# Round 4 vs Minnesota

## 1AC

### 1AC---China ADV

#### Advantage 1 is China:

#### Standards-Setting Organizations (SSO’s) are industry members who jointly establish standards for information tech defined by the adoption of standard-essential patents (SEP’s), which are licensed to companies who wish to implement the tech in their product, called implementers, on Fair, Reasonable, and Non-Discriminatory (FRAND) terms. Current standards promote price gouging, FRAND enforcement is critical.

Melamed & Shapiro 18, \*A. Douglas Melamed is Professor of the Practice of Law at Stanford Law School; \*Carl Shapiro is the Transamerica Professor of Business Strategy at the Haas School of Business at the University of California at Berkeley; (May 2018, “How Antitrust Law Can Make FRAND Commitments More Effective”, https://www-cdn.law.stanford.edu/wp-content/uploads/2018/05/How-Antitrust-Law-Can-Make-FRAND-Commitments-More-Effective.pdf)

I. Standard Setting and the Competitive Process

The fundamental economics in the information technology sector, driven by network effects, implies that there is enormous value associated with establishing compatibility standards. Popular standards include the mobile broadband standards used in cell phones, which are established by the 3rd Generation Partnership Project (3GPP), and the Wi-Fi technology for wireless local area networks, which is enabled by the 802.11 standard established by the Institute of Electrical and Electronics Engineers (IEEE).4

There are many SSOs, and their rules and procedures differ considerably. In addition to IEEE, leading SSOs include the International Organization for Standardization (ISO), the International Telecommunication Union (ITU), the European Telecommunications Standards Institute (ETSI), the Internet Engineering Task Force (IETF), and the World Wide Web Consortium (W3C).5 SSOs generally establish standards by holding a series of committee meetings among industry participants. These meetings culminate in a vote on a technical specification that describes what features or attributes a product must have in order to comply with the standard. Most SSOs are open to all industry participants and seek to operate on a consensus basis, applying certain voting rules. SSOs do not normally engage in patent licensing, nor do they specify how patent royalties will be divided up among patent holders. They leave that to their members, which in some cases form patent pools to address these issues.6

SSOs adopt specific policies relating to intellectual property rights (IPRs).7 These IPR policies are generally intended to enable the SEP holders to obtain reasonable royalties for licensing their patents, while prohibiting them from charging excessive royalties after other industry participants have committed to the standard. At that point, firms committed to implementing the standard— which we call “implementers”—would find it very costly to avoid using the patented technology. For this purpose, most SSOs require SEP owners to license their SEPs on FRAND terms.8

FRAND policies are especially necessary because negotiations between SEP holders and implementers generally take place only after the implementers have used and infringed the technologies claimed by the SEPs. Standards involving information and communications technology can involve hundreds or even thousands of SEPs, many with uncertain boundaries for infringement. In addition, a time lag exists between patent application and patent issuance. For these and other reasons, it is impractical for implementers to enter into negotiations for patent licenses with all SEP owners prior to the establishment of a standard and to their implementation of it.9

The fact that patent negotiations generally do not take place until after implementers have used and infringed the technologies has several critical implications. First, at the time of negotiation, implementers are locked into the standard and the technologies claimed by the SEPs—that is, the cost to switch to an alternative technology or standard at that point—ex post—is much greater than it was ex ante, before the patented technology was first included in the standard. Ex post, the patent holder is no longer competing to have its technology included in the standard, nor is it competing to have implementers of the standard use its technology. Instead, because the patent holder owns an asset that is essential to the standard, implementers have no choice but to use the patented technology.

If the standard is commercially successful, implementers are willing to pay a much larger royalty for use of the patented technology than they would have paid ex ante, when the SEP holder faced competition from other technologies. In these circumstances, the SEP holder can be said to have obtained monopoly power in the market in which the patented technology is licensed for use in implementing the standard.10

Second, because of lock-in and the implementer’s ongoing infringement, the potential for litigation looms large in licensing negotiations. In effect, the parties are negotiating about how to settle an infringement suit, and that negotiation is heavily influenced by their predictions as to what the court will do if they cannot agree. This situation is not unique to SEPs; it arises frequently when firms are faced with patent infringement claims for products they have independently developed or technologies they have inadvertently infringed. Patent law addresses such instances by specifying that patent holders are entitled to “reasonable royalties,” defined as the royalties that the parties would have negotiated prior to the infringement and thus prior to lock-in.11 Those hypothetical ex ante royalties reflect the market value of the patent license. Notwithstanding the law’s embrace of this principle, however, as a practical matter, patent holders are generally able to recover more than the ex ante value of the patent when litigation occurs after the implementers are locked in. Further, negotiations in the shadow of litigation after lock-in tend to result in royalties in excess of the ex ante or market value of the patented technology.12

Third, the shadow of litigation is particularly problematic in the communications and technology sector, in which products typically include hundreds or thousands of patented technologies. A court-ordered injunction involving such products would deprive the implementer of not only the value of the technology covered by the patent-in-suit, but also the value of the entire product.13 Implementers that are forced to bear the risk of an injunction are thus induced to agree to royalties greater than those that would be appropriate if only the value of the patented technology were at stake. Those royalties systematically provide SEP holders with excessive compensation in comparison with the benchmark of ex ante royalties.

These implications of lock-in and ex post dealings are well-understood: they represent an example of the general concept of lock-in and opportunism developed by Oliver Williamson.14 The Federal Circuit has also recognized the market distortions caused by the inclusion of patented technologies in public standards and the resulting danger of patent holdup involving SEPs.15

For these and other reasons, the SEP holder has ex post monopoly power that, if left unchecked, would enable it to obtain royalties far in excess of the royalties that it could earn in a competitive market.16 To address this common problem and limit ex post opportunism by SEP holders, SSOs typically require participants that own SEPs to make certain FRAND commitments. In particular, by requiring a commitment to license on “fair and reasonable” terms, the FRAND requirement aims to prevent, or at least reduce, the extent of monopoly pricing by SEP holders. And by requiring a commitment to license on “nondiscriminatory” terms, the FRAND requirement can prevent SEP holders from extracting monopoly premiums by selective licensing or, more important, migrating their monopoly power from the FRAND-regulated market to unregulated standard-implementing product markets by licensing to only one or a few implementers or licensing to selected implementers on discriminatorily favorable terms.

#### Patent holdup is accentuated by the Ninth Circuit’s recent decision in *FTC v. Qualcomm* that permits ICT firms to engage in innovation-stifling conduct with antitrust impunity.

