### OFF

Misdisclosure is a voting issue--- growth advantage was not disclosed--- nullifies pre-round prep--- reason to reject the advantage

### OFF

#### FTC fraud prevention is funded now---unexpected demands trade off

Bilirakis et al. 21 (Gus Michael Bilirakis is an American lawyer and politician serving as the U.S. Representative for Florida's 12th congressional district since 2013; Hon. Noah Joshua Phillips is a Commissioner at the Federal Trade Commission; Hon. Lina Khan is the Chair of the Federal Trade Commission, “Transforming the FTC: Legislation to Modernize Consumer Protection,” *Committee on Energy and Commerce*, 6/28/21, <https://energycommerce.house.gov/committee-activity/hearings/hearing-on-transforming-the-ftc-legislation-to-modernize-consumer>)

Gus Bilirakis (3:12:44): Thank you. Our committee has worked extensively in a bipartisan manner to protect consumers from fraud and scams. Mr. Carter's Combating Pandemic Scams Act was enacted at the beginning of the year thanks to all of our leadership here. Representive Blunt Rochester's Fraud and Scam Reduction Act, as well as Representative Kelly's Protecting Seniors from Emergency Scams Act both cleared our chamber with bipartisan support this year. My bill, HR 2672, the FTC Reports Act, would require the FTC to report on fraud against our seniors. Commissioner Philips, how important is the work the FTC staff does to protect Americans from scams? Noah Josuha Phillips (3:13:33): Congressman, thank you for your question. The work we do to protect American consumers against frauds and scams, is our bread and butter as an agency. There is no work that makes me feel better as a commissioner, when we watch our ability to find bad guys, or taking money from American consumers, dipping into their life savings, and get that money back to them. So the work that you have done on the committee to provide funding, to provide tools for us to go after scam artists, is critical. And I think that needs to continue with the agency. Gus Bilirakis (3:14:05): Thank you, and Chair Khan, again, as you pursue other initiatives, when staff and resources be shifted away from the fraud program, which is so essential in preventing bad actors from harming our constituents? That's the question, please. Lina Khan (3:14:22): Sorry, could you repeat the question - when should services be shifted... Gus Bilirakis (3:14:26): Yes, of course. As you pursue other initiatives, when staff and resources be shifted away from your fraud program, which is so essential in preventing bad actors from harming our constituents? Lina Khan (3:14:40): Well, of course, we're always limited by the appropriations bills when it comes to thinking through how we're delegating resources across the agency. In certain instances, I think there are exigent needs that can arise in certain aspects. Gus Bilirakis (3:14:54): But you don't anticipate moving money from the fraud program, is that correct? Lina Khan (3:15:00): Not especially, but I mean, I think overall, we are trying to look through the prism of managerial efficiency and trying to understand how we can best use our resources, especially given some of the exigent circumstances and so we'll be continuing to make those determinations. Gus Bilirakis (3:15:15): I suggest that you not because this is such a very important program. Commissioner Wilson, can you elaborate on why the FTC Reports Act would also prove beneficial to increasing much needed transparency and the flow of information within the commission?

#### Unplanned expanded enforcement drains finite resources from existing priorities

Dafny 21, Professor of Business Administration at the Harvard Business School and the John F. Kennedy School of Government, and former Deputy Director for Healthcare and Antitrust in the Bureau of Economics at the Federal Trade Commission. Professor Dafny’s research focuses on competition in health care markets, and the intersection of industry and public policy. (Leemore, “The Covid-19 Pandemic Should Not Delay Actions to Prevent Anticompetitive Consolidation in US Health Care Markets,” *Pro Market*, <https://promarket.org/2021/06/10/covid-pandemic-consolidation-pandemic-monopoly/>)

However, as Commissioner Rebecca Slaughter, the current acting FTC chair has noted, these efforts have “faced resistance, with two of these recent victories only coming after district court setbacks.” Blocking a horizontal merger, even when it appears to be an “open and shut” case to a layperson, requires extraordinary resources, including large investigation and litigation teams, as well as economic and other subject matter experts who must analyze the transaction, lay out the case for blocking the merger, and rebut arguments advanced by Defendants’ attorneys and experts. To pick a recent example, consider the proposed merger of two hospital systems in the Memphis area, which the FTC filed to block in November 2020. Based on the FTC’s complaint, the merger would have reduced the number of competing systems from four to three and created a system with over a 50 percent market share. In the face of litigation, the parties abandoned the deal—consistent with this being a straightforward case. Although the FTC prevailed without a trial, it took nearly a year from the merger announcement to the abandonment. Over that period, the FTC likely devoted thousands of staff hours to the investigation and lawsuit and expended substantial taxpayer resources on expert witnesses. The higher the payoff from the merger for the merging parties—and the payoff in the case of an increase in market power can be substantial—the greater the incentive for defendants to invest extraordinary resources to fight a merger challenge. Even if there is only a middling (and in some cases, small) chance of getting a merger through, it may well be in the parties’ interest to see if they can prevail, absorbing the agencies’ (i.e., DOJ and FTC’s) scarce resources in that attempt and preventing them from devoting those resources to investigate other transactions or anticompetitive practices. The substantial resources required to challenge transactions, paired with stagnating enforcement budgets, may explain why authorities have elected not to challenge some horizontal transactions they would likely have challenged in previous eras. Using data on a wide range of industries, antitrust scholar John Kwoka documents that enforcers rarely raise concerns about changes in market structure that used to draw scrutiny—that is, mergers that yield five or more market participants.

#### Congress hates the plan. They’re in the pockets of chancellors and Athletics Directors.

Jenkins 21, columnist @ Wa Po (Sally, “The college sports debate comes to Capitol Hill, athletes not invited,” Washington Post, <https://www.washingtonpost.com/sports/2021/06/08/congress-ncaa-nil-senate-commerce-hearing/>)

There is a continual undertow on NCAA issues that pulls even the most well-meaning people adrift. It’s a current of sentiment that says others know what is best for college athletes, who should run along and play while the grown-ups make the real decisions. A powerful Senate committee is about to hold a consequential hearing on the name, image and likeness rights of college athletes, and the list of people who will publicly testify looks like a jury from the 1950s. Six guys, most of them silver-haired, not one under 45. No women. You can see the problem. I mean, you will literally see it Wednesday morning, when the Senate Committee on Commerce, Science and Transportation convenes to hash over NIL rights. Many senators are genuinely interested in NCAA reform; some of them have been working on achievable bipartisan NCAA legislation for a while and are asking good questions about the institution. But that’s just it — the focus is always on the institutions. And so, NCAA President Mark Emmert again will be the lead witness, his brow furrowed, as he tries to decide what color paint might best cover up the rickety, peeling and disorderly house his “institution” really is, hoping to divert your attention from the thousands of athletes holding it up with the muscles of their backs. College softball coaches decry treatment by NCAA: ‘What’s lower than an afterthought?’ NCAA issues are hard. Working on them is like hacking through mangrove thickets. But they would be less hard if the Honorables would focus less on the institutional impact of NIL legislation and more on the personal. The simple fact is that a person’s natural-born name and attendant economic rights are inherently their own property. That the NCAA is having trouble unwinding the problem of its own creation, that it has immorally built a flush economy by purloining the images and likenesses of others and refused to stop despite a decade of court reversals and other warnings, should not hold up federal NIL legislation a moment longer. And yet. Over the past year, eight pieces of federal legislation have been proposed, from Sen. Roger Wicker’s (R-Miss.) Collegiate Athlete Compensation Rights Act, to Sen. Jerry Moran’s (R-Kan.) Amateur Athletes Protection and Compensation Act, to Sen. Chris Murphy’s (D-Conn.) College Athlete Economic Freedom Act. None has passed, while leaders continue to wrangle in various committee hearings over how best to protect the “institution.” Similar hearings with similar witness lists have been held in various committees: the Senate Committee on Health, Education, Labor and Pensions; the Senate Judiciary Committee; and the Senate Subcommittee on Manufacturing, Trade and Consumer Protection. The differences boil down to this: Lawmakers disagree to what extent the NCAA should be granted cover, such as antitrust exemption, to ward off lawsuits by, you know, athletes. Meanwhile, these hearings have the tone of a benevolent father discussing a limited allowance with an adolescent. “How much do you think you earned for washing my car, Joey?” Those scheduled to appear Wednesday include Gonzaga men’s basketball coach Mark Few, Howard University President Wayne A.I. Frederick, ESPN’s Rod Gilmore and two law school professors who study NCAA issues. One of them is Matthew J. Mitten, a distinguished gent from Marquette Law who writes papers with names such as “A Regulatory Solution to Better Promote the Educational Values and Economic Sustainability of Intercollegiate Athletics” and who has advocated for NCAA antitrust exemption because it is “a unique joint venture among institutions of higher education.” Since when does a venture’s uniqueness justify its illegality? This is a witness list outrageously stacked with pro-NCAA advocates, from Few — an institutionalist who has suggested politicians stay in their lane and leave the NCAA to solve its problems — to Emmert, who a full decade ago convened a “summit” to discuss issues plaguing college athletics and neglected to invite a single athlete. Only occasionally do lawmakers hear athletes’ personal accounts — usually privately. Sedona Prince, a basketball player at Oregon, has spoken with legislators and will offer testimony to the Commerce committee, but it will be in writing. If she were allowed to speak publicly along with Emmert, this is what she would say: As a freshman at Texas, she badly broke her tibia and fibula. After multiple surgeries, she transferred to Oregon, where she struggled to pay medical bills in the tens of thousands of dollars, while the NCAA denied her so much as a GoFundMe campaign. “I just think it’s outrageous that the NCAA continues to treat us like children and takes away our rights in the name of somehow ‘protecting us,’ ” Prince has said. Her written testimony will contain this plea: “No legislation should sacrifice college athletes’ rights and freedoms to protect the NCAA’s bank account.” There is a business term called “input bias,” and Congress is suffering from it. It has heard from far too many chancellors, vice chancellors, law professors, athletic directors and commissioners parading to Capitol Hill in a quest to protect their institutional income. Input bias, a term coined by Wharton business professor Maurice Schweitzer, is what happens when information is used or misused to form false impressions that lead to flawed conclusions. Example: Exorbitant spending on research and development is not really a measure of innovation. A longer stay in a hospital does not mean better care. Just because you work in the office later doesn’t mean your work is better. And a flood of testimony from institutional representatives does not yield the best advice on how to reform institutions. In fact, this litany of “institutional” testimony skews the issues. Example: If an Ohio State football player cuts a Campbell’s Soup commercial, should he have to disclose that money to the school’s athletic department and the NCAA, and should they have veto power over it? But the answer cannot come from the institutions. It can only come from looking at the personal. Does a talented scholarship cellist have to tell a dean if he made money playing a gig? When Yo-Yo Ma was at Harvard, did he have to let the school decide whom he could play for, and for how much? Of course not. When Natalie Portman was at Harvard, did she have to disclose when she got a movie deal or what she was paid for a Star Wars role? No, because those would have been outrageous abuses; the school simply had no right. So why on Earth should the NCAA be permitted to tell Sedona Prince that she can’t have an Instagram sponsor on the 240,000-follower account she built by herself? This is how far off course the “institutional” undertow has pulled us — until congressional committees and hearings are completely upside down. Why is Congress so preoccupied with protecting the NCAA from Sedona Prince, rather than protecting Sedona Prince from the NCAA? There are a lot of messages in that witness list, but the primary one is this: Congressional lawmakers are nowhere near granting college athletes their full rights. They haven’t even granted them a full voice.

#### That causes FTC wing-clipping

Hyman 14, Workman Chair in Law and Professor of Medicine, University of Illinois, and former special Counsel at the Federal Trade Commission (David A., and William E. Kovacic, Hyman is H. Ross & Helen; Kovacic is Global Competition Professor of Law and Policy, The George Washington University Law School, “Can’t Anyone Here Play This Game - Judging the FTC’s Critics The FTC at 100: Centennial Commemorations and Proposals for Progress: Essays,” George Washington Law Review, 83.6)

The ABA Commission set out three basic guidelines for the FTC's future antitrust work:

(1) Forsake trivia in favor of economically significant matters;123

(2) Emphasize cases involving complex, unsettled questions of competition economics and law, and leave per se cases to the DOJ;124 and

(3) Replace voluntary commitments with binding, compulsory orders. 12 5

Each of these changes certainly sounds sensible, particularly when taken one at a time. After all, who could be against the forsaking of trivia? But, each change involved a shift from a safer law enforcement strategy to a riskier one. The pursuit of economically significant matters galvanizes tougher opposition in litigation and motivates firms to seek out legislative assistance in backing down the agency. Focusing on complex and unsettled areas of the law involves greater litigation risk (because the cases are on the edges of existing doctrine) and exposes the agency more broadly to claims that it is engaged in unprecedented enforcement or sheer adventurism. The pursuit of tougher remedies arouses a stronger defense by respondents and, again, increases efforts to enlist Congress to discipline the FTC. Although the ABA Commission noted the importance of political support and a vigorous chairman who would "resist pressures from Congress, the Executive Branch, or the business community," 1 26 it paid almost no attention to the predictable consequences of having the FTC occupy the risk-heavy end of the spectrum of all possible enforcement matters. The political science literature before 1969 had emphasized the political dangers inherent in the Commission's expansive norms-creation mandate and its broad information-gathering and reporting powers.1 27 For example, Pendleton Herring's study in the mid-1930s about the political hazards facing economic regulatory bod-ies said the agency's mandate placed it in "a precarious position" from the start: The parties coming within [the FTC's] jurisdiction were often very powerful. The more important the business, the wider its ramifications, and the more numerous its allies and subsidiaries, the closer it came within the commission's responsibility. To review the firms with which this agency has had official contacts, especially in its early years, is to go down the roster of big business in this country. Making political enemies was soon found to be an incident in the routine of administration. The discharging of official duties meant interfering with business and often "big business."128 Had it read and absorbed the teaching of the available political science literature, the ABA panel would have had to confront deeper, harder questions about the causes of the FTC's performance. The panel missed (or underestimated) the big issue of politics. Like many blue ribbon studies of government performance, the ABA Report was long on demands for bold action and short on practical suggestions about how to cope with the crushing political backlash that boldness can breed.129 B. The Posner Dissent Posner argued that the FTC would not be able to deliver on the ABA Commission's ambitious agenda because the FTC's leaders and staff lacked the necessary incentives to do so. 130 In his view, FTC Commissioners deliberately avoided confrontation with powerful eco- nomic interests that could frustrate reappointment or deny the board member a suitable landing place in the private sector upon leaving the agency.131 Similarly, FTC staff saw little upside (and considerable downside) to being overly aggressive in enforcing the law.1a2 Posner's assessment was certainly plausible. Government service disproportionately attracts people who plan to stay, and keeping your head down is an excellent way of doing that. "Don't make waves" becomes the default strategy of the lifers, and those who are tempera-mentally unsuited to that approach either self-select out, or are ac- tively encouraged to depart. 33 But matters are not so simple. Regulators that create or adminis- ter a program that threatens major commercial interests can leave government and monetize their expertise by guiding firms through the regulatory shoals.1 34 The prosecution of big cases attracts media at- tention and raises the prominence of the officials who set them in mo- tion. This publicity often translates into attractive offers for post- government employment. Posner also overlooked the emergence of attractive career paths for aggressive enforcement officials outside the private sector. A reputation for toughness would prove to be an asset, not a barrier, for those aspiring to join university faculties, think tanks, or advocacy groups that wanted to add high visibility officials to their ranks. III. SOME LESSONS AND A FEW MODEST SUGGESTIONS People like morality tales. The conventional morality tale in- spired by the ABA Report goes like this: In 1969, the FTC had a long history of existence, but almost nothing else to recommend it.1" The ABA Report accurately diagnosed the problems and laid out a clear agenda for the FTC to redeem itself.136 The FTC followed the recom- mendations in the ABA Report, and the agency was saved. All hail the ABA Commission, and the wisdom of those who served onit.13 Of course, life is more complicated. Unambiguous morality tales are more common in children's books than in real life. 38 A close reading of the record indicates that the pre-1969 FTC was not as aw-ful, and the ABA Report was not as good, as the conventional wisdom would indicate.1 39 We consider the lessons that should be drawn and offer four "modest suggestions that may make a small difference" the next time we encounter a similar situation.140 A. Be Careful What You Demand (Or Wish For) The ABA Commission wanted the FTC to be a fierce and aggressive enforcer/regulator, and it generated a detailed list of all the things the agency had to do to justify its continued existence.141 The FTC responded aggressively to the challenge-but in so doing, it became significantly overextended. In other work, we consider a number of factors that appear to be associated with good agency performance.14 2 One of the most important factors is whether the agency has the capacity and capability to perform the tasks that it has been given (or for which it has assumed responsibility).143 An agency that is overextended will find itself engaged in a constant process of regulatory triage-meaning it is unlikely to do a good job on any of the tasks within its portfolio of responsibilities. It is one thing to launch a single bet-the-agency case and entirely another to launch a half-dozen of those cases and an equal number of significant rulemaking projects simultaneously-let alone staff each case and rulemaking project so as to maximize the likelihood of good outcomes across the entire portfolio.144 The ABA Commission set a high bar for the FTC to clear if it was to remain in business-and the FTC responded with the enforcement equivalent of building and launching an armada of 1,000 ships.145 Little thought was given by the ABA Commission (or by top FTC management) as to whether the agency was up to the task of waging the functional equivalent of multiple land wars in Asia. 146 In particular, the ABA Commission gave no attention to the time it would take the agency to build the highly skilled teams of professionals it would need to perform the ambitious agenda it had recommended. There should have been an express caution that building this capability would take time. Instead, the ABA Report's "one last chance" admonitionl47 led the FTC to take on a daunting agenda before it had the ability to deliver. This consequence arguably is one of the ABA Commission's most unfortunate legacies. The remarkable thing is that the FTC managed to do as well as it did-notwithstanding the Herculean list of labors handed to it by the ABA Commission. B. Leadership Incentives Matter Posner did not think the FTC leadership would ever be able to rouse itself from its stupor.14 8 He also could not envision a set of in- centives that would motivate the FTC to become an activist presence on the regulatory scene. 149 As detailed above, Posner's assessment on both of these issues was wrong.150 But, it does not follow that the FTC's leadership (or the leader- ship of any other agency) is subject to an optimal set of incentives. Agency leadership always faces a choice between consumption and investment-and the stakes are systematically skewed toward con- sumption (in the form of launching new high-profile cases) by the short duration of any given leader's tenure.'51 As one of us noted in another article, the case-centric approach to evaluating agency per- formance-which is what the ABA Commission effectively embraced and encouraged-has a critical vice: It accords no credit to long-term capital investments. It gives decisive weight to the initiation of new cases. This incentive system can warp the judgment of incumbent political appoin- tees who typically serve terms of only a few years. The per- ceived imperative to create new cases can create a serious mismatch between commitments and capabilities, as the si- rens of credit-claiming beckon today's manager to overlook the costs that improvident case selection might impose on the agency in the future, well after the incumbent manager has departed. It is a common aphorism in Washington that agency leaders should begin by picking the low-hanging fruit.... What is missing in the lexicon of Washington poli- cymaking is an exhortation to plant the trees that, in future years, yield the fruit.1 52 [FOOTNOTE 152 BEGINS] 152 Kovacic,supra note 144, at 922; see also Kovacic, supra note 151, at 189 ("[A] short-term perspective may incline the manager to launch headline-grabbing initiatives with inadequate regard for the matter's underlying merits or the ultimate cost to the agency, in resources and reputation, in litigating the case. If the case goes badly, the manager responsible for the take-off rarely is held to account for the crash landing. He can hope the passage of time will dim memories of his involvement, he can blame intervening agents for their poor execution of his good idea, or he can shrug his shoulders and say he was making the best of the fundamentally bad situation that policymakers encounter in the nation's capital."); Timothy J. Muris, Principlesf or a Successful Competition Agency, 72 U. CHi. L. REV. 165, 166 (2005) ("An agency head garners great attention by beginning 'bold' initiatives and suing big companies. When the bill comes due for the hard work of turning initiatives into successful regulation and proving big cases in court, these agency heads are often gone from the public stage. Their successors are left either to trim excessive proposals or even to default, with possible damage to agency reputation. The departed agency heads, if anyone in the Washington establishment now cares about their views, can always blame failure on faulty implementation by their successors."). [FOOTNOTE 152 ENDS] Thus, if anything, the ABA Commission's "do something" recommendations encouraged (and hyper-charged) precisely the wrong incentives. C. Don't Forget About Politics Perhaps the largest failing of the ABA Commission was its failure to anticipate the political risks associated with its recommendations. Academics and do-gooders will enthusiastically lecture all and sundry about how the government exists to promote the general public interest-but decades of research on political economy make it clear that there is not much of a constituency for that mission.153 Indeed, an agency that seeks to promote the general public interest is an agency without any constituency.1 54 Thus, the ABA Commission wound up and sent into battle an agency without any real constituency or political backing, to wage war against a large and politically powerful collection of firms in every sector of the economy. There is no question that the FTC was unlucky, in that many of its most enthusiastic supporters were being voted out of office at the same time the FTC was picking fights with everyone and their brother.155 But, luck aside, if you were trying to create a "coalition of the willing" determined to clip the wings of the FTC, you would be hard-pressed to pick a better strategy than the one selected by the ABA Commission.15 6

#### Fraud funds terror operations

Tierney 18, George & Mary Hylton Professor of International Relations; Director Global Research Institute (GRI) (Michael, “#TerroristFinancing: An Examination of Terrorism Financing via the Internet,” International Journal of Cyber Warfare and Terrorism, vol. 8, no. 1, 01/2018, pp. 1–11)

2. TERRORIST FINANCING AND THE INTERNET

As mentioned, terrorists’ use of the internet has become a major concern for security officials across the world in recent years. Like many other users, terrorists have found that the internet is an invaluable tool to share information quickly, in order to disseminate ideas and link up with likeminded individuals (Jacobson, 2010; Okolie-Osemene & Okoh, 2015). In this manner, terrorists use the internet for a variety of purposes, including recruitment, propaganda, and financing. As scholars have also noted, the internet is an attractive option for extremists due to the security and anonymity it provides (Jacobson, 2010). Yet while there have been a growing number of studies completed on the ways in which terrorist organizations use the internet to recruit and indoctrinate others, there has been relatively little focus on the methods by which terrorists finance themselves through online activities. Some researchers have attempted to fill gaps in this area by broadly studying internet aspects of terrorism financing. However, research on this particular aspect of terrorism financing still appears to be lacking, with little focus on new methods of terrorist financing via the internet or a marrying of strategies to combat online financing trends available to practitioners in the field.

