# 1AC

### 1AC – Cartels Adv

#### Emerging global supply chains (GSCs) multiply the incentives and ease of cartelization – only expanding private US antitrust standing can solve global anticompetitive conduct through direct and indirect deterrence.

Gerber 18 [David J Gerber, Distinguished Professor of Law at Chicago-Kent College of Law, Illinois Institute of Technology, “Competitive harm in global supply chains: assessing current responses and identifying potential future responses,” 2018, *Journal of Antitrust Enforcement*, Vol. 6, Issue 1, pp. 5-24, https://doi.org/10.1093/jaenfo/jnx015, EA]

Global supply chains (GSC) (or ‘value chains’) contribute to many of the manufactured products used by most people in most developed countries most of the time.1 In these economic arrangements, multiple firms located in multiple jurisdictions provide components for and/or assemble and manufacture end-use products. They have developed rapidly since the 1990s, largely as a result of reduced transportation and communication costs and the increased mobility and concentration of financial resources. Together, these forces make it easier and more efficient to shift production across borders. They offer potential benefits to both producers and consumers.

Yet, GSCs also carry a potential for harm that is often beyond the reach of current legal remedies. They can shield those that produce faulty or hazardous products or artificially raise prices from legal responsibility for the harms they cause to markets, consumers, or the environment.2 This article focuses on one set of those potential harms—those caused by anti-competitive conduct, but many of the issues also arise in relation to environmental, financial, and other types of harm.

The issues are central to the evolution of markets almost everywhere. Any producers anywhere in a GSC can reduce competition and raise prices for all subsequent purchasers. As a result, such conduct may have effects in many jurisdictions. Moreover, the harmful effects from the conduct are likely to be incurred outside the jurisdiction in which the conduct is located. Where producers can be confident that they are shielded from competition law enforcement, they are more likely to engage in such conduct.

Few legal tools are available for deterring such harms, and they evolved in a very different economic context to deal with very different problems. Until very recently, there has been limited recognition within the legal community that GSCs represent a new form of economic organization that is not easily amenable to effective treatment with these tools. Legal discussions have tended to subsume the issues under existing categories, often failing to notice that these categories and the tools based on them may be inadequate and ineffective in responding to a new organizational form. As is common (and often appropriate) in legal thinking, new phenomena are subsumed within older categories until it becomes imperative to think about them as something new.

GSC harms represent a transnational problem, but little has been done on the transnational level to respond to the harms. As a result, the tools available for dealing with them remain primarily domestic (ie, usually national). Existing domestic legal tools remain, however, either limited in scope or applied in ways that render them largely ineffective. The inadequacy of the current legal framework calls for efforts to develop more effective tools, both domestic and transnational. US antitrust law may be in a position to contribute to creating such tools, but, as we shall see, efforts to realize this potential encounter major obstacles.

The article has three main goals. One is to identify the dimensions of the problem. Economists and business decision makers have been identifying the characteristics and consequences of GSCs since at least the 1990s,3 but, until very recently, these issues have been either absent from or at the margins of legal discussions. A second objective is to explore and assess experience in responding to competition harms associated with GSCs, focusing primarily on US experience with private enforcement of antitrust law. Finally, the article suggests potential transnational responses to this transnational problem.

I. GLOBAL SUPPLY CHAINS

GSCs are a feature of what I call ‘deep globalization’—ie, the cross-border interpenetration of economic functions.4 Reduced transportation and communication costs have led to the fragmentation of production processes and the distribution of economic production functions, often across political borders. This creates opportunities for firms to exploit differences in production costs in both acquiring and selling products and services.

Arrangements for exploiting these differences may be managed and organized in a variety of ways. All refer to organizing the production of goods and services in order to supply specific needs. Some are organized by a firm or firms in the destination country and ‘buyer-driven’. Others are organized by sellers (who are typically outside the destination country) and referred to as ‘supply-driven’ chains. It has become increasingly common for firms in destination countries to ‘manage’ the entire process through agreements of various kinds that may relate to the products themselves or to the characteristics of the producers and the production process.5 In these arrangements, the organizing firms often seek to avoid responsibility for conduct by their suppliers that might violate environmental and labour standards.

Although there are many variations on the theme, one common scenario is something like the following: Firm A (typically from a high income country) seeks to sell a product in a developed market such as the United States or Europe where labour and related factor costs are high. It therefore contracts with a firm (B) in a lower cost country to produce the goods there. It presses firm B to produce at the lowest possible prices. Firm B, in turn, acquires components from suppliers (firms C, D, and E) in countries with even lower costs and manufactures the product from those components. It then sells the product to Firm A for resale in the high-income market (perhaps with further elaboration).6

At any point in this chain of production, participants may engage in practices designed to raise the price they receive for their contribution to the value of the good or service being produced. Some estimate the potential losses to US consumers per year as high as several hundreds of billions of dollars, with an estimated $2 trillion dollars overcharged to consumers world-wide.7

II. POTENTIAL LEGAL TOOLS: TRANSNATIONAL LEVEL

Global supply chains have major consequences for many countries, so we might expect them to have generated legal developments on the transnational level. Yet, little attention has been paid to developing transnational legal tools for responding to their threats. There are no enforceable competition law provisions on the global level. Some regional and bilateral agreements provide for exchange of information related to competition law violations, and these could, in principle, be used to gain information and support enforcement. For example, the Mutual Legal Assistance Agreement (MLAT) between the United States and Canada enhances the countries’ exchange of information and cooperation in investigation and prosecuting cartels.8 These agreements do not require, however, that host countries provide information that may contravene their own interests. As a result, they are seldom of value in combating GSC’s harms, because officials in countries where the conduct occurs seldom have incentives to report such violations to officials in countries in which the anticompetitive harm results.

III. NATIONAL COMPETITION LAWS: PUBLIC ENFORCEMENT

The paucity of transnational tools means that domestic (ie, typically, national) legal systems provide whatever tools are available for deterring GSC harm. Here, the central issues relate to jurisdiction and to enforcement incentives: the starting point is the issue of whether a state is entitled under public international law to apply its law to conduct outside its territory and the extent to which its national laws authorize application of competition law to such conduct. The public international law issue is often overlooked, especially in the United States, but it can be important in understanding not only statutes and cases, but also options available for responding to GSC challenges.9

The effects principle and national versions of it Until the end of the Second World War, the long-established principles of territoriality and nationality were considered the sole basis of authority for a state to apply its law to conduct outside its territory. A state could not apply its law to conduct outside its territory, except to its own nationals. In 1944, however, a US court of appeals sitting for the Supreme Court enunciated what came be known as the ‘effects principle’.10 This provides generally that a state is entitled to apply its laws to conduct outside its territory where the conduct has a significant effect within its territory.11 The case involved the extraterritorial application of US antitrust law.

Despite initial resistance, primarily from the UK and other European countries, this principle has come to be generally accepted.12 Accordingly, if firms outside country X collude to raise prices on products that are destined for sale in county X, the resulting harm would in principle justify the application of country X’s law to the conduct.

Public international law is, however, only the starting point for jurisdictional analysis. Each jurisdiction incorporates and interprets the effects principle for application by its own institutions, typically enacting a statute that incorporates it in some form. For example, the relevant statute in the US specifies that US antitrust law applies to conduct that has a ‘direct, substantial and foreseeable’ effect within the United States.13 The incorporation of the effects principle in various forms and subject to various conceptual, institutional, and procedural limitations—both formal and informal—is central to dealing with GSCs.

Public enforcement of competition law for foreign-based conduct

Domestic laws typically authorize public institutions to apply domestic law to foreign conduct that has the requisite domestic effects. Public enforcement by competition authorities (CAs) provides, therefore, a potential tool for combating GSC harm. In most countries, competition law is primarily or exclusively applied by public institutions, however, and thus application of the jurisdiction’s laws to GSCs depends on the capacity and willingness of these institutions to take enforcement action.

Public enforcement cases remain uncommon (although in the United States and Europe they have been increasing in recent years).14 For example, when in 1996 the Antitrust Division of the US Department of Justice (DoJ) prosecuted ADM of Illinois and four other companies for participating in a global price-fixing cartel in the artificial sweeteners businesses, fining them over $10 million,15 it was the first completely successful conviction of a global cartel in more than four decades. Prior to this case the DoJ had attempted to prosecute only three international cartels, failing each time.16 Since then, the DoJ has successfully prosecuted and levied fines in a few major cases, including, for example, fining Hoffman-La Roche over $500 million in 1999 for its participation in global cartels for bulk vitamins and, more recently, Bridgestone Corporation of Japan over $425 million in 2014 for cartel participation.17 In part, this reluctance can be ascribed to the difficulty of prosecuting such cases. The DoJ has been described as ‘risk-averse’, as it tends to only pursue cases where there is a substantial chance of successful conviction,18 and success in such cases is far from predictable.

Several additional factors limit the potential utility of public enforcement by destination countries. First, public officials may be unlikely to learn about foreign conduct that causes GSC harms. The conduct could occur anywhere in the world, and public officials in destination countries are unlikely to learn about it through their own surveillance efforts. Victims may provide information to public officials that suggests collusion to raise prices, but this is likely only in the case of corporate purchasers whose potential losses are significant enough to justify such efforts and whose knowledge of the industry makes them aware of it. Moreover, competition officials in a source country have little incentive to provide information about domestic conduct to destination country competition officials. Although there is regular information exchange among some enforcement officials—primarily between the United States and Europe, such exchanges with smaller competition authorities are limited.

Second, even if a CA in a destination country becomes aware of such conduct, there are significant obstacles to acquiring sufficient evidence to support legal procedures against those engaged in it. Potential evidence is likely to be located on foreign territory, and foreign institutions may have little capacity or willingness to undertake investigations there or to acquire evidence from foreign witnesses and foreign institutions. Moreover, any such efforts are likely to be highly time-consuming and expensive.

Public enforcement by source countries is limited by the lack of enforcement incentives. CAs in source countries seldom have significant competition law experience. They are typically underfunded and often subject to political pressures to protect domestic firms. Often the source firms for GSCs are small and medium-sized industries that provide jobs for the economy and political support for local governments. Under these circumstances, a CA in a source country is likely to have few incentives to apply competition law to firms participating in GSCs.

IV.PRIVATE ENFORCEMENT: THE GENERAL PICTURE

Private enforcement provides another potential tool for deterring anticompetitive conduct caused in supply chains. It allows a private party to pursue litigation against those whose anticompetitive conduct has caused it harm. There are two types of private enforcement. Direct private enforcement allows an injured party to bring a claim without prior action by public authorities. This type of enforcement is common in the United States, but in most jurisdictions private enforcement is limited to ‘follow on’ (or ‘piggyback’) litigation. Here, private litigation follows public enforcement, either because the law requires it or because procedural and practical reasons dictate it.19

Private litigation may often be more useful than public enforcement for deterring competitive harm in global supply chains, primarily because firms injured by such conduct often have strong incentives to seek compensation for their losses. A firm in a destination market (eg, the United States) may lose market share and competitive position where price-increasing agreements within a SC raise the cost of the products it sells. It may, therefore, be willing to incur the risk and expense of litigation in order to seek compensation and deter similar conduct. Consumers may also be harmed, but the harm to each individual is unlikely to justify private litigation, and class actions in this context are rare.

Despite its potential value, the obstacles to pursuing private litigation are high in most jurisdictions. First, in many jurisdictions private enforcement of competition law claims is unavailable. Competition law enforcement is considered a matter for public enforcement.20 Second, even where it is available, there are often major procedural obstacles to using it. For example, procedures in civil courts often provide very limited means and opportunities to acquire evidence, and competition legislation typically depends on providing economic evidence.21 Third, the cost of private enforcement tends to discourage plaintiffs from pursuing such litigation. In GSC, situations witnesses and documents are typically located outside the destination country, and acquiring access often requires complicated and constrained strategies as well as high translation costs.22 Fourth, the risks are high. In most countries, decisions in competition law litigation tend to be especially difficult to predict. Judges typically are not accustomed to such litigation and unfamiliar with the economic arguments that are often required. Relevant legal principles may be vague, and acquiring sufficient evidence clearly to identify competition harms may be difficult, if not impossible. Finally, even where a plaintiff wins a domestic judgment against a foreign defendant, enforcing the judgment is likely to be difficult and costly in many source country jurisdictions.

V. US PRIVATE ENFORCEMENT—POTENTIAL

These obstacles to private enforcement are, however, significantly lower in the United States than in other countries. This creates the opportunity for US private enforcement to contribute to a more effective legal framework for deterring anticompetitive conduct in GSCs. US private enforcement has extensive direct deterrence capacity, and it can provide impetus and example for developing more effective tools in other jurisdictions and on the transnational level.

Direct deterrence: enforcement opportunities

US private enforcement can itself play a direct role in deterring harmful GSC conduct. The procedural tools supporting it are well developed and supported, and there is extensive experience with using them. Procedural rules encourage private enforcement. For example, US law triples compensation awards for harm due to antitrust infringements (‘treble damages’), thereby greatly increasing the incentive to bring private suits.23 Similarly, punitive damages may also be awarded for violation of the antitrust laws. Moreover, procedural rules provide litigants with means for acquiring data from other litigants and introducing this data into evidence in litigation.24 This greatly increases the capacity of plaintiffs to search for and acquire evidence of anticompetitive conduct and to analyse its effects. Finally, these tools are routinely used, and thus there is extensive experience in using them. Private cases represent the majority of US antitrust cases.25

In addition, the United States has both the political and economic leverage to induce compliance with its laws. Economic leverage comes from the size of its market. GSCs often target the US market, and many are organized and controlled by US firms.26 This means that a firm located outside the United States may have strong incentives to comply with US administrative requests and court judgments. Even though a US judgment may not be easily enforced abroad, a foreign firm may have assets in the United States that would be subject to claims arising from litigation. Moreover, US purchasers may avoid buying from firms that may be subject to such legal liability. The political leverage of the US government further increases the likelihood that sanctions imposed by US courts will be taken seriously by source country firms and officials. US institutions are often in a position to put pressure on foreign governments and officials to support US claims.

Indirect support: information and experience

US private enforcement experience can also provide valuable indirect support for dealing with anticompetitive conduct in GSCs.27 The extensive use of private enforcement tools represents a valuable source of data and experience for other countries that may wish to develop such tools. US case reports provide detailed information about the way these tools are used in specific cases, and these records are often easily accessible. These tools have not yet been widely used in GSC contexts, but if they were used more extensively in such cases, the experience could be a particularly valuable source of information for other countries that wish to develop private enforcement capacity to deal with these issues.

As a source of impetus

The United States could also provide important impetus for other countries to develop more effective tools to deal with the competition law issues associated with GSCs. Many members of the US antitrust community are in a position to encourage, instruct, and cajole others to be aware of the problem and to take steps to deal with it. US officials, practitioners, and academics play major roles in virtually all important international and many regional competition law meetings and organizations. Moreover, US institutions provide extensive opportunities for study of antitrust law in the United States, and they often offer significant support to competition authorities in many parts of the world.28

The capacity to play these roles effectively depends on many factors, but principally on the dynamics and characteristics of US law itself. To the extent that US courts and legislators provide clear and accessible guidelines for evaluating the potential for competitive harm from GSCs, this is likely to increase not only its potential for direct deterrence, but also its capacity to support deterrence by others.

VI. POTENTIAL UNREALIZED: THE OBSTACLES

US antitrust law has not realized its potential for playing these roles. Three major obstacles impede it. First, it relies on an outdated and exceptionally opaque statute. Second, US cases in the area often send widely divergent and often conflicting messages about the statute’s content, reflecting not only the opacity of the statute, but also the lack of a widely shared understanding of the problems, objectives and issues of transnational competition law enforcement. And third, courts and commentators often fail to recognize the specific characteristics of GSCs. As a result, they often apply principles and reasoning developed for use in the US domestic context to foreign contexts for which they were not designed and may not be appropriate.

The FTAIA

The FTAIA is itself a major obstacle to realizing the potential of US private enforcement. Enacted in 1982, it provides authority for US institutions to apply US antitrust law to private conduct outside US territory.29 It incorporates the effects principle of public international law and interprets it for use in US law.30 There is widespread agreement that the statute is exceptionally opaque, and its opacity hampers both US enforcement and the potential influence of US law in other countries.31

The FTAIA’s relationship to other antitrust legislation creates one level of difficulty. The statute represents an exception to the coverage of the basic antitrust statute, the Sherman act.32 If the FTAIA applies to conduct, the Sherman Act does not apply. Moreover, the FTAIA contains exceptions to its general provisions.33 As a result, interpreting the statute typically involves dealing with double negatives—ie exceptions to exceptions.

The statute’s structure increases the difficulty of using it. It establishes three basic categories of commerce—domestic, import, and foreign—and bases conclusions regarding the legality of foreign conduct on whether the conduct falls within one or more of those categories. The basic idea is that conduct in domestic commerce is subject to US antitrust law; conduct wholly in foreign commerce is not subject to it unless it has a ‘direct, substantial, and reasonably foreseeable effect’ in the United States; and conduct in or affecting import commerce may be subject to US law. The boundaries of these categories remain highly contested, however, despite more than three decades of extensive litigation.34

These categories are used in conjunction with two main operative provisions— each of which has also generated controversy and uncertainty. The first incorporates the effects principle of public international law and interprets it for application of the US antitrust laws. It exempts from the antitrust laws anticompetitive conduct outside US territory unless such conduct causes a ‘direct, substantial, and reasonably foreseeable effect’ within the United States. This language has been interpreted in a large number of cases, but the opinions have not clarified the meaning of the terms. The second requires that the conduct ‘give rise to a claim’ under the Sherman Act. Again, there have been many interpretations of this provision, but the cases have exacerbated rather than reduced uncertainty.

The history behind the statute reveals some of the factors that shaped it and that have contributed to the confusion surrounding it.35 When the United States articulated and supported the effects principle after the Second World War, many outside the United States viewed its claim to expanded jurisdiction as a vehicle through which it sought to impose its form of economic organization on other countries. For decades, several major European countries (particularly the UK) protested the validity of the effects principle under international law.36

This led US courts to develop the so-called ‘comity’ principle, according to which US courts would refrain from applying US law in situations where the US interest in such application was less than the interest of the states in which the conduct occurred. These responses to foreign concerns about US jurisdictional assertions did not implicate the authority itself, but rather the use of that authority. By the late 1970s, the courts had produced long lists of factors to be considered in applying the law extraterritorially.37 There was, however, much criticism among US commentators and judges about the viability of this effort.38

The confusion and uncertainty created by this comity approach encouraged Congress to pass the FTAIA and shaped its content. The basic objective was to clarify and limit the scope of the effects principle as incorporated in US antitrust law while assuring that the law could not be used by others to interfere with the activities of US businesses overseas.39 The statute also represents an attempt by Congress to reduce the potential for applying US law to foreign conduct and thereby to reduce criticism and resistance to US law. Defining the scope of the effects principle was seen as preferable to the failed efforts to achieve this end by relying on judicial use of the amorphous comity principle. The statute dramatically changed analysis of the issue and moved toward a potentially more effective solution. Unfortunately, however, it has not provided the clarity needed to make the solution effective.

The amorphous case law

The courts have increased rather than decreased the uncertainty and confusion created by the statute itself. They have not developed principles that give coherent shape to the case law. Courts have wandered in many directions—without any apparent shared sense of the issues and problems involved in applying US competition law to foreign anticompetitive conduct. I mention here only a few examples.

‘Direct’ and ‘substantial’ effects

The statute’s reference to ‘direct’ effect has elicited numerous interpretations. Many courts use the concept of ‘proximate cause’ drawn from the law of torts to interpret ‘direct’, and in so doing they import from tort law extensive and still highly contested discussions of what ‘proximate cause’ means. For example, the Seventh Circuit has adopted the traditional tort-based approach to proximate causation, requiring only that a ‘reasonably proximate causal nexus’ exist between the anticompetitive conduct and the effect on domestic trade.40 Other courts use other and often inconsistent approaches to interpret ‘direct’. For example, the Ninth Circuit requires that a plaintiff show that the domestic injury (the ‘effect’) ‘follow as an immediate consequence of the defendant’s actions.’ This focuses on a single factor—the ‘spatial and temporal separation between the defendant’s conduct and the relevant effect’.41 In contrast, The qualifier ‘substantial’ has also been interpreted in various ways. The Ninth Circuit has developed a stringent test, requiring a plaintiff to show both injury to a specific firm and injury to the market and competition in general.42 Other courts merely consider the amount of injury to firms and the harm of the anticompetitive foreign conduct as factors in determining whether the effect was substantial. The Fifth Circuit found a ‘substantial’ effect to the market as a whole where only one firm was injured because that one firm held a substantial amount of the market share.43

The ‘arising under’ language

The arising under language has proven similarly opaque. Interpretations of its function and meaning vary widely. Some courts conflate it with the effects test and treat it as a test of the reach of US law.44 Others refer to it as an element of standing to sue.45 There is also a major debate as to whether it should be seen as an element of the claim itself—a substantive law issue—or an issue of who can sue—a procedural issue.46

Misapplication of domestic cases: missing the transnational

A third factor limiting both the direct enforcement effect and the potential guidance effect of US private enforcement is a tendency among US judges, officials, and legal scholars to use domestic doctrines and rules in the transnational context without asking whether the policy basis for the domestic doctrine is served by applying it in the transnational context. As we shall see below, application of domestic rules without considering their likely consequences in international contexts may produce results inconsistent with or even directly opposed to the initial policy basis for the rules.

VII. THE MOTOROLA-MOBILITY CASE: SHOWCASING THE OBSTACLES

The 2015 Motorola-Mobility case of the Seventh Circuit highlights the obstacles.47 It is a major case that has drawn much attention in relation to the shaping of GSCs.48 This fact not only underscores the potential for constructive influence of the US private enforcement regime in the evolution of GSCs, but it also reflects many of the factors that we have identified as obstacles to realizing that potential. The US Supreme Court declined to review the case,49 and it may therefore remain an important component of US law relating to extraterritoriality, in general, and GSCs, in particular.50

The opinion

The basic fact pattern is typical of global supply chains. The plaintiff, Motorola-Mobility, Inc., is a large US electronics manufacturer. It incorporates LCD screens in many of its products, purchasing most in Asia through a global supply chain. In this case, a small percentage of the component sales were made directly to the US parent (ca 1 per cent), but most were made to its wholly owned foreign subsidiaries. These units then sold some of the products to the parent and others to buyers outside the United States. On discovering that some suppliers that were part of the supply chain had agreed among themselves to increase the prices they charged for such screens, Motorola filed suit in US court for compensation for the losses incurred as a result of the agreements.

The appeals court upheld the lower court ruling that the plaintiff was not entitled to sue. At issue was the harm caused to the parent company as a result of purchases it made through its overseas subsidiaries. The opinion by Judge Posner did not treat that portion of the FTAIA that specifically deals with the extraterritorial reach of the statute (the effects principle). A criminal proceeding on the same basic facts had found that the effects of the foreign conduct on US commerce were ‘direct, substantial and reasonably foreseeable’ and, therefore, that the statute did apply to the conduct. Judge Posner accepted this finding.

The opinion focused instead on the issue of the plaintiff’s standing to sue. It analysed the issue by reference to the statute’s ‘arising under’ language. In Judge Posner’s view, the effect of the cartel agreements on US commerce occurred outside the United States and therefore did not ‘arise under’ US law. Accordingly, the plaintiff was barred from bringing suit in the United States because the losses were suffered by Motorola’s foreign subsidiaries rather than Motorola itself. In reaching this conclusion, the Court rejected the plaintiff’s argument that the harm was suffered by the parent, because the foreign subsidiaries were completely owned and controlled by the parent and functionally part of the parent. According the opinion, this claim was a ‘fatal flaw’ in the plaintiff’s case. Judge Posner apparently did not consider total ownership and control of the subsidiaries as a sound basis for identifying them as functionally part of the parent.

He buttressed the denial of standing by referring to a US domestic antitrust law doctrine referred to as the indirect purchaser rule, which denies indirect purchasers the right to sue for harm suffered as a result of antitrust violations. This so-called ‘Illinois Brick’ rule was specifically crafted to achieve policy objectives—specifically, to increase enforcement of the antitrust laws by increasing the incentives for private actions.51 By assuring that at least the direct seller suffered sufficient harm to justify litigation, it sought to provide this incentive. The rule has been heavily criticized, and numerous states have contravened it in their own antitrust laws.52

Obstacles to a constructive role for US private enforcement

The opinion reflects some of the obstacles that impede US law from performing a constructive role in shaping responses to GSC-based harms. It applies the statute in ways that provide little guidance for future cases, uses the confused case law in ways that further contribute to the confusion, and inappropriately applies domestic doctrine to a transnational context.

Struggling with the statute

The Court struggles to make sense of the statute. First, it turns the ‘arising under’ language into a test of standing to sue, despite the fact that the statutory language has been understood to refer to other issues and that the legislative history does not support that interpretation. Second, it uses this language to define, in effect, the extraterritorial reach of the US antitrust laws in private enforcement cases. And third, the opinion applies the statute formalistically despite the fact that it is being applied to new circumstances that call for careful analysis of the consequences of its application. In particular, it claims that the Motorola’s wholly owned subsidiaries were not functionally part of Motorola, although they were completely owned and controlled by Motorola and, therefore, functioned as part of it.

Confused by the confused case law?

The opinion also reflects the confusion of the case law. Judge Posner injects issues from earlier cases that have little if any relevance to the case at hand and are likely to exacerbate the uncertainty and inconsistency of the case law. For example, the opinion inserts language about ‘comity’ from earlier cases, but uses it in ways that are misleading in relation to the cases from which the language is taken and which tend to obfuscate the issues relating to GSCs.

Missing the transnational: applying domestic doctrine to transborder contexts

The opinion’s ‘domestic blinders’ represent a third obstacle to the development of antitrust law relating to GSCs. The Court applies domestic rules to the transnational context without accounting for the changed context in which they are being applied. The result is an outcome that directly contravenes the policy on which the domestic rules were based.

Judge Posner’s application of the ‘indirect purchaser rule’ provides a particularly poignant example.53 According to this rule, only direct purchasers may sue for damages for harm caused by anticompetitive conduct. The rule was established in the Illinois Brick decision and based on ‘the longstanding policy of encouraging vigorous private enforcement of antitrust laws’. According to Illinois Brick, this policy called for ‘concentrating the full recovery for the overcharge in the direct purchasers’.54 Otherwise, there was a risk that ‘those who violate the antitrust laws by price fixing ... would retain the fruits of their illegality because no one was available who would bring suit against them’.55 The policy behind the rule was to encourage private enforcement.

In the GSC context, the application of the indirect-purchaser doctrine has precisely the opposite effect. It discourages private enforcement, because it all but precludes recovery by the victims of anticompetitive conduct. Except in unlikely cases, it virtually ensures that foreign cartels will ‘retain the fruits of their illegality’. Barring parent companies from bringing suit where they make purchases through their wholly owned foreign subsidiaries means that price-fixing within the supply chain will escape liability for such purchases, because the subsidiaries are unlikely to have a remedy under foreign antitrust laws. Judge acknowledges that ‘foreign antitrust laws rarely authorize private damages actions’, but ignores the consequences of this fact.56

#### Now is key – the pandemic spurs potential cartel behavior.

Ivanov 20 [Alexey Ivanov, Director, BRICS Competition Law and Policy Centre, “Roundtable: Combating Cross Border Cartels (Thursday, 22 October 2020),” 10/22/20, *United Nations Conference on Trade and Development*, https://unctad.org/system/files/information-document/tdrbpconf9\_d11\_Cross\_Border\_Cartels\_en.pdf, Accessed: 08/30/21, EA]

Cross-border cartels are the most harmful type of anticompetitive practices whereby their detection and investigation require a high degree of cooperation amongst competition authorities. The UN Set on Competition recommends that States should improve and effectively enforce appropriate legislation and implement procedures for the control of restrictive business practices (RBPs), including those concerning anticompetitive agreements (cartels) among enterprises. In this regard, the UN Set also calls for the improvement of procedures to obtain information from enterprises, necessary for the effective control of RBPs, including cartels.

