle charging stations and clean heavy-duty vehicles, like school buses, will serve the dual purpose of slashing our carbon emissions while helping American manufacturing stay globally competitive,” Pallone said. Rep. Cindy Axne, D-Iowa, had pushed for funding to support biofuels infrastructure, complaining it was left out of the bipartisan infrastructure bill even as that measure delivered significant funding for electric vehicles. The latest reconciliation package text includes $1 billion over 10 years in funding for the Agriculture Department to provide grants for expanding biofuel pump infrastructure, upgrade existing infrastructure and increase usage of higher blends of ethanol and biodiesel. “Not only does the Build Back Better Act represent the largest investment in clean energy and combating climate change ever — it also confirms that my colleagues have listened to my central argument in our clean energy discussions: biofuels can and should be a part of our fight against climate change,” Axne said in a statement. The White House framework released earlier in the day envisions that $320 billion would be delivered in the form of clean energy tax credits to accelerate the transition from coal and gas-fired power plants to renewable energy sources such as wind turbines and solar panels. That includes incentives for both utilities and residents and support for additional transmission and storage capacity — areas where bottlenecks have hampered the development of renewable energy sources. The framework includes incentives intended to cut the cost for Americans to put rooftop solar panels on their homes and make it easier to purchase electric vehicles. New EV tax credits would lower the cost of a vehicle by $12,500 for a middle-class family, according to the White House. The framework calls for $105 billion for climate resiliency and addressing legacy pollution in communities. For example, a new Clean Energy and Sustainability Accelerator that would invest in climate-related projects around the country would allocate 40 percent of those benefits to disadvantaged communities — part of a pledge the Biden administration has made to deliver climate spending to communities traditionally on the front lines of environmental damage. It also would fund grants to support environmental justice in disadvantaged communities and create a new Civilian Climate Corps with more than 300,000 members working on conservation projects that could help mitigate climate change. The framework includes $110 billion in spending and incentives to boost domestic supply chains supporting solar power and batteries. It also would fund grants, loans and tax credits aimed at moving steel, cement and aluminum industries toward decarbonization. There’s also $20 billion for the government to purchase new technologies such as long-duration storage, small modular reactors and clean construction materials. While the size of the package falls short of initial proposals, some Capitol Hill Democrats declined to say they were disappointed with the climate portion. Sen. Christopher S. Murphy, D-Conn., said he didn’t want to undersell the framework, as it would represent the most significant spending on climate policy since he joined Congress. The fact that climate makes up about one-third of the overall spending shows how much the issue has been elevated within the Democratic Party, he said, and negotiations over bolstering it aren’t finished. “I think there's a number of things that we can still find consensus on that might not be in this agreement. So climate is something you’ve got to work on every single day,” Murphy said. “If we're not passing climate change legislation every year, then we're not doing our job. So this is just one admittedly very big piece of the overall policy puzzle.”

#### It causes extinction.

Dunlop 17. (Ian Dunlop chaired the Australian Coal Association in 1987-88, chaired the Australian Greenhouse Office Experts Group on Emissions Trading from 1998-2000 and was CEO of the Australian Institute of Company Directors from 1997-2001. He has a particular interest in the interaction of corporate governance, corporate responsibility and sustainability. An engineer by qualification, he holds an MA (Mechanical Sciences) degree from the University of Cambridge, he is a Fellow of the Australian Institute of Company Directors, the Australasian Institute of Mining and Metallurgy, and the Energy Institute (UK), and a Member of the Society of Petroleum Engineers of AIME (USA). He also chairs the Australian National Wildlife Collection Foundation. David Spratt is a Research Director for Breakthrough and co-author of Climate Code Red: The case for emergency action (Scribe 2008). His recent reports include Recount: It’s time to “Do the math” again; Climate Reality Check and Antarctic Tipping Points for a Multi-metre Sea-level Rise. A Failure of Imagination on Climate Risks. July 26, 2017. www.resilience.org/stories/2017-07-26/a-failure-of-imagination-on-climate-risks/)

Climate change is an existential risk that could abruptly end human civilisation because of a catastrophic “failure of imagination” by global leaders to understand and act on the science and evidence before them. At the London School of Economics in 2008, Queen Elizabeth questioned: “Why did no one foresee the timing, extent and severity of the Global Financial Crisis?” The British Academy answered a year later: “A psychology of denial gripped the financial and corporate world… [it was] the failure of the collective imagination of many bright people… to understand the risks to the system as a whole”. A “failure of imagination” has also been identified as one of the reasons for the breakdown in US intelligence around the 9/11 attacks in 2001. A similar failure is occurring with climate change today. The problem is widespread at the senior levels of government and global corporations. A 2016 report, Thinking the unthinkable, based on interviews with top leaders around the world, found that: “A proliferation of ‘unthinkable’ events… has revealed a new fragility at the highest levels of corporate and public service leaderships. Their ability to spot, identify and handle unexpected, non-normative events is… perilously inadequate at critical moments… Remarkably, there remains a deep reluctance, or what might be called ‘executive myopia’, to see and contemplate even the possibility that ‘unthinkables’ might happen, let alone how to handle them. Such failures are manifested in two ways in climate policy. At the political, bureaucratic and business level in underplaying the high-end risks and in failing to recognise that the existential risk of climate change is totally different from other risk categories. And at the research level in underestimating the rate of climate change impact and costs, along with an under-emphasis on, and poor communication of, those high-end risks. Existential risk An existential risk is an adverse outcome that would either annihilate intelligent life or permanently and drastically curtail its potential. For example, a big meteor impact, large-scale nuclear war, or sea levels 70 metres higher than today. Existential risks are not amenable to the reactive (learn from failure) approach of conventional risk management, and we cannot necessarily rely on the institutions, moral norms, or social attitudes developed from our experience with managing other sorts of risks. Because the consequences are so severe — perhaps the end of human global civilisation as we know it — researchers say that “even for an honest, truth-seeking, and well-intentioned investigator it is difficult to think and act rationally in regard to… existential risks”. Yet the evidence is clear that climate change already poses an existential risk to global economic and societal stability and to human civilisation that requires an emergency response. Temperature rises that are now in prospect could reduce the global human population by 80% or 90%. But this conversation is taboo, and the few who speak out are admonished as being overly alarmist. Prof. Kevin Anderson considers that “a 4°C future [relative to pre-industrial levels] is incompatible with an organized global community, is likely to be beyond ‘adaptation’, is devastating to the majority of ecosystems, and has a high probability of not being stable”. He says: “If you have got a population of nine billion by 2050 and you hit 4°C, 5°C or 6°C, you might have half a billion people surviving”. Asked at a 2011 conference in Melbourne about the difference between a 2°C world and a 4°C world, Prof. Hans Joachim Schellnhuber replied in two words: “Human civilisation”.