For instance, Sean Paul Ashley (2012) assessed the mobile banking phenomenon, which is prevalent in regions such as the Middle East and Africa, and provides extremists with the ability to easily connect to the internet and remit funds around the world. The decentralization of this kind of banking, due to the fact that brick-and-mortar facilities are not needed to conduct transactions, has allowed terrorist financiersto more efficiently move funds while avoiding detection from authorities. Other researchers,such as MichaelJacobson (2010), have studied the waysin which terrorists engage in cyber-crime to raise and move funds. For example, Jacobson (2010) found that online credit card fraud was a fairly major source of terrorist financing. By stealing a victim’s private credit information, terrorists are able to co-opt needed funds and provide support to themselves or their counterparts. Yet as James Okolie-Osemene and Rosemary Ifeanyi Okoh (2015) note, the internet is mostly used to augment and assist activities which occur in the physical world. In this way, it would appear that the internet is far more useful as a means to move funds globally in support of terrorism, rather than simply as a method to raise funds.

#### Nuclear war---cash is key

Hayes 18, Executive Director of the Nautilus Institute for Security and Sustainability, Ph.D. in Energy and Resources from the University of California-Berkeley, Professor of International Relations at RMIT University (Dr. Peter J., “Non-State Terrorism and Inadvertent Nuclear War”, NAPSNet Special Reports, 1/18/2018, <https://nautilus.org/napsnet/napsnet-special-reports/non-state-terrorism-and-inadvertent-nuclear-war/>)

The critical issue is how a nuclear terrorist attack may “catalyze” inter-state nuclear war, especially the NC3 systems that inform and partly determine how leaders respond to nuclear threat. Current conditions in Northeast Asia suggest that multiple precursory conditions for nuclear terrorism already exist or exist in nascent form. In Japan, for example, low-level, individual, terroristic violence with nuclear materials, against nuclear facilities, is real. In all countries of the region, the risk of diversion of nuclear material is real, although the risk is likely higher due to volume and laxity of security in some countries of the region than in others. In all countries, the risk of an insider “sleeper” threat is real in security and nuclear agencies, and such insiders already operated in actual terrorist organizations. Insider corruption is also observable in nuclear fuel cycle agencies in all countries of the region. The threat of extortion to induce insider cooperation is also real in all countries. The possibility of a cult attempting to build and buy nuclear weapons is real and has already occurred in the region.[15] Cyber-terrorism against nuclear reactors is real and such attacks have already taken place in South Korea (although it remains difficult to attribute the source of the attacks with certainty). The stand-off ballistic and drone threat to nuclear weapons and fuel cycle facilities is real in the region, including from non-state actors, some of whom have already adopted and used such technology almost instantly from when it becomes accessible (for example, drones).[16]

Two other broad risk factors are also present in the region. The social and political conditions for extreme ethnic and xenophobic nationalism are emerging in China, Korea, Japan, and Russia. Although there has been no risk of attack on or loss of control over nuclear weapons since their removal from Japan in 1972 and from South Korea in 1991, this risk continues to exist in North Korea, China, and Russia, and to the extent that they are deployed on aircraft and ships of these and other nuclear weapons states (including submarines) deployed in the region’s high seas, also outside their territorial borders.

The most conducive circumstance for catalysis to occur due to a nuclear terrorist attack might involve the following nexi of timing and conditions:

1. Low-level, tactical, or random individual terrorist attacks for whatever reasons, even assassination of national leaders, up to and including dirty radiological bomb attacks, that overlap with inter-state crisis dynamics in ways that affect state decisions to threaten with or to use nuclear weapons. This might be undertaken by an opportunist nuclear terrorist entity in search of rapid and high political impact.
2. Attacks on major national or international events in each country to maximize terror and to de-legitimate national leaders and whole governments. In Japan, for example, more than ten heads of state and senior ministerial international meetings are held each year. For the strategic nuclear terrorist, patiently acquiring higher level nuclear threat capabilities for such attacks and then staging them to maximum effect could accrue strategic gains.
3. Attacks or threatened attacks, including deception and disguised attacks, will have maximum leverage when nuclear-armed states are near or on the brink of war or during a national crisis (such as Fukushima), when intelligence agencies, national leaders, facility operators, surveillance and policing agencies, and first responders are already maximally committed and over-extended.

At this point, we note an important caveat to the original concept of catalytic nuclear war as it might pertain to nuclear terrorist threats or attacks. Although an attack might be disguised so that it is attributed to a nuclear-armed state, or a ruse might be undertaken to threaten such attacks by deception, in reality a catalytic strike by a nuclear weapons state in conditions of mutual vulnerability to nuclear retaliation for such a strike from other nuclear armed states would be highly irrational.

Accordingly, the effect of nuclear terrorism involving a nuclear detonation or major radiological release may not of itself be *catalytic* of *nuclear* war—at least not intentionally–because it will not lead directly to the destruction of a targeted nuclear-armed state. Rather, it may be catalytic of non-nuclear war between states, especially if the non-state actor turns out to be aligned with or sponsored by a state (in many Japanese minds, the natural candidate for the perpetrator of such an attack is the pro-North Korean General Association of Korean Residents, often called Chosen Soren, which represents many of the otherwise stateless Koreans who were born and live in Japan) and a further sequence of coincident events is necessary to drive escalation to the point of nuclear first use by a state. Also, the catalyst—the non-state actor–is almost assured of discovery and destruction either during the attack itself (if it takes the form of a nuclear suicide attack then self-immolation is assured) or as a result of a search-and-destroy campaign from the targeted state (unless the targeted government is annihilated by the initial terrorist nuclear attack).

It follows that the effects of a non-state nuclear attack may be characterized better as a *trigger* effect, bringing about a *cascade* of nuclear use decisions within NC3 systems that shift each state increasingly away from nuclear non-use and increasingly towards nuclear use by releasing negative controls and enhancing positive controls in multiple action-reaction escalation spirals (depending on how many nuclear armed states are party to an inter-state conflict that is already underway at the time of the non-state nuclear attack); and/or by inducing concatenating nuclear attacks across geographically proximate nuclear weapons forces of states already caught in the crossfire of nuclear threat or attacks of their own making before a nuclear terrorist attack.[17]

### OFF

T-Per Se

**Only per se illegality is a prohibition.**

**Seita and Tamura 94** (Alex Y. Seita, Professor of Law, Albany Law School of Union University. B.S. 1973, California Institute of Technology; J.D. 1976, M.B.A. 1980, Stanford University, & Jiro Tamura, Associate Professor of Law, Keio University. B.A. 1981, M.A. 1983, Keio University; LL.M. 1985, Harvard University, [“The Historical Background of Japan's Antimonopoly Law,” 1994 U. Ill. L. Rev. 115, 177-178](https://advance.lexis.com/api/document/collection/analytical-materials/id/3S3T-WD60-00CW-508X-00000-00?page=177&reporter=8130&cite=1994%20U.%20Ill.%20L.%20Rev.%20115&context=1516831))

Upon the elimination of the restriction on undue substantial disparities in bargaining power, for example, economic concentration of power in and of itself was no longer a problem for business. The elimination of the prohibition against certain concerted activities meant that cartel behavior was no longer illegal per se. Most significantly, the authorization of depression and rationalization cartels under the Antimonopoly Law, with JFTC permission, legalized cartels under certain conditions. 418 Thus the rule of reason, rather than per se illegality, now governed cartel behavior. 419

#### The rule of reason is not a prohibition.

Skoczny 01 – Professor of law, Holder of the Jean Monnet Chair on European Economic Law at the Warsaw University Faculty of Management

Tadeusz Skoczny, “Polish Competition Law in the 1990s - on the Way to Higher Effectiveness and Deeper Conformity with EC Competition Rules,” European Business Organization Law Review, Vol. 2, Issue 3-4, September 2001, LexisNexis

Most importantly, the new Act departed from the relativity of the prohibition of dominant position abuses; as in Article 82 EC Treaty, it is now a general prohibition which does not allow for exemptions on the basis of a rule of reason. Also new is the prohibition of the abuse of dominant position by groups of undertakings, which will allow to effectively control the state and the development of competition on oligopolistic markets. The Act also eliminated the distinction between monopolistic and dominant position; in theory and in practice, it was difficult to justify the maintenance of this distinction. Therefore, the Act relates only to a dominant position, the definition of which however has been changed. According to the new Article 4 point 9, dominant position means a position "which allows [the undertaking] to prevent effective competition on the relevant market thus enabling [the undertaking] to act to a significant degree independently from its competitors, contracting parties and consumers". It is easy to notice that this definition is based on the United Brands and Hoffmann La-Roche standards. It must nevertheless be emphasised that such understanding of dominance was introduced by the AMC already in 1993; it considered dominance as the capacity to act "to a large extent independently of the competitors and clients, thus also the consumers". Thanks to the AMC's judgements also the relevant product and geographical markets are defined on the basis of the criteria of "close commodity substitutability" and "homogenous competition conditions".

#### Vote neg---limits and ground---rule of reason exemptions zero topic DAs and explode the topic to any law review. Per se is the only shot at unique links.

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#### The United States federal government should increase non-antitrust regulatory prohibitions on anticompetitive mergers, acquisitions, and undemocratic cooperative governance in the agricultural sector.

#### Solves better.

Shelanski 18, Professor of Law @ Georgetown (Howard, “Antitrust and Deregulation,” Yale Law Journal)

A. Antitrust and Regulation as Policy Alternatives A variety of institutions can govern economic competition. Decentralized, capitalist economies generally rely on markets themselves to provide the incen- tives and discipline necessary to keep prices low, output high, and innovation moving forward.8 But sometimes market forces alone cannot ensure efficiency and economic welfare—for example, when the market structure has changed due to mergers or the rise of a dominant firm, or when the market is an oligopoly susceptible to parallel conduct or collusion. In such cases, governance of competition by a nonmarket institution might be warranted. Because concentrated markets or even monopolies can arise for good reasons related to efficiency, in- novation, and consumer preference, the governance of competition more often involves vigilance than liability or injunctions. Then-Judge Stephen Breyer, long a leading scholar of antitrust and regulation, described the best situation as being an unregulated, competitive market in which “antitrust may help maintain com- petition.”9 Antitrust law aims to prevent the improper creation and exploitation of market power on a case-by-case basis while avoiding the punishment of commercial success justly earned through “skill, foresight and industry.”10 Thus, competition authorities like the FTC and the DOJ’s Antitrust Division review mergers, inves- tigate single-firm conduct, and prosecute collusion.11 Private plaintiffs can pur- sue civil antitrust liability through suits in the federal courts.12 To win their claims, enforcement agencies and private plaintiffs bear the burden of showing that the effect of a firm’s activity is “substantially to lessen competition, or to tend to create a monopoly,”13 or to constitute a “contract, combination, . . . or conspir- acy” in restraint of trade,14 or to “monopolize, or attempt to monopolize” any line of business.15 Antitrust is not, however, the only institution through which government addresses competition concerns and market failures. Congress can give regulatory agencies authority to intervene where they see the need to address competition and market structure—and Congress has often done so. With such statutory authority, “[i]n effect, the agency becomes a limited-jurisdiction enforcer of antitrust principles.”16 For example, the Department of Transportation (DOT) has jurisdiction to approve transfers of routes between airlines carriers, giving it a role in reviewing airline mergers.17 The 1992 Cable Act gave the FCC authority to limit the share of the national cable market that a single operator could serve, thereby giving the agency some control over the industry’s market structure.18 The FCC has long regulated market entry and, through its control over license transfers, reviewed mergers and acquisitions in several sectors of the telecom- munications industry. More recently, the FCC issued,19 and then repealed, 20 “network neutrality” regulations intended to preserve ease of entry and a level playing field for digital services. The Food and Drug Administration (FDA), Securities and Exchange Commission (SEC), Department of Energy, and numerous other federal agencies have various powers that directly affect competition.21 State regulation can be important as well in governing competition, particularly in the insurance and healthcare industries.22 In contrast to the case-by-case approach of antitrust, regulation typically im- poses ex ante prohibitions or requirements on business conduct. The Telecommunications Act of 1996, for example, required incumbent local telephone com- panies to grant new competitors access to parts of their networks and prohibited incumbents from refusing to interconnect calls from their customers to custom- ers of competing networks.23 With the rule in place, the FCC bore no burden of proving that a specific instance of network access was necessary for competition, or that a specific denial of interconnection would harm competition. In contrast to antitrust, where the burden of proving liability is on the agency, under a regulatory regime the burden of seeking a waiver from regulation or challenging an agency’s enforcement decision is usually on the regulated party. Antitrust and regulation therefore present alternative approaches to governing competition and addressing market failures.24 The government can review individual mergers under the antitrust laws, as it does in most markets, or it can set rules that impose clear, ex ante limits on the extent of concentration, as the FCC did for media ownership under the Communications Act.25 Government can investigate under the antitrust laws whether a firm has monopoly power that it has “willful[ly]” acquired or maintained other than “as a consequence of a su- perior product, business acumen, or historic accident.”26 Alternatively, with au- thority from Congress an agency can regulate how much of a market a single firm can serve, as the FCC tried to do with cable companies,27 or require firms to dispose of key assets in order to promote competition in a relevant market, as the DOT has done with airline slots.28

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States CP

#### The 50 United States and relevant subnational entities should increase prohibitions on anticompetitive mergers, acquisitions, and undemocratic cooperative governance in the agricultural sector.

#### State antitrust is enforceable and solvent.

Lange et al. 21, \*Perry A., JD, antitrust lawyer, vice-chair of the ABA Antitrust Section’s Joint Conduct Committee. \*Brian K. Mahanna, JD, former chief of staff and deputy attorney general in the Office of the New York State Attorney General, \*Nicole Callan, JD, vice chair of the Civil Practice and Procedure Committee of the American Bar Association (ABA)'s Section of Antitrust Law, \*Álvaro Mateo Alonso, LLM, Law Degree, antitrust lawyer. (3-5-2021, "Developments in Antitrust Law: Keep an Eye on New York", *WilmerHale*, Full report accessible at: https://www.wilmerhale.com/en/insights/client-alerts/20210305-developments-in-antitrust-law-keep-an-eye-on-new-york)

Although much attention recently has been focused upon debates in Congress, potential legislative changes to U.S. antitrust law are not limited to proposals at the federal level. Many states are considering changes to their own antitrust laws, which usually can be enforced by state attorneys general and private plaintiffs. Importantly, New York legislators have introduced two bills that propose sweeping changes to the State’s antitrust law, the Donnelly Act, building on measures introduced in New York’s last legislative session.

These proposals, if enacted, would make New York’s single firm conduct statutory provisions the most aggressive in the United States and would give the New York Attorney General a more prominent role in reviewing transactions—including by creating a first-of-its-kind state merger notification requirement. These changes would allow New York’s antitrust law to reach a range of conduct not actionable under any existing federal or state antitrust law, and would introduce European-style antitrust standards to New York. Accordingly, this reform would create considerable new compliance challenges and risk for companies potentially subject to New York antitrust law, whether or not those companies are located in New York.

Other U.S. states and territories are considering antitrust law changes, but the New York proposals are the most significant. Although much of the conversation concerning developments in antitrust law has focused on “Big Tech” companies, these proposals would affect businesses across all sectors of the economy. This alert discusses these legislative proposals and key implications for businesses.

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Horse-trading DA

#### The plan only passes if it’s horse-traded for censorship prohibitions.

Perera 3-12-2021, veteran cybersecurity reporter, Data security & privacy reporter for MLex (Dave, “US antitrust legislation faces uphill battle despite unified Democratic government,” <https://mlexmarketinsight.com/news-hub/editors-picks/area-of-expertise/antitrust/us-antitrust-legislation-faces-uphill-battle-despite-unified-democratic-government>)

Renewed interest among US lawmakers in antitrust legislation is unlikely to produce radical policy shifts, notwithstanding the Democratic Party’s unified control of the federal government. Democrats promised a “big, bold agenda” after they captured the Senate by a hairsbreadth in January. Democratic lawmakers may very well stick to those ambitions and announce audacious legislative proposals. But the fate of those bills is at the mercy of a political dynamic ensuring that the more liberal the policy prescriptions, the less likely they are to become law. The most likely outcome over the next two years is more funding for enforcers at the Department of Justice and Federal Trade Commission, whether directly through appropriated funds, steeper merger notification filing fees, or both. It’s also possible Congress could incrementally tinker along the edges of antitrust. It might lower the threshold for challenging mergers, or mandate data portability requirements for social media companies. Those expecting — or fearing — more ambitious outcomes likely won’t see them enacted. So until America’s November 2022 election, scratch from the list of high probabilities reforms such as requiring dominant firms to separate lines of business, or shifting the burden of proof onto an acquiring company. Put another way, unless a bill can attract significant Republican support, not even two years of unified Democratic government can guarantee reforms. — American exceptionalism — Single party control of both congressional chambers and the presidency is relatively rare in American politics. It has occurred in fewer than a third of legislative sessions since 1980. When it strikes, it doesn’t last long — typically just the two years between one congressional election and another. Historically, unified control is a fertile period for new regulations. President George W. Bush overhauled Medicare. President Barack Obama ushered in financial sector reforms and the Affordable Care Act. Indications are that President Joe Biden is emboldened by his party’s last-minute capture of the Senate. History, of course, isn’t a blueprint. Even a brief look at past episodes of unified control reveals that not even single-party capture of the executive and legislative branches of the US government can assure the enactment of a partisan agenda. For one thing, neither political party is a monolith. Although far more politically aligned than when Democratic conservatives found common cause in the 20th century with Republicans, the major American parties nonetheless are coalitions of centrist and activist wings. For Democrats, the tensions inherent in appeasing all sides became apparent earlier this month when centrists trimmed benefits in the $1.9 trillion coronavirus stimulus package. Neither is single party grip on power secure unless it commands an overwhelming majority in the Senate, thanks to a uniquely American institution: the filibuster. In the Senate, the rules mandate a three-fifths vote before debate over a bill is cut off. In recent decades, it’s become a weapon routinely wielded by the minority party to kill legislation. The upshot is that policy legislation needs supermajority support before it can proceed, meaning the 50 Democrats of today’s Senate have little choice but to resign themselves to the grind of finding Republican supporters. There are limited exceptions. Assuming Democrats stay in unison, they don’t need Republican votes to appoint judges, approve executive branch nominations or pass fiscal legislation such as the coronavirus stimulus that just became law. It’s within Democrats’ power to abolish the filibuster, but for now, the maneuver appears safe. Asked just days ago about the matter, White House spokeswoman Jen Psaki told reporters that the president’s preference is for it to stay in place. “The president is an optimist by nature,” Psaki added. — Hunting for bipartisan consensus — Not every bill introduced in Congress, nor even every bill approved by a committee or even an entire single chamber, makes it through the process because its sponsors believe it’ll become law. There are a host of bills drafted with the intent of sending a message to industry, to independent regulators, to donors, to constituents. There are bills that lawmakers view as setting out a position to influence an ongoing policy debate. Even if it won’t become law this year, it might the next year, or the next, reintroduced and refined along the way. Telltale signs of whether a bill is a serious attempt at law are the number of cosponsors, and whether that list of names includes members of both parties in good stead with their party’s leadership. Bipartisan support is important even in the House, where Democrats have the votes to completely bypass Republicans. Because the House doesn’t have the filibuster to contend with, those with the majority of seats control the chamber. House Democrats can and do pass bills in the face of absolute House Republican opposition, but — special exceptions for fiscal bills aside — those bills are dead on arrival in the Senate. As long as the filibuster exists or Democrats lack a Senate supermajority, the House Judiciary antitrust subcommittee must court Republican support if its intention is to make new law. Finding clues of what House Democrats might seriously achieve, then, may be little more difficult than looking up the policy prescriptions House Republicans favor: giving regulators more resources, shifting the burden of proof in merger cases and boosting data portability and interoperability. A report issued by now-ranking Republican Ken Buck as a rejoinder to last year’s Democratic House Judiciary antitrust subcommittee staff report on competition in digital markets allowed that the GOP shares other Democratic concerns, including predatory pricing, monopoly leveraging and control over marketplace platforms. That conciliatory signal also came weighted, with warnings that Congress should be wary of “handing additional regulatory to agencies in an attempt to micromanage.” Instead, try instead telling enforcers they should return to first principles, the Colorado lawmaker advised. Whether Republicans and Democrats in the Senate can find common cause is an even more fraught question. Unlike its House counterpart, the Senate Judiciary subcommittee on antitrust hasn't conducted a 16-month investigation into digital monopolization. The subcommittee’s senior Republican, Utah’s Mike Lee, is prone to touting the importance of the consumer welfare standard and rails against online platforms “eager to impose the ideological censorship called for by their political benefactors.” Lee also says he’s open to working with subcommittee Chairwoman Amy Klobuchar on strengthening enforcement, adding the caveat that current antitrust laws are sufficient. Klobuchar, a Minnesota Democrat, doesn’t need Lee to get a bill through her subcommittee, but failing to find consensus with Republicans imperils her chances of making law. The prospects for her Competition and Antitrust Law Enforcement Reform Act becoming law as current written aren't good. — 'Big tech is out to get conservatives' — A looming question hanging over any bill, even one tailored to win bipartisan support, is whether it could be derailed by Republican anger at online platforms for alleged anti-conservative bias. A right-wing trope especially spread by President Donald Trump during his last year in office — the belief that platforms use their content moderation powers to silence conservatives — has mainstream acceptance in Republican circles. It’s a refrain almost obligatory for Republican lawmakers to repeat when discussing any issue related to online platforms. “Big tech is out to get conservatives,” House Judiciary Committee ranking member Jim Jordan of Ohio has said more than once. Democrats have their own share of anger at online platforms’ content-moderation practices, to be sure. They accuse online platforms of circumventing consumer protections, undermining civil rights laws and not doing enough to stymie disinformation. It’s Republicans, though, who appear the angriest, and are the more likely to insist that any legislative reform touching online platforms address content moderation, with the intention of making it harder, not easier, for online platforms to remove users, potentially imperiling a compromise measure.