The current pandemic is likely to result in higher levels of concentration in various sectors due to disruptions and shortages of global supply chains, which could be conducive to cartelisation, especially at the cross‐border level. Therefore, this issue is timely to discuss, especially with a specific focus on developing countries. As it is known, cross‐border cartels have caused tremendous damage to economies especially in emerging markets as they limit the benefits from international trade and access to global supply chains.1 The effects on developing countries are particularly salient since they rely heavily on imports of goods from industries involved in international price fixing conspiracies.

#### Cartels eviscerate competition – kills innovation and productivity – only broadly reading the FTAIA solves.

Leonardo 17 [Lizl Leonardo, J.D., magna cum laude and with a Certificate of Business Law from DePaul University College of Law, “A Proposal to the Seventh and Ninth Circuit Split: Expand the Reach of the U.S. Antitrust Laws to Extraterritorial Conduct that Impacts U.S. Commerce,” 2017, *DePaul Law Review*, Vol. 66, Issue 1, https://via.library.depaul.edu/cgi/viewcontent.cgi?article=4008&context=law-review, EA]

In today’s global economy, it is difficult to distinguish and separate foreign from domestic effects.379 Global supply chains have made it easier for products to move rapidly and with ease. The United States, holding twenty-one percent of the worldwide Gross Domestic Product (GDP), is most susceptible to cartel targeting.380 With twenty-nine percent market share, it is the largest consumer in the world.381 Any impact of collusion in the international market is intertwined with a harm to customers in the United States.382 Measures must be taken to ensure that markets remain open and competitive; no company should able to dominate and restrict the supply of products sold. With a rigid rule in place, formation of domestic and international cartels would decline, further strengthening competition.383 After all, the protection of consumers through the preservation of deterrence is one of the main focuses of antitrust laws.384

Courts, as well as scholars, have commented that cartel deterrence should be the primary concern over international comity issues in analyzing the FTAIA.385 In United States v. Nippon Paper Indus. Co., 386 the First Circuit concluded that principles of comity should not “shield” a defendant from any intentional wrongdoings, especially if a substantial effect occurred in U.S. markets.387 Otherwise, because cartel members are more likely to engage in anticompetitive conduct, a decision that is based more heavily on the international comity principle would make company transactions, domestic and abroad, confusing and ultimately increase the burden on consumers.388

Cartels, more often than not, operate in secrecy. Members can coordinate and collude to fix prices outside of U.S. jurisdiction, making it much more difficult for the U.S. government to detect and prosecute them.389 To achieve deterrence, a rule that will dissuade companies from engaging in anticompetitive conduct from the very beginning will allow antitrust enforcement to be more manageable.390 A cartel will most likely weigh the potential damages engaging in anticompetitive activities with the potential benefits of those anticompetitive activities.391 A study conducted in the United Kingdom showed that labor productivity declined when industries are characterized by collusion or when competition is low.392 The study showed, however, that once a strict antitrust law was enforced, the gap declined, if not disappeared.393

The presence of competition drives productivity by incentivizing companies to be more efficient.394 Studies have revealed that competition boosts product innovation and creativity, all while firms strive to reduce their costs, by encouraging them to produce higher-quality and more diverse goods and services at more competitive prices.395 Consumers will gain more access to markets they had not previously been exposed to as a result of commercial competition.396

Cartels limit the presence of competition in the economy.397 Once producers work together to protect their own interests, to the detriment of consumers, competition is eliminated.398 Cartel members either agree on a fixed price at which to sell certain products or restrict the quantity of output of the product released into the market.399 By deliberately restricting the output released into the market, without a natural shift in the consumers’ demand, the supply decreases, thereby increasing the price of the product.400 When most of the producers in an industry are part of a cartel, consumers will have no means to find a substitute, and they will have no choice but to accept the inflated price.401 For example, when AU Optronics and other defendants colluded to artificially set the price of the LCD panels, Motorola and other plaintiffs had no choice but to subsequently increase the price of their own products that used these LCD panels.402 Without the cartel-priced LCD panels, Motorola’s foreign subsidiaries would have been able to buy them at the market price and charge U.S. consumers less than they ultimately did.403

Extending the reach of the FTAIA to foreign conduct with an impact on U.S. commerce makes economic sense.404 Judge Higginbotham’s dissent in Den Norske was correct: Emphasizing the role of deterrence protects market efficiency.405 He argued that a broad interpretation of the FTAIA would aid the DOJ’s efforts in curtailing international cartels.406 A cartel’s overall profitability is favorably impacted by anticompetitive conduct, and this may lead cartel members to either further restrict the output or increase the price of the product.407 A decrease in competition could potentially move market share away from these efficient producers.408 Thus, a consistent application of the Ninth Circuit ruling across all U.S. jurisdictions will limit both this unacceptable behavior and the foreign companies’ incentive to form cartels. Foreign companies will be deterred from price-fixing knowing that they could be liable for anticompetitive conspiracies, even for transactions that occurred outside of the United States.409 Studies have already shown that antitrust enforcement increases productivity growth.410 In fact, a study has concluded that the price of products tends to drop approximately twenty to forty percent after cartels are broken up.411 The price-fixing issue is not only prevalent in the manufacturing industry, but also in the industries at issue in Hui Hsiung and Motorola. 412 Studies show that increased competition also benefits the agricultural, telecommunications, transport, and professional services industries.413 Moreover, even though competition usually starts at a domestic level, a ruling against cartel formation will positively affect the competitiveness of the domestic products as they compete in the international community.414 Companies typically acquire their production inputs from local markets and industries.415 If these industries lack competition, product prices in these markets may not be priced competitively, which affects the finished products’ competitiveness with foreign rivals.416

#### Scenario 1 is graphene.

#### Graphene is key to new tech but is vulnerable to cartelization.

Lele 19 [Ajey Lele, Senior Fellow at the Institute for Defence Studies and Analyses, “Disruptive Technologies for the Militaries and Security,” 2019, Springer, pp. 84-85, EA]

Graphene is a new material that is expected to be more solid than steel and a better conductor than copper. As its name indicates, graphene is extracted from graphite, the material used in pencils. Like graphite, graphene is entirely composed of carbon atoms and 1 mm of graphite contains some three million layers of graphene. Whereas graphite is a three-dimensional crystalline arrangement, graphene is a two-dimensional crystal only an atom thick. Graphene conducts electricity better than copper. It is 200 times stronger than steel but six times lighter. It is almost perfectly transparent since it only absorbs 2% of light. It impermeable to gases, even those as light as hydrogen or helium, and if that were not enough, chemical components can be added to its surface to alter its properties. The isolation of graphene has successfully been demonstrated in laboratory, and the scientists have 2010 Nobel Prize for Physics for this success.

Being transparent as well as a good conductor, graphene could replace the electrodes in the indium used in touch screens. Since it is light, graphene could be integrated into composite materials to eliminate the impact of lightning on aircraft fuselages. It is also waterproof and would be perfect to use in hydrogen reservoirs. The major challenge for the ICT industry is to find alternatives for information processing and storage beyond the limits of existing CMOS. There are good indications that graphene is a prime candidate for ‘Beyond CMOS’ components and is, despite its revolutionary nature, complementary to conventional CMOS technologies. Presently, further research and experimentation are underway on this subject to make this idea feasible for usage in industrial sectors like electronics, energy, health and construction. Typically, it takes about 40 years for a new material to move from an academic laboratory into consumer product. However, in the case of graphene, within 10 years, it has jumped from the laboratory into the industrial laboratory and now pilot products are also available. As per report published by Badische Anilin und Soda Fabrik (BASF), the future of the graphene market could be worth $1.5 bn in 2015 and $7.5 bn in 2025 [11].

It is important to make a note about the present status of graphite over here because that is what forms the raw material for graphene. In the Indian context, material science has not yet identified graphite as a strategic material. However, graphite has been named a ‘supply critical mineral’ and a ‘strategic mineral’ by the USA and the European Union. As is the case with various other materials, China has a tight grip on the worldwide graphite supply, controlling over 70% of it.

In the past, China has been found limiting graphite exports with quotas causing graphite prices to rise. Additionally, owing to environmental concerns, China has recently ordered restrictions on any further graphite mines in two of its largest graphite producing regions [12]. This lack provides an opportunity and opens up a door for others to enter the market in a big way.

The major challenge with graphene is to deal with issues concerning its high flammability potential. Actually, this volatility in terms of combustion restrains its ability to be commercialized at a large-scale level. To get over this problem, researchers have developed a method aimed at converting graphene oxide into a non-flammable and paper-like graphene membrane that is safe for mass production purposes [13].

Graphene has several end-user industries such as aerospace, automotive, energy, coatings, pharmaceuticals, electronics, 3D printing, chemical and others. Swelling in demand of electronics trades is likely to drive the graphene market growth. Graphene is a cost-effective alternative to conventional silicon-based devices due to its attributes. It also has energy harvesting properties [14].

While further testing is necessary to determine the efficacy range of the various applications of this material, there are still various observed characteristics that point towards a promising future. In recent years, the graphite prices have already started showing a steep rise. Any major technical breakthrough related to graphene will put more pressure on the graphite pricing policy. Hence, it is important to ensure that no manipulation and cartelization of graphite business take place.

#### Graphene key to space elevators – gets off the rock and solves warming.

Williams 21 [Matthew S. Williams, citing Adrian Nixon, a Chartered Chemist, member of the Royal Society of Chemistry, a Strategic Advisory Board member of the international space transportation association StellarModal, and board member of the International Space Elevator Consortium ISEC (ISEC); author, a writer for Universe Today, and the curator of their Guide to Space section, “The Technologies That Could Finally Make Space Elevators a Reality,” 10/23/21, *Interesting Engineering*, https://interestingengineering.com/tech-that-can-make-space-elevators-a-reality, EA]

Like the Stanford Torus, the O'Neill Cylinder, and the Generation Ship, the Space Elevator is one of those ideas that keep popping up! Just when you think scientists and engineers have given up on it, there's a new round of theoretical studies that assert how it could be done. You might say that the Space Elevator is an idea that's too good to let go of.

Considering the benefits involved, this should come as no surprise. Granted, the cost in terms of money, resources, and time would be considerable, as are the engineering and logistical challenges involved. But for the one-time price of creating this megastructure, we would be able to realize space-based solar power, habitats in orbit, cities on the Moon and Mars, and more!

It would be no exaggeration at all to say that a Space Elevator would allow humanity to "build a road to space" (as Jeff Bezos says) or become "an interplanetary species" (as Elon Musk says). Basically, any and all plans for harnessing the resources of space, saving Earth from climate change, and settling all across the Solar System could be much easier to realize.

In a previous article, we took a look at the history of the concept, the many studies that have been conducted, and the handful of attempts that have been made. However, there have been considerable developments in recent years that merit attention all on their own. And the exciting thing is, they just might lead to a Space Elevator in our lifetime.

A brief history

Like most revolutionary ideas for space exploration that have stood the test of time, the Space Elevator can be traced to Russian/Soviet rocket scientist Konstantin Tsiolkovsky (1857-1935). Known as one of the "founding fathers" of rocketry and astronautics, Tsiolkovsky is credited with the formulation of the "Rocket Equation" and the basic design from which most modern rockets are derived.

Other proposals made by Tsiolkovsky included rockets with steering thrusters, multistage boosters, rotating pinwheel space stations (which would simulate gravity), airlocks, and closed-cycle systems to provide food and oxygen for space habitats. In addition, he also conceived of a structure that reached all the way to geostationary orbit (GSO), or an altitude of 22,236 mi (35,786 km).

However, Tsiolkovsky's version of the idea called for a compression structure, which was inspired by his visit to Paris in 1895, where he witnessed the Eiffel Tower for the first time. Tsiolkovsky himself noted that this was an unrealistic idea since no known material was strong enough to support its own weight when standing so tall.

In 1959, Soviet engineer Yuri Artsutanov proposed a more practical version of the idea (what he called an "Electric Train to the Cosmos") by suggesting that a station be deployed in GSO and a tension structure be deployed downward. This "tether" would connect the station to the surface and allow for payloads to be lifted into orbit using very little energy compared to conventional rockets.

This same concept was proposed by four American engineers in 1966, who independently came to the same conclusions regarding a suspension structure. Their version of the reinvented concept was known as a "Sky-Hook," which popularized the idea among aerospace engineers and scientists in the United States.

In all cases, the design called for a megastructure consisting of a base (or "Anchor") attached to a mobile platform at sea or a stationary one on land. A suspended cable (or Tether) would connect the base to a Counterweight in space, which could be a captured asteroid or a spaceport positioned beyond GSO (or a combination thereof).

Delivering payloads and people to and from space would be a series of Climbers (or cable cars), the design of which would vary based on the number of cars deployed on the tether and the design of the tether itself. These cars would be powered by means of solar panels, nuclear reactors, and wireless or direct energy transfer.

Alas, the same problem that stumped Tsiolkovsky would go on to stump proponents of suspension elevators for decades. No known material was ever strong enough to support an object in orbit.

The trouble with tethers

Until very recently, every theoretical study concerning Space Elevators always hit a wall when it came to the question of what material would be used to make the tether. In all cases, the tensile strength-to-weight ratio was never high enough to ensure that the structure wouldn't break under the strains placed on it by Earth's gravity and its rotation.

As Arthur C. Clarke summarized in his address to the 30th International Astronautical Congress (IAC) in 1979, titled "The Space Elevator: 'Thought Experiment, or Key to the Universe?'":

"How close are we to achieving this with known materials? Not very. The best steel wire could manage only a miserable 31 mi (50 km) or so of vertical suspension before it snapped under its own weight. The trouble with metals is that, though they are strong, they are also heavy; we want something that is both strong and light. This suggests that we should look at modern synthetic and composite materials. Kevlar... for example, could sustain a vertical length of 124 mi (200 km) before snapping - impressive, but still totally inadequate compared with the 3100 (5000) needed."

Based on various assessments, the material involved would need to have a strength of at least 100 gigapascals (GPa) to withstand the stresses involved. For comparison, A36 structural steel has a tensile strength of around 550 MPa, or roughly 1/180th the strength required. Throughout the latter half of the 20th century, no known material (natural or synthetic) was up to the task.

When he proposed his "Electric Train," Artsutanov theorized that the cable could be built from known synthetic materials, but which had only been produced in tiny quantities so far. The initial cable, he said, would measure one millimeter at the Earth's surface and extend to an altitude of 31,068 mi (50,000 km) (around 8,700 mi or 14,000 km beyond GSO).

This extra length would provide the additional mass needed to keep the whole system under tension. From there, Artsutanov proposed using the initial cable to multiply itself until 1000 cables were clustered together. He also proposed that the cable thickness be tapered, where it was thinner at ground level and thickest at GSO to make sure the stress remained constant.

In their "Sky-Hook" proposal, Isaacs et al. also proposed that the tether's thickness would need to be thinnest at the Earth (one five-hundredth of a centimeter) at taper outwards. They also briefly considered a number of materials — including quartz, graphite, beryllium, and even diamond — but determined that none were strong enough.

With the development of carbon nanotubes in the 1990s, there was revitalized interest in the concept. This led David Smitherman of the NASA Advanced Concepts Office (ACO) to propose that these materials could make a space elevator feasible. He presented these findings at the Advanced Space Infrastructure Workshop held at the Marshall Space Flight Center in June of 1999.

These were also published as a report in 2000 titled "Space Elevators: An Advanced Earth-Space Infrastructure for the New Millennium." According to Smitherman, the lightest and strongest materials that were readily available were graphite-epoxy composites, but carbon nanotubes (allowing for mass production) would be far better suited:

"If the space elevator was assumed to be a tapered, solid un1iform structure using the strongest composite materials available today (Spectra or PBO graphite-epoxy), the diameter at GEO would be 1.24 mi (2 km) and would taper down to 1 mm at the Earth's surface. The mass of the tethered structure would total approximately 60×10¹² tons. If carbon nanotubes can be made into continuous structural members, then the diameter at GEO would potentially be as small as 0.26 mm, 0.15 mm at the Earth's surface; and the total tether mass would be only 9.2 tons."

However, this was based on conservative estimates of the tensile strength required, which he claimed was roughly 62.5 GPa. Furthermore, his assessment of the strength of carbon nanotubes was rather optimistic, saying, "the actual strength of a carbon nanotube rope may be much higher than that."

This optimistic assessment was repeated by Bradley C. Edwards, who performed a feasibility study in 2000 with support from the NASA Institute for Advanced Concepts (NIAC). In his final report, titled "The Space Elevator," he offered the following assessment:

"[Carbon nanotubes] have the promise of being the strongest material yet discovered. This strength, combined with the material's low density, makes it critically important when considering the design of a space elevator. The tensile strength of carbon nanotubes has been theorized and simulated to be 130 GPa compared to steel at <5 GPa and Kevlar at 3.6 GPa. The density of the carbon nanotubes (1300 kg/m³) is also lower than either steel (7900 kg/m³) or Kevlar (1440 kg/m³)."

In 2003, Edwards followed up on this paper with the NIAC Phase II Final Report. Once again, he expressed optimism that a Space Elevator could be built using then-available technology and stressed that everything hinged on finding a suitable material for the tether and that carbon nanotubes were the best candidate.

Alas, when these reports were published, mass production was the major stumbling block for carbon nanotubes. Simply put, these structures are "grown," not machine-produced, and are limited in length. The current record for single-tube growth still stands at just under 20 inches (50 cm) and 5.5 inches (14 cm) for "forests" of them.

What's more, of those tubes that have been produced, their tensile strength has not measured up to theoretical or simulated results. Even worse, the hexagonal covalent bonds that give carbon nanotubes their high tensile strength also make them prone to fraying when placed under extreme stress.

The efforts to realize a Space Elevator effectively stalled at this point, roughly one year before graphene was isolated for the first time.

New materials

Because of the issue with carbon nanotubes, proponents of Space Elevators tended to move in one of two directions after 2003. On the one hand, some accepted that the material challenges would not be solved anytime soon and refocused their efforts on proposing elevators for other celestial bodies — the most notable being the Lunar Space Elevator.

Others placed their hopes on supermaterials that (until recently) were still in the theoretical stage. In recent years, many of these materials have moved from the theoretical to the production phase. Examples include nanodiamond filament and (more importantly) graphene.

Graphene is an allotrope of carbon consisting of single layers of atoms arranged in a honeycomb lattice nanostructure. The name is derived from "graphite," a crystalline form of carbon with its atoms arranged in a hexagonal structure, with the suffix -ene to indicate that the material contains numerous bonds.

The study of graphene grew from experiments with graphite oxide in the mid-19th century. By the mid-20th century, scientists began to theorize about the existence of graphene as a single-layer structure of graphite. Since the early 2000s, scientists have learned a great deal about this material's properties and potential applications.

One such individual is Adrian Nixon, a Chartered Chemist, member of the Royal Society of Chemistry, a Strategic Advisory Board member of the international space transportation association StellarModal, and board member of the International Space Elevator Consortium ISEC (ISEC).

Nixon is also the founder and a board member of Nixene Publishing and the editor of its flagship publication — the Nixene Journal. This journal is an affiliate member of the University of Manchester's Graphene Engineering Innovation Centre (GEIC) — an engineering center that specializes in the rapid development and scaling-up of graphene and other 2D materials.

In March of 2021, Adrian and his colleagues were commissioned by the Foundation for the Future (a bipartisan political action committee) to create a report¹ on the state of graphene for the U.S. Government and policymakers.

As Nixon told Interesting Engineering, graphene was considered an impossible material until a few years ago. In 2004, however, researchers at the University of Manchester isolated graphene for the first time. This led to the field of graphene and 2D materials becoming a reality and for the University of Manchester to become one of the key centers for research.

"The National Graphene Institute (NGI) does the basic scientific research, the Graphene Engineering Innovation Centre (GEIC) does the applied research and turns the science into technology and then helps bridge 'the valley of death' for taking the technology and helping it scale up to become industrially commercial," said Nixon.

Over time, new techniques emerged that can produce single-crystal graphene in sheets centimeters in scale, not just microns. Much of the credit for this goes to Alfonso Reina and his colleagues from MIT, who demonstrated how graphene could be produced using the chemical vapor deposition (CVD) method in 2009.

Since then, the CVD method, which is relatively low-cost and scalable, has developed from a batch process to a continuous industrial process. However, it was not until about a decade later that graphene was considered a possible tether material for a space elevator.

In 2021, Adrian Nixon, Debbie Nelson, and Rob Whieldon had the opportunity to brief NASA on the potential of graphene at the Commercial Space Lecture Series — a weekly teleconference meeting where NASA and representatives from the commercial space community come together to discuss mutual concerns, challenges, and possibilities.

The presentation, titled "Impossible to Industrial in 17 years," showed how graphene had progressed from theory, to the point where it could be mass-produced, in a little over a decade and a half. As they indicated, the techniques for the industrial manufacturing of graphene had increased in both scale and speed².

At present, it has reached the point where kilometer-scale continuous graphene fibers can be produced. And researchers at MIT have developed a continuous roll-to-roll technique that can create large sheets of graphene at a rate of around 6.5 feet (2 meters) per minute. What's more, when made as single-crystal sheets, graphene has a tensile strength of around 130 GPa, or 236 times as strong as steel.

¹Nixon, A., Whieldon, R., and Nelson, D., "Graphene: Manufacturing, Applications and Economic Impact." 1st ed. Manchester: Nixene Publishing (2021).

²Nixon, A. "The graphene and graphite landscape: Indications of unexplored territory." Nixene Journal, Vol. 5, No. 10, 8-19 (2021).

A new vision for space

As noted in a previous article, the potential benefits of a space elevator are numerous and profound. According to a study conducted by the University of Colorado, the cost of sending payloads to space using a Space Elevator could be as little as $113 per lb ($250 per kg). This is five to ten times cheaper than what it costs to send payloads and crews to space today, using modern reusable rockets.

It's also seventy-four times cheaper than what it cost to go to space between 1970 and 2000, using conventional rockets and launch systems. But these benefits increase exponentially when you consider the types of payloads this will allow for, not to mention the environmental benefits of a system that does not rely on chemical propellants.

The overall architecture the ISEC is envisioning (called the "Galactic Harbor") goes beyond the creation of a single Space Elevator, though. According to their 2020 ISEC position paper, titled "Space Elevators are the Transportation Story of 21st Century," their plan is to create a family of six elevators built in pairs in three locations around the planet.

This would include two-elevator Galactic Harbor installations in the Atlantic Ocean, Indian Ocean, and the Pacific Ocean. This architecture also entails the cooperative use of rockets and space elevators to create a space transportation infrastructure that would enable interplanetary travel by the second half of the century.

The details of this architecture were spelled out by Dr. Swan and his colleagues in a 2020 ISEC position paper titled "Space Elevators are the Transportation Story of 21st Century." Among the benefits they cite, a Space Elevator would:

• Enable endless opportunities for commercial enterprises, research, and travel

• Move 170,000 MTs of cargo a year to Geostationary Earth Orbit (GEO) and beyond

• Enable the creation of space stations at GEO, Lagrange Points, and beyond

• Allow for rapid transit to orbit (7.76 km/sec) routinely, safely, and robustly

• Allow fast transit to Mars (minimum of 61 days to 400+ days)

• Allow missions to launch for Mars every day (not just every 26 months)

• Create no rocket exhaust or contribute to global warming

• Not add any additional space debris

The environmentally-friendly aspect of this architecture is paramount. By relying on electricity alone — which can be provided by solar, induction, nuclear, or combination thereof — the Galactic Harbor would be able to place payloads in orbit that would otherwise require dozens (or hundreds) of rocket launches.

With the growth of the commercial space sector and renewed interest in space exploration, countries like the U.S., China, India, and others are hoping to drastically increase the number of launches per year they conduct. Meanwhile, visionaries like Elon Musk and Jeff Bezos are proposing major projects (building a city on Mars, habitats in space, etc.) that would require thousands of launches per year.

A single rocket launch can release up to 300 tons of carbon dioxide into the upper atmosphere, where it can remain for years. While this falls considerably short of passenger flights, which deposited a total of 900 million metric tons into the atmosphere in 2018 alone, scaling up the number of launches conducted every year will increase humanity's carbon footprint considerably.

Other "green" aspects of this technology are the way it will practical creation of technology like space-based solar arrays. For some time, scientists have considered this to be one of the most promising means to combat global warming. By being able to lift heavy payloads to orbit for pennies on the dollar and without depositing tons of carbon in the atmosphere, Space Elevators could also help solve the climate crisis.

As for the cost of manufacturing such a megastructure, that may be the most encouraging news of all. Dr. Swan, Nixon, and colleagues estimate it can be done for a very reasonable $18 billion, less than what NASA currently spends annually. What's more, their projections indicate that production could begin before the end of the next decade. Said Dr. Nixon:

"If we push the manufacturing cost assumption down to one cent per square meter, then we come in at $3.6 billion for the manufacture of the tether. Now we have a long way to go to get there, but the experts see the future, the need for space elevators, and the [demand for] transportation infrastructure. As such, this leaves you with $14.4 billion for the rest of the Space Elevator segments."

"One key is that the material prices are falling, and the technology is accelerating towards real production techniques for industrial uses," added Dr. Swan. "This external (from SE) demand is pushing the tether production technologies. We, the SE people, love what is going on and see the material being ready for us in time for an operational date of about 2037."

#### Space solves coop, resources, and inevitable ex risks.

Green 21 [Brian Patrick Green, director of technology ethics at the Markkula Center for Applied Ethics, Santa Clara University, “Space Ethics,” 2021, Rowman, pp. 5, EA]

Space activities are also a key way of promoting international cooperation and global awareness. While the international competition of the “space race” fueled one nation all the way to the Moon, shortly afterward, the Apollo-Soyuz program announced a thawing of this competition and commenced a period of cooperation between the United States of America and the Union of Soviet Socialist Republics. Currently the International Space Station continues this cross-national cooperation in space, with five space agencies (representing Canada, the European Space Agency nations, Japan, Russia, and the United States) participating. In addition to cooperation in space exploration itself, the perspective given from space has itself helped to produce some feelings of unity on Earth, with the famous “Blue Marble” and “Earthrise” pictures showing Earth’s oneness and scientific discoveries supported by space science, such as those related to climate change, helping to promote international cooperation to address these problems.

Gaining access to new critical resources may be another reason to go into space. Earth is a finite planet, and certain elements on Earth are very rare in the planetary crust, particularly platinum group metals that are very dense and siderophilic (iron-loving) and so have tended to sink toward the core over the natural history of the planet. However, asteroids and other objects in space (for example, planets, comets, and moons) can sometimes have these elements in abundance and in more available locations, making them potentially excellent sources for these valuable materials. Now-defunct asteroid-mining startup Planetary Resources once estimated that one “platinum-rich 500 meter wide asteroid contains . . . 1.5 times the known world-reserves of platinum group metals (ruthenium, rhodium, palladium, osmium, iridium, and platinum).” 7 In addition to returning elements to a resource-hungry Earth, further exploration and development of space will require access to resources that are not purely sourced from Earth. In particular, it will be necessary to gain access to water, which is relatively rare in the inner solar system and which would be far too costly to transport in any significant amounts from the Earth’s surface.