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Standards can enhance competition and consumer choice, but they also massively inflate the value of patents deemed essential to the standard, and give their owners the power to sue companies that implement the standard for money damages or injunctions to block them from using their SEPs. When standards cover critical features like wireless connectivity, SEP owners wield a huge amount of “hold-up” power because their patents allow them to effectively block access to the standard altogether. That lets them charge unduly large tolls to anyone who wants to implement the standard.

To minimize that risk, standard-setting organizations typically require companies that want their patented technology incorporated into a standard to promise in advance to license their SEPs to others on fair, reasonable, and non-discriminatory (FRAND) terms. But that promise strikes at a key tension between antitrust and patent law: patent owners have no obligation to let anyone use technology their patent covers, but to get those technologies incorporated into standards, patent owners usually have to promise that they will give permission to anyone who wants to implement the standard as long as they pay a reasonable license fee.

Qualcomm is one of the most important and dominant companies in the history of wireless communication standards. It is a multinational conglomerate that has owned patents on every major wireless communication standard since its first CDMA patent in 1985, and it participates in the standard-setting organizations that define those standards. Qualcomm is somewhat unique in that it not only licenses SEPs, but also supplies the modem chips used by a wide range of devices. These include chips that implement wireless communication standards, which lie at the heart of every mobile computing device.

Although Qualcomm promised to license its SEPs (including patents essential to CDMA, 3G, 4G, and 5G) on FRAND terms, its conduct has to many looked unfair, unreasonable, and highly discriminatory. In particular, Qualcomm has drawn scrutiny for bundling tens of thousands of patents together—including many that are not standard-essential—and offering portfolio-only licenses no matter what licensees actually want or need; refusing to sell modem chips to anyone without a SEP license and threatening to withhold chips from companies trying to negotiate different license terms; refusing to license anyone other than original-equipment manufacturers (OEMs); and insisting on royalties calculated as a percentage of the sale price of a handset sold to end users for hundreds of dollars, despite the minimal contribution of any particular patent to the retail value.

In 2017, the U.S. Federal Trade Commission [sued](https://www.ftc.gov/news-events/press-releases/2017/01/ftc-charges-qualcomm-monopolizing-key-semiconductor-device-used) Qualcomm for violating both sections of the Sherman Antitrust Act by engaging in a number of anticompetitive SEP licensing practices. In May 2019, the U.S. District Court for the Northern District of California agreed with the FTC, identifying numerous instances of Qualcomm’s unlawful, anticompetitive conduct in a comprehensive [233-page opinion](https://www.eff.org/document/ftc-v-qualcomm-district-court-opinion). We were pleased to see the FTC take action and the district court credit the overwhelming evidence that Qualcomm’s conduct is corrosive to market-based competition and threatens to cement Qualcomm’s dominance for years to come.

But this month, a panel of judges from the Court of Appeals for the Ninth Circuit unanimously [overturned](https://www.eff.org/document/ninth-circuit-opinion-ftc-v-qualcomm) the district court’s decision, reasoning that Qualcomm’s conduct was “hypercompetitive” but not “anticompetitive,” and therefore not a violation of antitrust law. To reach that result, the Ninth Circuit made the patent grant more powerful and antitrust law weaker than ever.

According to the Ninth Circuit, patent owners don’t have a duty to let anyone use what their patent covers, and therefore Qualcomm had no duty to license its SEPs to anyone. But that framing requires ignoring the promises Qualcomm made to license its SEPs on reasonable and non-discriminatory terms—promises that courts in this country and around the world have consistently enforced. It also means ignoring antitrust principles like the essential facilities doctrine, which limits the ability of a monopolist with hold-up power over an essential facility (like a port) to shut out rivals. Instead, the Ninth Circuit held rather simplistically that a duty to deal could arise only if the monopolist had provided access, and then reversed its policy.

But even when Qualcomm restricted its licensing policies in critical ways, the Ninth Circuit found reasons to approve those restrictions. For example, Qualcomm stopped licensing its patents to chip manufacturers and started licensing them only to OEMs. This had a major benefit: it let Qualcomm charge a much higher royalty rate based on the high retail price of the end user devices, like smartphones and tablets, that OEMs make and sell. If Qualcomm had continued to license to chip suppliers, its patents would be “exhausted” once the chips were sold to OEMs, extinguishing Qualcomm’s right to assert its patents and control how the chips were used.

Patent exhaustion is a century-old doctrine that protects the rights of consumers to use things they buy without getting the patent owner’s permission again and again. Patent exhaustion is important because it prevents price-gouging, but also because it protects space for innovation by letting people use things they buy freely, including to build innovations of their own. The doctrine thus helps patent law serve its underlying goal—promoting economic growth and innovation. In other words, the doctrine of exhaustion is baked into the patent grant; it is not optional. Nevertheless, the Ninth Circuit wholeheartedly approved of Qualcomm’s efforts to avoid exhaustion—even when that meant cutting off access to previous licensees (chip-makers) in ways that let Qualcomm charge far more in licensing fees than its SEPs could possibly have contributed to the retail value of the final product.

It makes no sense that Qualcomm could contract around a fundamental principle like patent exhaustion, but at the same time did not assume any antitrust duty to deal under these circumstances. Worse, it’s harmful for the economy, innovation, and consumers. Unfortunately, the kind of harm that antitrust law recognizes is limited to harm affecting “competition” or the “competitive process.” Antitrust law, at least as the Ninth Circuit interprets it, doesn’t do nearly enough to address the harm downstream consumers experience when they pay inflated prices for high-tech devices, and miss out on innovation that might have developed from fair, reasonable, and non-discriminatory licensing practices.

We hope the FTC sticks to its guns and asks the Ninth Circuit to go en banc and reconsider this decision. Otherwise, antitrust law will become an even weaker weapon against innovation-stifling conduct in technology markets.

#### Weakened antitrust enforcement emboldens firms to follow Qualcomm’s lead, which collapses FRAND integrity.

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While the FRAND process has been highly productive, it is also fragile. Firms are tempted to make commitments at the beginning when the incentive to join is large, but renege on them later when they can profit by doing so. At least in this particular case, private FRAND enforcement had not worked very well. Qualcomm had been able to violate FRAND commitments in order to exclude rivals and obtain higher royalties than FRAND would permit, largely with impunity. Other firms will very likely follow Qualcomm’s lead. If that happens the FRAND system will fall apart, doing irreparable injury to the modern wireless telecommunications network or, at the very least, diminishing the leadership role of the United States in preserving effective network competition.

While governments can be heavily involved in standard set-ting,9 the implementation of technical standards in information technologies is largely the work of private actors. Government involvement is limited mainly to enforcement of contract, intellectual property, or antitrust law. As private actors, those involved in standard setting or compliance are fully subject to the federal antitrust laws.