#### That allows the GOP to weaponize misinformation---triggers epistemic decay and cements a perma-GOP government

Carpenter 21, contributing writer for The Nation. She received the James Aronson Award for Social Justice Journalism in 2018, and has been a finalist for the Livingston Awards and the National Awards for Education Reporting. Her writing has also appeared in Rolling Stone, Guernica, and various other publications (Zoe, “Misinformation Is Destroying Our Country. Can Anything Rein It In?,” *The Nation*, <https://www.thenation.com/article/society/right-wing-media-misinformation/>)

Natali Fierros Bock says she could feel this mass delusion calcifying in the wake of the election in Pinal County, a rural area between Phoenix and Tucson where she serves as co–executive director of the group Rural Arizona Engagement. “It feels like an existential crisis,” Bock adds. Many of the Sharpiegate claims online referred to Pinal County, and Gosar, whose district includes a portion of the area, was reportedly responsible for helping organize the January 6 “Stop the Steal” rally in Washington that resulted in the deaths of five people. Mark Finchem, a Republican who represents part of Pinal County in the statehouse, was also in Washington on January 6. The Capitol insurrection threw into relief the real-world consequences of America’s increasingly siloed media ecosystem, which is characterized on the right by an expanding web of outlets and platforms willing to entertain an alternative version of reality. Social media companies, confronted with their role in spreading misinformation, scrambled to implement reforms. But right-wing misinformation is not just a technological problem, and it is far from being fixed. Any hope that the events of January 6 might provoke a reckoning within conservative media and the Republican Party has by now evaporated. The GOP remains eager to weaponize misinformation, not only to win elections but also to advance its policy agenda. A prime example is the aggressive effort under way in a number of states to restrict access to the ballot. In Arizona, Republicans have introduced nearly two dozen bills that would make it more difficult to vote, with the big lie about election fraud as a pretext. “When you can sell somebody the idea that their elections were stolen, they’ve been violated, right? So then you need protection,” Bock says, explaining the conservative justification for the suite of new restrictions in her state. Voting rights is her organization’s “number one concern” at the moment. But Bock’s fears about political misinformation are more sweeping. Community organizing is difficult in the best of times. “But when you can’t agree on what is true and not true, when my reality doesn’t match the reality of the person I’m speaking to, it makes it more difficult to find common ground,” she says. “If we can’t agree on a common truth, if we can’t find a starting place, then how does it end?” Around the time of the 2016 election, Kate Starbird, a professor at the University of Washington who studies misinformation during crises, noticed that more and more social media users were incorporating markers of political identity into their online personas—hashtags and memes and other signifiers of their ideological alignment. In the footage from the Capitol she saw the same symbols, outfits, and flags as those she’d been watching spread in far-right communities online. “To see those caricatures come alive in this violent riot or insurrection, whatever you want to call it, was horrifying, but it was all very recognizable for me,” Starbird says. “There was a time in which we were like, ‘Oh, those are bots, those aren’t real people,’ or ‘That’s someone play-acting,’ or ‘We’re putting on our online persona and that doesn’t really reflect who we are in an offline sense.’ January 6 pretty much disabused us of that notion.” It was a particularly rude awakening for social media companies, which had long been reluctant to respond to the misinformation that flourished on their platforms, treating it as an issue of speech that could be divorced from real-world consequences. Facebook, Twitter, and other platforms had made some changes in anticipation of a contested election, announcing plans to label or remove content delegitimizing election results, for instance. Facebook blocked new campaign ads for the week leading up to the election; Twitter labeled hundreds of thousands of misleading tweets with fact-checking notes. Yet wild claims about election fraud spread virally anyway, ping-ponging from individual social media users to right-wing influencers and media. During the 2016 campaign, most public concern about misinformation centered on shadowy foreign actors posing as news sources or US citizens. This turned out to be an oversimplification, though many on the center and left offered it as an explanation for Hillary Clinton’s defeat in 2016; blaming Russian state actors alone ignored factors like sexism, missteps made by the Clinton campaign itself, and the home-grown feedback loop of right-wing media. In 2020, according to research done by Starbird and other contributors to the Election Integrity Project, those most influential in disseminating misinformation were largely verified, “blue check” social media users who were authentic, in the sense that they were who they said they were—Donald Trump, for example, and his adult sons. DONATE NOW TO POWER THE NATION. Readers like you make our independent journalism possible. Another key aspect in the creation of the big lie was what Starbird calls “participatory disinformation.” Trump was tweeting about the election being stolen from him months beforehand, but once voting got under way, “what we see is that he kind of relies on the crowd, the audiences, to create the evidence to fit the frame,” Starbird explains. Individuals posted their personal experiences online, which were shared by more influential accounts and eventually featured in media stories that placed the anecdotes within the broader narrative of a stolen election. Some of the anecdotes that fueled Sharpiegate came from people who used a felt-tip pen to vote in person, then saw online that their vote had been canceled—though the “canceled” vote actually referred to mail-in ballots that voters had requested before deciding to vote in person. “It’s a really powerful kind of propaganda, because the people that were helping to create these narratives really did think they were experiencing fraud,” Starbird says. Action by content moderators usually came too late and was complicated by the fact that many claims of disenfranchisement by individual users were difficult to verify or disprove. The Capitol riot led the tech giants to take more aggressive action against Trump and other peddlers of misinformation. Twitter and Facebook kicked Trump off their platforms and shut down tens of thousands of accounts and pages. Facebook clamped down on some of its groups, which the company’s own data scientists had previously warned were incubating misinformation and “enthusiastic calls for violence,” according to an internal presentation. Google and Apple booted Parler, a social media site used primarily by the far right, from their app stores, and Amazon stopped hosting Parler’s data on its cloud infrastructure system, forcing it temporarily offline. But these measures were largely reactions to harm already done. “Moderation doesn’t reduce the demand for [misleading] content, and demand for that content has grown during some periods of time when the platforms weren’t moderating or weren’t addressing some of the more egregious ways their tools were abused,” says Renée DiResta, technical research manager at the Stanford Internet Observatory. Deplatforming individuals or denying service to companies that tolerate violent rhetoric, as Amazon did with Parler, can have an impact, particularly in the short term and when done at scale. It reduces the reach of influential liars and can make it more difficult for “alt-tech” apps to operate. A notorious example of deplatforming involved Alex Jones, the conspiracy theorist behind the site Infowars. Jones was kicked off Apple, Facebook, YouTube, and Spotify in 2018 for his repeated endorsement of violence. He lost nearly 2.5 million subscribers on YouTube alone, and in the three weeks after his accounts were cut off, Infowars’ daily average visits dropped from close to 1.4 million to 715,000. But Jones didn’t disappear—he migrated to Parler, Gab, and other alt-tech platforms, and he spoke at a rally in Washington the night before the Capitol attack. One outcome of unplugging Trump and other right-wing influencers has been a surge of interest in those alternative social media platforms, where more dangerous echo chambers can form and, in encrypted spaces, be more difficult to monitor. “Isn’t this just going to make the extreme communities worse? Yes,” says Ethan Zuckerman, founder of the Institute for Digital Public Infrastructure at the University of Massachusetts at Amherst. “But we’re already headed there, and at least the good news is that [extremists] aren’t going to be recruiting in these mainstream spaces.” The bad news, in Zuckerman’s view, is that the far right is now leading the effort to create new forms of online community. “The Nazis right now have an incentive to build alternative distributed media, and the rest of us are behind, because we don’t have the incentive to do it,” Zuckerman explains. He argues that a digital infrastructure that is smaller, distributed, and not-for-profit is the path to a better Internet. “And my real deep fear is that we end up ceding the design of this way of building social networks to far-right extremists, because they are the ones who need these new spaces to discuss and organize.” In March, Trump spokesman Jason Miller said on Fox that the former president was likely to return to social media this spring “with his own platform.” A more fundamental problem than Trump’s presence or absence on Twitter is the power that a single executive—Jack Dorsey, in the case of Twitter—has in making that decision. Social media companies have become so big that they have little fear of accountability in the form of competition. “To put it simply, companies that once were scrappy, underdog startups that challenged the status quo have become the kinds of monopolies we last saw in the era of oil barons and railroad tycoons,” concluded a recent report by the staff of the Democratic members of the House Judiciary Subcommittee on Antitrust. For now, the reforms at Facebook and other companies remain largely superficial. The platforms are still based on algorithms that reward outrageous content and are still financed via the collection and sale of user data. Karen Hao of MIT Technology Review recently reported that a former Facebook AI researcher told her “his team conducted ‘study after study’ confirming the same basic idea: models that maximize engagement increase polarization.” Hao’s investigation concluded that Facebook leadership’s relentless pursuit of growth “repeatedly weakened or halted many initiatives meant to clean up misinformation on the platform.” The modest “break glass” measures Facebook took during the election in response to the swell of misinformation, which included tweaks to its ranking algorithm to emphasize news sources it considered “authoritative,” have already been reversed. Tech companies could do more, as the election-time tweaks revealed. But they still “refuse to see misinformation as a core feature of their product,” says Joan Donovan, research director for the Shorenstein Center on Media, Politics and Public Policy at Harvard University. The problem of misinformation appears so vast “because that’s exactly what the technology allows.” There are some signs of a growing appetite for regulation on Capitol Hill. Democrats have proposed reforms to Section 230 of the Communications Decency Act, which insulates tech companies from legal liability for content posted to their platforms, such as requiring more transparency about content moderation and opening platforms to lawsuits in limited circumstances when content causes real-world harm. (GOP critiques of Section 230, on the other hand, make the false argument that it allows platforms to discriminate against conservatives.) Another legislative tactic would focus on the algorithms that platforms use to amplify content, rather than on the content itself. A bill introduced by two House Democrats would make companies liable if their algorithms promote content linked to acts of violence. Democratic lawmakers are also eyeing changes to antitrust law, while several antitrust lawsuits have been filed against Facebook and Google. But litigation could take years. Even breaking up Big Tech would leave intact its predatory business model. To address this, Zuckerman and other experts have called for a tax on targeted digital advertising. Such a tax would discourage targeted advertising, and the revenue could be used to fund public-service media. Held to account? Twitter CEO Jack Dorsey testified remotely before the Senate Judiciary Committee in November 2020. (Matt York / AP) Social media plays a key role in amplifying conspiracy theories and political misinformation, but it didn’t create them. “When we think of disinformation as something that appeared [only in the Trump era], and that we used to have this agreed-upon narrative of what was true and then social platforms came into the picture and now that’s all fragmented… that makes a lot of assumptions about the idea that everyone used to agree on what was true and what was false,” says Alice E. Marwick, an assistant professor at the University of North Carolina who studies social media and society. Politicians have long leveraged misinformation, particularly racist tropes. But it’s been made particularly potent not just by social media, Marwick argues, but by the right-wing media industry that profits from lies. “The American online public sphere is a shambles because it was grafted onto a television and radio public sphere that was already deeply broken,” argue Yochai Benkler, Robert Faris, and Hal Roberts of Harvard’s Berkman Klein Center for Internet and Society in their book Network Propaganda. The collapse of local news left a vacuum that for many Americans has been filled by partisan outlets that, on the right, are characterized by blatant disregard for journalistic standards of sourcing and verification. This insulated world of right-wing outlets, which stretches from those that bill themselves as objective sources, Fox News chief among them, to talk radio and extreme sites like Infowars and The Gateway Pundit, “represents a radicalization of roughly a third of the American media system,” the authors write. The conservative movement spent decades building this apparatus to peddle lies and fear along with miracle cures and pyramid schemes, and was so successful that Fox and other far-right outlets ended up in a tight two-step with the White House. Fox chairman Rupert Murdoch maintained a close relationship with Trump, as did Sean Hannity and former Fox News copresident Bill Shine, who became White House communications director in 2018. The backlash against Fox in the wake of the election hinted at a possible dethroning of the ruler of the right’s media machine. Its farther-right rival Newsmax TV posted a higher rating than Fox for the first time ever in the month after the election, following supportive tweets from Trump, and during the week of November 9 it passed Breitbart as the most-visited conservative website. But Fox quickly regained its perch. The network backpedaled rapidly during its post-election ratings slump, firing an editor who’d defended the projection of a Biden win in Arizona and replacing news programming with opinion content. According to Media Matters, Fox News pushed the idea of a stolen election nearly 800 times in the two weeks after declaring Biden the winner. The network’s ad revenue increased 31 percent during the final quarter of 2020, while its parent company, Fox Corporation, saw a 17 percent jump in pretax profit. The far-right media ecosystem has become so powerful in part because there’s been no downside to lying. Instead, the Trump administration demonstrated that there was a market opportunity in serving up misinformation that purports to back up what people want to believe. “In this day and age, people want something that tends to affirm their views and opinions,” Newsmax CEO Chris Ruddy told The New York Times’ Ben Smith in an interview published shortly after the election. Claims of a rigged election were “great for news,” he said in another interview. Trump’s departure from the White House won’t necessarily reduce the demand for this kind of content. Since the Capitol riot, two voting-systems companies have launched an unusual effort to hold right-wing outlets and influencers accountable for some of the lies they’ve spread. Dominion Voting Systems, a major provider of voting technology, and another company called Smartmatic were the subjects of myriad outlandish claims related to election fraud, many of which were used in lawsuits filed by Trump’s campaign and were repeatedly broadcast on Fox, Newsmax TV, and OAN. Since January the companies have filed several defamation suits against Trump campaign lawyers Sidney Powell and Rudy Giuliani, MyPillow CEO Mike Lindell, and Fox News and three of its hosts. Dominion alleges that as a result of false accusations, its “founder and employees have been harassed and have received death threats, and Dominion has suffered unprecedented and irreparable harm.” The threat of legal action forced a number of media companies to issue corrections for stories about supposed election meddling that mentioned Dominion. The conservative website American Thinker published a statement admitting its stories about Dominion were “completely false and have no basis in fact” and “rel[ied] on discredited sources who have peddled debunked theories.” OAN simply deleted all of the stories about Dominion from its website without comment. These lawsuits will not dismantle the world of right-wing media, but they have prompted a more robust debate about how media and social media companies could be held liable for lies that turn lethal—and whether this type of legal action should be pursued, given the protections afforded by the First Amendment and the fact that the powerful often use libel law to bully journalists. Alternative reality: Trump supporters in Maricopa County derided Fox for reporting on election night that Biden had won the state. (Hannah McKay / Pool / Getty Images) Ethan Zuckerman has been thinking about how to build a better Internet for years, a preoccupation not unrelated to the fact that, in the 1990s, he wrote the code that created pop-up ads. (“I’m sorry. Our intentions were good,” he wrote in 2014.) Still, he believes that framing misinformation as a problem of media and technology is myopic. “It’s very hard to conclude that this is purely an informational problem,” Zuckerman says. “It’s a power problem.” The GOP is increasingly tolerant of, and even reliant on, weaponized misinformation. “We’re in a place where the Republican Party realizes that as much as 70 percent of their voters don’t believe that Biden was legitimately elected, and they are now deeply reluctant to contradict what their voters believe,” Zuckerman says. Republicans are reluctant, at least in part, because of a legitimate fear of primary challenges from the right, but also because they learned from Trump the power of using conspiracy theories to mobilize alienated voters by preying on their deep mistrust of public institutions. It’s one thing for an ordinary citizen to retweet a false claim; it’s another for elected officials to legitimize conspiracy theories. But holding the GOP to account may prove to be even harder than reforming Big Tech. The radical grass roots have been empowered by small-dollar fundraising and gerrymandering, while more moderate Republicans are retiring or leaving the party. Writer Erick Trickey argued recently in The Washington Post that what undercut a similar wave of conservative crackpot paranoia driven by the John Birch Society in the 1960s was explicit denunciation by prominent conservatives like William Buckley and Ronald Reagan as well as Republican congressional leaders. But today’s party leaders have been unwilling to excommunicate conspiracy-mongers. In the aftermath of the Capitol riot, elected officials who spread rumors that the violence was actually the result of antifascists—including Arizona’s Paul Gosar and Andy Biggs—gained notoriety, while those critical of Trump were publicly humiliated. The embrace of conspiratorial narratives has been particularly pronounced in state GOP organizations. The Texas GOP recently incorporated the QAnon slogan “We are the storm” into official publicity media, and the Oregon GOP’s executive committee endorsed the theory that the riot had been a “false flag” operation. In March, members of the Oregon GOP voted to replace its Trump-supporting chairman with a candidate even farther out on the extremist fringe. Weaponized misinformation could have a lasting impact not only on the shape of the GOP but also on public policy. Republicans are now using the big lie to try to restrict voting rights in Arizona, Georgia, and dozens of other states. As of February 19, according to the Brennan Center for Justice, lawmakers in 43 states had introduced more than 250 bills restricting access to voting, “over seven times the number of restrictive bills as compared to roughly this time last year.” In late March, Georgia Governor Brian Kemp signed a 95-page bill making it harder to vote in that state in a number of ways. Many of the far-right extremists, politicians, and media influencers who spread misinformation about the presidential election are now pushing falsehoods about Covid-19 vaccines. The rumors, which have spread on social media apps like Telegram that are frequented by QAnon adherents and militia groups, among others, range from standard anti-vax talking points to absurd claims that the vaccines are part of a secret plan hatched by Bill Gates to implant trackable microchips, or that they cause infertility or alter human DNA. Sidestepping the craziest conspiracies, prominent conservatives like Tucker Carlson and Wisconsin Senator Ron Johnson, who has become one of the GOP’s leading purveyors of misinformation, are casting doubt about vaccine safety under the pretense of “just asking questions.” Vaccine misinformation plays into the longstanding conservative effort to sow mistrust in government, and it appears to be having an effect: A third of Republicans now say they don’t want to get vaccinated. These are the true costs of misinformation: deadly riots, policy changes that could disenfranchise legitimate voters, scores of preventable deaths. These translate into financial externalities: the additional expense of securing the Capitol, additional dollars devoted to the pandemic response. More abstract but no less real are the social costs: the parents lost down QAnon rabbit holes, the erosion of factual foundations that permit productive argument. The problem with the far right’s universe of “alternative facts” is not that it’s hermetically sealed from the universe the rest of us live in. Rather, it’s that these universes cannot truly be separated. If we’ve learned anything in the past six months, it’s that epistemological distance doesn’t prevent collisions in the real world that can be lethal to individuals—and potentially ruinous for democratic systems.

#### Extinction. Outweighs and encompasses all other threats.

Roston 21, citing Bak-Coleman, PhD, postdoctoral fellow at the University of Washington Center for an Informed Public (Eric, “As Climate Change Fries the World, Social Media Is Frying Our Brains,” *Bloomberg News*, <https://www.bloomberg.com/news/articles/2021-06-29/as-climate-change-fries-the-world-social-media-is-frying-our-brains>)

Amid emergency heat, flooding, and famine, it’s even more critical that people recognize and agree at least on the big picture. And yet, as recent history has shown us time and again, they don’t. Much of that can be blamed on the pandemic of misinformation—concerning climate change, Covid-19, vaccines, and so much more— now running rampant on social media. It reminds Joseph Bak-Coleman of fish. Bak-Coleman is the lead author of a provocative new article in Proceedings of the National Academy of Sciences about scientists’ inability thus far to adequately inform policymakers about how digital technology is impeding efforts to solve climate change and other collective-behavior problems. Individual fish swimming in a school intuit each other so rapidly and clearly that they can instantaneously and in unison pivot away from whatever dangers they encounter. Insofar as that is true, they have a limited error margin for passing along bad information. “It costs energy when you get scared for no reason, and it also costs life if you don’t get scared when you should,” said Bak-Coleman, a University of Washington postdoctoral scholar with expertise in neuroscience and evolutionary biology. “Animal groups are highly tuned to do these really fantastic feats of behavior. But it’s all quite fragile.” The development of digital communications has eroded or vaporized community protections developed over millennia to ensure at least a minimally healthy flow of information, which leads to healthy decision-making. That loss, Bak-Coleman and his co-authors write, “combined with rapid distribution of falsehood, may present one of the larger threats to human well-being.” Think of it like this. If you wanted to make the most obvious statement in the world, you could do worse than: “Technology now allows people to communicate instantaneously and across great distances.” Yet if you wanted to elicit the most tortured answer in the world, you might ask something incredibly similar: “What happens when people can communicate instantaneously and across great distances?” The tension between the obvious statement and the unanswerable question—which holds within it just about all of the world’s large-scale problems, including climate change—is so great, Bak-Coleman and his colleagues propose a whole new academic discipline just to try to understand it. As physiology has medicine and climate science has emissions-mitigation and adaptation–planning, they argue, the digital-misinformation pandemic requires an applied science—or as they call it, a “crisis discipline.” The need for such a discipline is also urgent, they argue, because “given that algorithms and companies are already altering our global patterns of behavior for financial reasons, there is no safe hands-off approach.” Despite the many joys and productive uses of digital communication, it routinely conveys so many falsehoods, so quickly, that many people are left either unable to see or unwilling to fix existential dilemmas, leaving humanity overall in a precarious condition.