## Case

### 1NC – Underview

#### Yes 1AR theory, not always drop the debater else encourages infinite frivolous shells. Use reasonability with the brightline of in round abuse cuz anything else crowds out substance.

### 1NC – Econ

#### Food insecurity doesn’t cause war

Vestby et al 18 [Jonas Vestby, Doctoral Researcher at the Peace Research Institute Oslo, Ida Rudolfsen, doctoral researcher at the Department of Peace and Conflict Research at Uppsala University and PRIO, and Halvard Buhaug, Research Professor at the Peace Research Institute Oslo (PRIO); Professor of Political Science at the Norwegian University of Science and Technology (NTNU); and Associate Editor of the Journal of Peace Research and Political Geography, “Does hunger cause conflict?”, 5/18/18, https://blogs.prio.org/ClimateAndConflict/2018/05/does-hunger-cause-conflict/]

It is perhaps surprising, then, that there is little scholarly merit in the notion that a short-term reduction in access to food increases the probability that conflict will break out. This is because to start or participate in violent conflict requires people to have both the means and the will. Most people on the brink of starvation are not in the position to resort to violence, whether against the government or other social groups. In fact, the urban middle classes tend to be the most likely to protest against rises in food prices, since they often have the best opportunities, the most energy, and the best skills to coordinate and participate in protests.

Accordingly, there is a widespread misapprehension that social unrest in periods of high food prices relates primarily to food shortages. In reality, the sources of discontent are considerably more complex – linked to political structures, land ownership, corruption, the desire for democratic reforms and general economic problems – where the price of food is seen in the context of general increases in the cost of living. Research has shown that while the international media have a tendency to seek simple resource-related explanations – such as drought or famine – for conflicts in the Global South, debates in the local media are permeated by more complex political relationships.

**Collapse by 2050 is inevitable – rebound effects, lack of decoupling, large environmental footprints from renewables, and a lack of viable sequestration technology make growth unsustainable**

Kallis '18 [Giorgos; 5/31/18; ICREA Research Professor at Universitat Autònoma de Barcelona, environmental scientist working on ecological economics and political ecology, formerly Marie Curie International Fellow at the Energy and Resources Group of the University of California at Berkeley, PhD in Environmental Policy and Planning from the University of the Aegean in Greece, et al.; "Annual Review of Environment and Resources: Research On Degrowth," Annual Review of Environment and Resources, Vol. 43, p. 296-29]//GJ

3. ECOLOGICAL ECONOMICS: THE LIMITS OF GREEN GROWTH

Although driven by political, institutional, and discursive processes, growth is also **biophysical**. The economic process converts energy, resources, and matter to goods, services, and **waste** (34). In theory, it seems possible to decouple material throughput from economic output by improving the resource efficiency of production. Ecological economists, however, argue that in practice **absolute decoupling is unlikely**, even though relative decoupling is common (34). **Efficiency should not be confused with scale** (35): The more efficiently we use resources, the lower they cost, and **the more of them we end up using** (36). This is, in essence, growth. Just as increases in labor productivity lead to growth and new jobs, not to less employment, increases in resource productivity increase output and **resource use** (37). Capitalist economies grow by using more resources and more people, more intensively. Accelerating this is unlikely to spare resources.

Growth can become “cleaner” or “greener” by substituting, for example, fossil fuels with solar power, or scarce, environmentally intensive metals with more abundant and less intensive metals. But new substitutes have resource requirements, and life-cycle impacts that cross space and time. Energy is a vital source of useful work (38); growth has been possible because fossil fuels did things human labor alone could not do. Ending the use of fossil fuels is likely to reduce labor productivity and limit output (34). Solar and wind power are constrained only by their rate of flow, but unlike fossil fuels, they are **diffuse**—more like rain than a lake (3). To collect and concentrate a diffuse flow of energy, **more energy is necessary and more land is required**. The EROIs (energy returns on energy investment) of renewable energies are between 10:1 and 20:1, compared to more than 50:1 for earlier deposits of oil and coal (39). An economy powered by a diffuse energy flow is then likely to be an economy of lower net energy and lower output than one powered by concentrated stocks (3). Land use for solar or wind also competes with the use of land for **food production**, and **rare materials** are necessary for infrastructures and batteries that store their intermittent flows, **with significant environmental effects**.

Historical data corroborate ecological economic theory (40). Ayres & Warr (38) find that the use of net energy after conversion losses explains a big portion of the **U**nited **S**tates’ total factor productivity and economic growth. At the global level, GDP and material use have increased approximately 1:1. Carbon emissions have increased somewhat slower than GDP, but still have **increased** (34). **This is unlikely to be a coincidence**. Exceptions may exist, but cross-panel data analysis shows that overall, 1% growth of a national economy is associated with 0.6% to 0.8% increase in its carbon emissions (41) and 0.8% growth in its resource use (42).

Global resource use follows currently the “**collapse by 2050**” scenario foreseen in the “Limits to Growth” 1971 report (43–45). Domestic material use in some developed OECD economies has reached a plateau, but this is because of globalization and trade. If we take into account **imported goods**, then the material requirements of products and services consumed in OECD countries have grown hand in hand with GDP, with **no decoupling** (46). For **water use**, the effects of growth overwhelm any realistic savings from technologies and efficiency (47); water footprints have increased even in regions such as California where water withdrawals were stabilized (40).

Carbon emissions in some EU (European Union) countries have been declining, even after trade is taken into account, suggesting some substitution of fossil fuels by cleaner energies. [Although recession also played a role (34).] These declines are nowhere near the 8–10%, year-after-year reductions in carbon emissions required for developed nations under scenarios compatible with a **50% chance** of limiting warming to 2◦C (48). Further reductions will be harder to sustain once **one-off substitutions** of oil or coal with natural gas are exhausted (34).