This Article addresses one question: when is an SSO participant’s violation of a FRAND commitment an antitrust violation, and if it is, of what kind and what are the implications for remedies? It warns against two extremes. One is thinking that any violation of a FRAND commitment is an antitrust violation as well. In the first instance FRAND obligations are contractual, and most breaches of contract do not violate any antitrust law. The other extreme is thinking that, because a FRAND violation is a breach of contract, it cannot also be an antitrust violation. The question of an antitrust violation does not de-pend on whether the conduct breached a particular agreement but rather on whether it caused competitive harm. This can happen because the conduct restrained trade under section 1 of the Sherman Act, was unreasonably exclusionary under section 2 of the Sherman Act, or amounted to an anticompetitive condition or understanding as defined by section 3 of the Clay-ton Act.10 The end goal is to identify practices that harm com-petition, thereby injuring consumers.

The Ninth Circuit’s Qualcomm decision will make antitrust violations in the context of FRAND licensing much more difficult to prove, even in cases where anticompetitive behavior and consumer harm seem clear.11 Indeed, in this case the court itself acknowledged the harm to consumers but appeared to think that they were not entitled to protection.12 If this decision stands, FRAND obligations will to a larger extent have to be settled through private litigation and the federal antitrust enforcement agencies will have a diminished role. Anticompetitive behavior by one firm that is not effectively disciplined will lead others to do the same thing.

#### Monopoly pricing and selective licensing undermines 5G innovation---FRAND enforcement is key.

Actonline 20, the App Association represents more than 5,000 app companies and information technology firms across the mobile economy; (August 26th, 2020, “Save Our Standards: The Ninth Circuit Court of Appeals Reverses Decision in FTC v. Qualcomm”, <https://actonline.org/2020/08/26/save-our-standards-the-ninth-circuit-court-of-appeals-reverses-decision-in-ftc-v-qualcomm/>)

* Ability edited

Moreover, the FRAND agreement is a critical tool used by standard setting organizations to ensure the process enhances competition and does not run afoul of antitrust laws. Generally, a collaboration between competitors to choose market winners or set prices raises significant questions for competition regulators. Royalty free and FRAND licensing requirements were created by standards bodies to avoid potential antitrust scrutiny by limiting the market power and the potential for abuse by those involved in developing a standard. This is why the American National Standards Institute (ANSI) will not accredit any standards developing organization (SDO) that does not require standard-essential patent holders to provide licensing terms at least as favorable as FRAND.

The most important beneficiary of open interoperability standards and FRAND licensing requirements are the entrepreneurs and small businesses that have long fueled America’s innovation engine. They don’t have giant patent portfolios, market power, or the resources to hire legions of lawyers and spend years battling SEP abusers in civil court. Without some level of certainty about their ability to obtain licenses—let alone what they may cost—entrepreneurs will have trouble justifying the pursuit of any innovation that uses a standard and will certainly struggle to raise money from investors for such innovation. And Qualcomm’s vague and toothless promise simply “not to sue” smaller companies and component makers is no substitute for a license.

The adoption of 5G technology is expected to open unprecedented opportunities for innovation and economic growth as we move toward a world where everything from cars to tractors to buildings will connect to wireless networks. At every stage of the information technology revolution, America has been the undisputed leader because of the unparalleled entrepreneurial innovation ecosystem that we have built. If 5G SEP holders are able to arbitrarily refuse licenses to smaller firms, it would ~~cripple~~ undermine America’s innovation ecosystem at the start of the next big wave of innovation. As economic tensions continue to rise with China, Chinese-based companies could use their 5G SEPs as international economic weapons to thwart U.S. competitors.

The 5G standard is supposed to be a platform for competition, innovation, and entrepreneurship, but if the Ninth Circuit decision is allowed to stand, it will become a chokepoint for snuffing out competitors and demanding monopoly rents. Open standards and FRAND licensing commitments are fundamental to competition in the modern economy, and the idea that they aren’t a subject for antitrust enforcement is patently absurd.

#### The absence of domestic 5G competition cedes leadership in technical standards to China.

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There is little doubt today that American superiority in the next generation of mobile communications, commonly called 5G, is a matter of extraordinary national concern. There is also little doubt that China is a strong competitor, already having outspent the United States by [$24 billion](https://www2.deloitte.com/content/dam/Deloitte/us/Documents/technology-media-telecommunications/us-tmt-5g-deployment-imperative.pdf#page=3) and planning [$411 billion](https://www.scmp.com/tech/china-tech/article/2098948/china-plans-28-trillion-yuan-capital-expenditure-create-worlds) in 5G investment over the next decade. The Chinese government has also laid out multiple national plans for establishing the country as a leader in mobile technology, and the Chinese firm Huawei is poised to be the [top smartphone manufacturer](https://www.cnbc.com/2018/11/16/huawei-aims-to-overtake-samsung-as-no-1-smartphone-player-by-2020.html) by 2020.

And what are United States companies doing about this? Bickering over patents.

For years, the leading American supplier of advanced mobile communications chips has been the San Diego-based Qualcomm. The company has been an innovator of mobile technology, but it has also been a remarkable innovator of convoluted legal strategies. As an ongoing Federal Trade Commission [lawsuit alleges](https://www.ftc.gov/news-events/press-releases/2017/01/ftc-charges-qualcomm-monopolizing-key-semiconductor-device-used), Qualcomm has used its dominant position as a chip supplier and its extensive patent holdings to weave an intricate web of patent licensing across the mobile industry. The effect of that complex licensing scheme, the FTC claims, has been to force competitor chipmakers out of the market and to extract concessions and high patent royalties from smartphone and mobile-device makers.

Qualcomm today faces only one major U.S. competitor—Intel, whose chips Apple recently [started using](https://www.cultofmac.com/484250/intel-reaping-rewards-apples-scrap-qualcomm/) instead of Qualcomm’s. Not surprisingly, Qualcomm has leveraged its patents to force a retaliatory investigation against Apple, the effect of which could be, as an administrative judge [recently determined](http://www.fosspatents.com/2018/10/itc-judge-didnt-buy-testimony-for-which.html), to boot Intel out of the mobile-chip market and leave Qualcomm as a monopoly.

It is hard to imagine that this infighting among Apple, Intel and Qualcomm is getting the United States very far in 5G, and it is harder to imagine that Qualcomm’s desired outcome would do so, either. The best path, instead, is the obvious one: allowing competition and expanding the number of firms working on 5G.

Competition encourages companies to out-innovate each other in order to grab market share. Of particular importance to 5G, competition leads to [better cybersecurity](https://morningconsult.com/opinions/in-the-race-to-5g-monopoly-considered-harmful/) in products, making them less vulnerable to hacking or misuse.