### OFF

#### NOTICE-AND-COMMENT CP:

#### The United States federal government ought to initiate notice-and-comment rulemaking to increase prohibitions on anticompetitive mergers, acquisitions, and undemocratic cooperative governance in the agricultural sector pursuant to Administrative Procedure Act protocol.

#### The plan’s unannounced, unconditional mandate locks out public input and violates due process---turns solvency.

Chopra & Khan 20, \*Rohit, MBA, Commissioner, Federal Trade Commission; & \*\*Lina M., JD, current chair of the Federal Trade Commission, Counsel of the Subcommittee on Antitrust, Commercial, and Administrative Law, US House Committee on the Judiciary. (2020, "The Case for “Unfair Methods of Competition” Rulemaking," *University of Chicago Law Review*, Vol. 87 Iss. 2, Article 4, pg. 359-367, Accessible at: <https://chicagounbound.uchicago.edu/uclrev/vol87/iss2/4>)

I. THE STATUS QUO: AMBIGUOUS, BURDENSOME, AND UNDEMOCRATIC?

Antitrust law today is developed exclusively through adjudication. In theory, this case-by-case approach facilitates nuanced and fact-specific analysis of liability and well-tailored remedies. But in practice, the reliance on case-by-case adjudication yields a system of enforcement that generates ambiguity, unduly drains resources from enforcers, and deprives individuals and firms of any real opportunity to democratically participate in the process.

One reason that antitrust adjudication suffers from these shortcomings is that courts analyze most forms of conduct under the “rule of reason” standard. The “rule of reason” involves a broad and open-ended inquiry into the overall competitive effects of particular conduct and asks judges to weigh the circumstances to decide whether the practice at issue violates the antitrust laws. Balancing short-term losses against future predicted gains calls for “speculative, possibly labyrinthine, and unnecessary” analysis and appears to exceed the abilities of even the most capable institutional actors.1 Generalist judges struggle to identify anticompetitive behavior2 and to apply complex economic criteria in consistent ways.3 Indeed, judges themselves have criticized antitrust standards for being highly difficult to administer.4 And if a standard isn’t administrable, it won’t yield predictable results. The dearth of clear standards and rules in antitrust means that market actors face uncertainty and cannot internalize legal norms into their business decisions.5 Moreover, ambiguity deprives market participants and the public of notice about what the law is, thereby undermining due process—a fundamental principle in our legal system.6

**[BEGIN FOOTNOTE 6]**

6. See FCC v Fox Television Stations, Inc, 567 US 239, 253 (2012). A lack of fair notice raises constitutional due process concerns. As the Supreme Court has explained, fair notice concerns arise when a law or regulation “fails to provide a person of ordinary intelligence fair notice of what is prohibited, or is so standardless that it authorizes or encourages seriously discriminatory enforcement.” Id (citations omitted)

**[END FOOTNOTE 6]**

Decades ago, former Commissioner Philip Elman observed that case-by-case adjudication “may simply be too slow and cumbersome to produce specific and clear standards adequate to the needs of businessmen, the private bar, and the government agencies.”7 Relying solely on case-by-case adjudication means that businesses and the public must attempt to extract legal rules from a patchwork of individual court opinions. Because antitrust plaintiffs bring cases in dozens of different courts with hundreds of different generalist judges and juries, simply understanding what the law is can involve piecing together disparate rulings founded on unique sets of facts. All too often, the resulting picture is unclear. This ambiguity is compounded when the Supreme Court assigns to lower courts the task of fleshing out how to structure and apply a standard, potentially delaying clarity and certainty for years or even decades.8

The current approach to antitrust also makes enforcement highly costly and protracted. In 2012, the American Bar Association (ABA) published the report of a task force that sought to “study ways to control the costs of antitrust litigation and enforcement.”9 The task force, the authors explained, was “a response to concerns” about both “the costs imposed on businesses by the American system of antitrust enforcement” and “the length of time required to resolve antitrust issues both in litigation and in enforcement proceedings.”10 Out-of-control costs undermine effective antitrust enforcement by agencies and private litigants, but may advantage actors who profit from anticompetitive practices and can treat litigation as a routine cost of business. Professor Michael Baye and Former Commissioner Joshua Wright have noted that generalist judges may be ill-equipped to independently analyze and assess evidence presented by economic experts.11 Because determining the legality of most conduct now involves complex economic analysis, courts have effectively “delegate[d] both factfinding and rulemaking to courtroom economists,” making courtroom economics “not just inevitable but often dispositive.”12 In fact, paid expert testimony now is often “the ‘whole game’ in an antitrust dispute.”13

Paid experts are a major expense. Some experts charge over $1,300 an hour, earning more than senior partners at major law firms.14 Over the last decade, expenditures on expert costs by public enforcers have ballooned.15 In a system that incentivizes firms to spend top dollar on economists who can use ever-increasing complexity to spin a favorable tale, the eye-popping costs for economic experts can put the government and new market entrants at a significant disadvantage.16

Another component of the burden is that antitrust trials are extremely slow and prolonged.17 The Supreme Court has criticized antitrust cases for involving “interminable litigation”18 and the “inevitably costly and protracted discovery phase,”19 yielding an antitrust system that is “hopelessly beyond effective judicial supervision.”20 That it can easily take a decade to bring an antitrust case to full judgment means that by the time a judge orders a remedy, market circumstances are likely to have outpaced it.21 The same 2012 ABA report suggested that lengthy, costly litigation may be contributing to reduced government-enforcement efforts over time relative to the expansion of the US economy.22

Lastly, the current approach deprives both the public and market participants of any real opportunity to participate in the creation of substantive antitrust rules.23 The exclusive reliance on case-by-case adjudication leaves broad swaths of market participants watching from the sidelines, lacking an opportunity to contribute their perspective, their analysis, or their expertise, except through one-off amicus briefs.24 Nascent firms and startups are especially likely to be left out—despite the vital role they play in the competition ecosystem—given that they do not comprise a significant portion of the parties represented in litigated matters, and they usually lack the resources to engage in amicus activity. Furthermore future entrants, whose interests should be carefully considered in all aspects of competition law and policy, have no voice.

Firms, entrepreneurs, workers, and consumers across our economy vary wildly in their experiences and perspectives on market conduct. Enforcement and regulation of business conduct can more successfully promote competition when it incorporates more voices and evidence from across the marketplace.

#### Fidelity to notice-and-comment [N&C] solves.

Chopra & Khan 20, \*Rohit, MBA, Commissioner, Federal Trade Commission; & \*\*Lina M., JD, current chair of the Federal Trade Commission, Counsel of the Subcommittee on Antitrust, Commercial, and Administrative Law, US House Committee on the Judiciary. (2020, "The Case for “Unfair Methods of Competition” Rulemaking," *University of Chicago Law Review*, Vol. 87 Iss. 2, Article 4, pg. 367-370, Accessible at: <https://chicagounbound.uchicago.edu/uclrev/vol87/iss2/4>)

We see three major benefits to the FTC engaging in rulemaking under “unfair methods of competition,” even if the conduct could be condemned under other aspects of antitrust laws. As we describe above, the current approach generates ambiguity, is unduly burdensome, and suffers from a democratic participation deficit. Rulemaking can benefit the marketplace and the public on all of these fronts.

First, rulemaking would enable the Commission to issue clear rules to give market participants sufficient notice about what the law is, helping ensure that enforcement is predictable.43 The APA requires agencies engaging in rulemaking to provide the public with adequate notice of a proposed rule. The notice must include the substance of the rule, the legal authority under which the agency has proposed the rule, and the date the rule will come into effect.44 An agency must publish the final rule in the Federal Register at least thirty days before the rule becomes effective.45

These procedural requirements promote clear rules and provide clear notice. As the Supreme Court has stated, a “fundamental principle in our legal system is that laws which regulate persons or entities must give fair notice of conduct that is forbidden or required.”46 Clear rules also help deliver consistent enforcement and predictable results. Reducing ambiguity about what the law is will enable market participants to channel their resources and behavior more productively and will allow market entrants and entrepreneurs to compete on more of a level playing field.

Second, establishing rules could help relieve antitrust enforcement of steep costs and prolonged trials. Identifying ex ante what types of conduct constitute “unfair method[s] of competition” would obviate the need to establish the same exclusively through ex post, case-by-case adjudication. Targeting conduct through rulemaking, rather than adjudication, would likely lessen the burden of expert fees or protracted litigation, potentially saving significant resources on a present-value basis.47

Moreover, establishing a rule through APA rulemaking can be faster than litigating multiple cases on a similar subject matter. For taxpayers and market participants, the present value of net benefits through the promulgation of a clear rule that reduces the need for litigation is higher than pursuing multiple, protracted matters through litigation. At the same time, rulemaking is not so fast that it surprises market participants. Establishing a rule through participatory rulemaking can often be far more efficient. This is particularly important in the context of declining government enforcement relative to economic activity, as documented by the ABA.48

And third, rulemaking would enable the Commission to establish rules through a transparent and participatory process, ensuring that everyone who may be affected by a new rule has the opportunity to weigh in on it, granting the rule greater legitimacy.4

9 APA procedures require that an agency provide the public with meaningful opportunity to comment on the rule’s content through the submission of written “data, views, or arguments.”50 The agency must then consider and address all submitted comments before issuing the final rule. If an agency adopts a rule without observing these procedures, a court may strike down the rule.51

This process is far more participatory than adjudication. Unlike judges, who are confined to the trial record when developing precedent-setting rules and standards, the Commission can put forth rules after considering a comprehensive set of information and analysis.52 Notably, this would also allow the FTC to draw on its own informational advantage—namely, its ability to collect and aggregate information and to study market trends and industry practices over the long term and outside the context of litigation.53 Drawing on this expertise to develop rules will help antitrust enforcement and policymaking better reflect empirical realities and better keep pace with evolving business practices.

Given that the FTC has largely neglected this tool, some may question the Commission’s authority to issue competition rules and the legal status these rules would have.54 Indeed, a common misconception is that this authority is extremely limited because FTC rulemaking is subject to the extensive hurdles posed by the Magnuson-Moss Warranty–Federal Trade Commission Improvements Act55 (“Magnuson-Moss”). In reality, Magnuson-Moss governs only rulemakings interpreting “unfair or deceptive acts or practices.”56 For rules interpreting “unfair methods of competition,” the FTC has authority to engage in participatory rulemaking pursuant to the APA. Several antitrust scholars have affirmed this authority, and the Appendix lays out further background on and discussion of it.57

#### Democracy solves extinction.

Twining 21, PhD, president of the International Republican Institute, former director of the Asia Program at the German Marshall Fund. (Daniel, 10-10-2021, "America must double down on democracy", *The Hill*, <https://thehill.com/opinion/campaign/575693-america-must-double-down-on-democracy>) \*language edited

The hard truth is that a world that is less free is one that is less secure, stable and prosperous. The greatest dangers to the American way of life emanate from hostile autocracies. There are no quick fixes, but the best antidotes to the challenges of great-power conflict, terrorism and mass migration of desperate refugees lie in the building of inclusive democratic institutions — and working with allied democracies to sustain the free and open order that China, in particular, wishes to replace with a world that’s safe for autocracy. The conventional wisdom that authoritarianism has popular momentum is wrong. No one anywhere is taking to the street to demand more corrupt governance, the adoption of one-man rule, a stronger surveillance state, or greater intervention by malign foreign powers. Democratic freedoms are unquestionably under assault in many nations. Autocrats are aggressive precisely because of the growing demands for change in their more modern, connected societies — and the rising risk that middle classes in nations such as China and Russia will not be willing forever to forfeit political rights for prosperity. American retrenchment and isolationism compound the danger. It would be nice to live in a world where failed states and dictatorships were a problem for someone else to worry about. But rather than producing stability, Western retreat only emboldens autocrats in ways that amplify dangers to American national security. We know that violent extremism flourishes under state failure and dictatorship. Broken states become breeding grounds for extremist groups because they leave vacuums that terrorists are only too happy to fill. In nations without democratic accountability, citizens become drawn to the only forms of expression available to them, which are often violent and extreme. The good news is that we have billions of allies around the world: citizens on every continent chafing for greater freedom and dignity. They do not want U.S. military-led nation-building. They want peaceful support for their independent efforts to create democratic space in systems distorted by overweening government control, dangerous governance gaps and foreign malign influence. The free world cannot be neutral in the face of autocracy’s resurgence. Rather, it should play to its strengths. The appeal of democratic opportunity is a strategic asset for the United States — despite our own shortcomings — because people around the world similarly aspire to live in societies that guarantee justice, rights and dignity. America’s closest allies are democracies. Democracies don’t fight each other, export violent extremism, or produce the conflicts that drive mass migration. Democracies are better partners in fighting terrorism, human trafficking and poverty, as well as establishing reliable trading relationships. Open societies incubate the technologies that will help solve the world’s most pressing problems, including climate change. Citizens can hold leaders accountable when they fall short, and democratic institutions are stronger than any [individual] ~~man~~ — as America itself witnessed after the assault on the U.S. Capitol on Jan

### Advantage 1

#### Their Tam ev is their main solvency ev—that’s written by undergrads, we’ll insert this



#### Crop diversity is increasing internationally

Colin Khoury 18, Research Scientist at the International Center for Tropical Agriculture (CIAT), Colombia and at the USDA National Laboratory for Genetic Resources Preservation, “Evaluating Claims GMOs and Modern Agriculture have Led to a 75% Drop in Crop Diversity”, Genetic Literacy Project, 12/14/2018, https://geneticliteracyproject.org/2018/12/14/myth-busting-modern-agriculture-really-led-75-drop-crop-diversity/

One of the central concepts that unifies those concerned with biodiversity is the belief that diversity is being lost, piece by piece, to a greater or lesser degree, globally.

The same goes for the biodiversity of what we eat. Scientists and activists have worried about the loss of crops and their many traditional varieties for at least a hundred years, since botanist N. I. Vavilov traveled the world in search of plants useful for cultivation in his Russian homeland. He noticed that diversity was disappearing in the cradles of agriculture – places where crops had been cultivated continuously for thousands of years. The alarm sounded even louder 50 years ago, during the Green Revolution, when farmers in some of the most diverse regions of the world largely replaced their many locally adapted wheat, rice, and other grain varieties with fewer, more uniform, higher yielding professionally bred varieties.

Economic development, human migration, urbanization, and globalization have further affected the diversity of food crops cultivated and consumed around the world. Most modern farmers seem to want uniform, mechanized production. Most eaters seem to want unblemished vegetables of known shapes and sizes, and inexpensive processed food products. In most of the decisions producers, food distributors, and consumers make, crop diversity inadvertently gets the short end of the stick.

This is ironic, since modern productive crop varieties are bred by wisely mixing and matching diverse genetic resources. The disappearance of old varieties thus reduces the options available to plant breeders, including those working to produce more nutritious and resilient crops. Genebank collections, such as the beans, cassava, and other staples conserved at CIAT, which were originally built to provide access for plant breeders to genetic resources, have therefore taken on increasingly important conservation roles.

In many regions of the world, the loss of crop diversity also has profound cultural and spiritual significance, with seeds no longer handed down through generations and no longer connecting people as closely to the places they call home. What people cultivate and what they eat are important to how they identify themselves, both as cultures and as individuals. “We are what we eat.”

Taking stock

Being a food biodiversity scientist, I grew up (in the professional sense) with the loss of crop diversity looming over my head, providing both a raison d’être and an urgency to my efforts. Somewhere along the line, I became interested in understanding its magnitude. That is, counting how many crops and how many varieties have been lost.

And that’s where it started to become complicated, and also more interesting. Because, when I went looking for signs of the loss of specific crops, I couldn’t find any. Instead, I found evidence of massive global changes in our food diversity that left me worried, but at the same time hopeful.

A bit of background. Most of the numbers seen in the news on how much crop diversity has been lost go back to a handful of reports and books that reference a few studies: for example, the changing number of vegetable varieties for sale in the U.S. over time. The results are estimations for a few crops at local to national levels, but they somehow have been inflated to generalized statements about the global state of crop diversity, the most common of which is some variation of “75% of the diversity in crops has been lost.”

Putting true numbers on diversity loss turns out to be a complicated and contested business, with no shortage of strong opinions. One big part of the problem is that there aren’t many good ways to count the diversity that existed before it disappeared. Researchers have done some work to assess the changes in diversity in crop varieties of Green Revolution cereals, and to some degree on the genetic diversity within those varieties. The results indicate that, although diversity on farms decreased when farmers first replaced traditional varieties with modern types, the more recent trends are not so simple to decipher.

Reviewing what had been researched, it was particularly surprising to me that very little work had been done to understand the changes in what is probably the simplest level to measure: the diversity of crop species in the human diet, that is, how successful is maize versus rice versus potato versus quinoa and so on. I realized that data on the contribution of crops to national food supplies were available for almost all countries worldwide via FAOSTAT, with information for every year since 1961. Perhaps these were the data that could show when a particular grain, or legume, or vegetable, fell off the world map, and just how diverse our global food supply is now compared to half a century ago.

Fast forward through a couple of years of investigation. To my surprise, I found that not a single crop was lost over the past 50 years! There was no evidence for extinction. What was going on? Was I missing something or was the loss of food biodiversity narrative wrong?

It turns out that my failure to see any loss of crops was due in large part to the lack of sufficient resolution in the FAO food supply data. Only 52 meaningful crop species-specific commodities are measured and a number of these are general groupings such as “cereals, other.” Because of this lack of specificity, the data couldn’t comprehensively assess the crops that have been most vulnerable to changes in the global food system over the past 50 years.

Related article: Viewpoint: 'Heritage' of emotional decision-making fuels EU's opposition to biotech crops

In FAO data, these plants are either thrown into the general categories or they aren’t measured at all, especially if they are produced only on a small scale, for local markets or in home gardens. This is, in itself, sign enough that they may be imperiled. We need better statistics about what people eat (and grow) around the world. But, enough is known to be confident that many locally relevant crops are in decline.

But that’s not to say that the data weren’t useful to the question at hand. With some further analysis, they eventually provided what I think is a powerful argument for further concern about the loss of crop diversity globally. Yet, at the same time, they also offer some hope.

Over the past 50 years, almost all countries’ diets actually became more diverse, not less, for the crops that FAO statistics do report. We found that traditional diets that were primarily based on singular staples a half century ago, for instance rice in Southeast Asia, had diversified over time to include other staples such as wheat and potatoes. The same was true for maize-based diets in Latin America, sorghum- and millet-based diets in sub-Saharan Africa, and so on. Diets around the world were balancing out with regard to the contribution of these foods.

Not that there weren’t plant winners and losers. Wheat, rice, and maize, the most dominant crops worldwide 50 years ago, became more important globally. Other crops emerged as widespread staples, particularly oilcrops such as soybean, palm oil, sunflower, and rapeseed oil. And, as the winners came to take more precedence in food supplies around the world, alternative staples such as sorghum, millets, rye, cassava, sweet potato, and yam were marginalized. They haven’t disappeared (at least not yet), but they have become less important to what is eaten every day.

As countries’ food supplies became more diverse in the winner crops reported by FAO, and the relative abundance of these crops within diets became more even, food supplies worldwide became much more similar. If we are what we eat, then it seems that we are quickly becoming very much the same type of human being ‒ modern people eating globalized food crops.

The publication of our findings of increasing homogeneity in global food supplies generated substantial scientific and public interest. This wasn’t, I think, because the main finding was a big shocker. It’s easy to see how pizza is now available in Tokyo, bread available in traditional maize and potato regions of Latin America, and McDonalds, Subway, and Starbucks available, well, almost everywhere. Rather, I think it’s because we were able to examine the food supplies of virtually all the countries of the world, over a relatively long time period, and put some real numbers to the change we saw. On average, for instance, the amount of variation between food supplies in different countries decreased by 68.8% from 1961 to 2009.

This is why, although we could see no absolute loss in crops consumed over the past 50 years, I am concerned. For even in the relatively small list of crops reported in the FAO national food supply data, . That doesn’t seem like a good thing for the long-term resilience of our agricultural areas, nor for human health, although it’s important to remember that such changes are the collateral damage resulting from the creation of highly productive mega-crop farming systems, which have increased the affordability of these foods worldwide, leading to less stunting and other effects of undernutrition worldwide. On the other hand, global dependence on a few select crops equates to expansive monocultures, with more lives riding on the outcome of the game of cat and mouse between pestilence and uniform varieties grown over large areas. Moreover, cheaply available macronutrients sourcing from these crops have contributed to the negative effects of the nutrition transition, including obesity, heart disease, and diabetes.