Another reason that humans may want to explore space would be to create a “backup Earth” to hedge against global catastrophic and existential risks (risks that may cause widespread disaster or human extinction, respectively) on our home planet. 8 Earth has always been a dangerous place for humans, with asteroid impacts, supervolcanic eruptions, pandemic disease, and other natural hazards threatening civilization. Now, in addition to these natural threats, human-made hazards such as nuclear weapons, climate change, biotechnology, nanotechnology, and artificial intelligence may threaten not only the viability of technological civilization but perhaps the survival of human life itself. A serious global-scale catastrophe could set back civilization many decades or centuries, and the worst disasters could cause human extinction. In one scenario, in which 100 percent of humanity dies, all of human effort for all of history would be for nothing. However, were the same global catastrophe to happen to Earth, yet humans were a multiplanetary species with just one self-sustaining settlement off-Earth, it would not result in the end of human civilization or human extinction. Instead while the same unimaginable fate would befall the Earth (certainly no mere triviality, with perhaps the deaths of 99.999 percent of all humans and possibly the destruction of the ecosphere and everything in it), at least all of human and planetory history would not be for nothing. Human life and culture would go on elsewhere, as well as other Earth species. This is a dire fate, but less terrible than the first.

#### Climate change causes extinction through tipping points and nuclear war – death spirals make resilience impossible

Beard 21 [S.J. Beard, Lauren Holt, Asaf Tzachor, Luke Kemp, Shahar Avin, Phil Torres, and Haydn Belfield, \* Centre for the Study of Existential Risk, “Assessing climate change’s contribution to global catastrophic risk,” 2021, *Futures*, Vol. 127, https://doi.org/10.1016/j.futures.2020.102673, EA – Table 1 & Fig. 2 Omitted]

3.1. Climate change and planetary boundaries

While most of the impacts of climate change so far have fallen within the range of what was experienced during the Holocene, the rate of change is faster than in the Holocene and we are now beginning to see climate change push beyond these boundaries. In the latest edition of the planetary boundaries’ framework, climate change is placed in the zone of increasing risk, implying that while this boundary has been breached, there remains some potential for normal functioning and recovery (Steffen et al., 2015). It thus lies between what the authors identify as the ‘safe zone’ and other ‘high risk’ transgressions, such as disruption to the biochemical flows of nitrogen and phosphorus and loss of biosphere integrity.

As part of their discussion of BRIHN Baum and Handoh (2014) note that climate change is the planetary boundary for which the risk to humanity has received most meaningful consideration and they suggest that this attention is deserved. Yet little research attention has been paid to climate change’s extreme or catastrophic effects. Kareiva and Carranza (2018) argue that, despite currently falling outside of the area of high risk, climate change has the clear potential to push humanity across a threshold of irreversible loss by “changing major ocean circulation patterns, causing massive sea-level rise, and increasing the frequency and severity of extreme events… that displace people, and ruin economies.” Even if humanity was resilient to each of these individual impacts, a global catastrophe could occur if these impacts were to occur rapidly and simultaneously.

One scenario that has received comparatively more attention is that of the global climate crossing a tipping point that would trigger environmental feedback loops (such as declining albedo from melting ice or the release of methane from clathrates) and cascading effects (such a shifting rainfall patterns that trigger desertification and soil erosion). After this point, anthropogenic activity may cease to be the main driver of climate change, making it accelerate and become harder to stop (King et al., 2015).

Other scenarios can be discerned from the numerous historical cases in which the modest, usually regional, climatic changes experienced during the Holocene have been implicated in the collapse of previous societies, including the Anasazi, the Tiwanaku, the Akkadians, the Western Roman Empire, the lowland Maya, and dozens of others (Diamond, 2005, Fagan, 2008). These provide a precedent for how a changing climate can trigger or contribute to societal breakdown. At present, our understanding of this phenomena is limited, and the IPCC has labelled its findings as “low confidence” due to a lack of understanding of cause and effect and restrictions in historical data (Klein et al., 2014). Further study and cooperation between archaeologists, historians, climate scientists and global catastrophic risk scholars could overcome some of these limitations by identifying how the impacts of climate change translate into social transformation and collapse, and hence what the impacts of more rapid and extreme climatic changes might be. There is also the potential for larger studies into how global climate variations have coincided with collapse and violence at the regional level (Zhang, Chiyung, Chusheng, Yuanqing, & Fung, 2005; Zhang et al., 2006). However, these need to be interpreted and generalized with care given the differences between pre-industrial and modern societies.

Societies also have a long history of adapting to, and recovering from, climate change induced collapses (McAnany and Yoffee, 2009). However, there are two reasons to be sceptical that such resilience can be easily extrapolated into the future. First, the relatively stable context of the Holocene, with well-functioning, resilient ecosystems, has greatly assisted recovery, while anthropogenic climate change is more rapid, pervasive, global, and severe. Large-scale states did not emerge until the onset of the Holocene (Richerson, Boyd, & Bettinger, 2001), and societies have since remained in a surprisingly narrow climatic niche of roughly 15 mean annual average temperature (Xu, Kohler, Lenton, Svenning, & Scheffer, 2020). A return to agrarian or hunter-gatherer lifestyles could thus have more devastating and long-lasting effects in a world of rapid climate change and ecological disruption (Gowdy, 2020).7 Second, modern human societies may have developed hidden fragilities that amplify the shocks posed by climate change (Mannheim 2020) and the complex, tightly-coupled and interdependent nature of our socio-economic systems makes it more likely that the failure of a few key states or industries due to climate change could cascade into a global collapse (Kemp, 2019).

A third set of plausible scenarios stem from climate change’s broader environmental impacts. Apart from being a planetary boundary of its own, Steffen et al. (2015) point out that climate change is intimately connected with other planetary boundaries (see Table 1). Climate change is thus identified by the authors as one of two ‘core’ boundaries with the potential “to drive the Earth system into a new state should they be substantially and persistently transgressed.” This transformative potential was elaborated on in subsequent work exploring how the world could be pushed towards a ‘Hothouse Earth’ state, even with anthropogenic temperature rises as low as 2 °C (Steffen et al., 2018).

The connection between climate change and biosphere integrity (the survival of complex adaptive ecosystems supporting diverse forms of life) is particularly strong. The IPCC is highly confident that climate change is adversely impacting terrestrial ecosystems, contributing to desertification and land degradation in many areas and changing the range, abundance and seasonality of many plant and animal species (Arneth et al., 2019). Similarly, the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) has reported that climate change is restricting the range of nearly half the world’s threatened mammal species and a quarter of threatened birds, with marine, coastal, and arctic ecosystems worst affected (Diaz et al., 2019). According to one estimate, climate change could cause 15–37 % of all species to become ‘committed to extinction’ by mid-century (Thomas et al., 2004).

Disruption to biosphere integrity can have profound economic and social repercussions, ranging from loss of ecosystem services and natural resources to the destruction of traditional knowledge and livelihoods. For instance, desertification, which threatens a quarter of Earth’s land area and a fifth of the population, is already estimated to cost developing nations 4–8 % of their GDP (United Nations, 2011). Many other rapid regime shifts involving loss of biosphere integrity have been observed, including shifts in arid vegetation, freshwater eutrophication, and the collapse of fish populations (Amano et al. 2020). There is a theoretical possibility of still more profound regime shifts at the global level (Rocha, Peterson, Bodin, & Levin, 2018). However, the contribution of loss of biosphere integrity to GCR is yet to be assessed. Kareiva and Carranza (2018) argue that it is unlikely to threaten human civilization, due both to a lack of plausible mechanisms for this threat and the fact that “local and regional biodiversity is often staying the same because species from elsewhere replace local losses.” However, in their classification of GCRs, Avin et al. (2018) suggest the potential for ecological collapse to threaten the safety boundaries of multiple critical systems with diverse spread mechanisms at a range of scales, from the biogeochemical and anatomical to the ecological and sociotechnological. Note that both these studies were conducted for largely conceptual purposes and should not be taken as rigorous analyses of this risk, this topic warrants further investigation.

3.2. Classifying climate change’s contributions to global catastrophic risk

Climate change’s contribution to GCR goes well beyond its impact on the earth system. Taking Avin et al.’s list of critical systems, we note that previous studies have mostly focused on the effects of climate change on physical and biogeochemical systems (e.g. global temperature and sea-level rise) or the lower-level critical systems that are most directly related to human health and survival (e.g. Heath Stress). However, these represent a very limited assessment of risk as it only accounts for climate change as a direct hazard/ threat and our "ontological" vulnerabilities to it. A more comprehensive risk assessment must consider the higher-order critical systems threatened by climate change passively (through a lack of alternatives) and actively (through intentional design).

The probability of a global catastrophe is higher when sociotechnological and environmental systems are tightly coupled, creating a potential for reinforcing feedback loops. If environmental change produces social changes that perpetuate further environmental change, then this could actively work against our efforts at adaptation. When this change has the potential to produce significant harm, via human vulnerabilities and exposure, we describe such loops as ‘global systems death spirals.’ These spirals could produce self-perpetuating catastrophes, whereby the energy and resources required to reverse or adapt to collapse are beyond the means of dwindling human societies. Feedback loops like this could thus create tipping points beyond which returning to anything like present conditions would become extremely difficult. Global systems would shift to very different states in which the prospects for humanity would likely be bleaker.

In the rest of this section, we explore just one potential spiral, between an ecological system (the biosphere) and two sociotechnological systems (the human food and global political systems). We explore each system and its interactions. Fig. 2 illustrates our model of this spiral.

3.2.1. The human food system

Climate change’s impact on biosphere integrity (discussed in the previous section) could harm the human food system due to loss of ecosystem services, disruption of the cycles of water, nitrogen and phosphates, and changes in the dynamics of plant and animal health (B´elanger & Pilling, 2019). Crossing this planetary boundary is already having severe implications for global food security, including loss of soil fertility and insect-mediated pollination (Diaz et al., 2019).

Systems for the production and allocation of food are already enduring significant stress. The sources of stress include climate change, soil erosion, water scarcity, and phosphorus depletion. The natural resource base, arable land and freshwater upon which food production rely are being degraded. While global food productivity and production has increased dramatically over the past century to meet rising demand from an expanding global population and rising standard of living, these constraints and risks are increasing the vulnerability of our global food supply to rapid and global disruptions that could constitute global catastrophes (Baum, Denkenberger, Pearce, Robock, & Winkler, 2015).

Climate change will further reduce food security in at least three interconnected ways. First, it will affect growing conditions, including direct threats to agricultural yields from heat, humidity, and precipitation in many regions; although initially improving conditions in some (Lott, Christidis, & Stott, 2013). Second, it will increase the range of agricultural pests and diseases (Harvell et al., 2002). Third, it will increase the occurrence of extreme weather events that impair the integrity of food production and distribution networks, from production to harvest, post-harvest, transport, storage, and distribution, thereby increasing our vulnerability and exposure to supply shocks (Bailey et al., 2015). The IPCC estimates, with medium confidence, that at around 2 °C of global warming the risk from permafrost degradation and food supply instabilities will be ‘very high’, while at around 3 °C of global warming the risk from vegetation loss, wildfire damage, and dryland water scarcity will also be very high (Arneth et al., 2019). Very few studies have considered the impacts of 4 °C of global warming or more; however, the IPCC highlighted one study finding that any potential agricultural gains from climate change will be lost by this point and there could be a decrease of 19 % in maize yields and 68 % in bean yields in Africa, an 8 % reduction in yields in South Asia, and a substantial negative impact on fisheries by 2050 (Porter et al., 2014). Furthermore, multiple extreme weather events could disrupt food distribution networks (Bailey and Wellesley, 2017).

While there are opportunities to adapt, disruption to the entire global food system cannot be resolved via food aid alone. Indeed, there is the potential for isolationist or heavy-handed responses that would do more harm than good. Given the high degree of interconnectivity and feedback within the global food system, our initial research suggests that any one of these climate change effects could trigger scenarios that would critically undermine the global food system’s ability to meet the minimum nutrition for well-being; making food security for all an unachievable goal, let alone rise to the challenge of continuing to grow (A. Tzachor, 2019, 2020); this would constitute what Kuhlemann (2019) terms a ‘threshold of significance.’

3.2.2. The global political system

Disrupting the global food system can create and exacerbate conflict and state failure (Brinkman & Hendrix, 2011). However, once again, this needs to be seen against the backdrop of a global political system under stress, with climate change as a significant contributing factor. Climate change influences political systems in many ways, from being a locus of activism and a stimulus for reform to driving rising inequality and population displacement (Arneth et al., 2019; Diffenbaugh & Burke, 2019). This is not a new phenomenon, changes in the climate are believed to have contributed to conflict between people and states throughout human history, driven by resource scarcity, population displacement, and inequality (Lee, 2009; Mach et al., 2019). As part of a comprehensive risk assessment of climate change, King et al. (2015) conducted an extensive literature review on climate change and conflict and used this to inform a series of international wargaming exercises. These found that climate change is expected to increase international conflict while highlighting the role that population displacement, state failure, and water and food insecurity would play in this (see also Mach et al., 2019; Natalini, Jones, & Bravo, 2015).

Quantitative studies of the impact of climate change on violence and conflict have provided more mixed results. A survey of empirical studies by Detges (2017) found that there may be multiple differing trends: extreme weather events appear to have more significant effects on violence than do long-term climate trends, while levels of small-scale conflict and interpersonal violence appear to be more affected than large-scale conflicts and international war. Empirical studies also highlight how climate change’s impact on conflict is predominantly as a risk multiplier and intensifier. Thus, climate change may contribute more by increasing our vulnerability to other conflict-inducing factors, such as loss of livelihood, forced migration, environmental change, and food insecurity, than by acting as a direct cause of conflict (Abel, Brottrager, Cuaresma, & Muttarak, 2019; Hsiang, Burke, & Miguel, 2013; Schubert et al., 2008).8

Of particular relevance to GCR is the effect of climate change on the risk of nuclear war (Parthemore, Femia, & Werrell, 2018). However, to our knowledge, this has never been rigorously assessed, although the potential is certainly there. One recent model of the risk of nuclear war highlighted how varied, and common, incidents with the potential to trigger a nuclear exchange are (Baum, de Neufville, & Barrett, 2018). It outlined 14 different causal pathways to an exchange, including the escalation of conventional wars and international crises, human error, and the emergence of new non-state actors. For all but two of these, they identify historical examples of potentially precipitating incidents, with 60 incidents in total (i.e. a little less than one a year). This suggests that the absence of nuclear war was less due to a lack of potential causes, tan the global political system’s ability to defuse them. Thus, the real significance of climate change may be its capacity to undermine this system: the combination of social, political, and environmental disruption, a lingering sense of global injustice, and rising food, water, and energy insecurity could increase the probability that crises escalate or that false alarms are mistaken for genuine emergencies. This topic needs further research.

3.3. The emergence of a global systems death spiral

Yet, we should not conclude that a nuclear exchange is the only, or even most likely, scenario in which political instability might produce a global catastrophe. Conflict and political instability, even of moderate severity, are themselves two of the most significant drivers of biodiversity loss due to breakdowns in monitoring, governance, and (public and private) property rights (Baynham-Herd, Amano, Sutherland, & Donald, 2018). This closes a potentially reinforcing feedback loop between loss of biosphere integrity, food insecurity and political breakdown.

The mechanisms by which these cascading failures might spread include many of the natural, anthropogenic, and replicator effects identified by Avin et al. (2018), making them harder to contain. At the natural level, climate change involves changes to the global atmospheric and biogeochemical systems and poses other naturally spreading harms, like global ecological collapse. At the anthropogenic level, the global interconnectedness of sociotechnological systems means that while small shocks are easier to recover from, larger shocks can be harder to contain and control. Finally, biological and informational replication can also spread the negative impacts of climate change, from vector-borne diseases and invasive species to climate fatalism and dangerous geoengineering technologies.

Given these numerous spread mechanisms, critical system failures could precipitate global catastrophes. Furthermore, the spiral we have explored is unlikely to be the only set of interlinked systemic disruptions that climate change could initiate (other death spirals could involve bio-insecurity and disease), nor are these the only causal connections between these three systems. Until we understand the nature of such death spirals better, we must act cautiously. We now turn to consider what this would mean.

#### Low-cost graphene key to water desalination – solves shortages.

Goldin 14 [Ian Goldin, Professor of Globalisation and Development at the University of Oxford, and Director of the Oxford Martin School, University of Oxford, “Innovation: Managing Risk, Not Avoiding It,” 2014, *Annual Report of the Government Chief Scientific Adviser*, http://eprints.lse.ac.uk/64539/1/14-1190b-innovation-managing-risk-evidence.pdf, EA]

Recently discovered properties of absorption at the nano-scale also offer substantial applied value. The low-cost nanocarbon graphene can be used as a filter to remove salt from saltwater, sifting out the salt ions while letting the water molecules pass through. This method could be used to desalinate seawater, and improve the prospects for recycling, a key to overcoming global water shortages in an era where already 780 million people do not have access to clean, safe drinking water.

#### Otherwise goes nuclear by 2022.

Jamail 19 [Dahr Jamail, Recipient of the Martha Gellhorn Award for Journalism and 2018 Izzy Award for Outstanding Achievement in Independent Media, Contributing Writer, Board of Advisers Member and Former Staff Reporter at Truthout, “The World Is on the Brink of Widespread Water Wars,” 02/11/19, *Truthout*, https://truthout.org/articles/the-world-is-on-the-brink-of-widespread-water-wars/]

Given the Arctic realities and the looming Blue Ocean Event (once the Arctic loses its summer sea ice, at which point global climate and weather patterns become profoundly destabilized) possibly as soon as 2022, things are really going to amplify.

Likely we will look back on January 2019 as when it was moderate and “easy” compared to the challenging heat and drought on the way.

Mark’s words should be a call to attention, and a call to action. The plight of farmers in Australia illustrates a larger reality: As planetary temperatures continue to increase and rainfall patterns shift due to human-caused climate disruption, our ability to grow crops and have enough drinking water will become increasingly challenged, and the outlook is only going to worsen.

We Have Been Warned

The most recent United Nations Intergovernmental Panel on Climate Change report warned of increasingly intense droughts and mass water shortages around large swaths of the globe.

But even more conservative organizations have been sounding the alarm. “Water insecurity could multiply the risk of conflict,” warns one of the World Bank’s reports on the issue. “Food price spikes caused by droughts can inflame latent conflicts and drive migration. Where economic growth is impacted by rainfall, episodes of droughts and floods have generated waves of migration and spikes in violence within countries.”

Meanwhile, a study published in the journal Global Environmental Change, looked at how “hydro-political issues” — including tensions and potential conflicts — could play out in countries expected to experience water shortages coupled with high populations and pre-existing geopolitical tensions.

The study warned that these factors could combine to increase the likelihood of water-related tensions — potentially escalating into armed conflict in cross-boundary river basins in places around the world by 74.9 to 95 percent. This means that in some places conflict is practically guaranteed.

These areas include regions situated around primary rivers in Asia and North Africa. Noted rivers include the Tigris and Euphrates, the Indus, the Nile, and the Ganges-Brahmaputra.

Consider the fact that 11 countries share the Nile River basin: Egypt, Burundi, Kenya, Eritrea, Ethiopia, Uganda, Rwanda, Sudan, South Sudan, Tanzania and the Democratic Republic of Congo. All told, more than 300 million people already live in these countries, — a number that is projected to double in the coming decades, while the amount of available water will continue to shrink due to climate change.

For those in the US thinking these potential conflicts will only occur in distant lands — think again. The study also warned of a very high chance of these “hydro-political interactions” in portions of the southwestern US and northern Mexico, around the Colorado River.

India and Pakistan

Potential tensions are particularly worrisome in India and Pakistan, which are already rivals when it comes to water resources. For now, these two countries have an agreement, albeit a strained one, over the Indus River and the sharing of its water, by way of the 1960 Indus Water Treaty.

However, water claims have been central to their ongoing, burning dispute over the Kashmir region, a flashpoint area there for more than 60 years and counting.

The aforementioned treaty is now more strained than ever, as Pakistan accuses India of limiting its water supply and violating the treaty by placing dams over various rivers that flow from Kashmir into Pakistan.

In fact, a 2018 report from the International Monetary Fund ranked Pakistan third among countries facing severe water shortages, This is largely due to the rapid melting of glaciers in the Himalaya that are the source of much of the water for the Indus.

To provide an idea of how quickly water resources are diminishing in both countries, statistics from Pakistan’s Islamabad Chamber of Commerce and Industry from 2018 show that water availability (per capita in cubic meters per year) shrank from 5,260 in 1951, to 940 in 2015, and are projected to shrink to 860 by just 2025.

In India, the crisis is hardly better. According to that country’s Ministry of Statistics (2016) and the Indian Ministry of Water Resources (2010), the per capita available water in cubic meters per year was 5,177 in 1951, and 1,474 in 2015, and is projected to shrink to 1,341 in 2025.

Both of these countries are nuclear powers. Given the dire projections of water availability as climate change progresses, nightmare scenarios of water wars that could spark nuclear exchanges are now becoming possible.

#### Scenario 2 is REEs.

#### Rare earth metals (REMs) for renewables are at risk of cartelization – it’s make or break.

Chakarvarty 18 [Ugranath Chakarvarty, mechanical engineer; Independent Energy and Development Consultant; UNCTAD Empretec Facilitator, “Renewable Energy Materials Supply Implications,” 2018, *IAEE Energy Forum*, https://www.iaee.org/en/publications/newsletterdl.aspx?id=455, EA]

A key feature of renewables is the usage of rare earth metals. These metals are critical to the renewable energy technology manufacturing value chain. The name “rare earth” is a consequence of seeming scarcity in 18th century in an ore first discovered near Ytterby, Sweden. However it is the availability of economically extractable concentrations that makes them rare.

Like the oil embargo in the 1970s, there is high risk of other embargos driven by changes in development models, innovation and discovery of resource availability. Even if the cartelization of these critical materials is not as influential as the OPEC phenomenon, the ambitious renewable energy use resulting from many nations pursuing renewable technologies, raises the need for caution on the part of consumers of these materials. For example, the materials used for renewable energy technologies are common to other sectors such as consumer products and defense. This poses a potential for competition as well. Rare earth materials such as dysprosium, neodymium, terbium, europium and yttrium are often critical components of renewable energy hardware. Therefore, in order to maintain a conflict-free sustainable development of global renewable energy it is essential to ensure that the OPEC phenomenon does not repeat in the form of cartelization of these rare earth metals. Application of rare earths in almost all modern technologies today, including the next generation of power generation, makes them a critical parameter when considering global renewable energy development.

In terms of all minerals and metals utilized in the solar value chain, the adjacent listing indicates those which are considered critical in nature, i.e., ones which face supply risk issues.

In fact the use of critical materials is not limited to solar, but also other forms of clean technologies like wind, vehicles, lighting and phosphors. The use of neodymium and dysprosium is essential to make powerful generators used in wind technologies. Neodymium and dysprosium also find use in making motors for vehicles. In order to make Li-ion batteries for plug-in-hybrid electric vehicles, lithium and cobalt are a critical material requirement. Hybrid electric vehicle using NiMH batteries make use of rare earths such as cerium, lanthanum, neodymium and praseodymium. In order to make fuel cells, critical materials such as yttrium, platinum, palladium and some other platinum group materials are required as catalysts and separators. Lighting (solid state and fluorescent) use rare earths such as yttrium, cerium, lanthanum, europium and terbium as part of the phosphors.

Reserves and Production scenario

Historically, Brazil and India were the primary sources of the world’s rare earths found in placer sand deposits until 1948. After the discovery of monazite in large veins of earth in South Africa around the 1950s, it emerged as the dominant supplier of world’s rare earths. The U.S. became a leading source from 1960s to 1980s after the Mountain Mine began processing in California. From 1990s onwards, China became the dominant source of the world’s rare earth materials with a share of over 90 percent.

It is worth looking at the major countries with reserves of rare earths as well as the production trends in order to address the security of supplies for renewable energy technology deployment. In many cases countries with large production capacities hold high reserves while some countries have low production and high reserves. This points towards possibility of large producers of rare earths exhausting their domestic reserves while those holding on to lower production but having large reserves holding greater dominance in the future.

As of 2016, rare earths found their use in diverse applications as follows: catalysts, 55%; metallurgical applications and alloys, 15%; ceramics and glass, 10%; polishing, 10%; and other, 10%.

Conclusion

Ongoing and increased exploitation of metals resources that cater to renewable energy futures shall inevitably reduce the global proven reserves of these materials. This increased critical metal use is the bedrock of modern technologies owing to its uses in a wide range of applications. The rare earths and critical metals which are essential to make solar PV and wind power have a potential of become supply constrained as economically viable concentrations of elements such as neodymium, dysprosium, indium, selenium, tellurium, terbium and gallium are found in only a handful of countries. This could shape a new geopolitics of critical metals and rare earths without which renewable energy technologies cannot be developed. This has consequently resulted in a wide consensus of the potential for the cartelization of producers of these essential metals, as was the case with OPEC.

#### Renewables solve smart cities and critical infrastructure security.

Konstantinou 21 [Charalambos Konstantinou, Senior Member, IEEE, “Towards a Secure and Resilient All-Renewable Energy Grid for Smart Cities,” 2021, *arXiv*, https://arxiv.org/pdf/2101.10570.pdf, EA]

Electric energy systems constitute the backbone of critical infrastructure. National security and economic vitality rely on a safe, secure, and resilient power system. The American electric grid, once considered a marvel of 20th century engineering, has become obsolete in the face of 21st century threats. Our energy grid has numerous shortcomings and can no longer deliver (cyber) secure and (disaster) resilient electric power to businesses and households, leading to an urgent and enormous threat to our society and economy. Vertical power systems with rigid transmission and distribution system control hierarchy have failed repeatedly during extreme threats. Recent studies by the Federal Energy Regulatory Commission (FERC) found that knocking out as 9 of the 55,000 power substations could result in U.S. coast-to-coast blackouts lasting 18 months or more [1]. For example, the Hurricane Michael resulted in 1.7 million power outages along the U.S. Gulf and Atlantic coasts [2]. During June – September 2007, heat waves and forest fires occurred in Greece causing extensive damages to the medium-voltage distribution network and knocking out power in many areas of the country [3]. Recovery from such disasters also costs tens of billions of dollars including time, manpower, and lost economic productivity, and deepen social inequalities. These failures have taught utilities, regulators, and stakeholders that faults cascade across national and continental electric grids, and exacerbating a local phenomenon into a socioeconomic catastrophe. Traditional power systems are prone to such cascading power outages that last long periods of time and are complex and time-consuming to recover – in other words, not secure and resilient. Continuing to operate the electric energy system critical infrastructure using the traditional model is a well-recognized security and resiliency threat and the main barrier for the development of future smart cities.

The integration of photovoltaic (PV) solar systems and wind farms together with other renewable energy sources (RES) into the electric grid, as shown in Fig. 1, helps towards improving security and reliability of the power system during normal operations and enhancing resiliency during and after extreme events. In the first quarter of 2018, solar accounted for 55% of all new generating capacity brought online in the U.S. [4], and Florida alone is expected to add over 8.6 GW of solar generation by 2025. The inclusion of such distributed resources in the form of solar PV, battery-based storage, and demand resources can increase the resiliency to catastrophic events once research efforts would be able to address open system design questions. Examples include how to strategically locate and operate these resources to sustain smart cities infrastructure by guaranteeing continuity or rapid restoration of power to vital loads following large-scale disturbances by formation of adhoc self-contained microgrids in outage situations. In addition, as more and more RES are integrated into power systems, it is projected that offshore oil and gas platforms will be re-used at end-of-life stage for the production of renewable energy (e.g., offshore wind, wave and tidal energy, ocean current energy, ocean-based solar energy, deep-water source cooling, etc.). To thwart the existing problems, a transformational development approach needs to be established, able to develop and build a secure and resilient electric grid for future smart cities. Such development will lead to an electric energy system immune to extreme phenomena while supporting the integration of RES and reducing the dependency on oil drilling into power systems, such as those at the North Sea as well as the Gulf of Mexico and its coastal zone.