Competition is especially crucial when it comes to the technical standards that define how 5G works. These standards are the work of 3GPP, an international consortium of technology companies in the field. Chinese players such as Huawei and ZTE are major participants in 3GPP. Ensuring that 3GPP’s standards reflect American values requires having as many American companies at the negotiating table as possible—which is harder to achieve when those companies are trying to sue each other out of business.

Certainly patents themselves, as rewards for new inventions, are a driver of innovation in areas such as 5G. The problem, though, is not the existence of a patent system but the ever-expanding power of the patent laws, which encourage companies to pour dollars into complex patent licensing and assertion schemes—as companies like Qualcomm have done—rather than to perform the hard work of building new technologies. When innovation in patent strategy is more profitable than actual innovation, we lose the race to 5G and other technologies.

But don’t take my word for it. [Multiple members of Congress](https://www.patentprogress.org/2019/01/11/congress-weighs-in-on-qualcomm-and-apple-at-the-itc/), from both sides of the aisle, have denounced the use of patents to kick companies like Intel out of 5G development, predicting that such actions would “dampen the quality, innovation, competitive pricing, and in this case the preservation of a strong U.S. presence in the development of 5G and thus the national security of the United States.”

Or look to what China itself is doing. The Chinese government is handing out rewards left and right to encourage technology research and development. Indeed, it grants subsidies and financial benefits (ranging from the [ordinary](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2818503) to the [imperfect](https://funginstitute.berkeley.edu/wp-content/uploads/2013/12/patent_subsidy_Zhen.pdf) to the [bizarre](https://www.scmp.com/news/china/article/1681850/how-get-out-jail-early-china-buy-inventors-idea-and-patent-it)) to encourage its citizens to file for patents. But while China specifically encourages filing for patents, it does little to encourage using them: Patent infringement awards in court are peanuts—often only [five figures](https://scholarship.law.berkeley.edu/btlj/vol33/iss2/2/)—and most Chinese patent owners drop their patents [within five years](https://www.bloomberg.com/news/articles/2018-09-26/china-claims-more-patents-than-any-country-most-are-worthless) of getting them. The message in China is clear: You will be rewarded for innovating, but not for quibbling over patents.

The United States should take the same tack if it wants to match China in 5G. Ever-stronger patent rights encourage counterproductive disputes that are a drag on industry, a drag on research and development, and ultimately a drag on domestic competitiveness on the global stage. If America wants to lead in 5G, then it must clear the path for strong competition among leading American technology companies.

#### Standards leadership allows China to export digital authoritarianism.

Drew et al. 21, \*Dr Alexi Drew, Research Associate, The Policy Institute, King’s College London; (May 7th, 2021, “The Critical Geopolitics of Standards Setting”, https://www.transatlantic-dialogue-on-china.rusi.org/article/the-critical-geopolitics-of-standards-setting)

However, this previously ‘western’ domain is challenged by a Chinese bloc of private industry actors with centrally directed, strategic motivations for their efforts who have managed to leverage the flaws of this system for political and economic advantage.  The market-driven self-regulation model of technical standards has proven itself unsustainable given the geopolitical power achievable through the control of these standards. The marketised approach is easily abusable by a technologically developed nation-state with geopolitical intentions firmly in mind.

Obscurity Through Complexity

Technical standards have the immediate appearance of being both apolitical and ethically neutral. This seems to set them apart from the debate over standards of state behaviour in [cyber space concerning espionage and actions below the threshold of armed conflict](https://www.cfr.org/blog/unexpectedly-all-un-countries-agreed-cybersecurity-report-so-what). Yet, technological standards are unequivocally connected to normative practices of international behaviour and ethics. The extremely complex nature of the standards under consideration in bodies such as the International Organization for Standardization, the International Electrotechnical Commission (IEC), the International Telecommunications Union (ITU), and the Third Generation Partnership Project (3GPP) obscures the very tangible real-world impact that the standards they set have. The 3GPP is responsible for standards setting for mobile telecommunications. It covers everything from 5G through to autonomous vehicles and the Internet of Things. These are the bodies defining how the modern world is constructed.

On the one hand they appear quite benign, responsible for such banalities as the use of Universal Serial Bus (USB) connectors versus proprietary standards. This hardly seems a matter of national security importance. But the same process is responsible for what ultimately shape the basic operating parameters of facial recognition technology in closed circuit television systems, the level of centralised state control at the technical foundations of the internet, and the protections of personally identifiable data. These generate profound implications for international policy and ethics.

Internal Competition vs Strategic Direction

Technical standards setting processes have, historically, been dominated by private sector actors who have had both the capacity to develop a particular technology to the point of holding a significant market share, and the ability to use that market share to advocate for the standardisation of the technology in line with their own production. The market led approach has continued to be the prevailing model by which American companies have globalised the technical standards behind US dominated technological innovation. This privatised form of self-regulation for technology companies is only partially influenced by the approach taken within the EU where [some licensing of standards are controlled by state or EU led institutions.](https://www.ui.se/globalassets/ui.se-eng/publications/ui-publications/2019/ui-brief-no.-2-2019.pdf)

In contrast to this approach the Chinese model has involved a high level of state-oriented direction, oversight, and direct engagement on the creation and signing off technical standards. Efforts to harmonise and centralise technical standards domestically have become increasingly internationalised as the CCP takes this centralised, strategic approach to technical standards setting bodies such as the ITU, 3GPP, and IEC. Technical standards have also become an increasingly central component of the Digital Silk Road with the openly expressed goal of increasing uptake of Chinese technical standards in partner countries.

The implications of this clash between a system of technical standardisation that is driven by the market versus one driven by an authoritarian government subsidised model are a direct challenge to the development of free, open, and ethical technology. Standardisation mechanisms have become political, or rather there has been a gradual realisation of the political power to be gained from the control of technical standards. While the PRC might have come to this awareness first, the US and Europe have since had a rude awakening about the missed opportunity. The privatised model of technical standards setting favoured by European and US markets relies upon the dynamics of financial competition to regulate behaviour. This is in stark contrast to the statist Chinese model.

#### Causes global backsliding.

Kendall-Taylor et. al 20 \*Andrea Kendall-Taylor, senior fellow and director of the Transatlantic Security Program at the Center for a New American Security, co-author of Democracies and Authoritarian Regimes; Erica Frantz is Assistant Professor of Political Science at Michigan State University; Joseph Wright is Professor of Political Science at Pennsylvania State University; (March/April 2020, “The Digital Dictators,” Foreign Affairs, <https://www.foreignaffairs.com/articles/china/2020-02-06/digital-dictators>)

The risk that technology will usher in a wave of authoritarianism is all the more concerning because our own empirical research has indicated that beyond buttressing autocracies, digital tools are associated with an increased risk of democratic backsliding in fragile democracies. New technologies are particularly dangerous for weak democracies because many of these digital tools are dual use: technology can enhance government efficiency and provide the capacity to address challenges such as crime and terrorism, but no matter the intentions with which governments initially acquire such technology, they can also use these tools to muzzle and restrict the activities of their opponents.