Resource use or carbon emissions are a product of the scale of the economy (GDP) times its resource or carbon intensity (kg/GDP or kgCO2/GDP). With 1.5% annual increase in global income per capita, carbon intensity has to decline 4.4% each year for staying within 2◦C; with 0% growth, carbon intensity has to fall 2.9% each year (49). In the period 1970–2013, the average annual reduction rate for carbon intensity was less than 1.5%—and this gets harder to sustain as the share of carbon-intensive economies in global output increases (49). As Jackson (50) showed in his seminal work, **it is practically impossible to envisage viable climate mitigation scenarios that involve growth**. This calls for research on managing, or prospering, **without growth** (50, 51).

Some scenarios deem possible meeting climate targets while sustaining growth, but these generally assume after 2050 some sort of “negative emissions technology,” geo-engineering or otherwise. According to a recent Nature editorial, these technologies remain currently “**magical thinking**” (52). Clean energy investments can stimulate the economy in the short run, but in the **long run** growth may be limited by their **low EROIs**. Studies suggest that economic growth requires a minimum EROI of close to 11:1 (53). Less EROI means less labor productivity, and hence less growth. Indeed, “Limits to Growth” scenarios do not predict growth ending when resources are exhausted but, rather, when the quality of resources declines to such an extent that further extraction diverts more and more investment away from productive industry (44).

Degrowth is defined by ecological economists as an equitable downscaling of throughput, with a concomitant securing of wellbeing. If there is a fundamental coupling of economic activity and resource use, as ecological economics suggests there is, then serious environmental or climate policies will slow down the economy. Vice versa, a slower economy will use less resources and emit less carbon (40). This is not the same as saying that the degrowth goal is to reduce GDP (54); slowing down the economy is not an end but a likely outcome in a transition toward equitable wellbeing and environmental sustainability.

Advancing a position of “a-growth,” van den Bergh (54) proposes ignoring GDP and implementing a global carbon price, indifferent to what its effect on growth turns out to be. Ignoring GDP is a normative position—but at the end, the economy will either grow or not, and if it does not, then there should be plans for managing without growth. Given how entrenched GDP growth is in existing institutional and political structures, a-growth approaches must be advanced as part of broader systemic change (55).

Is it possible to secure a decent standard of living for all while throughput and output degrow? Substantive evidence indicates that **prosperity does not depend on high levels of production** and consumption. Kubiszewski et al. (56) find that the Genuine Progress Indicator, an indicator that includes environmental and social costs alongside output, peaked in 1978, despite subsequent global growth. A similar indicator, the Index of Sustainable Economic Welfare, has stayed at the same levels in the United States since 1950, despite a threefold growth of GDP (57).

Wealthier countries on average have higher levels of life expectancy and education than poorer ones, but above a certain level of GDP, income does not make a difference in wellbeing—**equality** does. Satisfactory levels of wellbeing are achieved by countries such as Vietnam or Costa Rica at a fraction (one-third or less) of the output, energy, or resource use of countries such as the **U**nited **S**tates. Even the lower levels of resource use of mid-income countries, however, would not be sustainable if they were to be generalized to the planet as a whole. No country currently satisfies social wellbeing standards while staying within its share of planetary boundaries, suggesting that radical changes in provisioning systems are necessary (58).

Wealthier people within a country are on average happier than others, but in the long run, overall happiness does not increase as a country’s income rises (59). Nuances of this income-happiness paradox depend on the sample of countries included and how one defines and asks about happiness. Within societies, individuals with higher incomes evaluate their lives as better than others, but do not enjoy better emotional wellbeing (60). Income determines social rank, and rank affects individuals’ assessments of their lives. Growth does not change relative rank or relative access to positional goods (those signifying position) but it does inflate expectations and prices of material goods, **increasing frustration** (61). Relative comparisons matter for personal wellbeing in low-income and high-income countries; for both, the more equally income is distributed, the happier people are (62). **Pro-environmental behaviors** and sharing are also strongly associated with personal wellbeing (63). This suggests that an economic contraction may not impact wellbeing negatively if accompanied by redistribution, sharing, and value shifts (34).

**Degrowth is the only way to avoid invisible thresholds that cause extinction**

Ghebremichael '16 [Asghedom; 2016; Research Economist, The Environment and Natural Resources, Department of Natural Resources, Government of Canada; "Frontiers of the Biosphere Inhibit Perpetual Economic Growth: Exploring Pathways to Genuine Sustainable Development," http://www.opensciencepublications.com/wp-content/uploads/ESS-2454-5953-3-125.pdf]//GJ

Nature has its own set of rules, solidly grounded in laws of physics and chemistry, and emergent principles of geology and biology, which are not artificial constructs. The natural rules are real, and they govern human well-being. Earthquakes, tsunamis, volcanic eruptions, hurricanes, tornadoes, floods, droughts, famines, civil conflicts, wildfires, poverty, and disease epidemics demonstrate dramatically that our planet Earth is at risk. Moreover, the outbreak of novel diseases, such as Ebola and AIDS, in socially, economically, and ecologically impoverished regions is a clear signal of the global predicaments of inequality and poverty. These natural and anthropogenic disasters are clear indicators of **ecological overshoot**, meaning anthropogenic disturbances beyond the **carrying capacity of ecosystems** that lead to **ecological crash**, causing an eventual die-off, hence environmental disasters [3]. The frequency, scale, and adverse effects of these challenges must be of great concern to humanity.

“Human alteration of the Earth was substantial and growing, transforming between one-third and **one-half of the global land surface**; CO2 concentration in the atmosphere increased by nearly 30% since the beginning of the Industrial Revolution; more atmospheric nitrogen was fixed by humanity than by all natural terrestrial sources combined; humanity consumed more than half of all accessible surface-**freshwater**; and about one-quarter of the **bird species on Earth** were driven to extinction” [4]. The UN’s Millennium Ecosystem Assessment [5], a global landmark study, which involved more than 1,360 scientists, technical experts, and policy makers from around the globe, summarized its findings as follows (paraphrased): (i) although living standards of “the few” have improved over the past two centuries, human activity is putting such strain on nature, undermining the Earth’s capacity to support current and future generations; (ii) we are living beyond our means: the current gains in enhanced quality of life have come at a considerable cost to health and integrity of ecosystems on which human well-being depends; (iii) **if we act now**, we can avoid **irreversible damage** to ecosystems and to our well-being; and (iv) we can no longer treat Nature’s bounty as free and limitless.