#### Smart cities solve sustainable development goals

İkizer 22 [İhsan İkizer, Faculty of Economics, Administrative and Social Sciences, Nişantaşı University, “Smart Cities, Citizen Welfare, and the Implementation of Sustainable Development Goals | Do Smart City Solutions Contribute to the Achievement of the Sustainable Development Goals?: Case of Istanbul,” 2022, IGI Global, EA]

Sustainable development has been an indispensable concept in many disciplines ranging from economics to public administration nearly in the last thirty years. As the years pass, the destructive effects of climate change and environmental degradation are being felt more than ever, and especially policy makers realize that it is not a conceptual or theoretical issue far from the practical life, but a bitter reality. Many important steps have been taken till now in order to ensure that our economic development does not endanger the needs of the future generations, and it does not harm social and cultural development of communities. Among these steps, maybe the most significant one is the Sustainable Development Goals (SDGs), which were adopted by the Heads of States and Governments in the United Nations (UN) in 2015. Although there is no mandatory mechanism that enforces the implementation of the SDGs, the central governments have pledged to achieve them, and some of them have presented their national reviews that indicate their progress.

The problems that are referred in the 17 SDGs have not been caused by just one country, or different levels of governments, or business community, or consumers. Multiple actors in multiple countries have carried the stones that have led to the gigantic challenges that we face today. Therefore, the solution, or in other words the achievement of these 17 SDGs requires joint and coordinated action of the entire world, which means local, regional, national and global partnership among all stake holders, i.e. statutory bodies, NGOs, business community and science community. Partnerships organised at different levels are expected to ensure the participation of people, who are also responsible actors as consumers. After all, these goals have been set for the peace and prosperity of people of this generation and next generations, and awareness among people about the SDGs is a key factor to the success.

Among these actors, local governments emerge as extremely eminent actors for two reasons: more than half of the world population live in cities, and they are the closest statutory bodies to people. It is not realistic to expect full achievement of the SDGs without the active engagement of local governments, as nearly two third of the 169 targets of the SDGs fall directly under the realm of local governments (Sustainable Development Goals and Habitat III: Opportunities for a successful New Urban Agenda, 2015). Although, it is central governments that have designed the SDGs, and monitoring the progress of countries is conducted by the representatives of central governments at ‘High-level Political Forum on Sustainable Development (HLPF)’, local governments are expected to be active actors in the implementation of the SDGs, next to central governments, together with other stake holders.

In order for local governments to be effective actors in this challenging task, principles of good governance as well as translation of the SDGs and the targets into local context seem to be essential. Different cities with different size, development level, needs and features naturally have different strategies to achieve the localised SDGs. However, smart city technologies emerge as significant tools to be integrated into localised strategies for accelerating the achievement of the SDGs, especially the SDG 11, which is on sustainable cities and communities. The need for more effective and efficient use of information and communication technologies in cities has been better comprehended during the Covid-19 pandemic. Today, in many large urban areas, local governments use these technologies in various fields from transportation to waste management, in order to make their cities smarter, healthier and more sustainable. Istanbul, the largest city in Turkey, and a city that is bigger than more than 130 countries in the world, with a population of around 16 million, is among the cities where smart city technologies are being increasingly used day by day. In this chapter, the case of Istanbul will be analysed in terms of its smart city applications, and the contribution of these applications to the SDGs will be analysed. The chapter will start by setting the context of the SDGs and the concept of smart city, which will be followed by the discussion on the positive correlation between smart city technologies and sustainable development. The final part will concretize the discussion on the link between these two concepts through the case of Istanbul.

#### SDGs are leverage points that solve extinction BUT failure causes cascading risks that cumulatively outweigh any single risk, causing extinction

Cernev 20 [Tom Cernev and Richard Fenner “The importance of achieving foundational Sustainable Development Goals in reducing global risk,” 2020, *Futures*, Vol. 115, https://doi.org/10.1016/j.futures.2019.102492]

4. Risks from failure to meet the SDGs

4.1. Cascading failures

Fig. 3 demonstrates that cascade failures can be transmitted through the complex inter-relationships that link the Sustainable Development Goals. Randers, Rockstrom, Stoknes, Goluke, Collste, Cornell, Donges et al. (2018) have suggested that where meeting some SDGs impact negatively on others, this may lead to “crisis and conflict accelerators” and “threat multipliers” resulting in conflicts, instability and migrations. Ecosystem stresses are likely to disproportionately affect the security and social cohesion of fragile and poor communities, amplifying latent tensions which lead to political instabilities that spread far beyond their regions. The resulting “bad fate of the poor will end up affecting the whole global system"(Mastrojeni, 2018). Such possibilities are likely to go beyond incremental damage and lead to runaway collapse.

The World Economic Forums’ Global Risks Report for 2018 shows the top five global risks in terms of likelihood and impact have changed from being economic and social in 2008 to environmental and technological in 2018, and are closely aligned with many SDGs (World Economic Forum, 2018). The report notes “that we are much less competent when it comes to dealing with complex risks in systems characterised by feedback loops, tipping points and opaque cause-and-effect relationships that can make intervention problematic”. The most likely risks expected to have the greatest impact currently include extreme weather events natural disasters, cyber attacks, data fraud or theft, failure of climate change mitigation and water crises.

These are represented in Fig. 3 by the following exogenous variables. “Climate change” drives the need for Climate Action (SDG 13), “Cyber threat” may adversely impact technology implementation and advancement which will disrupt Sustainable Cities and Communities (SDG 11); Decent Work and Economic Growth (SDG 8) and the rate of introduction of Affordable and Clean Energy (SDG 7), with reductions in these goals having direct consequences in also reducing progress in the other goals which they are closely linked to. “Data Fraud or Threat” has the capacity to inhibit innovation and Industrial Performance (SDG 9), reducing competitiveness (and having the potential to erode societal confidence in governance processes). “Water Crises” (linked with climate change) have a direct impact on Human Health and Well Being (SDG 3) as well as reducing access to Clean Water and Sanitation (SDG 6) and reducing agricultural production which increases Hunger (SDG 2). The causal loop diagram also highlights “Conflict” as a variable (driven by multiple environmental-socio-economic factors) which together with regions most impacted by climate degradation will lead to an increase in migrant refugees enhancing the spread of disease and global pandemic risk, thus impacting directly on Human Health and Well Being (SDG 3)

4.2. Existential and catastrophic risk

The level and consequences of these risks may be severe. Existential Risks (ER) have a wide scope, with extreme danger, and are “a risk that threatens the premature extinction of humanity or the permanent and drastic destruction of its potential for desirable future development” (Farquhar et al., 2017,) essentially being an event or scenario that is “transgenerational in scope and terminal in intensity” (Baum & Handoh, 2014). With a smaller scope, and lower level of severity, global catastrophic risk is defined as a scenario or event that results in at least 10 million fatalities, or $10 trillion in damages (Bostrom & Ćirković, 2008). Global Catastrophic Risk (GCR) events are those which are global, but they are durable in that humanity is able to recover from them (Bostrom & Ćirković, 2008; Cotton-Barratt, Farquhar, Halstead, Schubert, & Snyder-Beattie, 2016) but which still have a long-term impact (Turchin & Denkenberger, 2018b).

Achieving the Sustainable Development Goals can be considered to be a means of reducing the long-term global catastrophic and existential risks for humanity. Conversely if the targets represented across the SDGs remain unachieved there is the potential for these forms of risk to develop. This association combined with the likely emergence of new challenges over the next decades (Cook, Inayatullah, Burgman, Sutherland, & Wintle, 2014) means that it is of great value to identify points within the systems representations of the Sustainable Development Goals that could both lead to global catastrophic risk and existential risk, and conversely that could act as prevention, or leverage points in order to avoid such outcomes. This identification in turn enables sensible policy responses to be constructed (Sutherland & Woodroof, 2009).

Whilst existential threats are unlikely, there is extensive peril in global catastrophic risks. Despite being lesser in severity than existential risks, they increase the likelihood of human extinction (Turchin & Denkenberger, 2018a) through chain reactions (Turchin & Denkenberger, 2018a), and inhibiting humanity’s response to other risks (Farquhar et al., 2017). It is necessary to consider risks that may seem small, as when acting together, they can have extensive consequences (Tonn, 2009). Furthermore, the high adaptability potential of humans, and society, means that for humanity to become extinct, it is most likely that there would be a series of events that culminate in extinction as opposed to one large scale event (Tonn & MacGregor, 2009; Tonn, 2009).

Whilst the prospect of existential risk, or global catastrophic risk can seem distant, the Stern Review on the Economics of Climate Change estimated the risk of extinction for humanity as 0.1 % annually, which accumulates to provide the risk of extinction over the next century as 9.5 % (Cotton-Barratt et al., 2016). With respect to identifying these risks, it is known that in particular, “positive feedback loops… represent the gravest existential risks” (Kareiva & Carranza, 2018), with pollution also having the potential to pose an existential risk.

#### Grid security is an impact filter.

Denkenberger 21 [David Denkenberger, Anders Sandberg, Ross John Tieman, and Joshua M. Pearce, \* assistant professor of mechanical engineering at University of Alaska Fairbanks, “Long-term cost-effectiveness of interventions for loss of electricity/industry compared to artificial general intelligence safety,” 2021, *European Journal of Futures Research*, Vol. 9, Issue 1, https://doi.org/10.1186/s40309-021-00178-z, EA]

Civilization relies on a network of highly interdependent critical infrastructure (CI) to provide basic necessities (water, food, shelter, basic goods), as well as complex items (computers, cars, space shuttles) and services (the internet, cloud computing, global supply chains), henceforth referred to as industry. Electricity and the electrical infrastructure that distributes it plays an important role within industry, providing a convenient means to distribute energy able to be converted into various forms of useful work. Electricity is one component of industry albeit a critical one. Industry provides the means to sustain advanced civilization structures and the citizens that inhabit them. These structures play a critical role in realizing various futures by allowing humanity to discover and utilize new resources, adapt to various environments, and resist natural stressors.

Though industry is capable of resisting small stressors, a sufficiently large event can precipitate cascading failure of CI systems, resulting in a collapse of industry. If one does not temporally discount the value of future people, the long-term future (thousands, millions, or even billions of years) could contain an astronomically large amount of value [18]. Events capable of curtailing the potential of civilization (existential risks, such as human extinction or an unrecoverable collapse) would prevent such futures from being achieved, implying reducing the likelihood of such events is of the utmost importance [100]. Reducing the prevalence of existential risks factors; events, systemic structures, or biases which increase the likelihood of extinction but do not cause extinction by themselves is also highly valuable. Complete collapse or degraded function of industry would drastically reduce humanity’s capacity to coordinate and deploy technology to prevent existential risks, representing an existential risk factor. Consequently, interventions preventing loss of industry, reducing the magnitude of impacts, or increasing speed of recovery could be extremely valuable.

Existential risk research is, by nature, future focused, requiring the investigation of events that have not yet occurred. Futures studies methodologies are often applied to uncover salient trends or events, and explore potential causal structures [54, 123]. Probabilistic modeling techniques can then be used to determine the likelihood of such events occurring, including adequate treatment of uncertainty [101]. The cost-effectiveness modeling approach outlined in this paper is an example of this, attempting to assess the marginal utility of losing industry interventions on improving the long-term future. This approach could guide future efforts to assess the relative cost-effectiveness of interventions for different risks, existential or otherwise. More practically, this research can inform prioritization efforts of industrialized countries by providing estimates of the cost of global industrial collapse, and the utility of resilience interventions. This is relevant to the European Union which has a highly industrialized economy, providing $2.3 Trillion USD of the $13.7 Trillion USD global total of value add manufacturing [122]. The EU has shifted toward a more proactive foresight approach about natural and man-made disasters, noting the importance of rare high-impact events, systemic risks, and converging trends requiring better data and forecasting to drive a more ambitious crisis management system [47]. Still, it is clear that most academic and institutional emphasis has been on “ordinary” rather than extreme disasters, and risks from industry to the public and environment rather than widespread failures of industrial services causing harm.

The integrated nature of the electric grid, which is based on centralized generation makes the entire system vulnerable to disruption.1 There are a number of anthropogenic and natural catastrophes that could result in regional-scale electrical grid failure, which would be expected to halt the majority of industries and machines in that area. A high-altitude electromagnetic pulse (HEMP) caused by a nuclear weapon could disable electricity over part of a continent [16, 48, 66, 93]. This could destroy the majority of electrical grid infrastructure, and as fossil fuel extraction and industry is reliant on electricity [49], industry would be disabled. Similarly, solar storms have destroyed electrical transformers connected to long transmission lines in the past [117]. The Carrington event in 1859 damaged telegraph lines, which was the only electrical infrastructure in existence at the time. It also caused Aurora Borealis that was visible in Cuba and Jamaica [70]. This could potentially disable electrical systems at high latitudes, which could represent 10% of electricity/industry globally. Though solar storms may last less than the 12 h that would be required to expose the entire earth with direct line of sight, the earth’s magnetic field lines redirect the storm to affect the opposite side of the earth [117].

Lastly, both physical [6, 8, 69, 89, 111] and cyber attacks [3, 63, 90, 96, 118, 128, 130] could also compromise electric grids. Physical attacks include traditional acts of terrorism such as bombing or sabotage [130] in addition to EMP attacks. Significant actors could scale up physical attacks, for example by using drones. A scenario could include terrorist groups hindering individual power plants [126], while a large adversary could undertake a similar operation physically to all plants and electrical grids in a region.

Unfortunately, the traditional power grid infrastructure is simply incapable of withstanding intentional physical attacks [91]. Damage to the electric grid resulting in physical attack could be long lasting, as most traditional power plants operate with large transformers that are difficult to move and source. Custom rebuilt transformers require time for replacement ranging from months and even up to years [91]. For example, a relatively mild 2013 sniper attack on California’s Pacific Gas and Electric (PG&E) substation, which injured no one directly, was able to disable 17 transformers supplying power to Silicon Valley. Repairs and improvements cost PG&E roughly $100 million and lasted about a month [10, 102]. A coordinated attack with relatively simple technology (e.g., guns) could cause a regional electricity disruption.

However, a high-tech attack could be even further widespread. The Pentagon reports spending roughly $100 million to repair cyber-related damages to the electric grid in 2009 [57]. There is also evidence that a computer virus caused an electrical outage in the Ukraine [56]. Unlike simplistic physical attacks, cyber attackers are capable of penetrating critical electric infrastructure from remote regions of the world, needing only communication pathways (e.g., the Internet or infected memory sticks) to install malware into the control systems of the electric power grid. For example, Stuxnet was a computer worm that destroyed Iranian centrifuges [73] to disable their nuclear industry. Many efforts are underway to harden the grid from such attacks [51, 63]. The U.S. Department of Homeland Security responded to ~ 200 cyber incidents in 2012 and 41% involved the electrical grid [103]. Nations routinely have made attempts to map current critical infrastructure for future navigation and control of the U.S. electrical system [57].

The electric grid in general is growing increasingly dependent upon the Internet and other network connections for data communication and monitoring systems [17, 112, 118, 127, 135]. Although this conveniently allows electrical suppliers management of systems, it increases the susceptibility of the grid to cyber-attack, through denial of webpage services to consumers, disruption to supervisory control and data acquisition (SCADA) operating systems, or sustained widespread power outages [3, 72, 118, 120]. Thus global or regional loss of the Internet could have similar implications.

#### Independently, cyberattacks trigger nuclear retaliation.

Klare 19 [Michael T. Klare, professor emeritus of peace and world security studies at Hampshire College, “Cyber Battles, Nuclear Outcomes? Dangerous New Pathways to Escalation,” November 2019, *Arms Control Today*, https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation, EA – ability edited]

Yet another pathway to escalation could arise from a cascading series of cyberstrikes and counterstrikes against vital national infrastructure rather than on military targets. All major powers, along with Iran and North Korea, have developed and deployed cyberweapons designed to disrupt and destroy major elements of an adversary’s key economic systems, such as power grids, financial systems, and transportation networks. As noted, Russia has infiltrated the U.S. electrical grid, and it is widely believed that the United States has done the same in Russia.12 The Pentagon has also devised a plan known as “Nitro Zeus,” intended to ~~immobilize~~ the entire Iranian economy and so force it to capitulate to U.S. demands or, if that approach failed, to pave the way for a ~~crippling~~ air and missile attack.13

The danger here is that economic attacks of this sort, if undertaken during a period of tension and crisis, could lead to an escalating series of tit-for-tat attacks against ever more vital elements of an adversary’s critical infrastructure, producing widespread chaos and harm and eventually leading one side to initiate kinetic attacks on critical military targets, risking the slippery slope to nuclear conflict. For example, a Russian cyberattack on the U.S. power grid could trigger U.S. attacks on Russian energy and financial systems, causing widespread disorder in both countries and generating an impulse for even more devastating attacks. At some point, such attacks “could lead to major conflict and possibly nuclear war.”14

### 1AC – Plan

#### The United States Federal Government should substantially increase prohibitions on anticompetitive business practices by the private sector by at least expanding the extraterritorial private right of action of its core antitrust laws.

### 1AC – Uncertainty Adv

#### The circuit split over whether the FTAIA reaches price-fixed components creates massive uncertainty that broadly chills manufacturing.

Leonardo 17 [Lizl Leonardo, J.D., magna cum laude and with a Certificate of Business Law from DePaul University College of Law, “A Proposal to the Seventh and Ninth Circuit Split: Expand the Reach of the U.S. Antitrust Laws to Extraterritorial Conduct that Impacts U.S. Commerce,” 2017, *DePaul Law Review*, Vol. 66, Issue 1, https://via.library.depaul.edu/cgi/viewcontent.cgi?article=4008&context=law-review, EA]

The FTAIA was enacted to “clarify” the Sherman Act’s application to transactions that affect U.S. commerce, yet the circuit courts have not come to a consensus as to how it must be consistently interpreted.198 Similarly, despite the circuit splits that have overwhelmed the judicial system, the U.S. Supreme Court has only interpreted the FTAIA once, in Empagran. 199 The Court at that time, however, did not answer the critical question embodied in Hui Hsiung and Motorola: whether the FTAIA applies to transactions made outside of the United States but eventually have an impact upon U.S. competition, commerce, and consumers.200

The indistinguishable facts of Hui Hsiung and Motorola and the irreconcilable rulings call for a consistent rule across the circuit courts and intervention by the U.S. Supreme Court.201 Both cases involved the price-fixing of LCD panels by foreign entities, whose manufactured products eventually reached the United States.202 Yet, the Seventh and Ninth Circuits disagreed on what constitutes “import trade” or “import commerce.”203 The Seventh Circuit held that in order to be liable, a defendant must be engaged as an importer, who directly sells goods into the United States.204 Accordingly, it ruled that the one percent of LCDs sold directly to Motorola were too attenuated to become “import trade” under the Sherman Act;205 the remaining forty-two percent of LCDs, which Motorola’s foreign subsidiaries bought from the defendants, were too “remote” under FTAIA.206 In complete contrast, the Ninth Circuit held that any conduct consummated within an import market qualifies as either “import trade” or “import commerce.”207 This meant that the defendants did not have to import any goods themselves, but only needed to have engaged in conduct within the import business to satisfy both the Sherman Act and the FTAIA.208 Accordingly, the Ninth Circuit held that the defendants, although not the per se importers of the LCD panels, were liable under either the Sherman Act or the FTAIA for engaging in business that affected the finished products that were sold into the United States.209

These two contrasting rulings have placed not only the defendants—but also other foreign companies doing business with the United States—in a precarious position.210 These two cases represent the frequently recurring question of how to interpret the FTAIA.211 Foreign companies that do business, directly or indirectly, want clear guidance on how their business practices could be subjected to U.S. antitrust laws.212 No company will want to risk breaking the law in one jurisdiction, yet be absolved in the other.213 A clear ruling across all federal courts will be beneficial to international antitrust enforcement and the domestic economy, especially with the continuous expansion of global supply chains.214

A “supply chain” is defined as “a network between a company and its suppliers to produce and distribute a specific product, and the supply chain represents the steps it takes to get the product or service to the customer.”215 It essentially “encompasses each step from the supplier to the final consumer.”216 Establishing global supply chains across the world has become a strategy of companies in today’s globalized economy.217 Global supply chains have played an important role in the end-to-end production of goods sought by consumers across the world.218 In today’s globalized economy, companies use this practice to source, manufacture, transport, and distribute products internationally.219 For example, televisions are manufactured in China using displays from Taiwan and Korea.220 These televisions eventually find their way into various countries, including the United States.221 Due to this multi-step process, many businesses that utilize global supply chains become victims of anticompetitive activity by foreign cartels.222 In fact, price-fixing conspiracies have cost consumers more than $1 trillion over the last twenty-five years.223 Needless to say, the United States, holding a huge market share of these products, should protect these supply chains to some degree through the enactment and execution of an understandable U.S. antitrust law.224

The manufacturing industry, in particular, contributes more than $1.8 trillion annually to the U.S. economy and “employs nearly twelve million ~~men and women~~.”225 The goods sold by foreign intermediaries eventually find their way into the United States, some of which may be used to further domestic manufacturing.226 For example, in 2014, approximately $2.8 trillion of goods were imported into the United States.227 This amount has more than doubled in the last fifteen years.228 Most of these imports act as intermediate inputs on productivity used for other businesses in the United States.229 For example, in 2006, over ten percent of intermediate inputs accounted for imported intermediaries used by private industries.230 Without a doubt, the question presented in these two cases is of tremendous economic significance to U.S. manufacturers and the United States as a whole. The harm of the price-fixing conspiracy from these two cases alone has affected well over $23.5 billion in sales of LCD panels imported into the United States, either as raw materials or as components of finished products.231 Manufacturers have had to absorb the artificially high costs of the LCD panels as they incorporate the component LCD panels into finished products, and they ultimately pass those artificially inflated costs on to U.S. consumers.232 Price-sensitive consumers, in return, may have refused to purchase these more expensive products, altering the demand-supply market and impacting the companies’ bottom lines.

The lack of an established rule—highlighted by the circuit split in interpreting the FTAIA—has effectively made it burdensome for companies to develop transactions for goods intended for eventual import into the United States. This issue does not apply only to the manufacturing industry.233 Companies engaging in transactions with the United States, whether directly or indirectly, need to know the possible effects of their decisions.234 Given that corporations engage in multitudinous transactions, it is highly important and necessary for companies to know precisely how these transactions could create financial and legal risks/consequences.235 The costs associated with the uncertainty create a burden to producers, causing them to increase product prices to offset the risks.236 These higher prices could then be passed on to U.S. consumers, which would negatively impact the U.S. economy.237

#### Manufacturing capacity prevents weaponized interdependence that makes the US vulnerable to supply chain coercion.

Helberg 20 [Jacob Helberg, senior advisor at the Stanford University program on geopolitics and technology, an adjunct fellow at the Center for Strategic and International Studies, “In the New Cold War, Deindustrialization Means Disarmament,” 08/12/20, *Foreign Policy*, https://foreignpolicy.com/2020/08/12/china-industry-manufacturing-cold-war/, EA]

In 2011, then-President Barack Obama attended an intimate dinner in Silicon Valley. At one point, he turned to the man on his left. What would it take, Obama asked Steve Jobs, for Apple to manufacture its iPhones in the United States instead of China? Jobs was unequivocal: “Those jobs aren’t coming back.” Jobs’s prognostication has become almost an article of faith among policymakers and corporate leaders throughout the United States. Yet China’s recent weaponization of supply chains and information networks exposes the grave dangers of the American deindustrialization that Jobs accepted as inevitable.

Since March alone, China has threatened to withhold medical equipment from the United States and Europe during the coronavirus pandemic; launched the biggest cyberattack against Australia in the country’s history; hacked U.S. firms to acquire secrets related to the coronavirus vaccine; and engaged in massive disinformation campaigns on a global scale. China even hacked the Vatican. These incidents reflect the power China wields through its control of supply chains and information hardware. They show the peril of ceding control of vast swaths of the world’s manufacturing to a regime that builds at home, and exports abroad, a model of governance that is fundamentally in conflict with American values and democracies everywhere. And they pale in comparison to what China will have the capacity to do as its confrontation with the United States sharpens.

In this new cold war, a deindustrialized United States is a disarmed United States—a country that is precariously vulnerable to coercion, espionage, and foreign interference. Preserving American preeminence will require reconstituting a national manufacturing arrangement that is both safe and reliable—particularly in critical high-tech sectors. If the United States is to secure its supply chains and information networks against Chinese attacks, it needs to reindustrialize. The question today is not whether America’s manufacturing jobs can return, but whether America can afford not to bring them back.

America’s superpower might was made on the factory floor. The nation’s vast industrial capacity carried it to victory in World War II and gave it a commanding advantage over the Soviet Union. As recently as the early 2000s, iMacs—a symbol of American high-tech dominance—were still made in Elk Grove, California. But since the 1970s, more than 7 million American manufacturing jobs have evaporated—over a third of the country’s entire manufacturing workforce. In the first decade of the 21st century, more than 66,000 manufacturing facilities closed down or moved overseas. America’s share of the world’s printed circuit board production has dropped 70 percent since 2000; China accounts for around half of global production today. The high-tech industry is hardly exempt: As of 2015, Chinese factories produced 28 percent of the world’s cars, 41 percent of ships, more than 60 percent of TVs, and a staggering 90 percent of the world’s mobile phones. Indeed, Apple’s Elk Grove plant is now an AppleCare call center.

At the same time, a new Silicon Curtain has begun to descend. As FBI Director Christopher Wray recently pointed out, China does not seek a world where its companies lead alongside other global companies but one where its companies exploit a domestic monopoly at home to drive other companies out of business everywhere else. In the energy sector, China’s vast web of state subsidies supporting its domestic solar-electric industry dropped world prices of solar panels by 80 percent between 2008 and 2013. A report by the U.S. Senate Foreign Relations Committee echoed this trend in more cutting-edge technologies: “Foreign technology platforms are restricted from operating in China, allowing Chinese platforms that offer similar services to thrive and expand into new markets.” The report also highlighted examples of Chinese “national champions” expanding internationally thanks to unfair government support and subsidies, noting, “Huawei’s price was so low that, absent the subsidies the company had been provided, Huawei would have been unable to even produce the necessary network parts.” Beijing’s “Made in China 2025” initiative outlines in blunt terms China’s ambitions for dominance in artificial intelligence, robotics, aerospace equipment, and biopharmaceuticals—high-tech industries that represent the future of the global economy.

The United States’ industrial overdependence on China poses two profound national security threats. The first is about access to the supply of critical goods. As I warned in June, U.S.-China relations are now more volatile than at any time since Tiananmen, and it is an open question whether decoupling will be slow and soft or hard and fast. As the bilateral relationship further deteriorates, American companies face a growing risk of experiencing sudden delays or disruptions to their supply chains, either as an overt retaliation by the Chinese Communist Party (CCP) to U.S. policies or in the form of gray-zone tactics to kneecap U.S. companies and promote Chinese alternatives to fill the void in the global supply for key goods.

This risk, once deemed far-fetched, recently came to life when Arm, a U.K.-based chip designer, recently appeared to have suddenly lost control of its China-based joint-venture subsidiary, Arm China. As Business Insider reported, “Arm fired Allen Wu, the head of Arm China, but Wu refused to acknowledge the decision and has continued overseeing operations of the business unit, according to Bloomberg. Arm China also reportedly won’t let members of the UK parent entity onto its premises.” It has been seven years since the Alliance for American Manufacturing released a list of critical military hardware, with both offensive and defensive applications, that are susceptible to supply chain interference. American missiles depend on Chinese propellant; American night-vision goggles depend on Chinese metal.

During the pandemic, the Chinese government is also believed to have given preferential treatment to its domestic semiconductor companies, allowing Yangtze Memory Technologies to continue operating, all the while requiring all foreign-based chip makers, such as Samsung, to completely halt their operations. This is what political scientists have dubbed “weaponized interdependence”—exploiting control of critical nodes in the global economy to exert geopolitical leverage over one’s competitors.