#### Democracy solves a litany of existential threats.

Diamond 19, Professor of Political Science and Sociology at Stanford University, Senior Fellow at the Hoover Institution, Senior Fellow at the Freeman Spogli Institute for International Studies, PhD in Sociology from Stanford University, (Dr. Larry, Ill Winds: Saving Democracy from Russian Rage, Chinese Ambition, and American Complacency, p. 199-202)

The most obvious response to the ill winds blowing from the world’s autocracies is to help the winds of freedom blowing in the other direction. The democracies of the West cannot save themselves if they do not stand with democrats around the world. This is truer now than ever, for several reasons. We live in a globalized world, one in which models, trends, and ideas cascade across borders. Any wind of change may gather quickly and blow with gale force. People everywhere form ideas about how to govern—or simply about which forms of government and sources of power may be irresistible—based on what they see happening elsewhere. We are now immersed in a fierce global contest of ideas, information, and norms. In the digital age, that contest is moving at lightning speed, shaping how people think about their political systems and the way the world runs. As doubts about and threats to democracy are mounting in the West, this is not a contest that the democracies can afford to lose. Globalization, with its flows of trade and information, raises the stakes for us in another way. Authoritarian and badly governed regimes increasingly pose a direct threat to popular sovereignty and the rule of law in our own democracies. Covert flows of money and influence are subverting and corrupting our democratic processes and institutions. They will not stop just because Americans and others pretend that we have no stake in the future of freedom in the world. If we want to defend the core principles of self-government, transparency, and accountability in our own democracies, we have no choice but to promote them globally. It is not enough to say that dictatorship is bad and that democracy, however flawed, is still better. Popular enthusiasm for a lesser evil cannot be sustained indefinitely. People need the inspiration of a positive vision. Democracy must demonstrate that it is a just and fair political system that advances humane values and the common good. To make our republics more perfect, established democracies must not only adopt reforms to more fully include and empower their own citizens. They must also support people, groups, and institutions struggling to achieve democratic values elsewhere. The best way to counter Russian rage and Chinese ambition is to show that Moscow and Beijing are on the wrong side of history; that people everywhere yearn to be free; and that they can make freedom work to achieve a more just, sustainable, and prosperous society. In our networked age, both idealism and the harder imperatives of global power and security argue for more democracy, not less. For one thing, if we do not worry about the quality of governance in lower-income countries, we will face more and more troubled and failing states. Famine and genocide are the curse of authoritarian states, not democratic ones. Outright state collapse is the ultimate, bitter fruit of tyranny. When countries like Syria, Libya, and Afghanistan descend into civil war; when poor states in Africa cannot generate jobs and improve their citizens’ lives due to rule by corrupt and callous strongmen; when Central American societies are held hostage by brutal gangs and kleptocratic rulers, people flee—and wash up on the shores of the democracies. Europe and the United States cannot withstand the rising pressures of immigration unless they work to support better, more stable and accountable government in troubled countries. The world has simply grown too small, too flat, and too fast to wall off rotten states and pretend they are on some other planet. Hard security interests are at stake. As even the Trump administration’s 2017 National Security Strategy makes clear, the main threats to U.S. national security all stem from authoritarianism, whether in the form of tyrannies from Russia and China to Iran and North Korea or in the guise of antidemocratic terrorist movements such as ISIS.1 By supporting the development of democracy around the world, we can deny these authoritarian adversaries the geopolitical running room they seek. Just as Russia, China, and Iran are trying to undermine democracies to bend other countries to their will, so too can we contain these autocrats’ ambitions by helping other countries build effective, resilient democracies that can withstand the dictators’ malevolence. Of course, democratically elected governments with open societies will not support the American line on every issue. But no free society wants to mortgage its future to another country. The American national interest would best be secured by a pluralistic world of free countries—one in which autocrats can no longer use corruption and coercion to gobble up resources, alliances, and territory. If you look back over our history to see who has posed a threat to the United States and our allies, it has always been authoritarian regimes and empires. As political scientists have long noted, no two democracies have ever gone to war with each other—ever. It is not the democracies of the world that are supporting international terrorism, proliferating weapons of mass destruction, or threatening the territory of their neighbors.

#### China 5G leadership compromise US military superiority

Borghard et al. 19, \*Erica D. Borghard is an Assistant Professor at the Army Cyber Institute at West Point. Shawn W. \*Lonergan is a U.S. Army Reserve officer assigned to 75th Innovation Command and a Research Scholar at the Army Cyber Institute. (April 25th, 2019, “The Overlooked Military Implications of the 5G Debate”, https://www.cfr.org/blog/overlooked-military-implications-5g-debate)

There are economic implications for which entities can secure the [greatest global market share](https://www.reuters.com/brandfeatures/venture-capital/article?id=61837) of 5G technology. Technological innovation drives economic growth, job creation, and global economic influence. Huawei may have a long-term market advantage over U.S and Western telecoms because the former has been able to offer 5G products at [far cheaper](https://www.nytimes.com/2019/01/26/us/politics/huawei-china-us-5g-technology.html) rates than the latter. Furthermore, there are also concerns that Chinese-built 5G technology is likely to [contain backdoors](https://www.wired.com/story/huawei-case-signals-new-us-china-cold-war-tech/) that could be used to enable [Chinese economic or national security espionage](https://www.cnbc.com/2019/03/05/huawei-would-have-to-give-data-to-china-government-if-asked-experts.html). It is unlikely that Beijing would actively monitor all of the content of the data that comes across Huawei owned or operated infrastructure (although it may collect and analyze metadata). However, it is conceivable that Huawei would get a proverbial “tap on the shoulder” from Beijing to share pertinent information in specific instances. This may include individually targeting senior corporate executives, which is enabled by the millimeter wave frequency that 5G networks employ.

The military applications of 5G technology have vital strategic and battlefield implications for the U.S. Historically, the U.S. military has reaped enormous advantages from employing cutting edge technology on the battlefield. 5G technology holds similar innovative potential. Perhaps most obviously, the next generation of telecommunications infrastructure will have a direct impact on improving military communications. However, it will also produce cascading effects on the development of other kinds of military technologies, such as robotics and artificial intelligence. For instance, artificial intelligence and machine learning capabilities, such as those used in the Department of Defense’s [Project Maven](https://dod.defense.gov/News/Article/Article/1254719/project-maven-to-deploy-computer-algorithms-to-war-zone-by-years-end/), could be greatly enhanced when leveraging the data processing speeds made possible through 5G infrastructure. As an [era of great power competition](https://dod.defense.gov/Portals/1/Documents/pubs/2018-National-Defense-Strategy-Summary.pdf) emerges between the United States and China, the United States has a compelling strategic interest in being at the forefront of these new technologies.