The information summarized in Table 1(Ecological Foundations section below) makes it all clear that human well-being depends on the life sustaining multiple services of ecosystems. Furthermore, a team of renowned scientists from N. America, Europe, Australia and the Scandinavian countries identified the following nine ecological thresholds, which define “the safe operating space for humanity”: (i) climate change, (ii) rate of terrestrial and marine biodiversity loss, (iii) human interference with the natural cycles of nitrogen and phosphorus, (iv) stratospheric ozone depletion, (v) ocean acidification, (vi) global freshwater consumption rate, (vii) land-use-change, (viii) chemical pollution, and (ix) atmospheric aerosol loading. The team concluded that humanity was approaching to the boundaries for freshwater consumption, land-use-change, ocean acidification, and interference with the global phosphorus cycle, while the boundaries for **climate change**, **biodiversity loss**, and interference with the **nitrogen cycle** **have already been transgressed** [6]. An urgent call for an anthropogenic balancing act not to transgress ecological thresholds is in order. Halting short-sighted excessive anthropocentric activities that lead to overexploitation of natural resources is imperative. The naturally imposed limiting frontiers, the ecological thresholds, must be respected and protected.

Rooted in the doctrine of laissez-faire, neoliberalism promotes perpetual economic growth (PEG), which means unfettered expansion of an economy’s productive capacity realized through enabling institutional arrangements. But, PEG is inherently **not compatible with ecological integrity**, environmental quality, and genuine sustainable development (GSD). Drawing on the findings , conclusions, and recommendations of Rockström’s team [6], I define GSD as a dynamic process by which human well-being is improved in an inclusive, a just, and an environmentally safe operating space, achieved through inventions, innovations, diffusion, and adoption of appropriate technologies as well as learning-by-doing.

GSD is in a stark contrast with the highly publicized and politicized concept of sustainable development (SD) of the UN’s Brundtland Commission, which is also known as World Commission on Environment and Development (WCED) (1987) [7]. The highly generalized and vague definition of SD is: “Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs. It contains within it two key concepts: (1) the concept of “needs”, in particular the essential needs of the world’s poor, to which overwhelming priority should be given; and (2) the idea of limitations imposed by the state of technology and social organization on the environment’s ability to meet present and future needs”. Our Common Future, p.143.

Given all its good intentions, the WECD failed to explain the consequences of PEG strongly. Unfortunately, SD’s exact definition continues to be globally politicized and linked always to strategic policy goals and objectives one would like to talk about. SD does not give any specific guidelines pertinent to alleviation of the human predicaments associated with inequality, poverty, perversely globalized markets, destruction of the health and integrity of ecosystems, and climate change.

Research questions, goal, and organization of the paper

What are the theoretical and practical foundations of the PEG doctrine? Are PEG and GSD compatible? Addressing these questions has become a persistent challenge to both social and natural scientists. The overarching goal of this article is to demonstrate the incompatibility of PEG with GSD.

Rooted in neoclassical microeconomic theory, neoliberalism advocates for PEG, which is unfettered expansion of an economy’s productive capacity in the finite, materially closed (except the constant inflow of solar energy), and non-growing biosphere [8]. For this doctrine to be realized, neoliberal economists prescribe globalized perfectly competitive markets, where multinational corporations play the dominant economic games against all policies and strategic practices of GSD.

Let me be clear at the outset. As a trained economist, who went through the grueling processes of acquiring a PhD, I understand the importance of all the fundamentals of microeconomic and macroeconomic theories. My argument is against the misuse and, in some case, abuse of these scientific theories to promote personal ideological perceptions. I am motivated to add my “voice” to those voices of many preeminent scholars, whose extensively published works inspired me to learn more on the adverse effects of neoliberalism on ecological integrity and human well-being [6, 8-12].

The paper is organized into six sections: this introduction, ecological foundations for GSD, the fallacies of the PEG doctrine, anthropogenic effects on ecological integrity, selected pathways to GSD, and concluding remarks and policy recommendations, in that order.

Ecological Foundations of Genuine Sustainable Development

In this section, I summarize the ecological foundations of GSD, using taxonomy of the following key scientific terms: ecological principles of holism, biodiversity loss, sustainability, resilience, ecological integrity, biogeochemical processes, carrying capacity, and overshoot.

Principles of holism

Ecological principles of holism mean that everything is interconnected with everything. This can be summarized by the dictum: “A whole is more than the sum of its parts or members”. The totality of the whole of any living system-biological, social, or economic-is not fully embodied in its individual parts or members. Wholes have properties that are not present in any of their separate parts; they emerge only when the parts are combined together, forming mutually reinforcing synergistic nexus, in a coherent whole; and the specific properties of individual parts disappear when they are part of the whole.

Thus, relationships among the parts of wholes matter; when relationships change, the whole is changed. For example, water, air, and soil are polluted with chemical and biological waste, because we humans fail to appreciate the importance of their holistic relationship with Nature and thereby with our well-being. Respiratory problems, cancer, food poisoning, and general poor health as well as the cost of healthcare are some of the consequences of ignoring the imperatives of holism.

Government policies that influence agriculture, forestry, mining, manufacturing, labor relations, capital investments, employment, economic growth, all have direct and indirect impacts on the natural environment-locally, nationally, and globally. We have **no way of knowing** how large or small our individual or collective adverse effects may be, but understanding the ecological principles of holism is necessary condition to preserve ecological integrity and foster human well-being.

Consequences of biodiversity loss

Biodiversity (i.e., biological diversity) is the number, variety and variability of genes, populations, species, communities, ecosystems, and ecological processes. Biodiversity underpins the multiple services of ecosystems that sustain human well-being; is the foundation of resilience of life on Earth; and an integral part of the fabric of all the world‘s cultures. It is a common knowledge of the science of ecology that no feature of Earth is more complex, dynamic, and varied than the layer of organisms that occupy its surfaces and its seas; and no feature is experiencing more dramatic changes at the hands of humans than this extraordinary, singularly unique and beautiful feature of the Earth, biodiversity. **Critical ecological processes** (i.e., ecosystem functions) that depend on prevailing scale of biodiversity at the ecosystem level influence plant productivity, soil fertility, water quality, atmospheric chemistry, and many other local and global environmental conditions that ultimately affect human welfare.