So why then am I hopeful? Because the data, and some literature, and my own direct experience also indicate that diets in recent years, in some countries, are beginning to move in different directions, reducing the excessive use of animal products and other energy-dense and environmentally expensive foods, and becoming more diverse, particularly with regard to fruits and vegetables, and even healthy grains. This seems good, both for human health and for the sustainability of agricultural production. Change is still occurring, and the future does not appear to be fixed. What better evidence than quinoa, which was relatively unknown outside the Andes a couple of decades ago, and is now cultivated in 100 countries and consumed in even more?

#### The food impact —

#### 1---Cribb concedes that Russia and Canada fill-in and resolve any shortfall from US ag — we read blue

Julian 1AC Cribb 19, Adjunct Professor, University of Technology, Sydney. Principal, Julian Cribb & Associates. Author, Journalist, Editor & Science Communicator, "Hotspots for Food Conflict in the Twenty-first Century," in Food or War, Chapter 5, 2019, pg. 141-173.

The mounting threat to world peace posed by a food, climate and ecosystem increasingly compromised and unstable was emphasised by the US Director of National Intelligence, Dan Coats, in a briefing to the US Senate in early 2019. ‘Global environmental and ecological degradation, as well as climate change, are likely to fuel competition for resources, economic distress, and social discontent through 2019 and beyond’, he said. ‘Climate hazards such as extreme weather, higher temperatures, droughts, floods, wildfires, storms, sea level rise, soil degradation, and acidifying oceans are intensifying, threatening infrastructure, health, and water and food security. Irreversible damage to ecosystems and habitats will undermine the economic benefits they provide, worsened by air, soil, water, and marine pollution.’ Boldly, Coats delivered his warning at a time when the US President, Trump, was attempting to expunge all reference to climate from government documents.23 Based upon these recent cases of food conflicts, and upon the lessons gleaned from the longer history of the interaction between food and war, several regions of the planet face a greatly heightened risk of conflict towards the mid twenty-first century. Food wars often start out small, as mere quarrels over grazing rights, access to wells or as one faction trying to control food supplies and markets. However, if not resolved quickly these disputes can quickly escalate into violence, then into civil conflagrations which, if not quelled, can in turn explode into crises that reverberate around the planet in the form of soaring prices, floods of refugees and the involvement of major powers – which in turn carries the risk of transnational war. The danger is magnified by swollen populations, the effects of climate change, depletion of key resources such as water, topsoil and nutrients, the collapse of ecosystem services that support agriculture and fisheries, universal pollution, a widening gap between rich and poor, and the rise of vast megacities unable to feed themselves (Figure 5.3).