The second risk of U.S. industrial dependence on China is about the integrity of powerful dual-use commercial technology products: civilian goods such as information platforms, social network technology, facial recognition systems, cellphones, and computers that also have powerful military or intelligence implications. These products are increasingly becoming a “perfect weapon” for U.S. adversaries such as Russia and China that continuously seek asymmetric ways to weaken the United States. The Senate Foreign Relations Committee report noted, “the suites of new and emergent digital technologies … —including 5G infrastructure, social media, block-chain, digital surveillance, and genomics and biotechnology—are all widely acknowledged as being on the cutting edge of this new competition.” China’s command over critical nodes of the world’s supply chains provides it with vast strategic leverage over the integrity of critical hardware products.

A 2018 Bloomberg investigation reported that Chinese operatives had inserted a miniscule microchip into the servers of Supermicro, a company whose systems are used by institutions ranging from major banks to the Pentagon. Though all parties involved denied that such a breach occurred, even the possibility of such a hardware hack sent shudders through Silicon Valley and the U.S. national security apparatus. Even if disputed, the report laid bare the dangers of outsourcing American manufacturing to an American adversary.

Public concerns over the integrity of Chinese-built technology systems recently reached a boiling point in the software world, with the U.S. government calling on ByteDance, a Beijing-based global technology company, to divest from TikTok, its U.S. subsidiary. In some cases, senior government officials, ranging from President Donald Trump to Senate Democratic Leader Chuck Schumer, went as far as floating the possibility of a complete suspension of the app.

The public’s justified concerns trace back to China’s civil-military fusion doctrine, which blurs the line between the CCP and China’s private sector. Under China’s 2017 National Intelligence Law, the CCP could compel an individual engineering employee at TikTok based in China to provide the party with intelligence assistance and keep that assistance entirely confidential, without any of TikTok’s U.S.-based executives even being aware.

In effect, this means companies based in China could be subject to a dual reporting and corporate governance structure—their company’s executives on the one hand, and, on the other, a shadow governance structure reporting to officials from the Chinese Communist Party. China-based companies must effectively answer to two masters. Arm’s U.K.-based executives learned this the hard way. But the principles were spelled out in broad daylight by Chinese President Xi Jinping himself when he compared the relationship between Chinese citizens and the CPP to “stars revolving around the revered moon.” “Listen to what they say,” the Taiwan-based analyst Ben Thompson cautioned.

The United States’ slow drift toward deindustrialization is not a threat to Democrats or a threat to Republicans—it’s a threat to the United States. Addressing it will require an American solution that transcends party lines. It will require an extensive collaborative effort between the government and private sector to take inventory of the products salient to national security—determining which high-tech and vital goods must be produced domestically, which can safely be sourced from allies and friendly democracies, and which can still be imported from the global market, including from authoritarian states like China. Carrying out this strategy and operationalizing it will take time and substantial resources. Still, a few elements for such a strategy are worth highlighting.

Before the creation of the Strategic Petroleum Reserve in the 1970s, the United States was vulnerable to geopolitical blackmail by OPEC nations. Eventually, public investments in expanding the country’s domestic alternative sources of energy helped move the country toward energy independence. Similarly, the United States must define and reconstitute a “minimum viable industrial capacity,” based on the production capacity it needs not simply to meet a national emergency but to wage a long-term competition. A potential initial area of focus for such an effort could be the production of semiconductors and microchips, given that high-performing chips are indispensable to make headway on nearly every other front—AI development, robotics, computers, cellphones, and more. Currently, Taiwan—which China dubs a renegade province—is home to Taiwan Semiconductor Manufacturing Company, which accounts for half the global supply of computer chips used in everything from F-35 fighter jets to Apple devices. The United States cannot afford to ignore China’s plans to eventually seize control of Taiwan and the consequences this would entail for the entire U.S. technology industry.

Reconstituting America’s domestic production capacity will be contingent on procuring a reliable, abundant supply of key natural resources at a low cost, building up a large talent pool of skilled industrial workers, and making substantial investments in fostering hotbeds of innovation.

For starters, the goal of reopening factories won’t be economically sustainable if the United States can’t ensure cost-effective access to natural resources and raw materials those factories need to produce finished, manufactured products. China has made acquiring premium access to resources such as zinc, cobalt, and titanium a national priority. By making investments and loans worth hundreds of billions of dollars across the developing world—particularly in Africa—it has established a model of trading technology and infrastructure for resources. In one such case, China struck a deal with a Congolese mining consortium, Sicomines, to secure access to critical minerals for electronics like copper and cobalt in exchange for investing in essential infrastructure projects like hospitals and highways.

#### China rise isn’t inevitable – selective decoupling avoids conflict from a declining China.

Beckley 20 [Michael Beckley and Hal Brands, \* Associate Professor of Political Science at Tufts University, \*\* Henry A. Kissinger Distinguished Professor of Global Affairs at the Johns Hopkins University School of Advanced International Studies, “Competition With China Could Be Short and Sharp,” 12/17/20, *Foreign Affairs*, https://www.foreignaffairs.com/articles/united-states/2020-12-17/competition-china-could-be-short-and-sharp, EA]

In foreign policy circles, it has become conventional wisdom that the United States and China are running a “superpower marathon” that may last a century. But the sharpest phase of that competition will be a decadelong sprint. The Sino-American contest for supremacy won’t be settled anytime soon. Yet history and China’s recent trajectory suggest that the moment of maximum danger is just a few years away.

China has entered a particularly perilous period as a rising power: it has gained the capability to disrupt the existing order, but its window to act may be narrowing. The balance of power has been shifting in Beijing’s favor in important areas of U.S.-Chinese competition, such as the Taiwan Strait and the struggle over global telecommunications networks. Yet China is also facing a pronounced economic slowdown and a growing international backlash.

The good news for the United States is that over the long term, competition with China may prove more manageable than many pessimists believe. Americans may one day look back on China the way they now view the Soviet Union—as a dangerous rival whose evident strengths concealed stagnation and vulnerability. The bad news is that over the next five to ten years, the pace of Sino-American rivalry will be torrid, and the prospect of war frighteningly real, as Beijing becomes tempted to lunge for geopolitical gain. The United States still needs a long-term strategy for protracted competition. But first it needs a near-term strategy for navigating the danger zone.

RED FLAGS

Much debate on Washington’s China policy focuses on the dangers China will pose as a peer competitor later this century. Yet the United States actually faces a more pressing and volatile threat: an already powerful but insecure China beset by slowing growth and intensifying hostility abroad.

China has the money and muscle to challenge the United States in key areas. Thanks to decades of rapid growth, China boasts the world’s largest economy (measured by purchasing power parity), trade surplus, financial reserves, navy by number of ships, and conventional missile force. Chinese investments span the globe, and Beijing is pushing for primacy in such strategic technologies as 5G telecommunications and artificial intelligence (AI). Add in four years of disarray in the U.S.-led world order under President Donald Trump, and it is hardly surprising that Beijing is testing the status quo from the South China Sea to the border with India.

Yet China’s window of opportunity may be closing fast. Since 2007, China’s annual economic growth rate has dropped by more than half, and productivity has declined by ten percent. Meanwhile, debt has ballooned eightfold and is on pace to total 335 percent of GDP by the end of 2020. China has little hope of reversing these trends, because it will lose 200 million working-age adults and gain 300 million senior citizens over the next 30 years. And as economic growth falls, the dangers of social and political unrest rise. Chinese leaders know this: President Xi Jinping has given multiple speeches warning about the possibility of a Soviet-style collapse, and Chinese elites are moving their money and children abroad.

Meanwhile, global anti-China sentiment has soared to levels not seen since the 1989 Tiananmen Square massacre. Nearly a dozen countries have suspended or canceled participation in Belt and Road Initiative (BRI) projects. Another 16 countries, including eight of the world’s ten largest economies, have banned or severely restricted use of Huawei products in their 5G networks. India has been turning hard against China since a clash on their shared border killed 20 soldiers in June. Japan has ramped up military spending, turned amphibious ships into aircraft carriers, and strung missile launchers along the Ryukyu Islands near Taiwan. The European Union has labeled China a “systemic rival”; and the United Kingdom, France, and Germany are sending naval patrols to counter Beijing’s expansion in the South China Sea and Indian Ocean. On multiple fronts, China is facing the blowback created by its own behavior.

HISTORY RHYMES

Many people assume that rising revisionists pose the greatest danger to international security. But historically, the most desperate dashes have come from powers that had been on the ascent but grew worried that their time was running short.

World War I is a classic example. Germany’s rising power formed the strategic backdrop to that conflict, but German fears of decline triggered the ultimate decision for war. Russia’s growing military power and mobility menaced Germany’s eastern flank; new French conscription laws were changing the balance in the West; and a tightening Franco-Russian-British entente was leaving Germany surrounded. German leaders ran such catastrophic risks in the July crisis for fear that geopolitical greatness would elude them if they did not act quickly.

The same logic explains imperial Japan’s fatal gamble in 1941, after the U.S. oil embargo and naval rearmament presented Tokyo with a closing window of opportunity to dominate the Asia-Pacific. In the 1970s, Soviet global expansion peaked as Moscow’s military buildup matured and the slowing of the Soviet economy created an impetus to lock in geopolitical gains.

Given that China is currently facing both a grim economic forecast and a tightening strategic encirclement, the next few years may prove particularly turbulent. The United States obviously needs a long-term strategy to compete with China. But it also needs to blunt a potential surge of Chinese aggression and expansion this decade.

The early Cold War offers a useful parallel. At that time, American leaders understood that winning the long-term struggle against the Soviet Union required not losing crucial battles in the short term. The Marshall Plan, unveiled in 1947, was meant to prevent economic collapse in Western Europe, because such a breakdown might allow Moscow to extend its political hegemony over the entire continent. The creation of NATO and rearmament during the Korean War forged a military shield that allowed the West to thrive. Strategic urgency was the prelude to strategic patience: the United States could exploit its lasting economic and political advantages only if it closed off more immediate vulnerabilities.

Today, the United States again needs a danger-zone strategy, which should be based on three principles. First, focus on denying China near-term successes that would radically alter the long-term balance of power. The most pressing dangers are a Chinese conquest of Taiwan and Chinese preeminence in 5G telecommunications networks. Second, rely on tools and partnerships available now or in the near future rather than assets that require years to develop. Third, focus on selectively degrading Chinese power rather than changing Chinese behavior. Seduction and coercion are out; targeted attrition is in. Such an approach entails greater risk. But the United States must act assertively now to prevent more destabilizing spirals of hostility later.

TAIWAN AND TECH

Washington’s first priority must be shoring up Taiwan. If China absorbed Taiwan, it would gain access to the island’s world-class technology, acquire an “unsinkable aircraft carrier” to project military power into the western Pacific, and gain the ability to blockade Japan and the Philippines. China also would fracture U.S. alliances in East Asia and eliminate the world’s only ethnically Chinese democracy. Taiwan is the fulcrum of power in East Asia: controlled by Taipei, the island is a fortification against Chinese aggression; controlled by Beijing, Taiwan could become a base for continued Chinese territorial expansion.

China has spent decades trying to buy reunification by forging economic links with Taiwan. But Taiwan’s people have become more determined than ever to maintain their de facto independence. Consequently, China is brandishing its military option. Over the past three months, its air and naval patrols have presented a show of force in the Taiwan Strait more provocative than any in the last twenty-five years. An invasion or coercive campaign may not be imminent, but its likelihood is rising.

Taiwan is a natural fortress, but Taiwanese and U.S. forces currently are ill equipped to defend it, because they rely on limited quantities of advanced aircraft and ships tethered to large bases—forces China can neutralize with a surprise air and missile attack. Some American policymakers and pundits are calling on Washington to formally guarantee Taiwan’s security, but such a pledge would amount to cheap talk if not backed by a stronger defense.

Washington should instead deploy hordes of missile launchers and armed drones near, and possibly on, Taiwan. These forces would function as high-tech minefields, capable of inflicting severe attrition on a Chinese invasion or blockade force. China needs to control the seas and skies around Taiwan to achieve its objective, while the United States just needs to deny China that control. If necessary, the United States should cut funding for costly power-projection platforms, such as aircraft carriers, to fund the rapid deployment of loitering cruise missiles and smart mines near Taiwan.

The United States also needs to help Taiwan retool its military to fight asymmetrically. Taiwan plans to acquire enormous arsenals of missile launchers and drones; prepare its army to deploy tens of thousands of troops to any beach at a moment’s notice; and reconstitute a million-strong reserve force trained for guerrilla warfare. The Pentagon can hasten this transition by subsidizing Taiwanese investments in asymmetric capabilities, donating ammunition, and expanding joint training on air and coastal defense and antisubmarine and mine warfare.

Finally, the United States should enlist other countries in Taiwan’s defense. Japan might be willing to block China’s northern approaches to Taiwan in a war; India might allow the U.S. Navy to use the Andaman and Nicobar Islands to choke off Beijing’s energy imports; European allies could impose severe economic and financial sanctions on China in case of an attack on Taiwan. The United States should try to convince partners to commit publicly to taking these types of actions. Even if such measures are not decisive militarily, they could deter China by raising the possibility that China might have to fight a multifront war to conquer Taiwan.

The United States must simultaneously work to prevent China from creating an extensive technological sphere of influence. China stands to reap enormous intelligence benefits, economic gains, and strategic leverage if Chinese companies install 5G telecommunications networks around the world. Similarly, the diffusion of Chinese-made surveillance technology could entrench autocrats and cause lasting harm to global prospects for democracy. Over the past two years, a number of advanced democracies have spurned Huawei, China’s main national champion. But Beijing’s Digital Silk Road remains popular where democracy is less established and China’s low-cost products are especially attractive. To check China’s technological expansion, Washington should restrict the export of technologies made in the United States and other democracies on which Chinese technology still depends. These include semiconductors, AI chips, and computer numerical control (CNC) machines. By withholding such products, the United States and its democratic allies can retard Beijing’s technological progress and buy time to offer developing countries alternatives to Chinese networks.

Additionally, the United States should limit its vulnerability by selectively decoupling from China’s economy. When Chinese state media threatened, in March 2020, to plunge the United States into “a mighty sea of coronavirus” by denying it pharmaceuticals, it underscored the coercive leverage that Beijing’s influence over supply chains brings. To preserve freedom of action in future crises, the United States should eliminate Chinese components from U.S. military platforms and munitions and secure alternative sources of critical medical supplies and rare earths. Over time, the United States could cooperate with friendly democracies to develop reliable supply chains, a move that would protect U.S. allies and partners from Chinese coercion as well.

URGENT, NOT STUPID

Incoming U.S. administrations typically take months to review policies and plan initiatives that may not produce results for years. Given the country’s deep wounds, the new policy team might be tempted to turn down the temperature with China for now, so the United States can fortify its democracy, economy, and public health for a long competition ahead. But as important as those tasks are, Washington does not have the luxury of geopolitical delay. As U.S.-Chinese relations enter the danger zone, Washington must shore up defenses against pressing perils.

The United States should, however, combine strength and caution, lest it provoke the conflict it seeks to avoid. Washington should not undertake far more drastic measures, such as a full technological embargo, across-the-board trade sanctions, or a major covert action program to foment violence within China. Nor should it dramatically ratchet up pressure on China everywhere at once. If Beijing wants to spend lavishly on white elephant projects in Pakistan or other detours along the BRI, or to invest in power-projection capabilities that will not have a strategic impact for decades, so much the better. And while it would be a mistake to allow China to link joint action on COVID-19 or climate change to U.S. restraint in geopolitical competition, the administration of President-elect Joe Biden might explore cooperation in these areas, if only as a counterpoise to sharpening rivalry in others.

Successfully navigating the danger zone will not end U.S.-Chinese competition, any more than surviving the early Cold War brought that rivalry to a close. Today, the reward for skillful statecraft will simply be a somewhat less volatile Sino-American rivalry. That rivalry may still be global in scope and extended in duration. But the possibility of war might fade as the United States shows that Beijing cannot overturn the existing order by force and Washington gradually grows more confident in its ability to outperform a slowing China. Now as before, the United States can win a long rivalry, so long as it weathers the coming crisis.

### 1AC – Illinois Brick Adv

#### Apple v. Pepper’s broad application of the Illinois Brick doctrine spills over to destabilize US-EU antitrust cooperation and broader enforcement.

Stylianou 19 [Konstantinos Stylianou, Assistant Professor, University of Leeds, School of Law, “Apple v Pepper: the unintended fallout in Europe,” 2019, *Journal of Antitrust Enforcement*, Vol. 7, Issue 3, pp. 457-465, https://doi.org/10.1093/jaenfo/jnz031, EA]

Despite the seeming insulation of one jurisdiction from the other on the issue of standing, the decision in Apple creates spill-over effects for EU competition law. These stem not so much from what the Court said, but from what the Court did not say. Specifically, the Court’s implicit rejection of indirect purchasers’ right to claim damages and the Court’s implicit designation of Apple as a reseller of apps instead of an agent of app developers foreshadow friction between the two jurisdictions and tension with EU competition law’s enforcement. I address the issues in sequence below.

Fragmentation and strategic manipulation of antitrust proceedings

The first side-effect of Apple comes as the result of the Supreme Court’s choice to uphold the rule in Illinois Brick barring indirect purchasers from pursuing antitrust damages. By doing so, the Supreme Court perpetuates the schism with the EU and complicates recovery of damages when global platforms are involved.

The case was handled as narrowly as possible to address only the very specific question of ‘whether [iPhone owners] are proper plaintiffs for this kind of antitrust suit—in particular, [the Supreme Court’s] precedents ask, whether the consumers were “direct purchasers” from Apple’.17 The Supreme Court reached a ‘straightforward conclusion’ by reading section 4 of the Clayton Act, which provides that ‘any person who shall be injured in his business or property by reason of anything forbidden in the antitrust laws may sue ... the defendant ...’ (emphasis in original) as ‘readily cover[ing] consumers who purchase goods or services at higher-than-competitive prices from an allegedly monopolistic retailer’.18

With such an emphatic reliance on the black letter of the law, one must wonder, then, why the Supreme Court did not avail of this opportunity to allow the black letter of the law to develop its full meaning, and include truly any person to sue, both direct and indirect purchasers no matter how far removed from the first-in-line actor to incur harm. There are various reasons why the Supreme Court could and should have distinguished—or even overruled—Illinois Brick and bring its practice in line with the more reasonable EU rule.

For one thing, the rationale behind Illinois Brick has lost some of its original authoritativeness. Illinois Brick aimed to prevent double (or multiple) recovery of damages for the same antitrust violation and to bypass the complexities of apportioning antitrust damage along the value chain.19 By creating a simple rule, it vested the claim for antitrust damages to the first-in-line actor to incur them. However, as the Court noted in Apple, damages claims and damages calculations are commonly complicated and often require expert testimony, but this is hardly unusual for antitrust cases.20 Therefore, there was no imperative reason to shy away from the exercise of apportioning damages, which would clear the way for indirect purchasers to be able to sue too.21 Moreover, Apple’s fear that not limiting standing to only one group of actors would open the door to ‘conflicting claims to a common fund—the amount of the alleged overcharge’22 is also unfounded because each group would have a separate legal basis to pursue damages; therefore, any stacking claims would not be duplicative.23 While the Court used this argument to suggest that developers, as well as consumers, could sue Apple—both as direct purchasers just on different grounds— there is no reason not to use the same argument to allow any other actor, even those indirectly harmed, to sue for their share of damages.

Secondly, by insisting on allowing only direct purchasers to sue for antitrust damages, the Court downplayed its own prior case-law in Ohio v American Express, where it treated platform markets as one single system and acknowledged the interdependence of the two sides.24 The Court in American Express already recognized the interdependence of the two sides due to ‘indirect network effects’25 and due to the fact that platforms ‘facilitate a single, simultaneous transaction between participants’.26 Taking this to its logical extension would support an argument by which in platform economies the interacting economic actors are intertwined in such a close fashion that the direct–indirect distinction ceases to be determinative.27

Thirdly, the Court would be in good company to dispense with the arcane rule in Illinois Brick, as it would be joining the EU, several US states, and advisory bodies that have all opted for the equal treatment of direct and indirect purchasers: in the EU, as mentioned, Article 3 of the Damages Directive allows ‘any natural or legal person who has suffered harm caused by an infringement of competition law’ to claim damages, and precedent has reiterated time and again that this includes direct and indirect victims.28 Similarly, more than 20 US states have adopted or interpreted their antitrust laws to allow indirect purchasers to sue,29 which means that for the same conduct direct purchases can claim damages under federal antitrust law and indirect purchasers can claim damages under state law (assuming the conduct is illegal under both). Recognizing the impracticality of Illinois Brick, and following the wave of state antitrust provisions to give standing to indirect purchasers, the US Antitrust Modernization Commission recommended that the rule in Illinois Brick be overruled ‘to the extent necessary to allow both direct and indirect purchasers to sue to recover for actual damages from violations of the federal antitrust laws’.30 It did so because it found that ‘[d]uplicative federal direct purchaser and state indirect purchaser litigation imposes undue burdens on the judicial system and the parties, wastes resources, increases the risk of duplicative recoveries, skews the parties’ incentives to settle, and hinders efficient global settlements.’31

The continuing misalignment of US and EU rules on standing complicates antitrust enforcement when both jurisdictions are involved. The differences do not only lie in the barring of indirect purchasers in the USA, they also encompass the unavailability of the passing-on defence in the USA. Indeed, since indirect purchasers do not have standing and all damages are vested into the direct purchaser, defendants cannot raise a passing-on defence by which a direct purchaser limits their exposure to the defendant’s alleged anticompetitive conduct by rolling over some of the costs further down the value chain. As a result, a single antitrust proceeding by which all damages in both jurisdictions are claimed is not possible.32 This is true both for court and settlement proceedings, and it is particularly problematic in markets such as online app distribution, which are inherently global, and where damages can arise in multiple jurisdictions emanating from the same conduct.

Not only that, but the fragmentation of proceedings can be used strategically to exert pressure to the side that is most sensitive to multiple proceedings.33 When damages claims can be litigated or settled under a single proceeding, the pressure is lower compared to the threat of multiple proceedings in numerous jurisdictions. For EU competition law parties, who otherwise enjoy a unified damages regime, the persistence of the Illinois Brick rule creates unnecessary complexity. Furthermore, the unavailability of the passing-on defence in the USA may skew incentives of defendants in terms of where they prefer to be sued. While it is difficult to estimate whether such incentives will mean greater or lesser involvement of EU competition law, in principle, any factor that facilitates using the law as a tool for strategizing should be unwelcomed.

#### Now is key – regulatory harmonization is around the corner which will address emerging tech and privacy governance.

Moens 9/9 [Barbara Moens, Reporter @POLITICOEurope covering trade and Belgian politics. Mark Scott, Chief Technology Correspondent at POLITICO, “Transatlantic trade deal rises from the grave to fight China,” 09/09/21, *POLITICO*, https://www.politico.eu/article/ttip-rises-from-the-grave-to-fight-china/]

Activists may have thought the politically explosive Transatlantic Trade and Investment Partnership (TTIP) negotiations between Europe and America were dead and buried.

But one of the most important elements of those talks, which collapsed in 2016, is back from the grave: regulatory alignment between Washington and Brussels.

The first meeting of the Trade and Tech Council (TTC) in Pittsburgh on September 29 is intended to build a diplomatic platform for the European Union and the United States to work together on industrial and tech standards to counter China's rise in sectors ranging from microchips and robots to artificial intelligence and the alleged antitrust abuses of Google and Amazon.

The attempt to build a common U.S.-EU front could hardly come at a more sensitive moment politically, as the American retreat from Afghanistan has blown a hole in European faith in the administration of U.S. President Joe Biden. Many in Brussels feel let down by Washington's retreat from that country, while many in the U.S. capital believe EU countries did not pull their weight during the 20-year war.

“You can not discuss the Trade and Tech Council, and transatlantic trade relations overall, without Afghanistan in the back of your mind,” said one EU trade diplomat who spoke on the condition of anonymity because the ongoing talks are private. “The trust is gone, and that has to be rebuilt one step at a time.”

The two sides may not find themselves perfectly aligned against the common Chinese foe, however.

Brussels had originally hoped to pressure the Americans into following Brussels’ regulatory line on tech and trade, building on more than a decade of digital policymaking that spanned competition enforcement to global privacy rules. But now, the big fear among European officials is that the EU could well come off second best in this process and cede power to the U.S. after Washington flexed its muscles in early-stage talks around the upcoming trade and tech summit to focus on priorities for Biden's administration.

TTIP through the back door?

The TTIP negotiations are mostly remembered for protests about hormone-treated beef and chemically-rinsed poultry but the major benefits of TTIP lay precisely in bringing together conflicting EU-U.S. regulations. At the time, Brussels described this part of TTIP as a "regulatory cooperation body" and said that it could look at sectors such as data and cybersecurity.

Washington and Brussels now want to target those regulatory benefits again. “That sounds extremely boring and technical, but there’s a lot of money in having different standards. So this has the support from business from both sides,” former EU trade chief Cecilia Malmström told POLITICO earlier this year. Ten working groups — on everything from global trade standards to how to deal with online platforms — are expected to hammer out how such joint transatlantic policymaking could work in practice.

This time around, it’s not just car seatbelts or pharmaceuticals. The discussions focus on critical emerging technologies like artificial intelligence, semiconductors and data governance.

#### Aligning AI governance with the EU stops a laundry list of existential threats.

Garcia 21 [Denise Garcia, professor at Northeastern University; vice-chair of the International Committee for Robot Arms Control, “Stop the emerging AI cold war,” 05/11/21, *Nature*, Vol. 593, https://www.nature.com/articles/d41586-021-01244-z, EA]

A race to militarize artificial intelligence is gearing up. Two years ago, the US Congress created the National Security Commission on Artificial Intelligence (NSCAI). This March, it recommended that the United States must accelerate artificial-intelligence (AI) technologies to preserve national security and remain competitive with China and Russia.

This will undermine the United States’ ability to lead emerging global norms on AI. In April, the European Commission published the first international legal framework for making AI secure and ethical; in January, the European Parliament issued guidelines stating that military AI should not replace human decisions and oversight. By contrast, the NSCAI recommendations advocate “the integration of AI-enabled technologies into every facet of war-fighting”.

Enhancing AI war-fighting capacity will decrease security in a world where the biggest threats are instability — political, social, economic and planetary. The NSCAI should heed the research community. Some 4,500 AI and robotics researchers have declared that AI should not make the decision to take a human life — aligning with the European Parliament guidelines and the European Union regulation.

The NSCAI resurrected disastrous ideas from the cold war and framed its report in terms of winning a competition for AI-enabled warfare. During the cold war, the drive to stay ahead in the technological race led to the accumulation of 70,000 nuclear weapons and today’s global arsenal of 13,100 warheads. This brought extortionate costs: US$70 billion is spent annually to maintain nuclear weapons globally. Other threats demand similar investments: in 2019, climate-induced natural disasters displaced 25 million people, and decentralized conflicts forced 8.6 million to move. Still more threats affect infrastructure, such as the ransomware attack on 8 May that shut down a 8,850-kilometre US fuel pipeline.

The NSCAI does not prioritize international cooperation to create new regulations. Indeed, it speaks against a global ban on autonomous weapons, saying that other countries cannot be trusted to comply. But an AI-militarization race would be profoundly destabilizing. Unlike nuclear arms, AI is already ubiquitous in civilian spheres, so the dual-use risks of, say, flying drones or computer night vision are much higher.

Since 2014, I have been an observer and adviser at United Nations meetings, and I testified in 2017 as part of the International Panel on the Regulation of Autonomous Weapons. In my view, rather than focusing on counting weapons or on particular weapons systems, policies should specify human intention and human–machine interaction, obligating countries to maintain human control over military force. Other agreements could mitigate malicious uses of AI, such as using facial recognition to oppress citizens or biased data to guide decisions about employment or incarceration. The world’s people need protection from cyberattacks to infrastructure — such as those on US hospitals in 2020 or those that hit national electrical grids.