Substantial changes have already occurred, especially local and global losses of biodiversity. The primary cause has been widespread human transformation of once highly diverse natural ecosystems into relatively species-poor managed ecosystems. Recent studies suggest that such reductions in biodiversity can alter both the magnitude and the stability of ecosystem processes, especially when biodiversity is reduced to the low levels typical of many managed natural systems. We humans ought to remind ourselves that barren deserts are capable of supporting very little life (if any), because they lack biological diversity. Ecosystems that completely lack diversity have **no high quality, low entropy, energy left to support life**.

Diversity enables living systems to adapt and evolve to accommodate their ever-changing natural environment. Even if we do not understand fully the specific nature of a threat, it should be clear that loss of biodiversity represents a growing threat to the future of human life on Earth. There is **no way of knowing** how many more species can be lost before the **ecological balance is tipped toward extinction of all species**.

**Growth makes war inevitable**

Manuchehr **Irandoust 17**, Department of Economics and Finance, School of Business Studies, Kristianstad University, “Militarism and globalization: Is there an empirical link?” *Quality and quantity*, June 16, 2017, Springer Open Access

[GLOB = globalization index, MIS = militarized spending]

The results of the bootstrap panel Granger causality test are shown in Table 2. The findings show that **GLOB and MIS are causally related** in most of the countries under review. There is a bi-directional causality in UK, US, Saudi Arabia, and Russia. The causality is unidirectional running from GLOB to MIS in Australia, Brazil, India, and China, and running from MIS to GLOB in Turkey. The degree of significance level varies from country to country. There is no any causal relationship between military spending and globalization in France, Italy, South Korea, Germany, and Japan. Overall, this evidence shows a **relatively robust association** between changes in globalization and changes in military expenditure. In other words, countries experiencing greater globalization have relatively **large increases in militarization** over the past 20 years.

However, it has been shown that globalization may not lead to more peaceful relations or demilitarization. As we discussed in Sect. 2, bilateral trade increases the opportunity cost of bilateral war and may hinder bilateral war. Globalization (equivalent to multilateral economic openness) **reduces this opportunity cost with any given country** and devitalize the incentive to make concessions during negotiations, and, therefore, **increases the probability of war** between any given pair of country. Thus, an increase in trade or openness between two countries may restore peace between those but may increase the probability of conflict with third countries.

6 Conclusion

While previous studies mostly focused on the causal nexus between military expenditure and economic growth, those studies have not considered the role of globalization. This study uses data from the top 15 military expenditure spenders over the period 1990–2012 to examine the relationship between militarism and globalization. The bootstrap panel Granger causality that accounts for both cross-sectional dependence and heterogeneity across countries is utilized to detect the direction of causality. The results show that military expenditures and globalization are causally related in most of the countries under review. Despite the increasing role of globalization, the results show that **military expenditures are growing** and pointing to a strengthening in nationalist sentiments and militarism. This paper suggests that changes in domestic political and economic conditions might hinder the process of globalization. The results are consistent with those of Acemoglu and Yared (2010) who conclude that high military spending endangers globalization. This study also supports the results of Martin et al. (2008) who find that an increase in multilateral trade raises the chance of conflict between states. The policy implication of the findings is that greater military spending by a country increases the likelihood of military conflict in the future, the anticipation of which discourages globalization.

**Food shortages don’t cause biodiversity loss – their ev is not about shortages, it just says that because there’s an increased population, the government destroys biodiversity in order to get that food, which is not unique to food shortages since the government has to feed people anyway**

**Growth ensures extinction:**

**A). Insect loss**

Robert **Hunziker 18**, MA in Economic History from DePaul University, environmental journalist for over fifty publications, 3/27/18, “Insect Decimation Upstages Global Warming,” https://www.transcend.org/tms/2018/04/insect-decimation-upstages-global-warming/

Everybody’s heard about global warming. It is one of the most advertised **existential** events of all time. Who isn’t aware? However, there’s a new kid on the block. An alarming **loss of insects** will likely **take down humanity** before global warming hits maximum velocity.

For the immediate future, the Paris Accord is riding the wrong horse, as global warming is a long-term project compared to the insect catastrophe happening right now! Where else is found 40% to 90% species devastation?

The worldwide loss of insects is simply staggering with some reports of 75% up to 90%, happening much faster than the paleoclimate record rate of the past five major extinction events. It is possible that some insect species may **already be close to total extinction!**

It’s established that species evolve and then go extinct over thousands and millions of years as part of nature’s course, but the current rate of devastation is simply “off the charts, and downright scary.”

Without any doubt, it is difficult to imagine how humanity survives without insects, which are dropping dead in bunches right before our eyes. For proof, how many insect splats do people clean off windshields nowadays? Not many…. How many fireflies do children chase at night? Not many….

Several naturalists and environmental writers believe the massive loss of insects has everything to do with three generations of **industrialized farming** and the vast tide of **poisons** pouring over the landscape year-after-year, especially since the end of WWII. Ours is the first-ever pesticide-based agricultural society. Dreadfully, it’s an experiment that is going dead wrong… all of a sudden!

Insects are basic to thousands of food chains; for example, the disappearance of Britain’s farmland birds by over 50% in 40 years. Additionally, North America and Europe species of birds like larks, swallows, and swifts that feast on flying insects have plummeted.

But, these are only a few of many, many recorded examples of massive numbers of wildlife dropping dead right before our eyes.

Significantly, insects are the **primary source for ecosystem creation and support**. The world literally crumbles apart without mischievous burrowing, forming new soil, aerating soil, pollinating food crops, etc. **Nutrition for humans happens because insects pollinate**.