The United States and its allies must also consider the tactical and operational implications on the battlefield of conducting conventional or counterinsurgency operations in an area with Chinese owned or operated 5G infrastructure. This concern stems from the nature of the relationship between Huawei, an [ostensibly private company](https://www.itnews.com.au/news/analysis-who-really-owns-huawei-175946), and the Chinese Communist Party (CCP). While Huawei’s founder and CEO, Ren Zhengfei proclaimed in a February 2019 interview on [CBS This Morning](https://www.cbsnews.com/news/ren-zhengfei-huawei-ceo-says-we-will-never-provide-chinese-government-with-any-information/)that the company never has and never would provide information to the Chinese government, many experts are [skeptical](https://www.cnbc.com/2019/03/05/huawei-would-have-to-give-data-to-china-government-if-asked-experts.html). Under China’s [2017 National Intelligence Law](https://www.reuters.com/article/us-china-security-lawmaking-idUSKBN19I1FW), the CCP has the authority to monitor and investigate domestic and international companies as well as direct organizations to assist with government espionage efforts. As such, it is conceivable that Huawei will be required to hand over its data to the Chinese government for collection and analysis.

Due to this reality, the United States must consider and be prepared to conduct overseas contingency or counterterrorism operations in areas where Chinese telecommunications infrastructure is widely proliferated, thus restricting the United States’ ability to rely on indigenous telecoms. As [noted](https://www.africom.mil/media-room/transcript/31604/gen-joseph-votel-gen-thomas-waldhauser-and-acting-asd-for-international-security-affairs-kathryn) by US AFRICOM Commander General Thomas Waldhauser, this has already become an issue in Africa where Chinese telecommunications companies are poised to dominate. The integrity of U.S. military communications systems that rely on 5G networks could be undermined at key phases of an operation. For example, if the United States is conducting a military operation in an area of interest to China, it is plausible that the Chinese government could leverage Huawei to intercept or even deny military communications. Furthermore, Chinese telecom infrastructure dominance in a theater of operations may limit the U.S. military’s ability to conduct precision targeting that leverages signals intelligence collection on 5G telecommunications networks.

The strategic and battlefield implications of who owns and operates 5G infrastructure around the world underscores the national security importance of 5G. The U.S. government and its allies should more systematically assess both the opportunities and risks associated with conducting future military operations in environments that rely on Chinese technology.

To date, the U.S. government has devoted significant energy to persuading its allies and partners to follow the United States in prohibiting Chinese telecoms, particularly Huawei, from building and/or operating 5G infrastructure. However, its diplomatic approach has been met with varying degrees of success. While some countries such as [Australia](https://www.ft.com/content/e90c3800-aad3-11e8-94bd-cba20d67390c) and [Japan](https://www.reuters.com/article/us-usa-china-huawei-japan/japans-top-three-telcos-to-exclude-huawei-zte-network-equipment-kyodo-idUSKBN1O90JW) have fallen in line with the U.S. stance on Huawei, many others have not. The European Commission’s recent 5G [recommendations](https://www.cyberscoop.com/5g-eu-huawei-cybersecurity-recommendations/) for member states dismissed a ban on Chinese telecoms. British intelligence has reportedly maintained that the security risks associated with Huawei can be [sufficiently managed](https://www.ft.com/content/619f9df4-32c2-11e9-bd3a-8b2a211d90d5), and New Zealand, after [initially bandwagoning](https://www.nytimes.com/2018/11/28/business/huawei-new-zealand-papua-new-guinea.html) with the United States in December 2018, abruptly [reversed course](https://www.bloomberg.com/news/articles/2019-02-18/new-zealand-says-china-s-huawei-hasn-t-been-ruled-out-of-5g-role) in February 2019. This is concerning for the United States because New Zealand and the UK are members of the Five Eyes intelligence-sharing alliance. Many allies have refused an outright ban of Huawei because of the company’s ability to offer 5G products at far cheaper rates than Western telecoms.

It is clear that U.S. diplomatic efforts are not working. The reality is that the bottom line is largely driving decision-making. Therefore, rather than take a purely negative approach, the United States should consider using positive inducements to make its 5G products more appealing. While the United States should not strive to mirror China’s top-down approach to innovation, it should work with allies to use market incentives to make U.S.- and Western-developed 5G infrastructure and products more competitive. Furthermore, the U.S. military needs to anticipate that its use of native telecommunications infrastructure in a future operating environment may be compromised, limited, or denied. The U.S. military will inevitably need greater bandwidth on the tactical edge and this should be an imperative that drives investment in research and development to address this challenge.

Technological innovation was at the crux of the United States’ comparative military and economic advantage in the twentieth century. In this contemporary great power competition, U.S. failure to innovate at the scientific and technological frontier will have direct (and deleterious) effects for the United States on the distribution of power in the international system over the long term.

#### Chinese tech superiority upends deterrence and emboldens them to risk conflict over Taiwan---extinction.

Kroenig 18, Deputy Director for Strategy, Scowcroft Center for Strategy and Security Associate Professor of Government and Foreign Service, Georgetown University (Matthew, Nov 12, 2018, “Will disruptive technology cause nuclear war?” *BAS*, <https://thebulletin.org/2018/11/will-disruptive-technology-cause-nuclear-war>)

Rather, we should think more broadly about how new technology might affect global politics, and, for this, it is helpful to turn to scholarly international relations theory. The dominant theory of the causes of war in the academy is the “bargaining model of war.” This theory identifies rapid shifts in the balance of power as a primary cause of conflict.

International politics often presents states with conflicts that they can settle through peaceful bargaining, but when bargaining breaks down, war results. Shifts in the balance of power are problematic because they undermine effective bargaining. After all, why agree to a deal today if your bargaining position will be stronger tomorrow? And, a clear understanding of the military balance of power can contribute to peace. (Why start a war you are likely to lose?) But shifts in the balance of power muddy understandings of which states have the advantage.

You may see where this is going. New technologies threaten to create potentially destabilizing shifts in the balance of power.

For decades, stability in Europe and Asia has been supported by US military power. In recent years, however, the balance of power in Asia has begun to shift, as China has increased its military capabilities. Already, Beijing has become more assertive in the region, claiming contested territory in the South China Sea. And the results of Russia’s military modernization have been on full display in its ongoing intervention in Ukraine.