The NSCAI report calls for international standards for AI-enabled and autonomous weapons systems, arguing that if these systems are properly tested and designed, humans can use them to make the decision to kill, consistent with international humanitarian law. This is misleading: it’s difficult to make machine learning’s ‘black box’ nature fully interpretable, or to ensure that AI systems perform as expected after deployment. These systems learn from their environment, and the real world is never as simple as the laboratory.

The NSCAI argues that the United States should seek commitments from Russia and China against autonomous nuclear weapons, even as it argues against treaties regulating other autonomous and AI weapons. Instead, the United States should negotiate decreases in nuclear arsenals and establish standards to keep humans in meaningful control.

The NSCAI is too dismissive by discounting cooperation. The Chemical Weapons Convention, the Biological Weapons Convention, the UN Sustainable Development Goals and the 1987 Montreal Protocol are examples of accountability on which all the major powers worked together. The United States and Russia established the International Space Station by cooperating closely.

Most nations want governance that controls the use of AI in war. In June 2020, the Global Partnership on Artificial Intelligence was created by the Group of Seven industrialized countries (G7) and called for human-centric development and use of AI. The partnership brings scientific and research communities together with industry and government to facilitate international cooperation. This is the path that the United States should take — with scientists, researchers and industry alike.

The relentless pursuit of militarization does not protect us. It diverts resources and attention from nearer existential threats, such as extreme weather events. With the world reeling from COVID-19 — the shock of the century — now is not the moment to hasten towards worldwide confrontation. In 2019 alone, climate disasters displaced almost one million people in the United States. China, too, is extremely vulnerable to global warming. This common ground could pave the way to cooperation, including stopping the emerging AI cold war. This is no time to embark on an exorbitant and ineffective race.

#### Strengthening cartel responses creates regulatory harmonization and deters expatriation.

Leonardo 17 [Lizl Leonardo, J.D., magna cum laude and with a Certificate of Business Law from DePaul University College of Law, “A Proposal to the Seventh and Ninth Circuit Split: Expand the Reach of the U.S. Antitrust Laws to Extraterritorial Conduct that Impacts U.S. Commerce,” 2017, *DePaul Law Review*, Vol. 66, Issue 1, https://via.library.depaul.edu/cgi/viewcontent.cgi?article=4008&context=law-review, EA – Typo Corrected]

A U.S. Supreme Court ruling in favor of the ~~Seventh~~ [Ninth] Circuit will also prevent companies from potentially leaving the United States to avoid compliance with antitrust laws.417 Domestic companies with foreign subsidiaries that seek to increase their market share by colluding to fix the prices of products will be deterred from engaging in illegal conduct, but they will also be incentivized to keep their businesses in the country.418 Mere knowledge that companies can be liable in the United States for engaging in illegal, extraterritorial conduct that indirectly affects U.S. consumers could in itself discourage the companies from pursuing such conduct.419 Likewise, without the benefit of being exculpated from any extraterritorial conduct, companies will rather stay in the United States than incur expensive costs of moving overseas. This is a win-win situation; prices of products remain controlled by the natural forces of supply and demand, and small and local companies are able to compete with the bigger and international companies. On the contrary, a ruling that limits the extraterritorial reach of the FTAIA to non-import commerce, similar to what the Seventh Circuit held, will encourage companies to move their operations overseas and strategically only deal with the United States in instances they are certain will not subject them to either the Sherman Act or FTAIA.420

Arguably, ruling in favor of the Ninth Circuit could hurt companies that trade with the United States indirectly. These companies have legitimate reasons for incorporating as “foreign subsidiaries,” and subjecting them to U.S. jurisdiction would in effect deplete some of these purposes.421 Although domestic legal remedies are available in some foreign countries, as mentioned above, they are unlikely to deter price-fixing by international cartels.422

Moreover, having a more consistent approach in cases like this will strengthen and harmonize the partnership across nations. Needless to say, the cooperation between these countries can play a significant role in attaining this objective. Bilateral agreements between the countries have proven that, though challenging, implementing this stricter rule is not impossible.423 International trade rules, such as the General Agreement on Tariffs and Trade (GATT), World Trade Organization (WTO), Organization for Economic Cooperation and Development (OECD), and agreements between countries, imply the general acceptance of this proposal.424 The rapid growth in globalization has forced governments to institute and enforce policies that both protect domestic products from multinational firms and encourage the domestic firms to compete internationally, in furtherance of international trade.425

One of the partnerships the European Union (EU) and the U.S. governments are currently working on is called the Transatlantic Trade and Investment Partnership (T-TIP).426 Its aim is to further develop the strong relationship nations have and leverage that relationship to boost economic growth and international competitiveness.427 The agreement purports to provide greater transparency around trade and investment regulation while ensuring the quality of the products.428 As part of the agreement, the governments seek to eliminate all tariffs, other duties, and charges on trade in various products between the United States and the European Union.429

The proponents of T-TIP point out that the elimination of tariffs and quotas will, among other things, entail lower costs of import to each of the regions, put products from one area “on equal footing” with the products from another, create more jobs, lower the unemployment rate, increase competitiveness, and improve the overall growth of members of the agreement.430 Although the agreement seems ambitious at this time, it intends to link two of the world’s larg est economies to generate a third of the world’s GDP.431 Critics argue, however, that the deregulation of several national laws—possibly resulting in lower consumer standards, as well as compromised laws covering intellectual property, food safety, privacy and data collection, and democratic legitimacy—are all steps in the wrong direction.432

Having an established rule that foreign companies’ non-import trade conduct can be subjected to U.S. antitrust laws, as long as the conduct had an “immediate consequence” on U.S. commerce, could mitigate the risks associated with the opening of U.S. and EU markets. Foreign companies that will be encouraged to invest in the United States as a result of T-TIP will have an understanding of the laws and the possible repercussions of any business transaction in which they take part. These companies do not need to determine if and how any of their strategic decisions can be subjected to either the Seventh or Ninth Circuit rulings before securing deals or signing agreements. The certainty will provide companies with notice and understanding of how the law affects their decisions, thereby making their investments less risky. In return, investments could become safer, eventually having a favorable impact on the continued development of the world economy.

### 1AC – Solvency Core

#### Overturning *Motorola* restores deterrence.

Meriwether 15 [Ellen Meriwether, litigation partner at Cafferty Clobes Meriwether & Sprengel LLP and concentrates her practice in antitrust class action litigation, “Motorola Mobility and the FTAIA: If Not Here, Then Where?,” 2015, *Antitrust*, Vol. 29, No. 2, https://www.caffertyclobes.com/wp-content/uploads/2019/07/Spring15-MeriwetherC.pdf, EA]

Elimination of Private Enforcement Under Federal Law

The Seventh Circuit repeatedly stated that Motorola must seek its remedies abroad, under the laws of the country in which its subsidiaries are incorporated. 105 Yet only a few Asian countries even allow for recovery of private antitrust damages, and these countries generally disallow class actions and require plaintiffs to pay all court costs. 106 Moreover, in Motorola’s case, the evidence suggests that none of the injury arising from panels shipped into the United States was suffered overseas; rather, the inflated prices paid by the purchasers abroad were passed through to the United States and ultimately paid by U.S. consumers. 107 It is not likely that foreign purchasers, even if they have private rights of action in their home countries, can recover without proving actual damages. 108

The ease with which the Seventh Circuit dismisses concerns about the elimination of private enforcement may suggest an underlying assumption that criminal prosecution and fines here and abroad are sufficient to deter global cartel conduct. Yet successfully conducted global cartels have been highly profitable, 109 and criminal fines, when issued at all, are small in comparison to profits earned by members of global cartels. 110 The Sherman Act attempts to address this issue by imposing treble damages on violators, but in most other countries private actions lack this deterrent force. 111Thus, the consequence of the panel decision is to remove any deterrent effect of private actions from the cost-benefit calculus of cartel members.

Given the dearth of effective private damages remedies in many foreign jurisdictions and the inability of government enforcement to adequately deter global cartel activity, private plaintiffs may be expected to argue (1) that the application of the FTAIA in Motorola II should not be accepted by other courts outside the Seventh Circuit, and (2) that the bar to indirect purchaser claims under federal antitrust law should be changed (presumably by the Supreme Court) to allow indirect purchasers to assert damages claims as the DOJ proposed.

#### Only the plan can overturn Illinois Brick – key to treble damages.

Ryu 16 [Jae Hyung Ryu, B.A., Yale University, New Haven, Connecticut. J.D. Candidate (2017), Washington University School of Law, St. Louis, “Deterring Foreign Component Cartels in the Age of Globalized Supply Chains,” 2016, *Wake Forest Journal of Business and Intellectual Property Law*, Vol. 17, No. 1, http://ipjournal.law.wfu.edu/files/2017/01/Ryu-V-17-I1.pdf, EA]

Moreover, the Supreme Court’s action is necessary due to a potential conflict with the indirect purchaser doctrine outlined in Illinois Brick. 178 The indirect purchaser doctrine stipulates that only the “overcharged direct purchaser, and not others in the chain of manufacture or distribution, is the [injured] party” in the antitrust context.179 Part V will explain that the concerns posed by the indirect purchaser doctrine should not bar the antitrust laws from being applied to the importation of finished products incorporating price-fixed components.180 Nevertheless, because the indirect purchaser doctrine remains the law, the Supreme Court should reexamine the validity of the doctrine in the context of today’s age of globalized supply chains. 181 Moreover, as a commentator warned, the blanket application of the indirect purchaser doctrine will render the Sherman Act powerless to achieve the deterrence goal.182 It is notable that the Illinois Brick Court created a caveat in its indirect purchaser doctrine holding, leaving room for abandoning or modifying the doctrine if the “effectiveness of the antitrust treble-damages action would be substantially reduced by” the doctrine. 183 The prevalence of globalized supply chains and amounting voices arguing that U.S. antitrust laws would be powerless to mitigate anticompetitive harms outside its borders should supply sufficient grounds for the Supreme Court to revisit Illinois Brick and examine if that caveat rings truer today.

#### Broad antitrust is inevitable in all sectors and agencies.

MFEM 8/19 [Masuda, Funai, Eifert & Mitchell, Ltd; August 19; Law firm; Mondaq, “The Implications of President Biden's ‘Executive Order on Promoting Competition in the American Economy,” <https://www.mondaq.com/unitedstates/antitrust-eu-competition-/1103288/the-implications-of-president-biden39s-executive-order-on-promoting-competition-in-the-american-economy>]

On July 9, 2021, President Joe Biden signed a sweeping executive order titled the “Executive Order on Promoting Competition in the American Economy” (the “Order”), affirming the policy of the Biden administration to “enforce the antitrust laws to combat the excessive concentration of industry, the abuses of market power, and the harmful effects of monopoly and monopsony.” To achieve this, the Order, among other things, directs regulatory agencies to assert oversight over certain business practices and encourages regulatory agencies to develop and/or strengthen rules. The Order includes 72 initiatives by more than a dozen federal agencies.

The Order specifically cites the areas of “labor markets, agricultural markets, Internet platform industries, healthcare markets (including insurance, hospital, and prescription drug markets), repair markets, and United States markets directly affected by foreign cartel activity.” The scope of this order is broad. On the other hand, the Order itself does not create new regulations or laws, leaving the specific implications of it vague.

Although the implications of the Order are not limited to the area of antitrust, the Order reflects the Biden Administration's emphasis on it. For example, the Order encourages the DOJ and other agencies responsible for banking to update guidelines on banking mergers to provide heightened scrutiny of mergers. The Order also encourages the DOJ and the FTC to challenge prior “bad mergers,” meaning that mergers that went unchallenged under previous administrations may be challenged in the future. Another specific area that the Order focuses on is the right to repair; it encourages the FTC to limit equipment manufacturers from limiting consumer's rights to repair.

Other affected areas of law include, but are not limited to, labor and employment (e.g. non-compete agreements) and consumer protection (e.g. financial data portability). Corporations with any significant activity in the United States should assess the impact that the Order would have on their businesses and prepare for the materialization of the specific initiatives included in the Order.

# 2AC

## Disclosure

#### Interpretation: Debaters must disclose open source all negative docs on the 2021-2022 College Policy Debate Caselist at least one hour before the round.

#### Violation: They didn’t disclose docs from Wyoming and Two Step

Table

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#### Vote aff –

#### 1. Debate resource inequities — small schools know relevant args they’ll hit

#### 2. Clash – we’ll rely on substantive strategies instead of generics that don’t link

#### 3. Evidence ethics – key to ensure you’ve cut cards ethically

#### 4. Weeds out anti-educational args – you’ll prep knowing people have answers

## Cartels

### AT: Energy Cartels Good

#### Their ev is about domestic cartels which the aff doesn’t impact – we read green

1NC Coleman 20 (James W. Coleman is a professor of law at SMU, he received two degrees from Harvard University — a J.D. (cum laude) and B.A. in biology (magna cum laude with highest honors in the field). Upon graduation from law school he served as clerk for Eighth Circuit Judge Steve Colloton, and then practiced energy, environmental, and appellate law as an associate in the Washington, D.C., firm of Sidley Austin LLP for three years. “STATE ENERGY CARTELS” <https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3567236)sw>

Fracking has made America the center of global oil production and the engine of the world’s economy. But haste makes waste. America’s new oil wells are releasing natural gas as well, which is prized as a clean and reliable fuel around the world, but must be simply burned off or “flared” if there are no pipelines to bring it to the customers that need it. The pace of the oil boom, and the challenges of building new pipelines have forced oil companies to flare staggering quantities of natural gas. Texas and North Dakota are now flaring—that is, wasting—more gas than many states or even nations consume. This Article shows that to stop this economic and environmental waste, states must develop a new approach to antitrust law. It makes the case for state energy cartels. One of the few consensus grounds for regulation is combating market power—preventing dominant suppliers from increasing their profits by selling less at higher prices. States break up producer cartels so that competition provides consumers with lower prices. But what happens when a state’s interest coincides with producers rather than consumers? The economic health of major energy exporters depends on the price of the products they export. That is, these states, provinces, and countries can benefit by increasing the price of the oil and gas. For the first half of the twentieth century, the United States was the world’s premier oil exporter; during that time, U.S. states cooperated as a de facto cartel to ensure higher oil prices. When other countries overtook the U.S. as the world’s top oil producers, they formed the Organization of Petroleum Exporting Countries to play a similar role. This article explains how state cartels offer the best solution to the flaring crisis and a unique opportunity for productive global cooperation to address climate change. It shows how states can slow production, protect the environment, and increase their industries’ profits by adapting and perfecting tools that the United States stumbled upon in the first half-century of oil production. And it shows how these tools can be tailored to protect consumers, industry, and the environment. It is difficult to exaggerate the power of OPEC, the Organization of Petroleum Exporting Countries, which coordinates production of oil by many of the world’s leading exporters. The world’s economies tremble in anticipation of its every communique. When OPEC restricts production, world oil prices rise; and when oil prices rise, the global economy suffers. Since World War II all but one U.S recession was preceded by rising oil prices. 1 Why would these oil-producing countries conspire to cut oil production? The answer is that OPEC is the world’s most prominent example of market power—the monopolist’s ability to raise profits by cutting production.2 In past decades, these countries together controlled a large enough share of world production that when they cut their production, prices rose enough to more than compensate them for selling less oil. 3 That is, what these countries lost in lower sales volume, they more than made up for in higher sales prices. But these oil behemoths are also different from a normal monopolist in two ways. First, they are sovereign nations so they must balance the interests of oil consumers in their country with their oil producers’ interest in high prices. Second, they are managing a long-term resource: their vast stores of oil wealth. They have to consider the long-term value of this resource, ensuring that prices are high enough that they do not run out of oil and simultaneously making sure prices are low enough that alternatives such as ethanol and electric vehicles do not become too attractive. How rapidly should these countries produce oil? To answer this delicate and fateful question, the OPEC cartel can rely on the field of conservation economics, developed in the United States in the first half of the twentieth century to manage its own oil wealth, which at the time dominated world supplies.4 The short answer is that a country with dominant market power should produce oil rapidly enough that the price of oil is affordable but gradually and smoothly rises over time as supplies dwindle.5 The United States, unexpectedly, is facing this momentous question again because it is emerging from history’s biggest oil boom, driven by directional drilling and hydraulic fracturing. 6 This combination of technologies, generally known as “fracking,” has more than doubled American oil production in just a few years and turned the United States into one of the world’s leading oil and gas exporters. 7 As an energy exporter the United States will have to face the central issue that has driven OPEC—what rate of production would maximize the value of its vast, newfound oil and gas reserves? In fact, it may find itself increasingly aligned with the oil exporting countries in OPEC, with the same interest in smoothing global production of crude oil.8 That dynamic is already developing as the United States increasingly works with Saudi Arabia to ensure that U.S. sanctions on Iran do not disrupt global oil supplies. 9 And it has accelerated as the March 2020 collapse in global oil prices sparked U.S.-OPEC negotiations on oil prices and production.10 As momentous as these oil questions are, there is an even more pressing governance crisis: over-production of natural gas. Fracked oil wells also produce “associated gas”—natural gas molecules that are trapped together with the oil now being produced from shale rock layers.11 These gas molecules are released along with oil when shale rock is threaded by drilling horizontally and then hydraulically fractured.12 When this gas reaches the top of the wellhead, the oil company can separate it from the crude oil and ship it by pipeline to natural gas consumers.13 But if there is not yet a pipeline to bring this natural gas to markets, or if local markets are already over-supplied with gas, an oil company considering drilling a new well faces a difficult choice. In theory, it could wait to drill for oil until a pipeline is built for gas, but oil companies typically need immediate oil production to pay the rotating debt that finances their investments.14 Or it could drill the well, sell the oil, and simply burn or “flare” off the gas.15 Oil companies in Texas’s Permian Basin and North Dakota’s Bakken Shale are increasingly drilling immediately, profiting from shale oil and flaring off more and more associated gas.16 By 2019, oil wells in each of these formations were flaring more gas than many states consume; together these two formations are flaring more gas than is consumed by all 49 million people in Colombia.17 This tremendous economic and environmental waste is just a more severe, and localized version of the age-old oil exporter dilemma: a race for production often fails to maximize the long-term value of the hydrocarbon resource. Oil companies cannot solve this dilemma by themselves. If a single oil and gas producer slowed its drilling, it would do nothing to raise gas prices; it would only delay its profit from oil production. But if oil companies tried to band together and slow production so all companies could benefit from higher natural gas prices, they would be criminally liable for price-fixing under the Sherman Act.18 By contrast, states and nations have tools for maximizing the long-term value of their oil and gas resources. These tools were developed in the United States in the first half-century of the oil industry when American oil ruled the world.19 These tools fell into disuse in the past half-century as the United States became a net-energy importer, identifying its interests with consumers in need of cheap energy and not with producers looking to prop up the value of their goods. Now, as history’s biggest commodity boom returns America to its place as a leading global energy exporter, the United States must adapt these old tools to ensure maximum benefit from the new boom. This Article shows how the nation and its fifty states can maximize the long-term benefit from the unprecedented oil and gas boom by minimizing environmental and economic waste. It examines antitrust law from a novel angle, showing what happens when the state’s interest is aligned with producers rather than consumers.20 It develops the theory of state cartels, showing how jurisdictions can maximize the long-term value of their natural resources by slowing production and banding together with other producing jurisdictions. And it shows how this novel theory could be employed to address the nation’s crisis of natural gas flaring. This Article also shows why state cartels create a unique opportunity to harness the self-interest of the world’s oil and gas superpowers to slow global climate change. State cartels increase the profits of oil and gas producers but they also dramatically slow production and use of fossil fuels. If the U.S. can use its new dominance of global energy to coordinate production cuts that raise global oil and gas prices, it will increase cash flow to Saudi Arabian, Russian, and American oil companies while making concrete progress on climate change and encouraging cleaner technology. Even if U.S. states only cut back production enough to stop flaring, they can still win huge environmental benefits. Natural gas burns much more cleanly than dirtier fuels, such as oil and coal, that provide heating and power to much of the world.21 When natural gas is flared at the well, it is just an environmental liability. If it can be saved and transported to the markets that need it to replace oil and coal, it will be an environmental asset, providing cleaner air around the globe.

#### No energy wars.

Meierding 20, assistant professor of national security affairs at the Naval Postgraduate School in Monterey, California. (Emily, 8-2-2020, "The Exaggerated Threat of Oil Wars", *Lawfare*, https://www.lawfareblog.com/exaggerated-threat-oil-wars)

Happily, the historical record indicates that China and its neighbors are unlikely to escalate their energy sparring. Contrary to overheated rhetoric, countries do not actually “take the oil,” to use President Trump’s controversial and inaccurate phrase. Instead, my recent research demonstrates that countries avoid fighting for oil resources. No Blood for Oil Between 1912 and 2010, countries fought 180 times over territories that contained—or were believed to contain—oil or natural gas resources. These conflicts ranged from brief, nonfatal border violations, like Turkish jets entering Greek airspace, to the two world wars. Many of these clashes—including World War II, Iraq’s invasion of Kuwait (1990), the U.S. invasion of Iraq (2003), the Iran-Iraq War (1980-1988), the Falklands War (1982), and the Chaco War between Bolivia and Paraguay (1932-1935)—have been described as classic oil wars: that is, severe international conflicts in which countries fight to obtain petroleum resources. However, a closer look at these conflicts reveals that none merits the classic “oil war” label. Although countries did fight over oil-endowed territories, they usually fought for other reasons, including aspirations to regional hegemony, domestic politics, national pride, or contested territories’ other strategic, economic, or symbolic assets. Oil was an uncommon trigger for international confrontations and never caused major conflicts. On approximately 20 occasions, over almost a century, countries engaged in minor conflicts to obtain oil resources. However, these “oil spats” were brief, mild, mostly nonfatal, and generally involved countries whose hostility predated their resource competition. Greece and Turkey have prosecuted oil spats. So have China and Vietnam, Guyana and Venezuela, and a dozen other pairs of countries. These confrontations inspired aggressive rhetoric while they were underway, but none of them ever escalated into a larger armed conflict.

### AT: Cartels K2 Trade

#### US protectionism is high, inevitable, and thumps.

---Biden will continue Trump’s protectionist policies (he just conducted an 8-month review of trade policy and concluded more tariffs are good) which triggers protectionist tariffs from China and every other nation

---its part of a sea change in US policy which sees the international as zero sum and guarantees the US will continue to engage in protectionist measures

---our evidence is structural and predictive – prefer it to neg evidence that is snapshot or about previous policies

Zakaria 10-7 [Fareed Zakaria writes a foreign affairs column for The Post. He is also the host of CNN’s Fareed Zakaria GPS and a contributing editor for the Atlantic, “Opinion: Candidate Biden was right on trade. President Biden is wrong.”, October 7, 2021, https://www.washingtonpost.com/opinions/2021/10/07/biden-is-wrong-on-trade-with-china/] IanM

After an **eight-month review** of the United States’ **trade policies** toward China, the **Biden** administration has concluded that Donald **Trump** was **right** and Joe Biden was wrong. On the campaign trail, Biden relentlessly attacked Trump’s tariffs on Chinese goods, [calling them](https://www.cnbc.com/2020/09/08/bidens-hands-may-be-tied-on-trumps-china-tariffs-trade-experts-say-.html) “disastrous.” Now, he has adopted those same “disastrous” policies.

**But** candidate Biden was right: Trump’s tariffs did not work. China’s behavior did not change, high-wage jobs did not come back, and while the U.S. deficit with China decreased, this caused the overall U.S. [trade deficit](https://www.brookings.edu/blog/order-from-chaos/2020/08/07/more-pain-than-gain-how-the-us-china-trade-war-hurt-america/) to go up. **Beijing responded in kind**, slapping its own tariffs on American goods. One **2020 study found** that “approximately **100 percent” of the costs** of the U.S. tariffs against Chinese goods were **paid for by American consumers** and **businesses**. A **2021 study** **found** that the **tariffs** **cost** the U.S. economy up to **245,000 jobs.**

Trade policy in Washington has **become** an encrusted [bipartisan ideology](https://www.theatlantic.com/international/archive/2021/10/perils-washingtons-china-consensus/620294/), **driven by** a set of unquestioned assumptions. But as Adam S. Posen, president of the Peterson Institute for International Economics, points out in a brilliant [Foreign Affairs essay](https://www.foreignaffairs.com/articles/united-states/2021-04-20/america-price-nostalgia), every one of these assumptions is wrong. We have embraced the dogma that over the past two decades, America opened up its economy to the world and that American workers suffered as a result. But the facts show the opposite. Posen writes, “[The United States] has increasingly insulated the economy from foreign competition, while the rest of the world has continued to open up and integrate.” He adds, “The country suffers from greater economic inequality and political extremism than most other high-income democracies — countries that have generally increased their global economic exposure.”

Much of the impetus for protectionism in general and toward China in particular has **come from claims** that **trade** with China was **responsible** for about **2 million** U.S. manufacturing **jobs lost** — the “China shock.” That sounds like a huge number until you put it into context. The number is for the period 2000 to 2015, so the average number of jobs lost each year was around 130,000.

How many jobs do American workers lose in a typical year through the normal churning of the U.S. economy? Sixty million. Of those, a third are voluntary and a third can be attributed to causes not related to foreign trade, such as an employer closing or relocating — leaving a third, 20 million, caused by external shocks. “In other words,” Posen writes, “for each manufacturing job lost to Chinese competition, there were roughly 150 jobs lost to similar-feeling shocks in other industries.”

Posen points out that only about 16 percent of non-college-educated workers are employed in the manufacturing sector. And much of the [decline](https://conexus.cberdata.org/files/MfgReality.pdf) in manufacturing jobs, if not most of it, can be attributed to changes in technology rather than trade. The United States’ manufacturing output [keeps rising](https://data.worldbank.org/indicator/NV.IND.MANF.CD?locations=US), even as the number of workers it takes to produce those products has [fallen](https://fred.stlouisfed.org/series/MANEMP) over time.

This is not just a U.S. trend. Posen’s institute produced a [chart](https://www.piie.com/research/piie-charts/despite-germanys-trade-surplus-manufacturing-employment-share-total-employment) tracking manufacturing employment in Ohio over the past three decades and compared it to Germany’s North Rhine-Westphalia (a similarly important manufacturing region). Unlike the United States, Germany has a [trade surplus](https://tradingeconomics.com/germany/balance-of-trade). It provides much [governmental assistance](https://www.dw.com/en/germany-to-pump-additional-3billion-in-ailing-automotive-industry/a-55641102) for manufacturing, which is seen as the heart of the German economy. Yet the job losses are even more pronounced in Germany. Even China has overall been [losing manufacturing jobs](https://www.piie.com/blogs/china-economic-watch/chinas-manufacturing-job-losses-are-not-what-they-seem) as its economy branches into software and services.

It is also worth noting that manufacturing jobs in the United States are mostly held by workers who are [male and White](https://www.foreignaffairs.com/articles/united-states/2021-04-20/america-price-nostalgia). A policy that obsessively focuses on them devalues the many good jobs in other sectors, which have more women and minorities in them. These groups, being poorer, are also disproportionately affected by the higher cost of tariffed goods. More protectionism means [more economic pain](https://www.washingtonpost.com/us-policy/2019/06/07/repeat-after-me-tariffs-are-bad-economy/?itid=lk_inline_manual_14) for the vast majority of middle-class workers.

Posen points out that the chief reason for many of the United States’ economic inequities and discontents is not open trade but stingy domestic spending. He argues that all workers would gain from a more secure safety net, one in which benefits such as health care are “portable,” meaning not tied to employment. That is where misguided market economics have distorted public policy. More and better benefits — of the kind President Biden is proposing — would help displaced workers, reduce inequality and improve job readiness.