Chart

Description automatically generated

Each of the world’s food ‘powderkeg regions’ is described below, in ascending order of risk. United States In one sense, food wars have already broken out in the United States, the most overfed country on Earth. Here the issue is chiefly the growing depletion of the nation’s mighty groundwater resources, especially in states using it for food production, and the contest over what remains between competing users – farmers, ranchers and Native Americans on the one hand and the oil, gas and mining industry on the other. Concern about the future of US water supplies was aggravated by a series of savage droughts in the early twentyfirst century in the west, south and mid-west linked to global climate change and declining snowpack in the Rocky Mountains, both of which affect not only agriculture but also the rate at which the nation’s groundwater reserves recharge. ‘Groundwater depletion has been a concern in the Southwest and High Plains for many years, but increased demands on our groundwater resources have overstressed aquifers in many areas of the Nation, not just in arid regions’, notes the US Geological Survey.24 Nine US states depend on groundwater for between 50 per cent and 80 per cent of their total freshwater supplies, and five states account for nearly half of the nation’s groundwater use. Major US water resources, such as the High Plains aquifers and the Pacific Northwest aquifers have sunk by 30–50 metres (100–150 feet) since exploitation began, imperilling the agricultural industries that rely on them. In the arid southwest, aquifer declines of 100–150 metres have been recorded (Figure 5.4). [Figure omitted] To take but one case, the famed Ogallala Aquifer in the High Plains region supports cropping industries worth more than US $20 billion a year and was in such a depleted state it would take more than 6000 years to replace by natural infiltration the water drawn from it by farmers in the past 150 years. As it dwindles, some farmers have tried to kick their dependence on groundwater – other users, including the growing cities and towns of the region, proceeded to mine it as if there was no tomorrow.25 A study by Kansas State University concluded that so far, 30 per cent of the local groundwater had been extracted and another 39 per cent would be depleted by the mid century on existing trends in withdrawal and recharge.26 Over half the US population relies on groundwater for drinking; both rural and urban America are at risk. Cities such as New Orleans, Houston and Miami face not only rising sea levels – but also sinking land, due to the extraction of underlying groundwater. In Memphis, Tennessee, the aquifer that supplies the city’s drinking water has dropped by 20 metres. Growing awareness of the risk of a nation, even one as large and technologically adept as the USA, having insufficient water to grow its food, generate its exports and supply its urban homes has fuelled tensions leading to the eruption of nationwide protests over ‘fracking’ for oil and gas – a process that can deplete or poison groundwater – and the building of oil pipelines, which have a habit of rupturing and also polluting water resources. The boom in fracking and piping is part of a deliberate US policy to become more self-reliant in fossil fuels.27 Thus, in its anxiety to be independent of overseas energy suppliers, the USA in effect decided to barter away its future food security for current oil security – and the price of this has been a lot of angry farmers, Native Americans and concerned citizens. The depletion of US groundwater coincides with accelerating climate risk, which may raise US temperatures by as much as 4–5 C by 2100, leading to major losses in soil moisture throughout the US grain belt, and the spread of deserts in the south and west. Food production will also be affected by fiercer storms, bigger floods, more heatwaves, an increase in drought frequency and greater impacts from crop and livestock diseases. In such a context, it is no time to be wasting stored water. The case of the USA is included in the list of world ‘hot spots’ for future food conflict, not because there is danger of a serious shooting war erupting over water in America in the foreseeable future, but to illustrate that even in technologically advanced countries unforeseen social tensions and crises are on the rise over basic resources like food, land and water and their depletion. This doesn’t just happen in Africa or the Middle East. It’s a global phenomenon. Furthermore, the USA is the world’s largest food exporter and any retreat on its part will have a disproportionate effect on world food price and supply. There is still plenty of time to replan America’s food systems and water usage – but, as in the case of fossil fuels and climate, rear-guard action mounted by corporate vested interests and their hired politicians may well [freeze] ~~paralyse~~ the national will to do it. That is when the US food system could find itself at serious risk, losing access to water in a time of growing climatic disruption, caused by exactly the same forces as those depleting the groundwater: the fossil fuels sector and its political stooges. The probable effect of this will, in the first instance, be a decline in US meat and dairy production accompanied by rising prices and a fall in its feedgrain exports, with domino effects on livestock industries worldwide. The flip-side to this issue is that America’s old rival, Russia, is likely to gain in both farmland and water availability as the planet warms through the twentyfirst century – and likewise Canada. Both these countries stand to prosper from a US withdrawal from world food markets, and together they may negate the effects of any US food export shortfalls. Central and South America South America is one of the world’s most bountiful continents in terms of food production – but, after decades of improvement, malnutrition is once more on the rise, reaching a new peak of 42.5 million people affected in 2016.28 ‘Latin America and the Caribbean used to be a worldwide example in the fight against hunger. We are now following the worrisome global trend’, said regional FAO representative Julio Berdegué.29 Paradoxically, obesity is increasing among Latin American adults, while malnutrition is rising among children. ‘Although Latin America and the Caribbean produce enough food to meet the needs of their population, this does not ensure healthy and nutritious diets’, the FAO explains. Worsening income inequality, poor access to food and persistent poverty are contributing to the rise in hunger and bad diets, it adds.30 ‘The impact of climate change in Latin America and the Caribbean will be considerable because of its economic dependence on agriculture, the low adaptive capacity of its population and the geographical location of some of its countries’, an FAO report warned.31 Emerging food insecurity in Central and Latin America is being driven by a toxic mixture of failing water supplies, drying farmlands, poverty, maladministration, incompetence and corruption. These issues are exacerbated by climate change, which is making the water supply issue worse for farmers and city people alike in several countries and delivering more weather disasters to agriculture. Mexico has for centuries faced periodic food scarcity, with a tenth of its people today suffering under-nutrition. In 2008 this rose to 18 per cent, leading to outbreaks of political violence.32 In 2013, 52 million Mexicans were suffering poverty and seven million more faced extreme hunger, despite the attempts of successive governments to remedy the situation. By 2100 northern Mexico is expected to warm by 4–5 C and southern Mexico by 1.5–2.5 C. Large parts of the country, including Mexico City, face critical water scarcity. Mexico’s cropped area could fall by 40–70 per cent by the 2030s and disappear completely by the end of the century, making it one of the world’s countries most at risk from catastrophic climate change and a major potential source of climate refugees.33 The vanishing lakes and glaciers of the high Andes confront montane nations – Bolivia, Peru and Chile especially – with the spectre of growing water scarcity and declining food security. The volume of many glaciers, which provide meltwater to the region’s rivers, which in turn irrigate farmland, has halved since 1975.34 Bolivia’s second largest water body, the 2000 square kilometres Lake Poopo, dried out completely.35 The loss of water is attributed partly to El Niño droughts, partly to global warming and partly to over-extraction by the mining industries of the region. Chile, with 24,000 glaciers (80 per cent of all those in Latin America) is feeling the effects of their retreat and shrinkage especially, both in large cities such as the capital Santiago, and in irrigation agriculture and energy supply. Chile is rated by the World Resources Institute among the countries most likely to experience extreme water stress by 2040.36 Climate change is producing growing water and food insecurity in the ‘dry corridor’ of Central America, in countries such as El Salvador, Guatemala and Honduras. Here a combination of drought, major floods and soil erosion is undermining efforts to raise food production and stabilise nutrition. Food production in Venezuela began falling in the 1990s, and by the late 2010s two thirds of the population were malnourished; there was a growing flood of refugees into Colombia and other neighbouring countries. The food crisis has been variously blamed on the Venezuelan government’s ‘Great Leap Forward’ (modelled on that of China – which also caused widespread starvation), a halving in Venezuela’s oil export earnings, economic sanctions by the USA, and corruption. However, local scientists such as Nobel Laureate Professor Juan Carlos Sánchez warn that climate impacts are already striking the densely populated coastal regions with increased torrential rains, flooding and mudslides, droughts and hurricanes, while inland areas are drying out and desertifying, leading to crop failures, water scarcity and a tide of climate refugees.37 These factors will tend to deepen food insecurity towards the mid century. Venezuela’s climate refugees are already making life more difficult for neighbouring countries such as Colombia. Deforestation in the Brazilian Amazon has, in recent decades, removed around 20 per cent of its total tree cover, replacing it with dry savannah and farmland. At 40 per cent clearance and with continued global warming, scientists anticipate profound changes in the local climate, towards a drying trend, which will hammer the agriculture that has replaced the forest.38 Brazil has already wiped out the oncevast Mata Atlantica forest along its eastern coastline, and this region is now drying, with resultant water stress for both farming and major cities like São Paulo. Brazil’s outlook for 2100 is for further drying – tied to forest loss as well as global climate change – increased frequency of drought and heatwaves, major fires and acute water scarcity in some regions. Moreover, as the Amazon basin dries out, it will release vast quantities of CO2 from its peat swamps and rainforest soils. These are thought to contain in excess of three billion tonnes of carbon and could cause a significant acceleration in global warming, affecting everyone on Earth.39 Latin America is the world capital of private armies, with as many as 50 major guerrilla groups, paramilitaries, terrorist, indigenous and criminal insurgencies over the past half century – exemplified in familiar names like the Sandanistas (Nicaragua), FARC (Colombia) and Shining Path (Peru).40 Many of these drew their initial inspiration from the international communist movement of the mid twentieth century, while others are right-wing groups set up in opposition to them or else represent land rights movements of disadvantaged groups. However, all these movements rely for oxygen on simmering public discontent with ineffectual or corrupt governments and lack of fair access to food, land and water generally. In other words, the tendency of South and Central America towards internal armed conflict is supercharged significantly by failings in the food system which generate public anger, leading to sympathy and support for anyone seen to be challenging the incumbent regimes. This is not to suggest that feeding every person well would end all insurgencies – but it would certainly take the wind of popular support out of a lot of their sails. In that sense the revolutionary tendency of South America echoes the preconditions for revolution in France and Russia in the eighteenth and twentieth centuries. Central Asia The risk of wars breaking out over water, energy and food insecurity in Central Asia is high.41 Here, the five main players – Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan and Kyrgyzstan – face swelling populations, crumbling Soviet-era infrastructure, flagging resource cooperation, a degrading landscape, deteriorating food availability and a changing climate. At the heart of the issue and the region’s increasingly volatile politics is water: ‘Without water in the region’s two great rivers – the Syr Darya and the Amu Darya – vital crops in the downstream agricultural powerhouses would die. Without power, life in the upstream countries would be unbearable in the freezing winters’, wrote Rustam Qobil.42 Central Asia’s water crisis first exploded onto the global consciousness with the drying of the Aral Sea – the world’s fourth largest lake – from the mid 1960s43, following the damming and draining of major rivers such as the Amu Darya, Syr Darya and Naryn. It was hastened by a major drought in 200844 exacerbated by climate change, which is melting the ‘water tower’ of glacial ice stored in the Tien Shan, Pamir and Hindu Kush mountain ranges that feed the region’s rivers. The Tien Shan alone holds 10,000 glaciers, all of them in retreat, losing an estimated 223 million cubic metres a year. At such a rate of loss the region’s rivers will run dry within a generation.45 Lack of water has already delivered a body blow to Central Asia’s efforts to modernise its agriculture, adding further tension to regional disputes over food, land and water. ‘Water has always been a major cause of wars and border conflicts in the Central Asian region’, policy analyst Fuad Shahbazov warned. This potential for conflict over water has been exacerbated by disputes over the Fergana valley, the region’s greatest foodbowl, which underwent a 32 per cent surge in population in barely ten years – while more and more of it turned to desert.46 The Central Asian region is ranked by the World Resources Institute as one of the world’s most perilously water-stressed regions to 2040 (Figure 5.6). With their economies hitting rock bottom, corrupt and autocratic governments that prefer to blame others for their problems and growing quarrels over food, land, energy and water, the ‘Stans’ face ‘a perfect storm’, Nate Shenkkan wrote in the journal Foreign Policy. 47 Increased meddling by Russia and China is augmenting the explosive mix: China regards Central Asia as a key component of its ‘Belt and Road’ initiative intended to expand its global influence, whereas Russia hopes to lure the region back into its own economic sphere. Their rival investments may help limit some of the problems faced by Central Asia – or they may unlock a fresh cycle of political feuding, turmoil and regime change.48 A 2017 FAO report found 14.3 million people – one in every five – in Central Asia did not have enough to eat and a million faced actual starvation, children especially. It noted that after years of steady improvement, the situation was deteriorating. This combination of intractable and deteriorating factors makes Central Asia a serious internal war risk towards the mid twentyfirst century, with involvement by superpowers raising the danger of international conflict and mass refugee flight. The Middle East The Middle East is the most water-stressed region on Earth (see Figure 5.5 above). It is ‘particularly vulnerable to climate change. It is one of the world’s most water-scarce and dry regions, with a high dependency on climate-sensitive agriculture and a large share of its population and economic activity in flood-prone urban coastal zones’, according to the World Bank.49 The Middle East – consisting of the 22 countries of the Arab League, Turkey and Iran – has very low levels of natural rainfall to begin with. Most of it has 600 millimetres or less per year and is classed as arid. ‘The Middle East and North Africa [MENA] is a global hotspot of unsustainable water use, especially of groundwater. In some countries, more than half of current water withdrawals exceed what is naturally available’, the Bank said in a separate report on water scarcity.50 [Figure omitted] ‘The climate is predicted to become even hotter and drier in most of the MENA region. Higher temperatures and reduced precipitation will increase the occurrence of droughts. It is further estimated that an additional 80–100 million people will be exposed by 2025 to water stress’, the Bank added. The region’s population of 300 million in the late 2010s is forecast to double to 600 million by 2050. Average temperatures are expected to rise by 3–5 C and rainfall will decrease by around 20 per cent. The result will be vastly increased water stress, accelerated desertification, growing food insecurity and a rise in sea levels displacing tens of millions from densely populated, low-lying areas like the Nile delta.51 The region is deemed highly vulnerable to climate impacts, warns a report by the UN Development Programme. ‘Current climate change projections show that by the year 2025, the water supply in the Arab region will be only 15 per cent of levels in 1960. With population growth around 3 per cent annually and deforestation spiking to 4 per cent annually... the region now includes 14 of the world’s 20 most water-stressed countries.’ 52 The Middle East/North Africa (MENA) region has 6 per cent of the world’s population with only 1.5 per cent of the world’s fresh water reserves to share among them. This means that the average citizen already has about a third less water than the minimum necessary for a reasonable existence – many have less than half, and populations are growing rapidly. Coupled with political chaos and ill governance in many countries, growing religious and ethnic tensions between different groups – often based on centuries-old disputes – a widening gap between rich and poor and foreign meddling by the USA, Russia and China, shortages of food, land and water make the Middle East an evident cauldron for conflict in the twentyfirst century. Growing awareness of their food risk has impelled some oil-rich Arab states into an international farm buying spree, purchasing farming, fishing and food processing companies in countries as assorted as South Sudan, Ethiopia, the Philippines, Ukraine, the USA, Poland, Argentina, Australia, Brazil and Morocco. In some food-stressed countries these acquisitions have already led to riots and killings.53 The risk is high that, by exporting its own food–land–water problems worldwide, especially to regions already facing scarcity, the Middle East could propagate conflicts and government collapses around the globe. This is despite the fact that high-tech solar desalination, green energy, hydroponics, aquaponics and other intensive urban food production technologies make it possible for the region to produce far more of its own food locally, if not to be entirely self-sufficient. Dimensions of the growing crisis in the Middle East include the following. Wars have already broken out in Syria and Yemen in which scarcity of food, land and water were prominent among the tensions that led to conflict between competing groups. Food, land and water issues feed into and exacerbate already volatile sentiment over religion, politics, corruption, mismanagement and foreign interference by the USA, China and Russia. The introduction of cheap solar-powered and diesel pumps has accelerated the unsustainable extraction of groundwater throughout the region, notably in countries like Libya, Egypt, Saudi Arabia and Morocco.54 Turkish building of new dams to monopolise waters flowing across its borders is igniting scarcity and potential for conflict with downstream nations, including Iraq, Iran and Syria.55 Egypt’s lifeline, the Nile, is threatened by Ethiopian plans to dam the Blue Nile, with tensions that some observers consider could lead to a shooting war.56 There are very low levels of water recycling throughout the region, while water use productivity is about half that of the world as a whole. There is a lack of a sense of citizen responsibility for water and food scarcity throughout the region. Land grabs around the world by oil-rich states are threatening to destabilise food, land and water in other countries and regions, causing conflict. A decline in oil prices and the displacement of oil by the global renewables revolution may leave the region with fewer economic options for solving its problems. There is a risk that acquisition of a nuclear weapon by Iran may set off a nuclear arms race in the region with countries such as Saudi Arabia, Syria and possibly Turkey following suit and Israel rearming to stay in the lead. This would translate potential food, land and water conflicts into the atomic realm. Together these issues, and failure to address their root causes, make the Middle East a fizzing powder keg in the twentyfirst century. The question is when and where, not whether, it explodes – and whether the resulting conflict will involve the use of weapons of mass destruction, including nuclear, thus affecting the entire world. China China is the world’s biggest producer, importer and consumer of food. Much of the landmass of the People’s Republic of China (PRC) is too mountainous or too arid for farming, but the rich soils of its eastern and southern regions are highly productive provided sufficient water is available and climate impacts are mild. Those, however, are very big ‘ifs’. In 1995, American environmentalist Lester R. Brown both irked and aroused the PRC Communist Party bosses with a small, hard-hitting book entitled Who Will Feed China? Wake-Up Call for a Small Planet. 57 In it he posited that Chinese population growth was so far out of control that the then-agricultural system could not keep up, and China would be forced to import vast amounts of grain, to the detriment of food prices and availability worldwide. His fears, so far, have not been realised – not because they were unsoundly based, but because China managed – just – to stay abreast of rising food demand by stabilising and subsidising grain prices, restoring degraded lands, boosting agricultural science and technology, piping water from south to north, developing high-intensity urban farms, buying up foreign farmland worldwide and encouraging young Chinese to leave the country. What Brown didn’t anticipate was the economic miracle that made China rich enough to afford all this. However, his essential thesis remains valid: China’s food supply will remain on a knife-edge for the entire twentyfirst century, vulnerable especially to water scarcity and climate impacts. If the nation outruns its domestic resources yet still has to eat, it may well be at the expense of others globally. Some western commentators were puzzled when China scrapped its 35-year ‘One Child Policy’ in 2015, but in fact the policy had done its job, shaving around 300 million people off the projected peak of Chinese population. It was also causing serious imbalances, such as China’s huge unmarried male surplus. Furthermore, rising urbanisation and household incomes meant Chinese parents no longer wanted large families, as in the past. Policy or no policy, China’s birthrate has continued to fall and by 2018 was 1.6 babies per woman – well below replacement, lower than the USA and nearly as low as Germany. Its population was 1.4 billion, but this was growing at barely 0.4 per cent a year, with the growth due at least in part to lengthening life expectancy.58 For China, female fertility is no longer the key issue. The critical issue is water. And the critical region is the north, where 41 per cent of the population reside. Here surface and groundwaters – which support not only the vast grain and vegetable farming industries of the North China Plain but also burgeoning megacities like Beijing, Tianjin and Shenyang – have been vanishing at an alarming rate. ‘In the past 25 years, 28,000 rivers have disappeared. Groundwater has fallen by up to 1–3 metres a year. One consequence: parts of Beijing are subsiding by 11 cm a year. The flow of the Yellow River, water supply to millions, is a tenth of what it was in the 1940s; it often fails to reach the sea. Pollution further curtails supply: in 2017 8.8 per cent of water was unfit even for agricultural or industrial use’, the Financial Times reported.59 On the North China Plain, annual consumption of water for all uses, including food production, is about 27 billion cubic metres a year – compared with an annual water availability of 22 billion cubic metres, a deficit that is made up by the short-term expedient of mining the region’s groundwater.60 To stave off disaster, the PRC has built a prodigious network of canals and pipelines from the Yangtse River in the water-rich south, to Beijing in the water-starved north. Hailed as a ‘lifeline’, the South–North Water Transfer Project had two drawbacks: first, the fossil energy required to pump millions of tonnes of water over a thousand kilometres and, second, the fact that while the volume was sufficient to satisfy the burgeoning cities for a time, it could not supply and distribute enough clean water to meet the needs of irrigated farming over so vast a region in the long run, nor meet those of its planned industrial growth.61 Oft-mouthed ‘solutions’ like desalination or the piping of water from Tibet or Russia face similar drawbacks: demand is too great for the potential supply and the costs, both financial and environmental, prohibitive. China is already among the world’s most water-stressed nations. The typical Chinese citizen has a ‘water footprint’ of 1071 cubic metres a year – three quarters of the world average (1385 cubic metres), and scarcely a third that of the average American (2842 cubic metres).62 Of this water, 62 per cent is used to grow food to feed the Chinese population – and 90 per cent is so polluted it is unfit to drink or use in food processing. Despite massive investment in water infrastructure and new technology, many experts doubt that China can keep pace with the growth in its demand for food, at least within its own borders, chiefly because of water scarcity.63 Adding to the pressure is that China’s national five-year plans for industrialisation demand massive amounts more water – demands that may confront China with a stark choice between food and economic growth. ‘The Chinese government is moving too slowly towards the Camel Economy. It has plans, incentives for officials; it invests in recycling, irrigation, pollution, drought resistant crops; it leads the world in high voltage transmission (to get hydro, wind and solar energy from the west of China). None of this is sufficient or likely to be in time’, the Financial Times opined.64 As the world’s leading carbon emitter, China is more responsible for climate change than any other country. It is also, potentially, more at risk. The main reason, quite simply, is the impact of a warming world on China’s water supply – in the form of disappearing rivers, lakes, groundwater and mountain glaciers along with rising sea levels. To this is coupled the threat to agriculture from increasing weather disasters and the loss of ecosystem services from a damaged landscape.65 China is thus impaled on the horns of a classic dilemma. Without more water it cannot grow its economy sufficiently to pay for the water-conserving and food-producing technologies and infrastructure it needs to feed its people. Having inadvertently unleashed a population explosion with its highly successful conversion to modern farming systems, the challenge for China now is to somehow sustain its food supply through the population peak of the mid twentyfirst century, followed by a managed decline to maybe half of today’s numbers by the early twentysecond century. It is far from clear whether the present approach – improving market efficiency, continuing to modernise agricultural production systems, pumping water, trying to control soil and water losses and importing more food from overseas – will work.66 China has pinned its main hopes on technology to boost farm yields and improve water distribution and management. Unfortunately, it has selected the unsustainable American industrial farming model to do this – which involves the massive use of water, toxic chemicals, fertilisers, fossil fuels and machines. This in turn is having dreadful consequences for China’s soils, waters, landscapes, food supply, air, climate and consumer health. Serious questions are now being asked whether such an approach is not digging the hole China is in, even deeper. Furthermore, some western analysts are sceptical whether the heavy hand of state control is up to the task of generating the levels of innovation required to feed China sustainably.67 Plan B, which is to purchase food from other countries, or import it from Chinese-owned farming and food ventures around the world, faces similar difficulties. Many of the countries where China is investing in food production themselves face a slow-burning crisis of land degradation, water scarcity, surging populations and swelling local food demand. By exporting its own problems, China is adding to their difficulties. While there may be some truth to the claim that China is helping to modernise food systems in Africa, for example, it is equally clear that the export of food at a time of local shortages could have dire consequences for Africans, leading to wars in Africa and elsewhere. How countries will react to Chinese pressure to export food in the face of their own domestic shortages is, as yet, unclear. If they permit exports, it could prove catastrophic for their own people and governments – but if they cut them off, it could be equally catastrophic for China. Such a situation cannot be regarded as anything other than a menace to world peace. Around 1640, a series of intense droughts caused widespread crop failures in China, leading to unrest and uprisings which, in 1644, brought down the Ming Dynasty. A serious domestic Chinese food and water crisis today – driven by drought, degradation of land and water and climate change in northern China coupled with failure in food imports – could cause a re-run of history: ‘The forthcoming water crisis may impact China’s social, economic, and political stability to a great extent’, a US Intelligence Assessment found. ‘The adverse impacts of climate change will add extra pressure to existing social and resource stresses.’ 68 Such events have the potential to precipitate tens, even hundreds, of millions of emigrants and refugees into countries all over the world, with domino consequences for those countries that receive them. Strategic analysts have speculated that tens of millions of desperate Chinese flooding into eastern Russia, or even India, could lead to war, including the risk of international nuclear exchange.69 Against such a scenario are the plain facts that China is a technologically advanced society, with the foresight, wealth and capacity to plan and implement nationwide changes and the will, if necessary, to enforce them. Its leaders are clearly alert to the food and water challenge – and its resolution may well depend on the extent of water recycling they are able to achieve. As to whether the PRC can afford the cost of transitioning from an unsustainable to a sustainable food system, all countries have a choice between unproductive military spending and feeding their populace. A choice between food or war. It remains to be seen which investment China favours. However, it is vital to understand that the problem of whether China can feed itself through the twentyfirst century is not purely a Chinese problem. It’s a problem, both economic and physical, for the entire planet – and it is thus in everyone’s best interest to help solve it. For this reason, China is rated number 3 on this list of potential food/war hotspots. Africa Food wars – that is, wars in which food, land and water play a significant contributing role – have been a constant in the story of Africa since the mid twentieth century, indeed, far longer. In a sense, the continent is already a microcosm of the world of the twentyfirst century as climate change and resource scarcity combine with rapid population growth to ratchet up the tensions that lead competing groups to fight, whether the superficial distinctions between them are ethnic, religious, social or political. We have examined the particular cases of Rwanda, South Sudan and the Horn of Africa – but there are numerous other African conflicts, insurgencies and ongoing disturbances in which food, land and water are primary or secondary triggers and where famine is often the outcome: Nigeria, Congo, Egypt, Tunisia, Libya, Mali, Chad, the Central African Republic, the Maghreb region of the Sahara, Mozambique, Cote d’Ivoire and Zimbabwe have all experienced conflicts in which issues of access to food, land and water were important drivers and consequences. The trajectory of Africa’s population in the first two decades of the twentyfirst century implies that the number of its people could quadruple from 1.2 billion in 2017 to 4.5 billion by 2100 (Figure 5.6). If fulfilled, this would make Africans 41 per cent of the world population by the end of the century. The UN Population Division’s nearer projections are for Africans to outnumber Chinese or Indians at 1.7 billion by 2030, and reach 2.5 billion in 2050, which represents a doubling in the continent’s inhabitants in barely 30 years.70 While African fertility rates (babies per woman) remain high by world standards – 4.5 compared with a global average of 2.4 – they have also fallen steeply, from a peak of 8.5 babies in the 1970s. Furthermore, the picture is uneven with birthrates in most Sub-Saharan countries remaining high (around five to six babies/woman), while those of eight, mainly southern, countries have dropped to replacement or below (i.e. under 2.1). As has been the case around the world, birth rates tend to drop rapidly with the spread of urbanisation, education and economic growth – whereas countries which slide back into poverty tend to experience rising birthrates. Food access is a vital ingredient in this dynamic: it has been widely observed that better-fed countries tend to have much lower rates of birth and population growth, possibly because people who are food secure lose fewer infants and children in early life and thus are more open to family planning. So, in a real sense, food sufficiency holds one of the keys to limiting the human population to a level sustainable both for Africa and the planet in general. [Figure omitted] Forecasting the future of Africa is not easy, given the complexity of the interwoven climatic, social, technological and political issues – and many do not attempt it. However, the relentless optimism of the UN and its food agency, the FAO, is probably not justified by the facts as they are known to science – and may have more to do with not wishing to give offence to African governments or discourage donors than with attempting to accurately analyse what may occur. Even the FAO acknowledges however that food insecurity is rising across Sub-Saharan Africa as well as other parts. In 2017, conflict and insecurity were the major drivers of acute food insecurity in 18 countries and territories where almost 74 million food-insecure people were in need of urgent assistance. Eleven of these countries were in Africa and accounted for 37 million acutely food insecure people; the largest numbers were in northern Nigeria, Democratic Republic of Congo, Somalia and South Sudan the agency said in its Global Report on Food Crises 2018.71 The FAO also noted that almost one in four Africans was undernourished in 2016 – a total of nearly a quarter of a billion people. The rise in undernourishment and food insecurity was linked to the effects of climate change, natural disasters and conflict according to Bukar Tijani, the FAO’s assistant director general for Africa.72 Even the comparatively prosperous nation of South Africa sits on a conflict knife-edge, according to a scientific study: ‘Results indicate that the country exceeds its environmental boundaries for biodiversity loss, marine harvesting, freshwater use, and climate change, and that social deprivation was most severe in the areas of safety, income, and employment, which are significant factors in conflict risk’, Megan Cole and colleagues found.73 In the Congo, home to the world’s second largest tropical forest, 20 years of civil war had not only slain five million civilians but also decimated the forests and their ecological services on which the nation depended. Researchers found evidence that reducing conflict can also help to reduce environmental destruction: ‘Peace-building can potentially be a win for nature as well, and... conservation organizations and governments should be ready to seize conservation opportunities’. 74 As the African population doubles toward the mid century, as its water, soils, forests and economic wealth per capita dwindle, as foreign corporations plunder its riches, as a turbulent climate hammers its herders and farmers – both industrial and traditional – the prospect of Africa resolving existing conflicts and avoiding new ones is receding. The mistake most of the world is making is to imagine this only affects the Africans. The consequences will impact everyone on the planet. A World Bank study has warned that 140 million people will have to leave just three regions of the world as climate refugees before 2050 – and the vast majority of these, some 86 million, would be displaced from their homes in Sub-Saharan Africa.75 The second decade of the twentyfirst century has already witnessed a blow-out in the number of Sub-Saharan Africans fleeing north, across the desert into the already dangerously overstressed region of North Africa. From there many have headed by boat for Europe, with shocking loss of life on the way – up to 5000 deaths due to drowning in a single year. The number of Africans fleeing across the Mediterranean has fluctuated, climbing as high as a third of a million people (in 2016) with most of them headed for Italy, followed by Greece, Cyprus and Spain. By this time Europe already had a population of five million Sub-Saharans.76 It is worth recalling, for a moment, that a food failure in the North African grainbowl in the third and fourth centuries was a primary factor in the collapse and demolition of the Roman Empire, from Britain to Asia Minor. The risk of a tsunami of people attempting to escape Africa for Europe, and to a lesser degree the Middle East, in coming decades is building with ominous intensity. The stress in SubSaharan Africa is already forcing conditions in North African countries closer to crisis point. Were their food systems to fail in domino-succession, the scale of potential movement of desperate people into Europe can only be guessed – but is certainly in the range of tens to hundreds of millions. Large enough, in other words, to swamp the nations of Italy, Spain and Greece and eliminate their governments altogether, forcing many of their own people in turn to flee into northern Europe. Given the crisis caused by a million Syrians fleeing into Europe in 2013, the consequences for European stability and the world economy of an African eruption tens or hundreds of times the size can only be imagined. The good news is that, in the view of the World Bank, up to 80 per cent of Africa’s climate refugees could be prevented from leaving their homes in the first place by timely climate and development (i.e. food, land and water) action taken by the rest of the world. The bad news, however, is that most of the world’s large oil and coal companies and their climate-denying puppet governments remain implacably opposed to the sort and scale of action necessary, preferring to pull the global house down on their own heads. Canadian ecologist Paul Chefurka argued in a far-sighted paper that the outlook for Africa by 2040 was grim, even if the continent were able to lock in a 1 per cent year-on-year increase in farm yields. Even then Africa might still be forced to spend half its wealth – an almost impossible proportion – on food imports by 2050, assuming sufficient affordable food was available globally to supply them. Chefurka argued the solutions were: First, the developed world must get its act together when it comes to foreign aid. Our lack of performance with regard to the Millennium Development Goals is beyond contemptible. A minuscule sliver of the GDP of the richest nations could help prevent a catastrophic outcome for hundreds of millions of people and scores of countries. That we have failed our African brothers and sisters so egregiously is a shame that should follow all of us into the afterlife. Second, and most importantly, we must develop an immediate crash program of education and contraception in all the regions at risk from this gathering storm. Africa may be the first, but the conditions are ripe for much of South Asia to follow in their footsteps. We must blanket Africa with schools and family planning clinics.77 There is substance to both points. Unfortunately expanding conventional farming with a view to feeding all the Africans in 2050 and 2100 is unlikely to succeed. It is a twentieth-century solution to a twentyfirst-century problem, even with more advanced farming technologies added. It would unleash cataclysmic soil and water loss, gross pollution, the spread of deserts and animal, plant and human diseases, accelerate climate change (through land clearing and the use of fossil fuels and fertilisers) and extinguish the last of Africa’s wildlife. The combined outcome of this would be war, potentially on a continent-wide scale – and it is for this reason Africa ranks second on this list of world food and war hotspots. Where the true solutions to Africa’s and the world’s food challenges may lie is dealt with in the concluding chapters of this book. South Asia The constellation of burgeoning food demand, water scarcity, degrading land, a turbulent climate, social, political and religious feuding and rampant militarisation make the region of South Asia – India, Pakistan, Bangladesh and Sri Lanka – the most dangerous of all for civilisation during the twentyfirst century. The population of the region has more than tripled since the 1960s. India alone is looking at a population of 1.73 billion by 2050, Pakistan at 306 million, Bangladesh 202 million and Sri Lanka at 23 million – a combined total approaching 2.3 billion.78 The Indo-Gangetic Plain is the bread-basket of the three largest countries and currently feeds more than 900 million from both surface and groundwater. ‘India is facing a perfect storm in managing water. Centuries of mismanagement, political and institutional incompetence, indifference at central, state and municipal levels, a steadily increasing population that will reach an estimated 1.7 billion by 2050, a rapidly mushrooming middle class demanding an increasingly protein-rich diet that requires significantly more water to produce – together, these are leading the country towards disaster', says Professor Asit Biswas of the National University of Singapore.79 ‘India is now facing a water situation that is significantly worse than any that previous generations have had to face. All Indian water bodies within and near population centres are now grossly polluted... Not a single Indian city can provide clean water that can be consumed from the tap on a 24x7 basis’, he adds. This was underlined by a warning from the Indian Supreme Court in 2018 that the capital, New Delhi – population 25 million – was on track to run out of groundwater completely.80 Facing similar water scarcity were 20 other Indian cities, including Bangalore and Hyderabad – heartbeat of the Indian high-tech boom – menacing the lives and jobs of 600 million Indians.81 Free electricity and cheap diesel pumps led to an explosion in the extraction of groundwater across the Indo-Gangetic plain. ‘The best estimate is that at present India uses 230–250 cubic kilometres of groundwater each year. This accounts for about one-quarter of the global groundwater use. More than 60% of irrigated agriculture and 85% of domestic water use now depends on groundwater.’ Over large areas, India’s groundwater levels have been falling precipitously, in places at rates of a metre or more a year, since the start of the twentyfirst century and scientists fear its reserves will be largely exhausted by 2050.82 The World Resources Institute, which keeps a hawk-like gaze on global water issues, notes that more than half of India is already water stressed, affecting more than 600 million people – and the situation will become extremely grave towards 2040 (Figure 5.7).83 Climate change is only making matters worse for South Asia – the rising intensity of droughts, floods and heatwaves threatens to undermine the region’s fragile ability to feed itself. Indeed, according to some projections, parts will be so hot as to become uninhabitable and unfarmable.84 Recent climate modelling identified India as the world’s second most vulnerable country for climate-related hunger, and Bangladesh third, with the situation worsening towards 2 C of global warming.85 The Indian Ministry of Finance concurs, warning that climate could shrink agricultural incomes by as much as 25 per cent in unirrigated farmland and 18 per cent in irrigated areas by 2100.86 [Figure omitted] South Asia’s main water reserve, the glacial ice of the Hindu Kush and Himalaya which supports two billion people, is in dire straits, according to a study by 210 scientists. A third of it will be gone by 2100, in a ‘climate crisis you haven’t heard of’, said lead author Philippus Wester. Its loss due to global warming holds catastrophic consequences for rivers, groundwater, food production and the cities that rely on it.87 ‘Climate change is likely to have a detrimental effect on South Asia out to 2030 and beyond, mainly because of its ability to exacerbate one of South Asia’s biggest challenges: an expanding population and the challenge of feeding, housing, clothing, watering and employing it’, wrote analyst Benjamin Walsh.88 Melting glaciers, increased evaporation and swelling cities are all intensifying existing food and water insecurity and, since climate change cannot be prevented in the short run, governments had better prepare for it, he said. In this sense, Walsh and Biswas tender similar advice: whether or not South Asia can ride out the ‘perfect storm’ will depend on the competence and determination of hitherto somewhat inept governments in taking the essential steps to conserve water and find new ways to produce food. The subcontinent’s existing food and water model is broken and cannot survive the mid century. On the positive side is the enthusiasm with which South Asia has embraced renewable energy and the IT revolution, expressed in the region’s strong economic growth. These demonstrate that vast and rapid national and regional changes are possible. Water, land and food, however, present far more intractable problems – social, political and technical – on which age-old disputes over religion, ethnicity and caste lie like a pall. Since India and Pakistan partitioned in 1947, there has been ongoing low-level conflict over the waters of the Indus and the territory of Kashmir. Pakistan considers India is stealing its water and trying to assert hegemony through dam-building, while India claims Pakistan is losing water due to climate change: the scarcer water becomes for either country, the more the tensions escalate. Both sides are heavily armed: India has 2.1 million soldiers under arms, and Pakistan 644,000. Both nations have 120+ nuclear warheads. Between them, they spend US$65 billion a year on their militaries.89 How close they have been to open war is highlighted by legal expert Dr Waseem Quereshi: ‘The tension over water conflicts between India and Pakistan has been soaring. India has threatened that it will scrap the IWT [Indus Waters Treaty] entirely. In response, Pakistan has stated that such a revocation of a bilaterally agreed treaty would be considered an act of war’. 90 Large-scale food, land and water failures anywhere on the Indian subcontinent could spark immense refugee movements in the tens or hundreds of millions, capable of obliterating neighbour countries and igniting wars. They are liable to be on a scale that dwarfs the Syrian refugee problem into insignificance, with worldwide repercussions. For example, some 130 million people on the subcontinent inhabit low-lying coastal regions that will be under the sea by 210091, and that is but a single dimension of the climate–water crisis. The World Bank rates the Indian subcontinent the world’s second most vulnerable region for enforced climate migration, with 40 million climate refugees alone in India by 2050.92 These estimates take no account of the scale of migration that could result from major failures in food or water, or people fleeing resulting conflicts. The scenario of major collapse in the South Asian food and water system is so appalling that no government or agency, as yet, seems prepared even to contemplate its possibility, or to risk the displeasure of South Asian governments and peoples by speaking openly about it. As a result, the world at large is doing little to forestall or prevent it. However, for whatever the vox populi is worth, when the website Debate.org asked readers to vote on the question “Will India Collapse?”, 76 per cent of respondents (mostly Indians) were of the view that it would.93 The Oslo Peace Research Institute, in a rather more structured attempt to predict the likelihood of future conflicts based on past behaviour, rated Pakistan, India, Afghanistan and Sri Lanka among the countries more likely to face wars up to 2050.94 The great issue for humanity is South Asia’s combined arsenal of 250+ nuclear weapons. Though many of these are thought to be ‘battlefield’ or tactical nukes (as opposed to city busters), there are enough of them to cause a worldwide famine affecting everybody and lasting several years. This insight arises out of the increasing sophistication of global climate models, which can now describe the impact of nuclear release on the global climate system with far greater precision than ever before. Meteorologist Alan Robock from Rutgers University and physicist Brian Toon from the University of Colorado have devoted 30 years to projecting the effects of nuclear war. They estimate that a limited nuclear exchange between India and Pakistan would throw up at least five million tonnes of dust and smoke from burning forests and incinerated cities, lofting it into the high atmosphere where it will linger for up to 20 years. In climatic terms, this would be the equivalent of an asteroid impact on Earth or a large volcanic eruption, they said – enough to unleash a worldwide ‘nuclear winter’. 95 ‘We put it into a NASA climate model and found it would be the largest climate change in recorded human history’, Brian Toon told a journalist. ‘The basic physics is very simple. If you block out the Sun, it gets cold and dark at the Earth’s surface’. 96 He continued: ‘We hypothesized that if each country used half of their nuclear arsenal, that would be 50 weapons on each side. We assumed the simplest bomb, which is the size dropped on Hiroshima and Nagasaki – a 15 kiloton bomb. The answer is the global average temperature would go down by about 1.5 degrees Celsius. In the middle of continents, temperature drops would be larger and last for a decade or more’. The effects of this snap cooling on agriculture worldwide were then calculated. The answer was equally chilling: harvests would crash by 20–40 per cent for five years, and for the next five years, linger 10–20 per cent below the pre-war norm. This would result in malnourishment, if not outright starvation, for most of the world’s population (Figure 5.8).