**B). Deforestation**

Dominik **Goldstein 16**, “Eliminating deforestation and forest degradation in order to prevent species from extinction, especially with regard to areas in Asia, Africa and South America,” <http://www.balmun.de/fileadmin/2016/Research_Reports/RR_EC_I_Deforestation.pdf>

Deforestation and forest degradation are undoubtedly part of the **largest environmental problems** our world is facing today. Of the 16 million square kilometers of forest that once covered the earth’s surface, only 6.2 million remain up to date. 2.3 million have been destroyed between 2000 and 2012 alone. Not only does this threaten the balance of local important environmental factors such as **water cycles** and **g**reen**h**ouse **g**as decomposition and harm the economy and society of affected areas, but it also **endangers many different species**, as **80% of all biodiversity** is found in forests. **The entire planet and its population** rely on the fate of forests, it is vital that the issues of deforestation and forest degradation are tackled thoroughly, however, it can only be achieved through close cooperation amongst all UN member nations.

**C). Chemical emissions**

Julian **Cribb 17**, Fellow of the Australian Academy of Technological Sciences and Engineering, 2017, “The Poisoner,” in Surviving the 21st Century, p. 113-117

There are two essential points about the Earthwide **chemical flood**. First it is quite **new**. It began with the industrial revolution of the late nineteenth century, but expanded dramatically in the wake of the two world wars—where chemicals were extensively used in munitions—and has exploded in deadly earnest in the past 50 years, attaining a new crescendo in the early twenty-first century. It is something our ancestors never faced—and to which we, in consequence, lack any protective adaptations which might otherwise have evolved due to constant exposure to poisons.

Second, the toxic flood is, for the most part, preventable. It is not compulsory—but **is an unwanted by-product of economic growth**. Though driven by powerful industries and interests, it still lies within the powers and rights of citizens, consumers and their governments to demand it be curtailed or ended and to encourage industry to safer, healthier products and production systems.

The issue is whether, or not, a wise humanity would choose to continue poisoning our children, ourselves and our world.

Regulatory Failure

Despite the fact that around 2000 new chemicals are released onto world markets annually, most have not received proper health, safety or environmental screening—especially in terms of their impact on babies and small children. Regulation has so far failed to make any serious curtailment of this flood: only 21 out of 144,000 known chemicals have been banned internationally, and this has not eliminated their use. At such a rate of progress it will take us more than 50,000 years to identify and prohibit or restrict all the chemicals which do us harm. Even then, bans will only apply in a handful of well-regulated countries, and will not protect the Earth system nor humanity at large. Clearly, national regulation holds few answers to what is now an out-of-control global problem.

Furthermore, the chemical industry is relocating from the developed world (where it is quite well regulated and observes its own ethical standards) and into developing countries, mainly in Asia, where it is largely beyond the reach of either ethics or the law. However, its toxic emissions return to citizens in well-regulated countries via wind, water, food, wildlife, consumer goods, industrial products and people. The bottom line is that it doesn’t matter how good your country’s regulations are: you and your family are still exposed to a growing global flood of toxins from which even a careful diet and sensible consumer choices cannot fully protect you.

The wake-up call to the world about the risks of chemical contamination was issued by American biologist Rachel Carson when she published Silent Spring in 1962, in which she warned specifically about the impact of certain persistent pesticides used in agriculture. Since her book came out, the volume of pesticide use worldwide has increased 30-fold, to around four million tonnes a year in the mid-2010s. Since the modern chemical age began there has been a string of high-profile chemical disasters: Minamata, the Love Canal, Seveso, Bhopal, Flixborough, Oppau, Toulouse, Hinkley, Texas City, Jilin, Tianjin. Most of these display a familiar pattern of unproductive confrontation between angry citizens, industry and regulators, involving drawn-out legal battles that deliver justice to nobody. By their spectacular and local nature, such events serve to distract from the far larger, more insidious and ubiquitous, universal toxic flood.

Chemists and chemical makers often claim that their products are ‘safe’ because individual exposure (e.g. in a given product, like a serve of food) is too low to result in a toxic dose, a theory first put forward by the mediaeval scholar Paracelsus in the sixteenth century. This ‘dose related’ argument is disingenuous, if not dishonest—as modern chemists well know—for the following reasons: Most chemicals target a receptor or receptors on certain of your body cells, to cause harm. There may be not one, but hundreds or even thousands of different chemicals all targeting the same receptor, so a particular substance may contribute an unknowable fraction to an overall toxic dose. That does not make it ‘safe’. Chemicals not known to be poisonous in small doses on their own can combine with other substances in water, air, food or your body to create a toxin. No manufacturer can truthfully assert this will not happen to their products. Chemical toxicity is a function of both dose and the length of time you are exposed to it. In the case of persistent chemicals and heavy metals, this exposure may occur over days, months, years, even a lifetime in some cases. Tiny doses may thus accumulate into toxic ones. Most chemical toxicity is still measured on the basis of an exposed adult male. Babies and children being smaller and using much more water, food and air for their bodyweight, are therefore more at risk of receiving a poisonous dose than are adults.

Chemicals and minerals are valuable and extremely useful. They do great good, save many lives and much money. No-one is suggesting they should all be banned. But their value may be for nothing if the current uncontrolled, unmonitored, unregulated and unconscionable mass release and planetary saturation continues.

Chemical Extinction

Two billion years ago, excessive production of one particular poisonous chemical by the inhabitants of Earth caused a colossal die-off and threatened the **extermination of all life**. That chemical was oxygen and it was excreted by the blue-green algae which then dominated the planet, as part of their photosynthetic processes. After several hundred million of years, the planet’s physical ability to soak up the surplus O2 in iron formations, oceans and sediments had reached saturation and the gas began to poison the existing life. This event was known as the ‘oxygen holocaust’, and is probably the nearest life on Earth has ever come to complete disaster before the present (Margulis and Sagan 1986). Since it developed slowly, over tens of millions of years, the poisonous atmosphere permitted some of these primitive organisms to evolve a tolerance to O2—and this in time led to the rise of oxygen-dependent species such as fish, mammals and eventually, us. The takehome learning from this brush with total annihilation is that it is possible for living creatures to **pollute themselves into oblivion**, if they don’t take care to avoid it or rapidly adapt to the new, toxic environment. It’s a message that humans, with our colossal planetary chemical impact, would do well to ponder.