**Writing** all **this** sometimes feels pointless. Protectionism has **become** one of those zombie ideas that continue to move forward despite all the evidence showing them to be wrong. **Most worryingly**, it is part of a sea change in the **U**nited **S**tates’ **basic outlook**. From an **optimistic** and confident **view** that we can **thrive in a world** in which **others also do well** — a view borne out by the data — we are now retreating to a cold, curdled view of international life, one that is dark and zero-sum, in which we search for villains to blame for our problems. It’s a world in which **we try to gain** some **narrow benefit** for ourselves by cheating everyone else. In other words, it is the Donald Trump way.

#### Anticompetitive practices disrupt trade more- countries want more enforcement

Ikejiaku, 21 – Coventry University law professor

[Brian, and Cornelia Dayao, "Competition Law as an Instrument of Protectionist Policy: Comparative Analysis of the EU and the US, Utrecht Journal of International and European Law," 2021, 36.1, HeinOnline, accessed 6-8-21]

The impact of anti-competitive business practices on international trade is the most important concern in trade policy.[104] Experts[105] recognise that anti-competitive practices of firms, in addition to trade barriers, hamper international trade. Hence, the necessity to integrate or at least align competition and trade policies has been formally recognised as early as the proposal for the establishment of the International Trade Organisation (Havana Charter). The Havana Charter contained provisions which encourage member states to prohibit business practices that affect international trade which restrain competition, limit access to markets, or foster monopolistic control whenever such practices are harmful to trade.[106] Nonetheless, the Havana Charter was not ratified and was instead succeeded by the GATT of 1947, which salvaged some of the provisions from the Havana Charter. Thus, the negotiating parties that created the GATT of 1947 had shown a public awareness that arrangements designed to foster trade could be undermined when commercial enterprises engaged in cartels or other restrictive business practices, and these negotiating parties had proposed treaty provisions to ensure that competition policy would reinforce government measures for international trade.[107] Subsequently, the World Trade Organisation was established in 1995 to succeed the GATT of 1947. Efforts to include competition policy within the trade policy framework in the WTO have proved particularly challenging due to lack of agreement among member States on competition policy.[108] Support for international discipline regarding competition law was originally stimulated by US perceptions that international cartels and the absence or lack of enforcement of national competition law obstructed the ability of US firms to contest markets.[109] The US supported the inclusion of a chapter dealing with restrictive business practices, reflecting its views against German cartels and Japanese zaibatsu who are the main opposition to including competition law in the WTO.[110] In recent times, the EU has been in the lead, arguing that all WTO members must adopt and enforce competition laws. Developing countries have not been at the center of the debate on trade and competition in the WTO.[111] However, competition policy has an important role in developing countries, both in promoting a competitive environment and in building and sustaining public support for a pro-competitive policy stance. However, the issue is that many do not have competition laws; those that do often have limited implementation ability.[112] The bottom line of the debate is that any agreement on international competition policy that goes beyond general procedural cooperation and introduction of transparency mechanisms likely must be plurilateral, at least initially.

#### Trade doesn’t solve war

van de Haar 20 [Edwin van de Haar, formerly a visiting fellow and lecturer in political theory at John Tomasi’s Political Theory Project at Brown University, a lecturer in international relations and political economy at the Institute of Political Science at Leiden University, and a lecturer in international relations at the European Studies Program at Ateneo de Manila University, “Free trade does not foster peace,” 2020, *Economic Affairs*, Vol. 40, Issue 2, pp. 281-286, https://doi.org/10.1111/ecaf.12405, EA]

Trade is unable to foster peace, because it is unable to overcome many causes of war. Think about cultural and religious differences, geopolitical causes such as the fight for natural resources, including increasingly rare raw materials, or more traditional wars between great powers or their proxies over a border dispute. States may also act against their economic interest for some perceived higher goal (Coker, 2014). The causes of war are often multifaceted and complex. Wars happen because people have reasons to fight, in the form of goals and grievances, and possess enough resources and resolve (Ohlson, 2009). Trade relations are just one factor in the mix of causes of war, which include such coincidental factors as chance, luck, or reckless behaviour by individuals who happen to influence public policy. International commerce is simply not a “perfectly effective antiwar device” (Suganami, 1996, pp. 153–210). The best one can say is that the protection of trade relations is sometimes one of the factors in the decision not to wage war. Nothing less, nothing more.

To sum up, many of Adam Smith's arguments still stand, and are confirmed or complemented by modern research. There is no solid ground for the expectation that trade promotes, fosters, or leads to peace. Generally, international economic interests are not the crucial factors in decisions over war and peace. Too many other factors come into play. To believe that trade fosters peace was folly even hundreds of years ago. To still think so is to believe in fairy tales, to be ~~blinded~~ by the correlates computed by limited yet available datasets, or both.

## Uncertainty

## Illinois Brick

## States CP

#### 1 – Preemption – comity and FTAIA restrictions on Sherman ensures state laws fail.

Cavanagh 11 [Edward D. Cavanagh, Professor of Law, St. John's University, “The FTAIA and Claims by Foreign Plaintiffs Under State Law,” 2011, *Antitrust*, Vol. 26, No. 1, HeinOnline, EA]

The prescriptive comity principle relied on by the Supreme Court in Empagran applies equally to state law claims for reasons already discussed. First, Empagran is a decision by the highest court interpreting the reach of the Sherman Act and therefore should be authoritative with respect to state antitrust statutes under harmonizing statutes and case law referred to above. Second, it would be anomalous for a court to find that the jurisdiction of state courts in matters of commerce exceeded that of federal courts. 80 Third, the case law, although sparse, confirms that the jurisdictional reach of state antitrust laws and state consumer protection statutes cannot exceed that of the Sherman Act. 81

#### 2 – Jurisdiction, Uncertainty, Unconstitutional.

Greenfield 15 [Leon Greenfield, Steven Cherry, Perry Langel, and Jacquelyn Stanley, partners, counsel, and associate in the Washington, D.C. office of WilmerHale, “Foreign Component Cartels and the U.S. Antitrust Laws: A First Principle Approach,” 2015, *Antitrust*, Vol. 29, No. 2, HeinOnline, EA]

Given that the Illinois Brick doctrine bars most indirect purchaser claims under federal antitrust laws, the question of whether U.S. antitrust laws should apply to component sales in wholly foreign markets will often arise in the context of indirect purchaser suits under state antitrust laws that recognize such claims. For instance, as described above, in the TFT-LCD Panel MDL, a class of self-styled indirect purchasers of TFT-LCD panels brought claims based on their purchases of finished products containing price-fixed panels. These private actions were brought under various state antitrust laws. Although the FTAIA is a creature of federal, not state law, we believe that its underlying principles dictate that cartel conduct in foreign component markets is not actionable under state antitrust law either.

When the court in the TFT-LCD Panel MDL addressed the indirect purchaser claims before it (discussed above), it held that the claims met the FTAIA’s domestic effects test. 54 It, therefore, did not reach the question of whether these state law claims could reach foreign conduct that the Sherman Act could not. 55 In our view, the fundamental analysis does not change regardless of whether component indirect purchaser actions are brought under state law, including Illinois Brick repealer statutes.

First, on their own terms, state antitrust laws—similar to federal antitrust statutes—regulate conduct that distorts the competitive process in markets that are within the state’s regulatory reach, not price levels within its borders standing alone. 56 That being so, Illinois Brick repealer laws cannot properly be read to authorize suits by state residents claiming pass-on injuries derived from distortion of foreign markets that the state’s antitrust laws do not reach. 57 Repealer statutes merely allow indirect purchasers to recover if they can prove that—as a result of pass-on—they were actual economic victims of conduct that violates the state’s antitrust laws. 58 They do not make wholly foreign conduct a violation of state law or provide redress for purely downstream effects, in and of themselves. 59

Moreover, the principle that U.S. antitrust laws regulate only U.S. markets should apply even more strongly to state antitrust laws because the states do not have any role in regulating commerce involving foreign nations, much less the wholly foreign commerce involved in many component cartels. 60 If state antitrust laws were permitted to reach into foreign markets when federal laws do not, that would circumvent national policy regarding the appropriate bounds of U.S. antitrust laws established by Congress and the President, which have exclusive authority over foreign commerce and U.S. foreign policy. 61 Allowing the antitrust laws of the 50 states, the District of Columbia, and U.S. territories to regulate purely domestic conduct within other countries’ economies would result in a cacophony of uncertainty to the application of U.S. antitrust laws overseas, precisely the problem that Congress enacted the FTAIA to address. 62

It is beyond the scope of this article to discuss the constitutional issues that could arise if state antitrust laws were construed to extend to foreign commerce that Congress has declared beyond the reach of federal antitrust law. But there are, at the least, very serious questions about whether constitutional provisions fundamental to our system of federalism—such as the Supremacy Clause, the Dormant Foreign Commerce Clause, and the “one voice” doctrine—would bar state law from interfering with Congress’s decision to limit the extraterritorial reach of U.S. laws through the FTAIA. 63

#### Leonardo says we solve otherwise-inevitable expatriation – causes totalitarianism.

Bone 20 [Jeff Bone, Assistant Professor of Legal Studies, Haub School of Business, Saint Joseph's University, “Antitrust Reform: Implications of Prospective Threats by Digital Platforms to Relocate Abroad,” 2020, *Belmont Law Review*, Vol. 8, Issue 1, https://ssrn.com/abstract=3574303]

Instead of choosing one jurisdiction, perhaps these digital platforms could spread themselves across several nations, in a strategic move, to demonstrate that they can come and go as they please. Further, they can deploy their activities worldwide and choose where to report profit.79 In this way, it is possible that these corporations have reached a sphere of dominance and control where they have become, in effect, transnational and ungovernable by any one particular state.80 It has been predicted that increasing concentration of corporate power may result in tyrannical organizations that are beyond domestic regulatory control.81 In order to govern their activities, new international rules will have to be developed and targeted at these fluid multinational business structures. This is essential as the world transitions away from the post-Cold War Neoliberal order towards a “Geoeconomic Order.”82 In this new era, the rise of economic power becomes the dominant force in geopolitics.83

In this sense, one commentator has written of the need for the “modern law” to give way to the “post-modern law” in order to adjust to a new normal.84 One noted historian has even envisaged the progression towards a dystopian world order, where transnational corporations align with multinational military forces, such as NATO, to form a “supranational nexus” that rivals the power of any particular state, or alliance of states which seek to regulate them.85

#### Outweighs extinction

Farquahar 17 [Sebastian Farquhar, John Halstead, Owen Cotton-Barratt, Stefan Schubert, Haydn Belfield, and Andrew Snyder-Beattie, \* DPhil student in Computer Science at the University of Oxford, \*\* professor of environmental economics and chair of the Department of Resource Economics and Development at the University of New Hampshire, \*\*\* DPhil in mathematics from the University of Oxford, \*\*\*\* Ph.D. in philosophy from Lund University, \*\*\*\*\* Associate Fellow at the Leverhulme Centre for the Future of Intelligence, \*\*\*\*\*\* Director of Research at the Future of Humanity Institute, Global Priorities Project 2017, “Existential Risk: Diplomacy and Governance,” 01/23/17, https://www.fhi.ox.ac.uk/wp-content/uploads/Existential-Risks-2017-01-23.pdf, Accessed: 08/03/20, EA]

During the twentieth century, citizens of several nations lived for a time under extremely brutal and oppressive regimes.47 Between them, these states killed more than one hundred million people, and sought total control over their citizens. Previous totalitarian states have not been particularly durable chiefly due to the problem of ensuring orderly transition between leaders, and to external competition from other more liberal and successful states. However, there is a non-negligible chance that the world will come to be dominated by one or a handful of totalitarian states. If this were to happen, external competition would no longer threaten the durability of such states to the same extent. Moreover, improvements in certain forms of technology may make it easier for totalitarian states to maintain control, for example by making surveillance much easier. Global totalitarianism could exacerbate other existential risks by reducing the quality of governance. In addition, a long future under a particularly brutal global totalitarian state could arguably be worse than complete extinction.

## DOJ DA

#### DOJ is failing now – case overload means they’re stretched too thin.

Goolsbee 20 [Austan; September 30; Professor of economics at the University of Chicago’s Booth School of Business, has been a Department of Justice antitrust consultant, and was an adviser to President Barack Obama; *New York Times,* “Big Companies Are Starting to Swallow the World,” <https://www.nytimes.com/2020/09/30/business/big-companies-are-starting-to-swallow-the-world.html>; KS]

First, the enforcement budget for antitrust actions was already stretched way too thin even before the current crisis began. That budget has been falling for years and is lower now than it was two decades ago. The entire antitrust division of the Justice Department and the F.T.C. are being forced to operate on less than a single company like Facebook brings in over a few days. In the last 10 years, the number of merger filings (which notify the authorities of an intended merger) has almost doubled, but the number of enforcement actions taken by the government has actually fallen.

#### 0 risk of a link – the plan is civil remedies.

Simmons 18 [Jay; November; Executive Senior Editor, Southern California Law Review, Volume 92; J.D. Candidate 2019, University of Southern California Gould School of Law; B.S., summa cum laude, Political Science and Economics 2016, Bradley University; *Southern California Law Review,* “What’s in a Claim? Challenging Criminal Prosecutions Under the FTAIA’s Domestic Effects Exception – Note by Jay Kemper Simmons,” https://southerncalifornialawreview.com/2018/11/02/whats-in-a-claim-challenging-criminal-prosecutions-under-the-ftaias-domestic-effects-exception-note-by-jay-kemper-simmons/; KS]

A final consideration concerns the distinct remedies that the overall statutory scheme envisions for civil and criminal antitrust violations. According to regulators’ conception of the Sherman Act and its penalties, violations “may be prosecuted as civil or criminal offenses,” and punishments for civil and criminal offenses vary.[153] For example, available relief under the law encompasses penalties and custodial sentences for criminal offenses, whereas civil plaintiffs may “obtain injunctive and treble damage relief for violations of the Sherman Act.”[154] Regulators also recognize that the law envisions distinct means of enforcing criminal and civil offenses under the Sherman Act. For example, the DOJ retains the “sole responsibility for the criminal enforcement” of criminal offenses and “criminally prosecutes traditional per se offenses of the law.”[155] In civil proceedings, private plaintiffs and the federal government may seek equitable relief and treble damage relief for Sherman Act violations.[156]

#### Private enforcement link turn – the aff allows private actors harmed by anticompetitive conduct to bring cases themselves which takes a load off the DOJ.

Harrington 15 [Joseph; 1/29/15; Patrick T. Harker Professor, Department of Business Economics & Public Policy, at The Wharton School, University of Pennsylvania; CPI Antitrust Chronicle; “The Comity-Deterrence Tradeoff and the FTAIA: Motorola Mobility Revisited,” https://www.competitionpolicyinternational.com/the-comity-deterrence-trade-off-and-the-ftaia-motorola-mobility-revisited/]

Of greater relevance is the second reason for the lack of public enforcement, which is that the government suspects unlawful collusion but chooses not to litigate. The Antitrust Division of the U.S. Department of Justice (“DOJ”) has limited resources, which means all possible cases cannot be pursued. Furthermore, the presence of a resource constraint impacts the type of cases that are pursued. These days, the DOJ’s caseload is heavily oriented to cases involving the leniency program but not all forms of collusion lend themselves to a firm receiving amnesty. A member of a hard-core cartel engaged in a per se offense can expect to receive leniency if it is the first to come forward but there are many cases of collusion that do not involve behavior that is per se unlawful. Given the lower threshold for a conviction in a civil case, private litigation has been, and will continue to be, essential in prosecuting these less flagrant, but no less harmful, forms of collusion.  
While it is difficult to document case selection by the DOJ, there is certainly evidence consistent with it being a substantive factor. In noting that the DOJ obtained convictions in 92 percent of 699 cases filed over 1992 to 2008, Professors Robert Lande and Joshua Davis comment:17

The DOJ appears much more willing to tolerate a false negative (a failure to prosecute a violation of the antitrust laws) than a false positive (litigating a case when in fact there was no violation). In other words, it appears the DOJ chooses not to pursue litigation in many meritorious cases, perhaps at least in part because it lacks the necessary resources. This may well create a need for private litigation as a complement to government enforcement of the antitrust laws.

#### Big wins link turn – successful prosecutions of foreign cartels would spur Congress to increase DOJ antitrust budgets even if the DOJ isn’t the source of that.

Evenett 2k [Simon Evenett, Alexander Lehmann, and Benn Steil, “Antitrust Policy in An Evolving Global Marketplace,” 2000, Brookings, pp. 15, https://www.brookings.edu/wp-content/uploads/2016/07/antitrust\_global\_chapter.pdf]

Finally, holding constant factors such as the general level of economic activity and agency caseloads, there is a positive relationship between foreign competition and funding for the Federal Trade Commission and the Antitrust Division of the Justice Department.28 This would appear to indicate that antitrust, rather than being solely driven by consumer welfare considerations, is at the service of domestic firms adversely affected by imports. If trade stimulates antitrust, particularly targeted at foreign firms, the potential for direct conflict of laws and lobbying interests across borders can only grow as economic globalization progresses.

## Politics DA

#### AICO thumps

Gold, 1-20 – Axios tech and policy reporter

[Ashley Gold, and Margaret Harding McGill, "Tech antitrust bill headed to Senate floor," Axios, 1-20-2022, https://www.axios.com/tech-antitrust-bill-passes-senate-committee-833ebc8e-9874-4577-a8f8-08c44bc21463.html, accessed 1-26-2022]

Tech antitrust bill headed to Senate floor

A bipartisan antitrust bill targeting "self-preferencing" by major tech platforms is on its way to the Senate floor, after the Senate Judiciary Committee favorably voted on it Thursday.

Why it matters: Today's vote puts the bill one step closer to President Biden's desk. If passed, it would mark a major blow to tech companies, which could completely change the way they operate.

Driving the news: The American Innovation and Choice Online Act passed through the committee with a 16-6 vote.

It would prohibit Big Tech companies from favoring their own services in an anti-competitive way, something smaller tech companies have accused companies like Apple, Google, Amazon and Meta of doing for years.

The vote took place after a flurry of lobbying from major tech platforms, including up to the CEO level, who argued the process has been rushed and that the bill as written would majorly hurt their ability to serve customers.

Yes, but: The fight for a floor vote will be fierce. The House Judiciary Committee advanced a package of antitrust bills aimed at Big Tech in June, but they have not yet received a vote by the full chamber.

What they're saying: During an at-times contentious hearing, a number of senators, including California Democrats (who ended up voting to advance the bill out of committee) and Sen. Mike Lee (R-Utah), said they had large concerns about the bill. Others said they would support it, but that it needs further work before a full Senate vote.

#### Even controversial cases are accommodated.

Whittington 5 [Keith E. Whittington, Cromwell Professor of Politics – Princeton University, ““Interpose Your Friendly Hand”: Political Supports for the Exercise of Judicial Review by the United States Supreme Court,” 2005, *American Political Science Review*, 99(4), p. 585, 591-592]

Political leaders in such a situation will have reason to support or, at minimum, tolerate the active exercise of judicial review. In the American context, the presidency is a particularly useful site for locating such behavior. The Constitution gives the president a powerful role in selecting and speaking to federal judges. As national party leaders, presidents and presidential candidates are both conscious of the fragmented nature of American political parties and sensitive to policy goals that will not be shared by all of the president’s putative partisan allies in Congress. We would expect political support for judicial review to make itself apparent in any of four fields of activity: (1) in the selection of “activist” judges, (2) in the encouragement of specific judicial action consistent with the political needs of coalition leaders, (3) in the congenial reception of judicial action after it has been taken, and (4) in the public expression of generalized support for judicial supremacy in the articulation of constitutional commitments. Although it might sometimes be the case that judges and elected officials act in more-or-less explicit concert to shift the politically appropriate decisions into the judicial arena for resolution, it is also the case that judges might act independently of elected officials but nonetheless in ways that elected officials find congenial to their own interests and are willing and able to accommodate. Although Attorney General Richard Olney and perhaps President Grover Cleveland thought the 1894 federal income tax was politically unwise and socially unjust, they did not necessarily therefore think judicial intervention was appropriate in the case considered in more detail later (Eggert 1974, 101– 14). If a majority of the justices and Cleveland-allies in and around the administration had more serious doubts about the constitutionality of the tax, however, the White House would hardly feel aggrieved. We should be equally interested in how judges might exploit the political space open to them to render controversial decisions and in how elected officials might anticipate the utility of future acts of judicial review to their own interests.¶ [CONTINUES]¶ There are some issues that politicians cannot easily handle. For individual legislators, their constituents may be sharply divided on a given issue or overwhelmingly hostile to a policy that the legislator would nonetheless like to see adopted. Party leaders, including presidents and legislative leaders, must similarly sometimes manage deeply divided or cross-pressured coalitions. When faced with such issues, elected officials may actively seek to turn over controversial political questions to the courts so as to circumvent a ~~paralyzed~~ [frozen] legislature and avoid the political fallout that would come with taking direct a ction themselves. As Mark Graber (1993) has detailed in cases such as slavery and abortion, elected officials may prefer judicial resolution of disruptive political issues to direct legislative action, especially when the courts are believed to be sympathetic to the politician’s own substantive preferences but even when the attitude of the courts is uncertain or unfavorable (see also, Lovell 2003). Even when politicians do not invite judicial intervention, strategically minded courts will take into account not only the policy preferences of well-positioned policymakers but also the willingness of those potential policymakers to act if doing so means that they must assume responsibility for policy outcomes. For cross-pressured politicians and coalition leaders, shifting blame for controversial decisions to the Court and obscuring their own relationship to those decisions may preserve electoral support and coalition unity without threatening active judicial review (Arnold 1990; Fiorina 1986; Weaver 1986). The conditions for the exercise of judicial review may be relatively favorable when judicial invalidations of legislative policy can be managed to the electoral benefit of most legislators. In the cases considered previously, fractious coalitions produced legislation that presidents and party leaders deplored but were unwilling to block. Divisions within the governing coalition can also prevent legislative action that political leaders want taken, as illustrated in the following case.

#### If they win a link antitrust good for PC.

Scher 21 – co-host of bipartisan online show and podcast “The DMZ” [Bill Scher, “A Short History of Democrats and Antitrust,” 07/19/21, Washington Monthly, https://washingtonmonthly.com/2021/07/19/a-short-history-of-democrats-and-antitrust/, Accessed: 09/02/21, EA]

Biden’s revival of antitrust isn’t just good policy; it’s also good politics. That’s because it can bridge ideological tensions between the party’s younger left flank and its older centrists. Antitrust has appeal to both factions. Talk of restoring competition may upset a handful of giant corporations, but not the wider swath of smaller businesses and entrepreneurs. Socialists may not love capitalism but it’s hard to see them getting too mad at moderate Democrats who draw real corporate blood in the name of repairing capitalism.

#### Specifically, everyone agrees price-fixing cartels are bad – their evidence is about the “outer limits” of antitrust

Ballon 21 [Ian C. Ballon, Executive Director of Stanford University Law School's Center for E-Commerce, “Antitrust Restrictions on Technology Companies and Electronic Commerce,” 2021, https://www.acc.com/sites/default/files/program-materials/upload/2021-01-14-GT-ACC-InternetLawYIR-Antitrust.pdf, EA]

Since the passage of the Sherman Act in 1890, there have been several evolutions in academic, government, and judicial thinking on the rationales for statutory antitrust laws, intervening periods of vigorous and lax enforcement, and passionate debates and theorizing about the true purposes and efficacy of the laws.35 For many decades, however, antitrust enforcement has been seen as a bipartisan political priority at least where horizontal price-fixing and monopoly-creating mergers are concerned, with debate continuing at what might be considered to be the “outer limits” of antitrust law on issues such as where monopolies, vertical resale price maintenance, or the use of conduct remedies to address foreclosure in the vertical merger context, are all concerned.36

#### Winners win

Roberts, 20 -- Volts correspondent

[David, "Joe Biden should do everything at once," Vox, 12-1-2020, https://www.vox.com/policy-and-politics/21724758/biden-transition-trump-polarized-climate-change-health-immigration, accessed 11-22-2021]

Joe Biden should do everything at once

How to succeed in hyperpolarized politics: run a blitz.

Joe Biden will become the US president during an extraordinary moment in history, one that could very well prove to be the calm before the storm, a brief prelude to dissolution and illiberalism. Trump’s bid to become a full-on authoritarian failed, but Democrats could easily lose the House in a 2022 backlash. Biden could face total congressional opposition, even impeachment — as the recent baseless “stolen election” narrative has shown, if Republicans don’t have any evidence, they’ll just make something up.

Or maybe Democrats will keep the House and take the Senate in 2022, and legislation will become possible! Who knows? (The Georgia Senate runoffs are another big question mark.) If there’s one thing I’ve learned over the past five years, it’s that I definitely don’t know what is going to happen next, and it doesn’t seem like anyone else does either.

What we do know is that Republicans will wage full-on war on Biden from the second he takes office. They will generate fake conspiracies and controversies through right-wing media and social media. Conservative voters will be told again and again that Biden and Kamala Harris are uniquely dangerous traitors engaged in all sorts of elaborate evil plots. The entire conservative movement, from top to bottom, will view limiting Biden to one term as its primary strategic objective. And the movement will engage in misinformation, norm violation, procedural fuckery, and outright lawbreaking, if necessary, to achieve that objective.

The right will be what it is, what it has been becoming for decades now; expecting anything else would be madness. The question is how the Biden administration should behave, knowing all this.

It would be foolish for anyone to claim to have all the answers, or any of the answers really, but in my mind the most pointed lesson about how to behave in a hopelessly partisan environment comes from Donald Trump himself.

Before getting to that (suspense!), it’s instructive to take a look back at some of the experiences of the administration for which Biden was vice president.

Obama’s efforts to collect and spend “political capital” were mostly for naught

When Barack Obama took office in 2009 in a deepening recession, he expected to receive some Republican help bailing out the economy. It’s easy today to look back on that expectation as naive, but at the time it wasn’t unreasonable. The economy was on the brink of disaster, the need was clear, and the depth of conservative backlash was not yet as evident as it would become later.

What happened instead was a wall of opposition from Republicans, built on bad-faith objections about deficit spending and government waste. With so little room to maneuver, Democrats were forced to negotiate with the tiny handful of moderate Republicans and the large handful of conservative Democrats in the Senate, holding the stimulus bill down to their arbitrary spending caps. In the end, the stimulus bill passed with zero Republican votes in the House and just three in the Senate. The result was an inadequate economic boost and a sluggish recovery that hobbled the rest of Obama’s presidency.

Since it was widely agreed that “political capital” was limited and Democrats could only take on one fight at a time, the question then became what to tackle next. The answer proved to be health care reform, perceived as a policy better developed and more widely supported in the Democratic caucus.

In July 2009, Democrats in the House introduced a health care plan based on a system that had been road-tested by Mitt Romney in his recent tenure as governor in Massachusetts. Many Democrats thought the process would take a few months, and then Congress could move on to climate change. Instead, again and again, Republicans lured Democrats into extended negotiations, only to withdraw support at the last minute over some new bad-faith objection (see: “death panels”). That left Democrats negotiating with their most conservative members, who did much the same thing (Joe Lieberman, may his name live in infamy).

In the end, talks dragged on until March 2010, when Obama finally signed the Affordable Care Act. It got no Republican votes, in the Senate or the House.

Then it was finally time for climate change, and the strategy there was yet more clever sequencing. Obama told Republicans that if they didn’t cooperate on climate change legislation, he would regulate greenhouse gases via the Environmental Protection Agency, which would offer less flexibility and less ability to compensate hard-hit communities. The idea was that the threat of EPA regulations — made inevitable by the Supreme Court’s 2007 Massachusetts v. EPA judgment that carbon dioxide is a pollutant subject to the Clean Air Act — would frighten Republicans to the legislative table, where they could better defend their interests.

Instead, Republicans vowed implacable opposition to all of it. They would fight furiously against legislation when it was on the table and then fight regulations just as furiously when they came up.