Diagram, engineering drawing

Description automatically generated

Such an event would be more severe than the Little Ice Age of the eighteenth century – which was, it may be recalled, a likely contributing factor in the hunger that led to the French Revolution – or the cool period that brought down the Roman Empire in the fourth century. In today’s overcrowded world it would unleash global hunger, reducing the average daily caloric intake from 2900 to 1900–2000 calories or fewer, which is borderline malnutrition. For people already hungry, such an outcome would be fatal. Yet that is not the worst of it. A report by International Physicians for the Prevention of Nuclear War (IPPNW) concluded that China, lying immediately downwind of India/Pakistan, would be worst affected by the nuclear winter effects of even a limited atomic war in South Asia. Chinese winter wheat production would fall by up to half, and the rice crop by 21 per cent. Two billion people in India and China would starve within months, government in both countries would probably disintegrate and, in an echo of their own and Roman histories, the remnants of society would doubtless be riven among local warlords. Most of the nations of Southeast, West, North and Central Asia on their borders would be swept away before the tide of people fleeing the catastrophe.97 How such events would play out for the rest of the world are not easy to predict – but, in all likelihood, the panic occasioned by rising global hunger, soaring global food prices and the loss of two of its largest traders would crash the world economy, toppling more governments and igniting further civil and international conflict, some of it potentially nuclear. Thus, even a relatively limited nuclear exchange, such as between India and Pakistan, could bring civilisation as we know it to an end. From this brief assessment it can be seen that the Indian subcontinent, more than any region on Earth, holds the key to the future of world food security and hence, the fate of civilisation in this century. For this reason, the South Asian region is rated as the Number One Risk on this list, in terms of food, land and water insecurity and conflict risk, above all others. The Human Tide Since lack of food, or fear of it, is a primary motive for people to leave their homes, the number of refugees and displaced people worldwide offers stark testimony to the increasing pressures facing human civilisation and its food supply, as we bang up against the finite limits of the planet we inhabit. The actual number of refugees and internally displaced people more than doubled in the first two decades of the twentyfirst century, from 32 million in the late 1990s to 68.5 million in 2018.98 Furthermore, the proportion of the world population in flight rose nearly tenfold, from 0.1 per cent to almost 1 per cent, meaning – as the World Economic Forum pointed out – that around one person in every hundred has fled their home.99 In 2018, the UN High Commissioner for Refugees noted these were ‘the highest levels of displacement on record’, that nearly half of all refugees were children under 18 and that, on average, 20 people were being displaced every minute. On top of this the UN reported 258 million ‘economic migrants’ in 2017,100 mostly from Asia and mainly educated people who had foreseen potential trouble in their homelands, including China and India, and had the resources to move themselves and their families out of harm’s way and to other more secure parts of the globe. Together, then, almost a third of a billion human beings now roam the planet every year in search of new homes and opportunities, freedom from war or hunger. Such a vast number of people already on the road – equivalent to the entire population of the USA – gives some inkling of the colossal people movements which could eventuate from large scale conflicts over food, land and water as the century advances. It is time to face the fact that movements of a billion humans or more are now entirely possible over a comparatively short time – even though many may die in the process. In case anyone should consider such vast movements to be impossible, the World Bank notes that the number of global tourists alone already exceeds 1.25 billion a year – which simply goes to illustrate the capacity of modern transport systems.101 Most of those tourists travel by air, road, rail or passenger vessel – however, it should be noted the world also has 52,000 merchant ships, 312,000 general aviation aircraft, 4.6 million fishing boats and tens of millions of larger recreational craft102 capable of being commandeered by fleeing people, should their needs be fierce enough. As mentioned before, the Bank anticipated that at least 140 million ‘climate refugees’ may be forced to quit just three highly vulnerable regions by the mid twentyfirst century: SubSaharan Africa, South Asia and Latin America.103 In the Bank’s analysis, the main drivers for these immigrants, it should be noted, are factors such as water scarcity, crop failure, sea-level rise and storm surges – not the wars these impacts may also ignite. They would make the exodus much larger. Furthermore, the Bank’s analysis does not include other at-risk regions such as China, Central Asia and the Middle East/North Africa. The FAO, in its report on the state of world food security,104 commented as follows. ‘The number of conflicts is... on the rise. Exacerbated by climate-related shocks, conflicts seriously affect food security and are a cause of much of the recent increase in food insecurity.’ ‘Conflict is a key driver of situations of severe food crisis and recently re-emerged famines, while hunger and undernutrition are significantly worse where conflicts are prolonged and institutional capacities weak.’ It is important to understand that such disasters are preventable, with sufficient forward recognition of the driving factors, early implementation of suitable preventative strategies and with the co-operation of the global community. At present this cooperation is fragmentary, and few countries feel responsible for preventing the kinds of events described in this chapter, especially those taking place in distant, overseas countries. Yet it is increasingly in their own interests to do so, in view of unavoidable consequences for themselves, both physical and economic. In the twentyfirst century the risk of mass migration and conflict driven by insecurity of food, land and water is higher than in any previous age of human history. The World Economic Forum (WEF) rated enforced mass migration as the sixth most likely of its top 30 global risks in 2018 and the second worst in terms of its societal impact. It identified ‘profound social instability’ as the risk factor most highly connected to the prevailing range of global trends.105 Furthermore, the ominous and destabilising rise of right-wing populism and renascent fascism in western countries, especially, is in part a direct response to rising fears of mass immigration.106 Eight out of the WEF’s top ten risks of 2018 related to global food security. Furthermore, the World Food Programme (WFP), in its report At the Root of Exodus: Food Security, Conflict and International Migration, drew a direct line between food, war and mass migration: ‘The WFP study found that countries with the highest level of food insecurity, coupled with armed conflict, have the highest outward migration of refugees. Additionally, when coupled with poverty, food insecurity increases the likelihood and intensity of armed conflicts; something that has clear implications for refugee outflows’, it said.107 Food, land and water must therefore now be viewed as strategic components of defence and international security as elemental as naval fleets, air power, armies or weapons. There is no logic to arming ourselves against the possibility of global conflict if, by ignoring its causes, we inadvertently set in motion the very machinery that drives it. Neglecting the strategic importance of food, land and water will deliver increased risk of war and mass migration – while the opposite is also true: attending to them can yield a vital peace dividend by extinguishing or damping down an important casus belli. This issue is developed in Chapter 7.

#### 2---there is no internal link — US exports don’t go to countries that need the food

Holobar 16 — Krista Holobar, Agroecology and Food Policy Writer at *Civil Eats*—a food policy publication, 2016 (“Does Big Ag Really Feed the World? New Data Says Not So Much,” *Civil Eats*, October 5th, Available Online at <https://civileats.com/2016/10/05/does-big-ag-really-feed-the-world/>, Accessed 10-12-2018)

Ever since the U.N. announced that the world population is projected to exceed 9 billion by 2050 and global food production will have to more than double by that time, U.S. agricultural and agribusiness interests have been making the case that America’s farmers will have to double their production of grain and meat to “feed the world.” Those who make this argument maintain that industrial farming—which relies heavily on biotechnology and pesticides—is the only way U.S. farmers can double production, while organic and other agroecological methods will only put countless people at risk of hunger and malnutrition. But new data compiled by Environmental Working Group (EWG) makes it clear that we’re not really feeding the parts of the world that need it. In reality, most agricultural exports from the U.S. go to countries whose citizens can afford to pay for them. Our top five export destinations are Canada, China, Mexico, the European Union, and Japan—all countries with “high” or “very high” UN development scores and “very low” or “moderately low” Food and Agriculture Organization hunger scores. In 2015, less than one percent of America’s agricultural exports went to the 19 countries with the highest level of undernourishment, while exports to the top 20 destinations were 158 times greater. And over the last decade, the value of U.S. agricultural exports to the countries with very high or high undernourishment averaged only 0.7 [point seven] percent of the value of total agricultural exports.

#### 3---Food insecurity leads to protests that decrease the risk of interstate war

Barrett ’13 (Christopher B. Barrett – Deputy Dean and Dean of Academic Affairs of the College of Business, Stephen B. and Janice G. Ashley Professor of Applied Economics and Management, and an International Professor of Agriculture, all at the Charles H. Dyson School of Applied Economics and Management, as well as a Professor in the Department of Economics and a Fellow of the David R. Atkinson Center for a Sustainable Future, all at Cornell University, “Food Security and Sociopolitical Stability,” 26 September 2013, Google Books)

The simplest definition of sociopolitical stability is the absence of coordinated human activities that cause widespread disruption of daily life for local populations. Note that this excludes violent personal crimes, such as murder, and natural disasters. But this definition encompasses a continuum of activities that we can array according to the magnitude of their human consequences, from nonviolent riots or large-scale political protests and work stoppages at one end, through violent versions of such organized actions, to guerilla movements and terrorism by state and non-state actors, to outright civil war, and finally to interstate war at the other. Boulding (1978) defined peace as the absence of war and emphasized that peace does not require the resolution of all conflicts within or among nations, merely that such conflict remain nonviolent. As used here and in the rest of this volume, stability is an even more Utopian state than mere peace. For example, many of the food riots of the past several years proved extremely disruptive to the populations affected—and threatening to governments—but did not turn violent, at least in the sense of causing deaths. We consider such events moments of instability, even though peace prevailed.

This sort of hierarchical ordering is instructive, as it underscores two fundamental points made directly or indirectly by multiple contributors to this volume. First, not all instability is bad. When peaceful, structured, political, legal, and economic conflict occurs where the probability of large-scale conflict is negligible, mobilization against state policy is not automatically negative. Indeed, nonviolent social protest movements can be important forces for productive change. Social movements often push states to adopt policies that ultimately enhance both food security and sociopolitical stability by offering some redress for longstanding structural grievances that might otherwise lead to violence, even war.

This leads directly to the second fundamental point: the greatest dangers come not from lower-level instability associated with protests, riots, and work stoppages, but rather from violence at scale, especially in the form of organized civil or interstate war. Preserving peace is far more important, in human, economic, and geostrategic terms, than is maintaining stability. Indeed, a certain level of nonviolent instability can help to secure a stable peace if it compels the state to take actions that preempt the intensification and spread of deeper structural grievances—actions it would not choose without pressure. Riots are dangerous to local populations primarily insofar as they enable an opposition to build larger, more durable coalitions for violent political struggle against a regime. State and private actions can defuse more threatening and dangerous guerilla movements, terrorism, and civil or interstate war. Underappreciation of the central place of preventive and responsive action in mediating the relationship between food security and sociopolitical stability is perhaps the greatest deficiency of recent debates, which tend to treat the sociopolitical risks of food insecurity as driven largely by exogenous forcing variables such as climate or global market prices.

#### Merger restrictions don’t stop agricultural consolidation

James M. MacDonald 1, Economic Research Service, USDA; and Marvin L. Hayenga, Iowa State University, 2001, “Concentration, Mergers, and Antitrust Policy,” https://afpc.tamu.edu/research/publications/263/macdonald.pdf

Agribusiness mergers are one strategy for large firms, and they could respond to a ban with other strategic steps. Those seeking scale economies could grow internally by building bigger facilities instead of merging. Because firms have that alternative, a merger prohibition will not necessarily halt increases in concentration based on scale economies. Second, firms could respond to a prohibition on the purchase of large agribusiness firms by purchasing other large firms in the economy and becoming conglomerates. Such moves might be particularly inefficient (cost-raising).

### Advantage 2

#### There is a singular card that makes this an advantage:

#### a. says Capper-Volstead eroding now—solves their internals

#### b. but explicitly says steps to erode are bad—KU YELLOW

Barnes and Levine 21, Donald, JD from George Washington University; JD from Fordham University, and former Vice-Chair of the ABA Antitrust Section’s Joint Conduct Committee; Jay, co-chair of the Porter Wright Morris & Arthur Antitrust and Consumer Protection Practice Group, “Farmer Cooperatives "Take Cover": The Capper-Volstead Exemption is Under Siege”. Arkansas Law Review, Volume 74, Number 1. April 2021, Accessed 11/10/21, https://scholarworks.uark.edu/cgi/viewcontent.cgi?article=1127&context=alrAH

IV. BARGAINING POWER–THEN AND NOW The question can fairly be asked: Has the Capper-Volstead Act outlived its usefulness? After all, many agricultural cooperatives are big businesses nowadays.165 Indeed, plaintiffs in the cases challenging the application of the Capper-Volstead Act make this argument, both implicitly and explicitly.166 The fact remains that agriculture is different from other industries. Production of agricultural products has a far longer lead time than its manufactured counterparts, due to the need for planting and harvesting, in the case of crops, or birthing and rearing animals, in the case of livestock.167 Additionally, Mother Nature, always a fickle variable, plays a huge role in the success or failure of any year’s yield. And, of course, these products are generally perishable. Given that these products form the very basis of the foodstuffs we consume daily, agriculture has always enjoyed special legislative protection. Nevertheless, it was the imbalance in bargaining power between the buyers of the agricultural products and the individual farmers who produced them that spurred the passage of the Capper-Volstead Act. And, though agricultural producers have grown in size, so have their customers, resulting in the same relative imbalance today. In the early 1920s, when the Capper-Volstead Act was under consideration, there were approximately 6,448,000 farms in the United States.168 These were small farms that often found themselves at the mercy of middlemen and buyers due to a lack of bargaining power and the perishable nature of their products.169 As farm prices became depressed, farmers were abandoning their farms to move to cities. Consumers and legislators were concerned about potential food shortages. The power of the buyers over the individual farmers impelled the passage of the Act.170 The modern era has been marked by the consolidation of buyers and farm units alike. As the Department of Justice was conducting a series of workshops into antitrust issues affecting agriculture, food retail, and processing companies continued along a path of rapid consolidation.171 By 2009, the top food retailers—Wal-Mart, Kroger, Costco, and Supervalu—controlled more than half of all grocery sales in the United States.172 Consolidation has thus given top retailers considerable purchasing power as wholesale buyers of groceries, and many food-processing firms justify their mergers as an effort to create stronger bargaining power with these large retailers.173 The number of farmers has declined by over two-thirds, from nearly 6.5 million in the 1920s, to 2.06 million in 2016.174 At the same time, cooperatives have consolidated into larger units and their customers have become national and international enterprises.175 In 2010, the U.S. Department of Agriculture (“USDA”) and Department of Justice held a series of workshops (“Workshops”) around the country entitled “Exploring Competition Issues in Agriculture.”176 At the June 25, 2010 Workshop in Madison, Wisconsin, Robert Cropp, Professor Emeritus of Agriculture and Applied Science at the University of Wisconsin, presented data indicating that the bargaining power imbalance that the Capper Volstead Act was designed to correct is just as prevalent today, if not more so.177 For example, in 2010, Wal-Mart topped the Fortune 500 list with food revenues of approximately $230 billion.178 By contrast, total revenue of all dairy cooperatives in the country was less than $40 billion, with the largest dairy cooperative having sales of $10 billion.179 In 2010, the largest agricultural cooperative, CHS, Inc., had revenues of $26 billion.180 A number of their customers are on the Fortune 500 list, including Kroger, SuperValu, and Kraft. Each of these entities have revenues that are large multiples of those of the largest cooperatives.181 Furthermore, there has been a great deal of consolidation in the retail grocery industry. Progressive Grocer’s Super 50 list of the largest grocery chains does not include membership clubs such as Sam’s, Costco, and BJ’s.182 Yet, as reported in May 2018, the combined annual sales of the Super 50 grocers still tops $580 billion.183 The top ten, which includes Wal-Mart, Kroger, and Safeway, accounts for more than seventy-seven percent of those sales, or approximately $450 billion.184 Similarly, Associated Wholesale Grocers, a buying group not even included in the Super 50, had revenues of approximately $9.2 billion in 2016.185 In comparison, according to a study by the USDA, combined revenues of all United States agricultural cooperatives topped $212 billion and the one hundred largest agricultural cooperatives in the United States reported combined revenues of $146 billion in 2015—a fraction of the combined revenue of just the top ten retail grocers.186 Just as they were ninety-nine years ago, today’s farmers are still confronted with the disproportionate bargaining power of their huge customers. 187 Consequently, the very conditions that compelled passage of the Capper-Volstead Act back in 1922 prevail today. V. IMPACT ON FOREIGN LAW The United States is not the only country to have adopted an agricultural policy designed to afford certain protection to farmers; under the European Union’s common agricultural policy, certain behavior and practices by agricultural producer organizations, which might otherwise be considered as anticompetitive, are excluded from the scope of the European Union’s competition rules.188 It is not surprising, therefore, that current attempts to undermine and weaken the American farmers’ antitrust exemption could easily have international implications. Numerous foreign countries already use the United States’ antitrust law as a model, and several have adopted antitrust exemptions for agricultural cooperatives similar to the Capper Volstead Act.189 [Begin Footnote 189] 189. For example, Japan’s Anti-Monopoly Law of 1947, following the example of the Capper-Volstead Act, exempts certain agricultural cooperatives from its application. See Hiroshi Ashino, Experimenting with Anti-Trust Law in Japan, 3 JAPANESE ANN. INT’L L. 31, 31 (1959); Hiroshi Iyori, A Comparison of U.S.-Japan Antitrust Law: Looking at the International Harmonization of Competition Law, 4 PAC. RIM. L. & POL’Y J. 59, 66 (1995). Agricultural cooperatives in Europe are similarly exempted from liability under Article 81 of the European Community (“EC”) Treaty—Europe’s analog to the Sherman Act—by Regulation 26, adopted by the EC Council in 1962. Arie Reich, The Agricultural Exemption in Antitrust Law: A Comparative Look at the Political Economy of Market Regulation, 42 TEX. INT’L L.J. 843, 849-50 (2007). The United Kingdom’s Competition Act of 1998 contains an exemption for agricultural cooperatives patterned on the EC’s Regulation 26. Id. at 856. And Israel, which regulates competition under its Restrictive Trade Practices Law of 1988, provides an exemption to agricultural cooperatives under Article 3(4) of that Law. Id. at 857-58. [End Footnote 189] Farmers in developing economies have faced or will eventually face the same challenges as those that confronted American farmers at the time the Capper-Volstead Act was passed.190 They deserve the same protection. Their governments could easily adopt restrictive rulings from United States courts,191 which could keep their farmers from achieving effective collective bargaining power. [Begin Footnote 191] 191. Indeed, foreign courts often find U.S. case law instructive in interpreting their own antitrust laws. See, e.g., Rural Press Ltd. v Australian Competition and Consumer Comm’n, (2003) 216 CLR 53, 88 (Austl.) (holding market-sharing arrangements per se invalid under the Australian Trade Practices Act, citing favorably to United States case-law holding such arrangements to be per se violations of the Sherman Act); R. v. Bugden’s Taxi [End Footnote 191] International efforts have been underway to aid the development of farmer cooperatives and the laws that protect their activities. In a May 2012 report, the European Competition Network (“ECN”) noted concerns about price volatility and competitiveness in food production and distribution.192 Some national competition authorities believe that cooperation among producers and the creation of cooperatives would increase competition in the food sector.193 By 2013 these concerns led to the European Union’s adoption of significant reforms to its Common Agricultural Policy (the “CAP”) that set new rules for allowing joint-selling by producers in the agricultural sector.194 In November 2015, the European Commission adopted guidelines on potential competition issues arising in the implementation of these new rules as they pertain to the olive oil, beef and veal, and arable crops sectors.195 CAP reform removed production restraints to encourage farmers to base their production decisions on market signals.196 The legal framework under CAP reform also “extend[ed] the possibility for collective bargaining (in some [agricultural] sectors) and delivery contracts (for all [agricultural] sectors) to [p]roducer [o]rganisations, their [a]ssociations and Inter Branch Organisations.”197 The U.S. Overseas Cooperative Development Council (funded by USAID) is conducting a major initiative called the “Cooperative Law and Regulation Initiative” (“CLARITY”).198 Part of that initiative involves providing assistance to help national cooperative movements organize themselves, and helping to evaluate and improve their cooperative laws.199 CLARITY points to the Capper-Volstead Act as an exemplar for implementing exemptions from competition law that would otherwise prohibit certain joint action between businesses for cooperatives.200 VI. CONCLUSION The more things change, the more they stay the same. As true now as it was in the 1920s, the number of farms continues to decline. Farmers and their cooperatives are still at the mercy of power buyers, Mother Nature, and the international marketplace. There is still a large imbalance of bargaining power. In short, the same conditions and concerns that existed at the time the Capper Volstead Act was passed continue to this day. As the Supreme Court stated in Maryland and Virginia Milk Producers Association v. United States: We believe it is reasonably clear from the very language of the Capper-Volstead Act, as it was in § 6 of the Clayton Act, that the general philosophy of both was simply that individual farmers should be given, through agricultural cooperatives acting as entities, the same unified competitive advantage–and responsibility–available to businessmen acting through corporations as entities.201 That rationale continues to apply today. Nevertheless, power buyers and other opportunistic interests continue to enlist the courts in eroding the basic foundations of the exemption, and the implications will have far reaching effects. The bargaining power and economic viability of farmers and their cooperatives will be undermined here and abroad as foreign governments and their courts follow the lead of the United States. Aggressive legal attacks on the very foundations of cooperatives themselves are being waged and hope now rests with the higher courts or Congress.