While it is unlikely that human chemical emissions alone could reach such a volume and toxic state as to directly threaten our entire species with extinction (other than through carbon emissions in a runaway global warming event) or even the collapse of civilization, it is likely they will emerge as a serious contributing factor during the twenty-first century in combination with other factors such as war, climate change, pandemic disease and ecosystem breakdown. Credible ways in which man-made chemicals might imperil the human future include: **Undermining the immune systems**, physical and mental health of the population through growing exposure to toxins Reducing the intelligence of current and future generations through the action of nerve poisons on the developing brains and central nervous systems of children, rendering humanity less able to solve its problems and adapt to major changes; and by increasing the level of violent crime and conflict in society, which is closely linked to lower IQ. Bringing down the economy through the massive healthcare costs of having to nurse, treat and maintain a growing proportion of the population disabled by lifelong chronic chemical exposure. By poisoning the ecosystem services—clean air, water, soil, plants, insects and wildlife—on which **humanity depends for its own survival** and thereby contributing to potential global ecosystem breakdown By augmenting the global arsenal of weapons of mass destruction and hence the risk of their use by nations or uncontrollable fanatics.

#### Chemical emissions cause extinction

Danielpour ’14 [Steven; April 2014; Director of Specifications at HOK, Professor at the Pratt Institute; PaintSquare, “Sustainable Coatings: Shifting the Paradigm,” https://www.paintsquare.com/archive/?fuseaction=view&articleid=5271]

Scientific research on species extinction makes it clear that human survival depends on maintaining our ecological cycle, as well as those of other species and their habitats. Yet we’re barreling like a runaway train toward depleting some key resources.

Petroleum: Petrochemicals, a necessary feedstock for high-performance coatings, derive from fossil fuels that took millions of years to create; they are not readily replenished. Sustainable resource management requires that we conserve irreplaceable resources through closed-loop manufacturing, reusing manufacturing byproducts and recycling waste into new products.

Water Resources: Only 3 percent of the Earth’s water is potable, and most of this supply is locked in the polar ice cap. Just 0.003 percent of the world’s water is readily available for human consumption, and 16 percent of that is used to manufacture building materials and construct buildings. Worse yet, due to pollution, 40 percent of streams, 45 percent of lakes and 50 percent of estuaries in the United States were deemed not clean enough to support fishing and swimming in a 2000 Environmental Protection Agency study. The Index of Watershed Indicators reports that only 15 percent of our watershed has relatively good water quality.

Forests: Rain forests play an important role in maintaining Earth’s air quality, absorbing carbon dioxide emissions and VOCs (volatile organic compounds), while replenishing the air with oxygen. Statistics show that the annual rate of global deforestation is equal to an area the size of the state of Georgia. This is critical, because it has been estimated that when more than 70 percent of an ecosystem is lost, the remainder may be unable to sustain the environment needed for survival.

Waste: The United States generates enough garbage daily to fill 63,000 garbage trucks, which, lined up, would stretch 400 miles from Los Angeles to San Francisco. The building industry accounts for 20 percent of this waste stream.

Energy: The U.S. Department of Energy estimates that improvements in U.S. building energy efficiency using existing technology could save $20 billion. Forty percent of the world’s energy is used to construct and operate buildings.

The numbers are grim, but designers and suppliers have real options for countering these trends. We can employ what I like to call the Seven Principles of Sustainable Design:

Use Low-Impact Materials: Select non-toxic, sustainably produced or recycled materials that require little energy to process.

Promote Energy efficiency: Use less energy to manufacture more efficient products.

Select for Quality and Durability: Use durable, longer-lasting and better-functioning products to minimize replacement frequency.

Design for Reuse and Recycling: Design products, processes and systems for performance in a commercial “afterlife.”

Employ Bio-Mimicry: Use scientific data to redesign industrial systems along biological lines, enabling the constant reuse of materials in continuous closed cycles.

Substitute for High-Use Service: Shift modes of consumption from single ownership to public/shared ownership (e.g., private automobile to car-sharing service). Promote minimal resource use per unit of consumption.

Choose Renewable Sources: Use materials extracted from nearby (local or bioregional), sustainably managed renewable sources that can be composted (or fed to livestock) when usefulness has been exhausted.

Responding to a Changing Society

Beyond the challenges we face in conserving scarce resources, a few key megatrends underscore the importance of sustainable coatings.

Population Growth: World population doubled from 2.5 billion in 1950 to 5 billion in 1990; it is projected to reach 9.8 billion in 2050. The population is also shifting from rural areas to major metropolitan areas, with people migrating for better employment, commerce and quality of life. New construction will be required to support growth and urbanization. We’ll need to replace, upgrade, repurpose and conserve existing structures and infrastructures.

Climate Change: Once mislabeled “global warming,” the significant, lasting change from relatively mild, predictable weather patterns to more unpredictable patterns increasingly will affect industrialized farming and dense urban populations. We’ll see more pressure to produce materials, products and assemblies that can withstand extreme variances in weather. Basic code-compliant solutions that are “good enough” today will no longer be acceptable.

We’re now designing disaster-mitigation plans and hardening essential facilities and infrastructure, as new codes require mitigation of rising water levels and storms we once saw every 100 years.

We can expect to see carbon dioxide emissions regulated, promoting net-zero buildings whose every feature is designed to reduce energy use and associated carbon emissions.

Greater emphasis will be placed on energy efficiency and energy recovery, as well as water-resource management and conservation.

Information Explosion: Information is growing exponentially, and a corollary increase in access to this information through the Internet means that people are more informed than ever about optimum human health and the risks associated with exposure to chemicals. We pore over studies seeking to define the “tipping point” for toxemia in terms of parts per billion of key compounds. We worry about information that links exposure to changes of DNA affecting future generations.

These health concerns are driving changes that have tremendous implications for building materials.

* New Regulations: States increasingly introduce regulations designed to control exposure and assure public health. The International Green Construction Code is now used for baseline sustainability in regular building codes.
* VOC Limits: VOCs are regulated on the West Coast via the South Coast Air Quality Management District, and on the East Coast via the Ozone Transport Commission. Recent changes in California have lowered VOC limits to a maximum of 50 grams per liter in coatings.
* New Organizations: The Living Building Challenge introduced a chemical “Red List” banning hazardous chemicals from use on projects.
* More Transparency: As a result of requirements in LEED v4 for product transparency, manufacturers of products used on LEED projects must detail the chemical content of the products in HPDs (health product declarations) and EPDs (environmental protection declarations).
* New Social Contract: Major petroleum chemical companies are forced to address the population’s desire to shift from oil and coal to natural gas and to renewable energy and biomass materials.