To a cool Vulcan mind like Obama’s, it seemed entirely irrational, against Republicans’ own best interests. At that point, he had not fully internalized the extent to which the conservative movement has become unleashed id, driven more by right-wing media than by Republican politicians, fueled by resentment and organized purely to defeat the libs.

In June 2009, when the climate bill passed the House, it got eight Republican votes. By mid-2010, it was dead in the water, with no hope of any Republican votes in the Senate. Democrats no longer had their filibuster-proof 60 seats, and there was nothing like the same support in the caucus that health care reform generated, so it never came to a Senate vote. It ended with a whimper, not a bang.

As promised, Obama’s EPA began slowly rolling out regulations, one at a time. It wasn’t until late in his first term that auto mileage standards were finalized and into his second term before EPA got to power plants. Republicans were able to keep Obama’s Clean Power Plan tied up in court through the end of his second term. Then Trump took power and began a simultaneous all-fronts assault on Obama’s regulations, unrolling them so fast it was difficult to even keep track.

Two-party partisan politics really is a zero-sum game

The theme of these stories is that Democrats relied on clever sequencing over and over again, imagining some amount of political capital (“credibility”) that they could husband and spend strategically to get assistance across the aisle, at every juncture underestimating the ferocity and unanimity of Republican opposition. They kept behaving as though they would find good-faith negotiating partners, as though they were still in the postwar American era of relatively low (or at least manageable) polarization.

What too few of them realized was that they were already in a new era of near-total polarization, with the population sorted into like-minded enclaves, a bifurcated media ecosystem nurturing stacked (and diametrically opposed) “mega-identities,” and voters motivated primarily by “negative partisanship,” which is to say, hatred of the other side.

A fully polarized two-party system really is a zero-sum game. Any victories or gains by one side come at the other side’s expense, even if the victory secures shared goals. The rational course for the party out of power is to fight with full intensity against everything, always, and that’s what Republicans did under Obama. With scarcely any exceptions, from 2010 through 2020, they pushed in every case for maximal partisan advantage, no matter the stakes or possible cost.

The GOP has failed to repeal the Affordable Care Act, despite a few close calls, but otherwise, its unprincipled pursuit of raw power has paid off handsomely. The party captured state legislatures in 2010 and was able to gerrymander itself minority rule in several states. It practically shut down Congress as a legislative body for six years of Obama’s term. It blocked Merrick Garland’s nomination to the Supreme Court and for its efforts got Neil Gorsuch. It ignored Ruth Bader Ginsburg’s dying wishes and for its efforts got a 6-3 conservative Court majority that could last for generations.

Republicans blocked so many Democratic judicial nominations that Senate leader Harry Reid had to get rid of the judicial filibuster to keep the courts staffed. Then, when the GOP took control of the presidency and Senate, it used the absence of the filibuster to pack the federal courts full of hyper-ideological, young, often woefully unqualified judges.

Rather than paying any price for total partisan warfare, Republicans were rewarded in 2016 with the presidency and both houses of Congress. After carrying the country to the brink of authoritarian crisis, it has now lost the House and the presidency. But Joe Biden has been left to tackle a virtually uncontrolled pandemic and millions of people out of work and on the verge of homelessness or food insecurity.

The GOP will likely retain control of the Senate, which means there will be no adequate economic recovery package and none of Biden’s ambitious campaign plans will come to fruition. It has kept control of key state legislatures, so it will be able to gerrymander itself an advantage for another decade.

The elections of 2022 will be another partisan brawl, and the odds are stacked against Democrats; the president’s party has lost seats in every first-term midterm in the past 100 years, save three. If Republicans gain full control of Congress, impeachment becomes a real possibility, even if conviction is very unlikely.

It’s a grim situation, and Biden is starting out behind the eight-ball. How should he proceed?

Biden should run a blitz

Here we return to the lesson that Trump has to teach Biden about life in hyperpolarized politics.

To wit: blitz. Do everything at once.

No matter what the Biden administration does, it will be accused of socialism and corruption by the right. And the past several years have richly demonstrated that conservative parts of the country, particularly rural areas and low-density suburbs, are almost completely captured by right-wing media, from Fox on the TV to AM conservative radio to Sinclair-owned local news to the profusion of shady Facebook sources and groups, where misinformation is rapid and rampant.

Democrats badly need to address this media asymmetry. Despite what conservatives have convinced themselves, mainstream media outlets like CNN are not analogous to Fox, and Democrats have no comparable radio, local TV, or social media operations to carry their messages and narratives straight to voters where they live.

But that is long-term work, and 2022 is right around the corner.

The only thing Biden will have real control over is his administration and what it does. And his North Star, his organizing principle, should be doing as much good on as many fronts as fast as possible. Blitz.

By constantly blundering forward, Trump has helped chart which US institutions and norms provide real resistance and which don’t. The courts have tangibly restrained Trump; they have been the primary bulwark against him. But the chattering of the media and the political classes? Moral outrage? Precedent and tradition? Civil protest?

All of these have proven gossamer. Trump charged right through them like they were cotton candy. By constantly acting, being on the offensive, generating new stories and controversies, he simply overwhelmed the ability of the system to fasten on any one thing.

Biden should learn the lesson. All that matters is what gets done, put on paper and into law. The rest is vapor.

The administration should staff up as rapidly as possible with ambitious young progressives and tell every single civil servant that the next two years are going to be a full sprint. Start immediately rewriting and reimplementing the environmental, public health, and worker safety regulations Trump has weakened. Reverse his immigration policies. Drop his lawsuits.

Reassess the social cost of carbon. Replace Trump’s weak Affordable Clean Energy rule with more stringent carbon rules for the power sector. Ditch EPA’s “secret science” rule and restock scientific advisory boards with actual scientists. Put a moratorium on new oil and gas drilling leases on public land. Pledge the purchasing power of the federal government — around $500 billion a year — toward clean energy technology.

Through the Office of Management and Budget (OMB), direct federal financing toward carbon reduction and clean energy across agencies. Use the Office of Information and Regulatory Affairs (OIRA) to reject regulations from any agency that do not include both a climate and equity “screen” to ensure that they reduce emissions and help the most vulnerable. Use the powers conferred by the Dodd-Frank financial reform bill to integrate climate risks into the financial system.

I’ve written more about what Biden can do on climate change without Congress. Vox’s Dylan Matthews took a wider policy view with 10 big things Biden can do with executive powers, from forgiving student loan debt to reigning in factory farming. More ideas can be found here, here, here, and here, among other places. There’s no shortage of ways for Biden to deploy the powers of the presidency, and he should maximize every one of them.

The new rule of partisan politics is to act, not react

All of these moves will elicit howls of outrage and court challenges from the right. Many will also infuriate the left, since they will inevitably fall short of Biden’s grand campaign promises.

Biden can’t control any of that. Doing less, negotiating more, relying on clever sequencing, chasing after receding promises of cooperation — none of that will solve anything, any more than it did for Obama. He can reach across the aisle, make it clear his door is open, but he shouldn’t wait around for anyone to walk in.

Biden’s best chance is to try to overwhelm the system the way Trump did, by doing so much that it’s impossible to make any one thing into a lasting story. He should launch so many simultaneous reforms that there’s no time for right-wing media to make up lies about all of them or for the Supreme Court to hear them all. He should ignore bad-faith attacks and stay relentlessly on message about what’s gotten done and what’s getting done next. He should, at every juncture, get caught trying to make government work better for ordinary people.

To succeed, all this must happen alongside Democratic Party efforts to improve messaging and media, get persistent party infrastructure on the ground in communities the party has neglected, and innovate on voter outreach and persuasion. (Aaron Strauss has some good ideas on that front.)

But Biden has something the rest of the party at the federal level does not have: the power to improve Americans’ lives in a visible way. More than anything else, cynicism about government’s ability to do that is corroding US politics. The best thing Biden can do, morally and politically, is act, as much and as fast as possible, and then talk about it, and do more of it, and talk about it more. (And he should be clear about exactly who stands in the way of bigger, better changes, and why his name is Mitch McConnell.)

The rest of it, he should ignore: the Washington chatter about the latest Republican accusations or catty infighting among Democratic factions, the cable news story or Twitter drama of the day, the latest offensive thing Trump or some Trump surrogate said, all of it. Bulldoze through it.

The president has limited ability to control political discourse and drama, but he has an enormous capacity to change policy and direct resources. Biden should use that power while he has it, without hesitation or apology.

## Corporate Activism DA

#### It’s coming in 2022

**Feiner, 22** – News Associate

[Lauren Feiner, “The Senate will get its best shot at regulating Big Tech, and Apple, Google and Amazon are already playing defense,” CNBC, 1-5-2022, https://www.cnbc.com/2022/01/20/senate-to-mark-up-antitrust-bills-targeting-apple-google-and-amazon.html, accessed 2-13-2022]

One of lawmakers’ best shots at passing transformative antitrust legislation on Big Tech will be within reach on Thursday.

The Senate Judiciary Committee is set to deliberate on the American Innovation and Choice Online Act, which some experts consider to have the most realistic chance of becoming law out of broad slate of reforms, while creating major change in the industry. The committee schedule also lists a markup of the Open App Markets Act, another bipartisan competition bill.

Both bills would prevent certain dominant tech platforms from favoring their own products or services over others that rely on their marketplaces to do business. But the Open App Markets Act’s impact would primarily be limited to those that run app stores, like Apple and Google, while the American Innovation and Choice Online Act would be more expansive, potentially preventing a company like Amazon from giving its own private label products a better ranking in its search than a third-party competitor.

Apple and Google could similarly be barred from unfairly ranking their own apps above competitors’ in their mobile app stores, and for Google, the same principle would apply to its general search engine as well.

The American Innovation and Choice Online Act, led by Sens. Amy Klobuchar, D-Minn., and Chuck Grassley, R-Iowa, the chair of the Senate Judiciary subcommittee on antitrust and ranking member of the full committee, respectively, is seen as hitting the legislative sweet spot for those looking to rein in Big Tech.

On the one hand, it’s a transformative and far-reaching bill that could significantly affect the way major consumer services operate. And on the other hand, its powerful co-sponsors and relatively lengthy list of bipartisan backers seem to give it a chance of actually passing.

That’s not to say its passage is a given. While taking on Big Tech has remained a popular bipartisan issue over the past few years, both sides still largely disagree on several aspects about how to do so. For example, antitrust reform has shown more promise than other issues, like content moderation, in forming consensus, but some doubt remains among members on both sides.

Still, the fact that the bill is sponsored by leaders on the committee suggests it will likely reach the markup stage with significant support.

A similar bill already passed in the House last summer. And while the Senate version may check slightly fewer boxes off progressives’ wish list, the chance to reach the Senate floor finally brings their dreams closer to reality.

#### DA is greenwashing- corporations create more climate change than they solve- outweighs the link

Constant, 19 -- writer at Civic Ventures, a public policy incubator based out of Seattle, and a cofounder of the Seattle Review of Books

[Paul, "The scam of reputation-washing: How corporations successfully cover up their big-money messes with small-dollar philanthropic giving," Business Insider, 10-2-19, https://www.businessinsider.com/corporations-successfully-cover-up-messes-with-philanthropic-giving-2019-10, accessed 12-4-21]

It feels socially unacceptable for me to admit that our philanthropic system is broken. Bill and Melinda Gates, after all, are eradicating polio worldwide through the good work of their foundation. Around the country on any given day, corporations and the super-rich are donating hundreds of thousands of dollars to charities that house the homeless, help educate children, and generally improve the quality of life for the poorest Americans. How can any of this possibly be perceived as a bad thing?

Most of the social benefits that billionaires deliver now — space programs and vaccinations, scientific research, and educational investments — used to be funded with tax dollars and distributed through the federal government. But an ongoing campaign started in the Reagan Administration by proponents of trickle-down economics convinced pretty much everyone that anything government can do with taxpayer dollars, private enterprise can do better, faster, and more efficiently. (Which, by the way, isn't true — a growing body of evidence suggests that the public sector is more efficient than the private sector.) To a grateful nation that's been addled by four decades straight of runaway income inequality, the good works provided by wealthy people far outweigh the decades of punishment that those same magnanimous elites have delivered to the tax-funded safety net.

Journalistic firebrand Anand Giridharadas literally wrote the book on the charade of philanthropic giving. Subtitled "The Elite Charade of Changing the World," Giridharadas's new-in-paperback book "Winners Take All" explains the practice of philanthropy as a kind of shell game disguising the sins of the top one percent behind an ostentatious facade of do-gooding. Through philanthropy, Giridharadas warns in the latest episode of Pitchfork Economics, the wealthiest people and corporations on the planet "can do bad things in the billions and do good things in the millions."

Perhaps the clearest — and, to my mind, the most egregious — form of corporate philanthropy comes in "reputation-washing." Corporations do this all the time: they contribute some small (but very visible) amount of money toward the solution for a problem that they themselves have created in the hunt for outsize profits. The glow of philanthropic giving obscures the exponential wealth that the corporation draws from the situation they're ostensibly trying to solve. It is, literally, throwing good money after bad.

You can't get much more stereotypically American than Coca-Cola. The sugary beverage-maker has for decades worked to hide its clear connection to obesity, while at the same time supporting youth sports initiatives and building playing fields for young women in underserved communities. This giving serves as a smokescreen on two fronts: in addition to creating a general air of concern about public health, it also advertises Coca-Cola products to children — a practice that Coke has sworn not to do.

Coca-Cola also donates thousands of dollars to "support citizen science efforts to study the prevalence of micro-plastics ... a serious and growing concern, both for the environment and for human health." (Coca-Cola uses three million tons of plastics in its packaging per year.) And the millions of dollars that Coke puts toward clean-water initiatives is a drop in the bucket compared to the company's extractive water use.

Reputation-washing isn't just for the soft drink business. Exxon earlier this year was proud to issue a press release announcing it has donated $350,000 "to United Way and the American Red Cross to support local flooding relief assistance associated with tropical storm Imelda in the Beaumont and greater Houston areas in Texas" — a terrible storm that was worsened by climate change caused by fossil fuels. Other oil and gas manufacturers like BP similarly donate to disaster relief funds.

Perhaps the most craven form of reputation-washing can be found in the firearm industry. The website for the National Rifle Association trumpets the fact that "Smith & Wesson supports children's charities with its annual Night of Laughter event featuring live comedy acts," without acknowledging that their AR-15-style rifles were used in countless mass shootings, including the Parkland massacre. It's entirely possible — maybe even likely — that Smith & Wesson has donated some small sum to a hospital that has treated victims of a massacre committed with weapons made by Smith & Wesson.

In the end, philanthropy serves as a kind of respectable Dr. Jekyll to a corporation's profiteering Mr. Hyde personality. For less than a tenth of one percent of its total revenue, a corporation can wash all its sins away. In fact, if you want to find out what a corporation's worst transgressions are, you don't have to be an investigative journalist: just look at where it donates its charitable giving. Those blandly named funds and foundations and grants and prizes all gesture directly to the source of the corporation's unimaginable wealth — a problem's cause and its effect, all wrapped up in a package of good vibes and glossy marketing.

The value that these corporations enjoy from philanthropy doesn't just end at good press and positive consumer feelings. Even though reputation-washing is the equivalent of putting a Band-Aid on top of a broken bone, corporations profit from the tax deductions they earn in exchange for their charitable giving. It's time to begin a public discussion about ending or capping the tax-deductible loopholes that corporations ruthlessly exploit for profit and public relations. The system is broken, and no amount of feel-good donations can fix it.

#### Fails now- style over substance

Eavis, 21 -- New York-based reporter covering companies and markets

[Peter Eavis and Clifford Krauss, “What’s Really Behind Corporate Promises on Climate Change?”, NYTimes, 5-12-21, https://www.nytimes.com/2021/02/22/business/energy-environment/corporations-climate-change.html, accessed 8-20-21]

Household names like Costco and Netflix have not provided emissions reduction targets despite saying they want to reduce their impact on climate change. Others, like the agricultural giant Cargill and the clothing company Levi Strauss, have made commitments but have struggled to cut emissions. Technology companies like Google and Microsoft, which run power-hungry data centers, have slashed emissions, but even they are finding that the technology often doesn’t yet exist to carry out their “moonshot” objectives.

“You can look at a company’s website and see their sustainability report and it will look great,” said Alberto Carrillo Pineda, a founder of Science Based Targets initiative, a global effort to assess corporate plans to reduce emissions. “But then when you look at what is behind it, you’ll see there is not a lot of substance behind those commitments or the commitments are not comprehensive enough.”

#### No link- size is not a motivator for corporate investments

Schinkel, 20 -- Professors of economics

[Maarten Pieter Schinkel and Leonard Treuren, "Green Antitrust: Friendly Fire in the Fight against Climate Change," Amsterdam Center for Law and Economics, 12-15-20, https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=3749147, accessed 8-9-21]

Green antitrust is a sympathetic but counterproductive attempt to solve the global climate crisis. Fighting one market failure with another market failure will mostly make matters worse. There is huge potential for welfare improvement by preventing negative externalities and pursuing the positive, public goods. Giving firms market power does not create incentives to tap into that potential, however. On the contrary: growing awareness of the vital importance of a sustainable planet, the rise of civil society, and an increasing willingness to buy from and invest in companies that take a more socially and environmentally responsible stance are ever stronger motivators for firms to offer more sustainable produced goods and services in competition. These hopeful gathering forces for green should be given free rein, rather than be allowed to be suppressed by collaborations that risk collusion. Relaxing the strict competition law enforcement criteria in order to better accommodate generally ineffective sustainability agreements in restriction of competition is not, therefore, a good policy. Such a rule of reason approach invites abuse cartel greenwashing.47 Instead, governments should be held accountable for their failure to adequately address damaging production externalities. The right response of competition authorities to a corporate cartel exemption request for its sustainability initiative is referral to the part of government best placed to assess the idea and possibly implement it through proper regulation – rather than stepping in and become an excuse for government failure. However well-intended, the green antitrust movement risks doing damage to both competition and sustainability.

#### Corporations don’t solve climate change

[Corkery](https://www.nytimes.com/by/michael-corkery),**21** -- reporter at The New York Times who specialize in big banks and corporations

[Michael Corkery and Julie Creswell, “Corporate Climate Pledges Often Ignore A Key Component: Supply Chains". NYTimes, 11-2-21, <https://www.nytimes.com/2021/11/02/business/corporate-climate-pledge-supply-chain.html>, accessed 12-1-21]

The equipment manufacturer Caterpillar, Texas Instruments, Exxon Mobil and the Walt Disney Company have all made similar claims about the sustainability of their operations and have set objectives to reduce emissions.

But something is missing from these lofty corporate goals: any accounting of significant emissions from their supply chains or waste from their products. For some companies, those can total as much as 95 percent of their overall contributions to greenhouse gases.

A closer look at corporate America’s claims that it’s accelerating efforts to tackle the climate crisis — made in marketing and investor presentations — reveals that many of these assertions remain quite limited and fail to make a dent in the largest source of [carbon emissions](https://www.nytimes.com/2021/11/03/climate/carbon-dioxide-emissions-global-warming.html): the global supply chains that power the modern economy and have become dinner-table conversation amid massive disruptions this year.

#### Net emissions thump

Win 20 [Thin Lei Win, “Multinational companies account for nearly a fifth of global CO2 emissions, researchers say,” 9-8-20, [https://www.reuters.com/article/us-climatechange-companies-emissions-trf/multinational-companies-account-for-nearly-a-fifth-of-global-co2-emissions-researchers-say-idUSKBN25Z1W6, accessed 8-20-21](https://www.reuters.com/article/us-climatechange-companies-emissions-trf/multinational-companies-account-for-nearly-a-fifth-of-global-co2-emissions-researchers-say-idUSKBN25Z1W6,%20accessed%208-20-21)]

ROME (Thomson Reuters Foundation) - The global supply chains of multinational companies such as BP, Coca-Cola and Walmart are responsible for nearly a fifth of climate-changing carbon dioxide emissions, according to a new study.

But the businesses outsource many of these emissions to poorer parts of the world by investing in production in developing countries, said researchers from University College London and China’s Tianjin University.

Dabo Guan, the study’s co-author, called the work the “first quantitative evidence” on the investment flows and carbon footprints of multinational enterprises (MNEs).

“The results were quite shocking. For many large companies, emissions from their supply chains ... (are) larger than the emissions of many countries,” he told the Thomson Reuters Foundation.

For example, emissions from the supply chain producing Coca-Cola products is almost equivalent to what China emits in its food sector to feed 1.3 billion people, he said.

Similarly, foreign affiliates of Walmart emit more than Germany’s retail sector while Samsung’s emissions around the world are higher than all electronic manufacturers in India, Thailand and Vietnam, the study found.

# 1AR

## Uncertainty

#### We control UQ

Oppenheimer 20 [Michael F. Oppenheimer, professor of international relations and political economy in the Global Affairs masters degree program at New York University, “The Future of Global Affairs | The Turbulent Future of International Relations,” 2020, Springer, https://link.springer.com/chapter/10.1007/978-3-030-56470-4\_2, EA]

The current distribution of power is not perfectly multipolar. The US still commands the world’s largest economy, and its military power is unrivaled by any state or combination of states. Its population is still growing, despite a recent decline in birth rates. It enjoys extraordinary geographic advantages over its rivals, who are distant and live in far worse neighborhoods. Its economy is less dependent on foreign markets or resources. Its political system has proven—up to now—to be resilient and adaptable. Its global alliance system greatly extends its capacity to defend itself and shape the world to its liking and is still intact, despite growing doubts about America’s reliability as a security guarantor. Based on these mostly material and historical criteria, continued American primacy would seem to be a good bet, if it chooses to use its power in this way.30

## DOJ DA

### Private Enforcement

#### PROA good and key – this is their author!

Juška 17 [Žygimantas Juška, PhD Leiden University, EU competition law, “The Effectiveness of Private Enforcement and Class Actions to Secure Antitrust Enforcement,” 2017, *The Antitrust Bulletin*, Vol. 62, Issue 3, https://journals.sagepub.com/doi/full/10.1177/0003603X17719764, EA]

B. High Deterrence Value

While significant obstacles exist, proponents of class actions continue to claim that private antitrust enforcement provides meaningful deterrence. First and foremost, the supporters criticize theory-based assessments, which are more anecdotal than empirically based.193 The counterargument is supported by the empirical analysis. A comprehensive study on forty successful antitrust class actions found that private recoveries are substantial enough to have significant deterrence power.194 Although the study attracted widespread attention on both sides of the Atlantic,195 it was also the subject of much criticism.196 In order to reinforce the results, the authors performed a supplemental study of twenty antitrust cases.197 After the assessment of the total recoveries in sixty private cases through 1990–2011, the authors made the powerful claim that private antitrust enforcement probably deters more than the anticartel program of the DOJ Antitrust Division.198 In a comparative context, it was found that victims received substantial compensation ranging from $33.8 billion to $35.8 billion, which is far higher than the combined DOJ criminal sanctions (corporate fines, individual fines, and criminal fines) totaling $11.7 billion,199 or $15.4 billion if the deterrent value of a prison sentence is increased.200 Another study of over 100 international cartels prosecuted between 1990 and 2008 found similar results: a total of $29 billion in announced private settlements and $7.6 billion for international cartel fines collected by the DOJ.201 Contradicting to the critics’ claim that class action litigation is usually preceded by government actions, the study revealed that out of sixty cases, twenty-four were not preceded by public enforcement, and a further twelve had a different background than government actions.202 Furthermore, in the first study, only ten of forty private cases were follow-ons to DOJ enforcement efforts, and sixteen were discovered by private parties.203 This figure, as authors observed, is consistent with another study, which found that only 20% of private cases were follow-on cases.204 It may suggest that private cartel enforcement precedes public enforcement as well. Therefore, the threat of private enforcement might even coerce wrongdoers to confess to the DOJ through the leniency program.205

Furthermore, the proponents assert that critics misrepresent the actual time lags. The most important determinant is the time from the latest cartel manager’s decision to continue cartel until judgement. To that extent, the data suggests that the applicable range is less than four years.206 From the perspective of the defendant’s stock value, it is asserted that private antitrust actions have a far higher impact than is originally envisaged. Although the filing of private antitrust lawsuits reduces the value of defendant’s shares on average by 0.6%, the total 6.6% stock drop is mainly associated with the inevitable private litigation following the government action.207 This is notable because the anticipated private sanctions are four times as costly as sanctions from public enforcers. There is also a claim that an average stock drop of 0.6% is surprisingly high, given that government action is typically followed by private litigation.208

## Corporate Activism DA

### 1AR: AICO Thumper

#### Even if it doesn’t pass the DMA triggers the impact

PYMNTS, 1-24 ["Big Tech’s Three Biggest Regulatory Threats," 1-24-2022, https://www.pymnts.com/big-tech/2022/big-techs-three-biggest-regulatory-threats/, accessed 1-26-2022]

Big Tech’s Three Biggest Regulatory Threats

When the Senate Judiciary Committee voted last Thursday to advance the American Innovation and Choice Online Act, a bipartisan antitrust bill, it set the path for the bill to potentially be adopted by the full Senate. While this is probably the biggest regulatory threat for Google, Amazon, Apple and Meta right now, there are two other bills that may have a significant impact on Big Tech: the Open App Market Act and the Digital Markets Act in Europe. Other regulatory initiatives in the U.S. and Europe also represent a regulatory threat. Here's a breakdown of the top regulatory threats to Big Tech.

United States Senate — American Innovation and Choice Online Act

This bill aims at preventing Big Tech firms from favoring their own services over others. This bill would make it unlawful to unfairly preference a platform’s own products, services or lines of businesses over those of another business user and to limit the ability of another business user’s products or services to compete on the platform.

The Senate Judiciary Committee voted 16-6 to advance the bill, but before it reaches the senate floor for a vote, it will likely be amended. The bill was already amended before the committee vote to ensure that it would be applicable to non-U.S. firms like TikTok. Senators have already offered over 100 amendments, and these will need to be discussed before a vote.

To become law, the bill will need to obtain a majority vote in the Senate (51 votes out of 100), and at this point, despite the strong vote of confidence in the committee and the bipartisan support, it isn’t clear if the bill will be approved.

United States Senate — Open App Markets Act

This bill was included in the agenda of the Senate committee last Thursday for discussion, but it was finally withheld after the vote on the first bill. A new hearing to vote on this bill hasn't been scheduled yet.

This bill would primarily affect Google and Apple. If approved, the bill will ban the tech companies from requiring developers to use in-app payment systems as a condition of being distributed on an app store. This would allow developers to distribute their apps in the app stores using a more favorable payment system, since Google and Apple charge developers 15% or 30% for any purchase made in the app store.

Read More: Apple and Google Face Moment of Truth With Senate Hearing Over Antitrust Bills

Federal Trade Commission — New Merger Guidelines

In January, the FTC and DoJ launched a joint public inquiry to review merger rules, strengthen enforcement and clamp down on big mergers, especially in digital markets.

The review will focus on how to assess mergers that include free services where the traditional antitrust analysis may not bring accurate results. The agencies are also seeking input to update the market definition analysis so that it better accounts for non-price competition.

The agencies will still need a few months to receive feedback from the public and to design a new merger guideline, but unlike the bills, regulators can adopt guidelines without going to Congress. New merger guidelines may not be as big a threat for Big Tech firms as the antitrust bills, since these guidelines would only limit the companies' ability to acquire some firms.

European Parliament (EP) — Digital Markets Act (DMA)

The EP approved the DMA in December 2021. The DMA essentially blacklists certain practices used by large platforms acting as “gatekeepers.” This bill includes most of the conduct that the EU has considered anticompetitive in the past after investigating Google, Amazon, Apple and Meta.

This law includes the same prohibitions as the American Innovation and Choice Online Act, and it also contemplates the possibility of breaking up a company in case of repeating wrongdoings. However, the risk of a breakup is unlikely — before proposing such a drastic measure, the regulator would have to find violations of the law in three different investigations in a very short timeframe.