Moreover, China may have the lead over the United States in emerging technologies that could be decisive for the future of military acquisitions and warfare, including 3D printing, hypersonic missiles, quantum computing, 5G wireless connectivity, and artificial intelligence (AI). And Russian President Vladimir Putin is building new unmanned vehicles while ominously declaring, “Whoever leads in AI will rule the world.”

If China or Russia are able to incorporate new technologies into their militaries before the United States, then this could lead to the kind of rapid shift in the balance of power that often causes war. If Beijing believes emerging technologies provide it with a newfound, local military advantage over the United States, for example, it may be more willing than previously to initiate conflict over Taiwan. And if Putin thinks new tech has strengthened his hand, he may be more tempted to launch a Ukraine-style invasion of a NATO member.

Either scenario could bring these nuclear powers into direct conflict with the United States, and once nuclear armed states are at war, there is an inherent risk of nuclear conflict through limited nuclear war strategies, nuclear brinkmanship, or simple accident or inadvertent escalation.

This framing of the problem leads to a different set of policy implications. The concern is not simply technologies that threaten to undermine nuclear second-strike capabilities directly, but, rather, any technologies that can result in a meaningful shift in the broader balance of power. And the solution is not to preserve second-strike capabilities, but to preserve prevailing power balances more broadly.

When it comes to new technology, this means that the United States should seek to maintain an innovation edge. Washington should also work with other states, including its nuclear-armed rivals, to develop a new set of arms control and nonproliferation agreements and export controls to deny these newer and potentially destabilizing technologies to potentially hostile states.

These are no easy tasks, but the consequences of Washington losing the race for technological superiority to its autocratic challengers just might mean nuclear Armageddon.

### 1AC---Cybersecurity ADV

#### Advantage 2 is Cybersecurity:

#### Aggressive patent strategies create structural flaws in 5G standardization that imperils domestic cybersecurity---market competition reduces the incidence of vulnerability and severity of attacks.

Duan 20, \*Charles Duan is a senior fellow and associate director of tech & innovation policy at the R Street Institute, where he focuses his research on intellectual property issues; (2020, “OF MONOPOLIES AND MONOCULTURES: THE INTERSECTION OF PATENTS AND NATIONAL SECURITY”, Santa Clara High Technology Law Journal, 36(4), 369-405. Retrieved from <https://www2.lib.ku.edu/login?url=https://www.proquest.com/scholarly-journals/monopolies-monocultures-intersection-patents/docview/2442966690/se-2?accountid=14556>)

III. COMPETITION AND CYBERSECURITY

In addition to the historical review done so far, another approach to understanding the relationship among patents, competition, and national security is to consider the role of cybersecurity. There is little doubt that computer system vulnerabilities that enable hacking and spread of computer exploits are a threat to the nation’s defenses, so better cybersecurity is a key part of national security strategy.155

Strong competition can thus complement national security by enhancing domestic cybersecurity, and patent assertion that unduly weakens competition detracts from cybersecurity.156 Competition promotes better cybersecurity in at least two ways. First, multiple studies show that competition encourages firms to improve their products on multiple vectors including cybersecurity. Second, competition avoids a situation that security experts call a “monoculture,” which increases vulnerability to severe cyberattacks. As former Secretary of Homeland Security Michael Chertoff wrote recently, “We need competition and multiple providers, not a potentially vulnerable technological monoculture,” to guarantee national security.157 Thus, cybersecurity provides a useful lens for understanding how unfettered patent assertion and licensing can detract from national security.

A. Cybersecurity as Competitive Value-Add

Competition enhances national security by reducing the incidence of technical vulnerabilities. That effect is especially important for security sensitive systems such as mobile telecommunications.

Intuitively, a causal chain from competition to cybersecurity makes logical sense. Computer security is a value-added benefit to consumers, so firms in competitive markets are likely to use security to gain an edge over their competitors.158 In monopolized markets, though, there may be less external impetus to test products for flaws, and the monopolist may choose to focus less on security and more on new product features or increased product quality.

Economic research confirms these hypotheses about competition leading to better cybersecurity. A 2009 empirical study of web browsers considered the impact of market concentration on the amount of time that vendors took to fix security vulnerabilities as they were discovered.159 The study found that the presence of more competitors correlated with faster cybersecurity response—a reduction of 8–10 days in response time per additional market rival.160 Similarly, business researchers in 2005 modeled incentives for firms to engage in sharing of cybersecurity information, and concluded that the “inclination to share information and invest in security technologies increases as the degree of competitiveness in an industry increases.”161 Another study found that, where two software firms are in competition, at least one will be willing to take on some degree of risk and responsibility for cybersecurity, whereas a monopoly software firm will consistently fail to accept such responsibility.162 To be sure, an unpublished study from 2017 found that some market concentration can make firms more responsive to cybersecurity issues, but only to a point: “being in a dominant position reduces the positive effect of having less competitors on the responsiveness of the vendor,” and indeed the “more dominant the firm is, the less rapid it is in releasing security patches.”163 This research confirms that competition is more conducive to cybersecurity.

It is not hard to see how this applies to emerging communication technologies markets. In the absence of competition, the above research suggests that device manufacturers, chip makers, and software developers will lack incentives to respond to vulnerabilities, to share information about cybersecurity practices and issues, and to take responsibility for security matters. Mobile phone chips have had their share of cybersecurity failures already.164 The best way to flush out ongoing and future cybersecurity issues is to maintain competitive pressure at all levels of the supply chain.

B. Vulnerabilities of “Monocultures”

A second reason why monopoly undermines cybersecurity is that monopoly leads to a “monoculture” of single-vendor products, opening the door to massive systemic failure in the case of a cyberattack. Computer researchers developed the theory of software monocultures in the early 2000s, in response to the regular phenomenon of computer viruses and other attacks spreading rapidly by exploiting flaws in the dominant operating system at the time, Microsoft Windows.165 Where a computer system such as Windows has a commanding share of users, a virus that exploits a flaw in that system can quickly spread to infect a whole interconnected ecosystem. An operating system monopoly thus enables fast and easy spread of cyberattacks, and better cybersecurity would be achieved through greater diversity in online systems.166 As one research group posited, “a network architecture that supports a collection of heterogeneous network elements for the same functional capability offers a greater possibility of surviving security attacks as compared to homogeneous networks.”167

There has been considerable study of the theory that computer monocultures are naturally more vulnerable to attacks.168 In one study, computer science researchers reviewed a catalog of 6,340 software vulnerabilities recorded in 2007, to compare whether comparable software would share the same flaws.169 Of the 2,627 vulnerabilities applicable to application software (as opposed to operating systems, web scripts, and other software components), only 29 (1.1%) applied to substitute products from different vendors but providing the same functionality.170 By contrast, different versions of a single software product were found to share vulnerabilities 84.7% of the time.171 Thus, software monocultures share exploitable flaws even when there is some variation in versions across the monoculture; by contrast, diversity in software is almost guaranteed to prevent a single flaw from affecting all users.