Technology Explosion: The last 20 years of mergers and acquisitions led to large chemical plants manufacturing single resins. The future lies in small batch processing of custom chemicals and new processing technologies. These include nano-technology, micron-level changes to alter product performance; phase-changing materials, capable of storing and releasing large amounts of energy; and regenerative chemicals that respond to environmental changes.

### More defense

#### Adaptation makes agriculture resilient

FAOUN 19 [FAO COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE @ UN, “THE STATE OF THE WORLD’s BIODIVERSITY FOR FOOD AND AGRICULTURE”, https://www.courthousenews.com/wp-content/uploads/2019/02/fao-report.pdf]

Maintaining, using and developing adapted genetic resources A number of countries note the significance of well-adapted species, varieties or breeds in terms of enhancing resilience to climate change. Several specific examples of how such components of BFA have been utilized in adaptation efforts are provided. For example, Papua New Guinea mentions the distribution to farmers of crop accessions identified in ex situ collections as being tolerant to salinity (taro and cassava varieties), drought (cassava, banana and aibika13 varieties) and flooding (taro and banana varieties). It notes that this activity proved very useful in sustaining food security during the drought that struck the country in 2015 and 2016,14 when 40 percent of the population was seriously affected. Panama reports that its criollo livestock breeds have a combination of characteristics that are not found in any introduced breeds, including high fertility rates, longevity, resistance to parasites and diseases and good grazing abilities, including the ability to make use of poor-quality pastures. It notes, in particular, the potential of two locally adapted cattle breeds, the Guaymi and the Guabal^, in climate change adaptation. It also mentions, among its climate change adaptation measures, the development of maize varieties and hybrids that are tolerant of drought and diplodia rot (a fungal disease) and that grow well in soils with low nitrogen levels. With regard to choices at species level, Sudan reports that some of its livestock keepers have replaced cattle and sheep with dromedaries and goats, as the latter species are better suited to a climate change-affected environment that is more prone to droughts.

Some countries note the significance of participatory breeding programmes in the context of climate change. For example, Oman mentions that local wheat and barley landraces have been improved through such programmes to obtain varieties that have shorter growing seasons and can be managed more flexibly, especially during years with prolonged periods of extreme heat and limited water availability. Ensuring farmers have access to the adapted germplasm they need is another issue highlighted. Nepal, for example, mentions the role of community-based seed banks in providing farmers with immediate access to locally adapted germplasm that can be used in efforts to cope with climate change.

#### New crops are resilient to disease

Eschner 2/7/19 [Kat Eschner, Popsci Journalist, “These genetic 'goggles' could help us engineer wildly resilient crops”, https://www.popsci.com/crops-disease-resistant-genes]

Stem rust. Crown rust. Wheat blast. Powdery mildew. These whimsically-named diseases and others like them have devastating impacts for farmers and the people who rely on their bounty. A new method for finding disease-resistance genes in the wild cousins of domesticated crops could improve our ability to fight back.

In the wild, interbreeding is one of the ways plants remain genetically diverse. Domesticated crops don’t do this, so they have far less genetic diversity. If an illness can kill one of them, it likely can kill them all—so without diverse genes for disease resistance, domesticated plants like wheat and oats are vulnerable to contagion. As crops became domesticated, they also became genetically dissimilar from their wild relatives in ways that prevent the two from interbreeding. The biggest effect of this is food instability: whole crops can be quickly wiped out by diseases. In Bangladesh, for instance, wheat blast—a fungus endemic to South America—arrived in 2016 and has already done serious damage in a region of the world where the rate of people who are malnourished is high.

“The way we deal with that in most modern intensive cropping systems is to douse our crops with chemicals,” says lead study author Brande Wulff, a biotechnologist at the John Innes Centre in the United Kingdom. That’s not good for the environment—and it’s not always effective—but there aren’t a lot of other options at present.

Agriculture researchers have been actively combating disease for a long time by interbreeding domestic crops, like wheat, with wild relatives, but it takes more than a decade to produce a commercially viable strain. This involves identifying disease-resistant aspects of the wild plants and trying to introduce those genes into the crop plant—a process that can take generations of breeding.

Wulff’s team developed a new method to speed the process up using a technology called AgRenSeq. It’s a tool that relies on a database of information about disease-resistant genes in wild plants to find analogous genes in other crops. It acts like “goggles” that allow researchers to look at the whole genome of a wild plant, says Wulff, and quickly isolate the genes they want to introduce into the domesticated crops.

“There was a lot of skepticism, so it was very gratifying to be able to show that it worked,” says Wulff. The paper they published shows that researchers were able to use AgRenSeq to quickly isolate four resistance genes in a wild relative of domesticated bread wheat. “Quickly” here is a relative term: they did the job in months, rather than the years it would have taken using traditional methods.

“This methodology really allows you to move the resistance much more efficiently,” says Allan Fritz, an agronomist from Kansas State University who was not involved in the study. Fritz’s lab works on wheat breeding. “We know that these wild relatives harbor important resistance genes,” he says. But the genomes of these plants are huge and full of non-relevant information like transposons, says Wulff. The new method gives researchers “tags to be able to pull [genetic information] out,” says Fritz.

Researchers can use that info to speed up the rate of traditional cross-breeding or even combine it with gene editing technologies like CRISPR to introduce resistance more quickly.

The technology is still in early stages, but it has the potential to become very important, according to Jo Deborah Heuschele, a plant physiologist at the University of Minnesota. “With global climate change, diseases are becoming even more of an issue,” she says. “They’re moving and changing much faster.” There are a host of reasons for this: warm temperatures support disease growth; hurricanes can help disease spread by bearing the infection to new places; drier climates can help pathogens stay alive longer.

Diseases are good at evolving quickly to take advantage of these factors—that’s what makes them so successful. Plants, on the other hand, take longer to adapt. Heuschele, who was not involved with the current study, works on outbreaks in oats, and she says her lab is already talking about potential ways to work with AgRenSeq.

In time, Wulff hopes, “we should be able to produce crops that would be immune to certain diseases.”