#### Survival of co-ops on a large scale is unlikely with or without antitrust reform

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The responses from cooperatives primarily dealt with two aspects of the agricultural economy, the survival of farmers and farms, and the survival of cooperatives. The differences between “past year” responses and the “near future” primarily dealt with emphasis. “Past year” responses cited immediate difficulties, while future responses focused more on larger structural issues. Survival of farmers and farms reflected various influences that affected producer profitability. Low commodity prices were understood as pervasive both in the past and expected in the future and partly due to excess supply, driven by expansion of domestic commodities in some regions, as well as an increase in the importation of cheaply produced foreign goods. Producers were faced with low commodity prices, and with increasing costs of fertilizers, energy sources, and labor in some instances. In some regions, weather conditions reduced local volumes. Under such conditions producer profitability drops, and survival becomes more difficult. Poor earnings forced some farmers to discontinue operations. Others quit due to retirement, urbanization, and health problems. Some developed strategies to stay in business. Many sought greater volumes by expanding both vertically and horizontally. Some engaged in contract production or used other practices (Internet purchases and sales) to improve the overall farm efficiency. Many of these dynamics have direct impact on cooperative survivability. Fewer farmers can result in reductions in local volumes, commodities sold, and supplies and services purchased. Larger farmers with greater volumes may also bypass local cooperatives and go direct to terminals. Others that do not bypass the local may want better deals from their cooperatives. Those who contract with investor-owned firms (IOFs) drain volume from cooperatives. Cooperatives themselves, must operate in an environment of increasing costs coupled with reduced volumes, low prices, and increased costs, each contributing to low margins.

#### There is no way to determine if something is “undemocratic”

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Beyond the theoretical legal aspects above, there are additional practical reasons to reject democracy as the ultimate yardstick to assess internal resort to force both by states and opposition movements. The first is the likely objection that the term democracy might be understood as implying Western hegemony. 199 This in itself can irreparably harm the concept's legitimacy. Furthermore, even orthodox liberal theory recognizes that nowadays the democracy and authoritarianism dichotomy is too simplistic when constructing international relations, and that some gray areas of legitimacy exist - most notably in the form of the Rawlsian idea of "decent peoples." 200 But even if we reject such gray areas, the conceptual ambiguity of democracy remains. Indeed, defining democracy is far from simple, even if we can agree on its basic tenets. 201 As the world is abundant with "flawed" democracies, 202 it is not always clear when the threshold is crossed. History teaches us to be suspicious concerning the use of the term "democratic" as an empty vessel. 203 Since any rule on the use of force - considering the stakes at hand - must aim to minimize the space for subjective interpretation, it should not be constructed around vague concepts.

#### Megacities and urbanization are sustainable.

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At the core of our argument is the seemingly contradictory statement that the mechanisms that are destroying nature are laying the foundation for its long-term recovery. Passing through the bottleneck is necessary to reach the breakthrough. The conservationist’s paradox is that the same forces that are destroying nature now are also creating the circumstances for long-term success. The conservationist’s challenge is to keep the bottleneck open wide enough so that nature can survive to a breakthrough. Achieving a stable human population will require a net increase in total consumption as all people move out of poverty and follow the common trajectory of investing more in smaller families, for which they have greater security. Reaching a world with 6 billion people and vast natural expanses necessitates investing to make cities healthy, safe, and amenable for people, not just because they concentrate people into a smaller space, but also because of the ways in which urbanization influences social mobility, wealth creation, female empowerment, and ultimately, fertility. Developing a broadly shared environmental consciousness about nature is predicated on an unimpoverished, largely urbanized world that shares the positive externalities of education, technology, and, indeed, nature conservation. The profound danger is that by the time the foundations of recovery are in place, little of wildlife and wild places will be left. If society focuses only on economic development and technological innovation as a mechanism to pass through the bottleneck as fast as possible (sensu Brand 2010), then what remains of nature could well be sacrificed. If society were to focus only on limiting economic growth to protect nature (sensu Meadows et  al. 2004), then terrible poverty and population growth could overwhelm what remains. Either extreme risks narrowing the bottleneck to such an extent that our world passes through without its tigers, elephants, rainforests, coral reefs, or a life-sustaining climate. Therefore, the only sensible path for conservation is to continue its efforts to protect biodiversity while engaging in cities to build the foundations for a lasting recovery of nature. To illustrate some of implications of this theory, we contrast conservation during the bottleneck to conservation after a breakthrough (table 3). A country or a region can be said to be caught in the bottleneck for as long as its population is growing and rates of total natural-resource extraction and pollution are increasing. Analogously, a country or region begins the breakthrough when populations stabilize and natural-resource extraction and pollution rates begin to decline in absolute terms. During bottleneck periods, conservation needs to continue to identify and protect threatened elements of biodiversity (Soulé 2013). The most effective tool in our toolkit remains well-funded, socially inclusive, competently managed protected areas, which place legal limits on destructive activities. Breakthrough conservation suggests over time adjusting the management of protected areas, conceiving of these areas less as bastions against ever-mounting threats and more as source sites (sensu Walston et  al. 2010) for restoring and rewilding continents and oceans. The expansion of large wildlife in Europe provides a trenchant example (Chapron et al. 2014). Rural-to-urban migration presents a dilemma for conservation. Because many protected areas are in less-populated, low-governance areas that are important for conservation, rural residents and indigenous groups are often the only bulwark against destructive actors (e.g., industrial logging, large-scale agriculture, and criminal activity). But for many rural people, a route out of poverty may be to move to nearby towns or distant cities and away from remote parks and reserves. Where local people are the best stewards of nature, conservationists should continue to rely on community-based approaches to deliver benefits for nature and people (Naughton-Treves et al. 2005). In other circumstances, recognizing that people living in remote regions dependent on natural resources are often among the world’s poorest, most politically marginalized, and most market isolated, conservation organizations may need to assist with voluntary relocations (Karanth 2007) that in the long run are better for people and nature and employ other forms of pragmatic conservation management (Robinson 2011). Cities must be central to any global conservation strategy, because urbanization is the only lever that that simultaneously shifts populations, alleviates poverty, and spurs innovation, which individually and in combination have the potential to alter resource extraction and pollution, as we discussed above. The tremendous demographic and economic effects of urbanization have been demonstrated in all regions of the world except sub-Saharan Africa, which may be the exception that proves the rule. Improving the governance and functioning of African urban areas while simultaneously protecting Africa’s unique wildlife is arguably the most urgent need in conservation today, because it is the fastest path to global population stabilization. Moreover, well-governed, inclusive, livable cities in Africa and elsewhere give conservationists the potent platform we need to activate new, broad-based conservation movements (e.g., Asafu-Adjaye et al. 2015)—what Nordhaus and Shellenberger (2007) have called a politics of possibilities. Conservation needs cities to work for nature. But nature also needs to work for cities. Highlighting the role of cities in biodiversity conservation may seem counterintuitive, even ironic, because the expansion of built-up areas itself is a significant ecological concern (McDonald RI et al. 2008, Güneralp and Seto 2013). Urban development disrupts hydrological and nutrient cycles, destroys and fragments habitat, concentrates pollution, and provides portals for the introduction of invasive species (Grimm et al. 2008). Recognizing these impacts, many efforts are underway to mitigate them through green infrastructure, land-use planning, restoration, and place-based education. Increasingly, these activities are informed by new developments in urban ecology, conservation biology, and resilience science (Pickett et al. 2011). Urban conservation activities make towns and cities not only less destructive to nature locally but also more attractive to immigrants and residents, who will appreciate the benefits of local nature and whose lifestyle choices can provide benefits to nature elsewhere. Because urbanization creates and relies on a global market economy, the best way to influence urban consumption and innovation is through economic decision-making (i.e., prices). Directly costing in negative environmental externalities (sensu Pigou 1920) will force markets to address them in all phases of production, from resource extraction through transport and production of finished goods to release of pollution and wastes back into the environment. Because nature does not charge for the ecosystem services it provides, pricing these externalities is a matter of public policy, which can be addressed through a wide variety of financial as well as regulatory mechanisms, such as carbon taxes, land-value assessments, and/or various forms of ecological-use fees (Sanderson 2013). Finally, our theory suggests a new way to articulate the future of conservation and attract more of society to the cause. The immediacy of the threats encapsulated by “planetary boundaries” and related lines of catastrophic thinking are not only devastating to contemplate but may also be shortsighted. The world does not end in 2050, as too many data graphs do. Nor is environmentalism dead, despite claims to the contrary. Rather, if the demographic and economic phenomena that we discuss here do come to pass, it means that conservation faces another 30–50 years of extreme difficulty, when more losses can be expected. However, if we can sustain enough nature through the bottleneck—despite climate change, growth in the population and economy, and urban expansion—then we can see the future of nature in a dramatically more positive light. Much as the eighteenth-century Enlightenment created the conditions for our world, we need a twenty-first-century Renaissance of wisdom, founded on the belief that our role as human beings is to restore, steward, and celebrate the Earth’s unique and immanent nature. Conclusions Thinking about the future of conservation is both humbling and challenging, especially as it has been formulated in the Anthropocene. The underlying demographic processes, although massive, are slow moving compared with the cycles of government, funding, and careers in conservation. To be seen clearly, these trends require a historical perspective that is difficult to adopt if one is focused on immediate threats and captivated by apocalyptic futures. But there is hope. Like in London during the Blitz, vigilance and exertion are required, but we need not panic or despair because the weight of history is on our side.

### 1NC---Turn

#### Growth is unsustainable, causes extinction, and makes war inevitable---err NEG---you’re cognitively biased to underestimate ecological externalities.

Ted Trainer 20, Conjoint Lecturer in the School of Social Sciences, University of New South Wales. PhD from University of Sydney, “1. Unsustainability,” *The Simpler Way: Collected Writings of Ted Trainer*, 2020, https://www.degrowth.info/en/catalogue-entry/the-simpler-way-collected-writings-of-ted-trainer/, kyujin

The way of life we have in rich countries is grossly unsustainable. There is no possibility of all people on Earth ever rising to rich world per capita levels of consumption of energy, minerals, timber, water, food, phosphorous etc. These rates of consumption are generating numer-ous alarming global problems, now threatening our survival and the survival of other species. Most people have no idea of the magnitude of the overshoot – of how far we are beyond sustainable levels of re-source use and environmental impact. If all the estimated 9.8 billion people living on earth in 2050 were to consume resources at the pres-ent per capita rate in rich countries, world annual resource production rates would have to be about eight times as great as they are now.

For instance, the ‘Ecological Footprint’ analysis indicates that the amount of productive land required to provide one person in Australia with food, water, energy and settlement area is about 6.6 ha (Global Footprint Network, 2019). If 9.8 billion people were to live as Australians do, approximately 65 billion ha of productive land would be required. However, the total amount of productive land available is only 12 bil-lion ha. If we assume one third of this should be set aside for nature (see, e.g., Baillie Yang, 2018) the amount available for humans might be about 8 billion ha. In other words, our rich world per capita footprint is about eight times as big as it would ever be possible for all of the world’s people to sustainably share.

Figures for some other items indicate much worse ratios. For instance, the top 10 nations consuming iron ore and bauxite (from which we ob-tain aluminium and steel) have per capita use rates that are respectively around 65 and 90 times the rates for all the other nations (Wiedmann et al., 2015). Mineral ore grades are falling. All people could not rise to present rich world levels of mineral use. The same case can be made with respect to just about all other resources and ecosystem services, such as agricultural land, forests, fisheries, water and biomass.

These simple figures clearly demonstrate the impossibility of all people ever having the material ‘living standards’ we have taken for granted in rich countries like Australia. We are not just a little beyond sustainable levels of resource demand and ecological impact – we are far beyond sustainable levels. Rich world practices, systems and ‘living standards’ are grossly unsustainable, and can never be extended to all the world’s people. Again, few people seem to grasp the magnitude of the over-shoot. We must face up to dramatic reductions in our present per capita levels of production and consumption.

1.1. Now add the absurd commitment to economic growth

The main worry is not the present level of resource use and ecological impact discussed above, it is the level we will rise to given the obsession with constantly increasing the amount of production and consumption. The supreme goal in all countries is to raise incomes, ‘living standards’ and GDP as much as possible, constantly and without any idea of a lim-it. That is, the most important goal is economic growth.

Consider the implications. If we assume a) a 3% p.a. economic growth, b) a population of 9.8 billion, c) all the world’s people rising to the living standards we in the rich world would have in 2050 given 3% p.a. growth – in that scenario, the total volume of world economic output would be 20 times as great as it is now and doubling every 23 years thereafter.

So even though the present levels of production and consumption are grossly unsustainable, the determination to have continual increase in income and economic output will multiply these towards absurd and impossible levels in coming decades.

Why analyse in terms of 9.8 billion rising to rich world levels? Because a) it is not morally acceptable to assume that they remain much poorer than we are, and b) that’s what everyone aspires to, so we had better think about whether it is viable.

1.2 But what about technical advance?

When confronted by global sustainability problems most people just assume that technical advance and ‘green growth’ will solve them, enabling us to go on living with ever-increasing levels of affluence. They do not realise that the magnitude of the problems rules this out.

The core ‘tech-fix’ faith is that resource demand and environmental impacts can be ‘decoupled’ from economic growth, i.e., that produc-tion and consumption can go on increasing while resource demand is sufficiently reduced. This is extremely implausible (see Part Three of this anthology for more detail). How likely is it that the world’s amount of production could be multiplied by 20 while resource use and environmental impacts are reduced by, say, 50% – i.e., a factor 40 reduction? None of the thirty or more reports over the last 20 years show any global reduction at all; they all show that as GDP rises so do the impacts. The recent review essay by Hickel and Kallis (2019) pro-vides a powerful critique of ‘green growth’ (see also Ward et al., 2016).

1.3 Global problems should be seen in terms of ‘limits to growth’

The ‘limits to growth’ perspective (Meadows et al., 1972) is essential if we are to understand the most serious global problems facing us:

* The environmental problem is basically due to the fact that far too much producing and consuming is going on, taking too many resources rom nature and dumping too many wastes back into nature. We are eliminating species mainly because we are taking or ruining so much habitat. The environmental problems cannot be solved in an economy that is geared to providing ever-rising production, con-sumption, ‘living standards’ and GDP (see the next essay, ‘Why this economy must be scrapped’, for more detail).
* Third World poverty and underdevelopment are inevitable if a few living in rich countries insist on taking far more of the world’s re-sources than all could have. The Third World can never develop to rich world levels of consumption, because there are far too few re-sources for that. (For more detail on this issue, see the essay ‘Third World development’ in Part Two.)
* Conflict and war are inevitable if all aspire to rich world rates of consumption, and if rich countries insist on limitless growth on a planet with limited resources. Rich countries now have to support repressive regimes willing to establish policies that enable our cor-porations to ship out cheap resources, use Third World land for export crops, exploit cheap labour etc. This means we must be ready to get rid of regimes and to invade and run countries that threaten to follow policies contrary to our First World interests. Our rich world living standards could not be as high as they are if a great deal of repression and violence was not taking place, and rich countries contribute significantly to this. If we are determined to remain affluent, we should remain heavily armed! (This issue is developed in the essay in part Two called ‘If you want affluence, prepare for war’.)
* Social cohesion is deteriorating and quality of life is being damaged. This is so even in the richest nations, because the supreme goals are raising business turnover, incomes and the GDP, not meet-ing needs, building community and improving the quality of life. (Some details of this decline in quality of life and the benefits of an alternative way to live are discussed in Part Four.)

#### COVID generates momentum for the transition.

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3. Sustainable supply and production in response to the COVID-19 pandemic

Mandates imposed by governments and other responses to the COVID-19 pandemic provide some initial indications of longer-term actions on the part of policy makers, business managers, and others interested in sustainable supply and production as well as the prospects of sustainability transitions more generally. We initially discuss several behavioral changes that have been implemented such as sheltering in place, social distancing, and reductions in work-related travel in terms of both commuting and other forms of transportation. We also identify issues related to supply chains, social innovations, and technology resulting from the coronavirus outbreak.

3.1. Behavioral changes

Current practices due to the COVID-19 pandemic such as sheltering in place and social distancing have profound implications. Public health directives have discouraged large groups from congregating and self-quarantines have been recommended to help “flatten the curve.” Workplaces have implemented new practices that reinforce this need for isolation and separation and some job tasks are being performed on a distributed—often at home–basis.

At the same time, we have been seeing in recent weeks the emergence of opportunities for people to build new skills and to shift away from energy-intensive forms of transportation and to instead adopt telecommuting, virtual meetings, and online education. In the United States, on a typical (pre-COVID-19) workday over 200 million people commuted to work and thus released millions of metric tons of nitrous oxides, carbon dioxide, and particulate matter. If a modest number, let us say ten percent, find these new alternatives preferable from a cost and convenience perspective over the longer term, especially individuals who are new to this mode of work, the likely environmental benefits would be quite substantial.

Such practices are likely to become more common over time as users develop higher levels of comfort with the relevant technologies and the communications platforms themselves become more proficient in simulating face-to-face interactions. As we write this perspective article, Zoom is ranked as the number one and number two videoconferencing app in the United States and UK, respectively. Service providers are learning a great deal about the operational features of their systems as they are put under stress due to the increasing traffic generated by simultaneous users. As quality and ease of use improves, we are apt to see less physical travel – especially by airplane – after teleconferencing becomes further normalized. Another crisis-motivated shift is likely to be modification in the number of working hours per week. Prior research has demonstrated that there may be advantages from fewer work days in terms of reduced demand for commuting and increased productivity (Knight et al., 2013; Kallis, 2013). However, the net benefit of these changes will ultimately be determined by how additional non-work time is allocated and whether new forms of recreational travel are induced by the change.

General public gatherings may be less appealing in the wake of the COVID-19 pandemic. Societal concern and sensitivity to airborne contagions are likely to persist into the indefinite future and this is especially likely to be the case with respect to public venues that encourage close interpersonal interactions involving sizeable groups. For instance, large-scale entertainment and sports activities will probably be less agreeable places for people to congregate. There is apt to be a steep decline in public forms of assembly as erstwhile attendees of such events eschew mass consumption activities and the travel associated with them.

During the current public health emergency, various consumer goods are not as easily available as was previously the case. At the present time, indications are that most people have sufficient supplies of food and other essential products to survive, but demand at food banks is rapidly rising due to increasingly dire financial circumstances. Shortages appear to be the result of supply-chain inefficiencies and disruptions. Thus far, the indications are that individuals – similar to the Great Depression or during major wars of the last century – are learning to live simply and to adapt themselves to extended periods of quarantine.

3.2. Localization

We can expect that the COVID-19 pandemic will prompt business managers and policy makers to re-examine prevailing globalized systems of production based on complex value chains and the international shipment of billions of components and likely prompt establishment of new relationships and supply configurations. The coronavirus outbreak exposes the vulnerability of overreliance on just-in-time (JIT) and lean delivery systems. Separate from current travails, there has been a long-running debate about whether JIT systems – which can be efficient in terms of resources and waste – are also environmentally sound (Baumer-Cardoso et al, 2020). We will likely see in their place implementation of smarter logistics systems, including reverse logistics for secondary materials and waste products and enabled by Internet-of-Things (IoT) technologies. For example, knowing the location of electronics and appliances and their components through such means makes local sourcing easier. Furthermore, replacement of extensive transportation of processed goods over long distances with intermediate storage, depots, and material reserves is prone to gain renewed attention as inventory-buffering strategies.

In response to the need to build local resilience, supply and production systems (as well as associated consumption systems) will likely in the future need to become more localized. Trends toward “glocalization”–localization of the global network and consideration of both global and local aspects jointly– can be supported through additive manufacturing technologies (3D printing) and online sharing platforms and these processes can be further enabled and amplified by embracing current calls to establish a “right to repair” which has become an increasingly prominent feature in debates on the future of European consumer law (Terryn, 2019). Such legal guidelines would mean that users would not suffer adverse legal consequences when trying to repair products by, for example, fashioning replacement parts using 3D printing technologies. This shift would help to alleviate durability problems caused by the tendency of manufacturers to design products for premature obsolesce while encouraging greater reuse, recycling, and reclamation of products and components (Slade, 2006; Hernandez et al., 2020).

With broader implementation of the right to repair there can be increases in the circular economy concept (Schröder et al., 2019). A circular economy can provide localized resources from materials and products at the end of life – no matter the sources of these supplies. Knowing what kinds of second-hand resources are available and where they are stored, especially those that are locally rare, can be beneficial for planning purposes. One popular example in the United States derives from the hoarding of toilet paper during the period of social distancing and lockdowns. Toilet paper is treated in local sewer systems and water-treatment plants. What if we had a technology that could separate materials such as cellulose from other parts of the waste stream? There are microorganisms such as bacteria that can be deployed to gather cellulose for recycling purposes (Römling, 2002).

Related challenges are not unknown. For instance, two decades ago, the city of Santa Clarita in California launched a diaper-recycling program. Motivated by a desire to reduce this source of solid waste, the community over a six-month period established a collection system for soiled diapers and turned the discarded materials into useful products like shoe insoles, roof shingles, and wallpaper (The Economist, 2002).

Such circular economy solutions can further reinforce localization capabilities. Not only is additive manufacturing advantageous in expanding opportunities for repair, but materials from local supplies will also result (Garmulewicz et al., 2018). For instance, recovered plastics and metals can be used as feedstocks for 3D printing and these applications can provide opportunities for locally recycled materials and other byproducts derived from local waste exchanges or eco-industrial parks (Jensen, 2016; Julianelli et al., 2020; Dev et al., 2020).