In the case of 5G and wireless mobile communications, a monoculture is an especially concerning possibility. To the extent that systems such as smart city sensors or communication networks are widely deployed in a monoculture fashion, a widespread attack could have devastating consequences, potentially blacking out a region and affecting essential services such as 911.172 A monoculture that is vulnerable to so-called “rootkits” or “backdoors”—maliciously installed software that enable bad actors to commandeer systems—could also enable mass surveillance or spying by private hackers or foreign governments.173 The presence of systems from multiple vendors would mitigate these possibilities.

#### Actors have the means and motivations to strike critical infrastructure.

Wintch 21, \*Timothy M. Wintch, an active-duty Major in the United States Air Force. He is currently a graduate student at the Oettinger School of Science & Technology Intelligence, National Intelligence University, in Bethesda, Maryland. Mr. Wintch has over 11 years of experience in command-and-control operations as an Air Battle Manager. He holds a Bachelor of Arts in Politics from the University of California, Santa Cruz, and a Master of Arts in Military Studies from American Military University. (April 20th, 2021, “PERSPECTIVE: Cyber and Physical Threats to the U.S. Power Grid and Keeping the Lights on”, https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/)

Among critical infrastructure sectors in the U.S., energy is perhaps the most crucial of the 16 sectors defined by the Department of Homeland Security. This sector is so vital because it provides the energy necessary to run every other critical infrastructure sector. However, the U.S. power grid, the backbone of the energy sector, is built upon an aging skeleton that is becoming increasingly vulnerable every day. Whether from terrorists or nation-states like Russia and China, the power grid is susceptible to not just physical attacks, but also to cyber intrusion as well. However, much of this threat can be mitigated if the U.S. takes the appropriate steps to safeguard the power grid and avoid a potential catastrophe in the future.

Since Sept. 11, 2001, terrorism on U.S. soil has been at the forefront of American consciousness. Critical infrastructure provides an appealing target because of the disproportionally large impact even a small attack can have on the sectors. In particular, the power grid represents a particularly lucrative target, both in terms of the ease of access and the large impact it can make. The National Research Council stated that the U.S. power grid is “vulnerable to intelligent multi-site attacks by knowledgeable attackers intent on causing maximum physical damage to key components on a wide geographical scale.”[[1]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn1) Additionally, the physical security of transmission and distribution systems is difficult due to the dispersed nature of these key components, which in turn is advantageous to attackers as it reduces the likelihood of their capture.[[2]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn2) From 2002-2012, approximately 2,500 physical attacks occurred against transmission lines and towers worldwide and approximately 500 attacks against transformer substations.[[3]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn3) Terrorists have the motivation to attack the U.S. power grid but the very nature of the grid makes it highly vulnerable. The power grid is not only at risk from physical attacks, but also nation-state cyberattacks.

One nation that has shown both the capability and intent to use attacks against critical energy infrastructure is Russia, as demonstrated in their 2015 annexation of Crimea from Ukraine. A Russian cyber threat group known as Sandworm, which used its BlackEnergy malware, attacked Ukrainian computer systems that provide remote control of the Ukraine power grid.[[4]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn4) This attack, and another in 2016, each left the capital Kiev without power, prompting cyber experts to raise concern about the same malware already existing in NATO and the U.S. power grids.[[5]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn5) In any conflict between Russia and NATO, not only would similar cyberattacks pose a threat, but so would potential physical attacks severing fuel oil and natural gas lines to Western Europe. Russia has both the capability and intent to attack critical infrastructure, particularly power grids, during future conflicts in their “hybrid warfare” approach.

Another nation that has the capability to attack critical energy infrastructure is China, representing a threat to not just the U.S. energy infrastructure but also that of our allies whose support would be vital in a major conflict. A recent NATO report highlighted this threat from China’s Belt and Road Initiative, stating that “[China’s] foreign direct investment in strategic sectors [such as energy generation and distribution] …raises questions about whether access and control over such infrastructure can be maintained, particularly in crisis when it would be required to support the military.”[[6]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn6) Like Russia, China has been active with cyber intrusions in U.S. energy infrastructure. The Mission Support Center at Idaho National Laboratory characterized these as attacks as “multiple intrusions into US ICS/SCADA [Industrial Control Systems/Supervisory Control and Data Acquisition] and smart grid tools [that] may be aimed more at intellectual property theft and gathering intelligence to bolster their own infrastructure, but it is likely that they are also using these intrusions to develop capabilities to attack the [bulk electric system], as well.”[[7]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn7) China, therefore, has both the capability and intent to conduct cyber intrusions and attacks for myriad reasons.

Another arm of this threat is the reliance the U.S. energy industry has on imports from China, especially transformers. In early 2020, federal officials seized a transformer in the port of Houston that had been imported by the Jiangsu Huapeng Transformer Company before sending it to Sandia National Laboratory in Albuquerque. Sandia is contracted by the U.S. Department of Energy for mitigating national security threats.[[8]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn8) The Wall Street Journal reported that “Mike Howard, chief executive of the Electric Power Research Institute, a utility-funded technical organization, said that the diversion of a huge, expensive transformer is so unusual – in his experience, unprecedented – that it suggests officials had significant security concerns.”[[9]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn9) Previously destined for the Washington Area Power Administration’s Ault, Colo., substation, the transformer is believed to have been seized due to “backdoor” exploitable hardware emplaced by the Chinese prior to shipment.[[10]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn10) Shortly after these events, President Trump issued Executive Order 13920, “[Securing the United States Bulk-Power System](https://trumpwhitehouse.archives.gov/presidential-actions/executive-order-securing-united-states-bulk-power-system/),” essentially limiting the import of Chinese-built critical energy infrastructure components due to concerns about cybersecurity.[[11]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn11) Interestingly, Jiangsu Huapeng “boasted that it supported 10 percent of New York City’s electricity load.”[[12]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn12)

Franklin Kramer, the former Assistant Secretary of Defense for International Security Affairs, testified before a U.S. House of Representatives Energy and Commerce subcommittee during an energy and power hearing in 2011 and said that a “highly-coordinated and structured cyber, physical, or blended attack on the bulk power system, however, could result in long-term (irreparable) damage to key system components in multiple simultaneous or near-simultaneous strikes.” He added that “an outage could result with the potential to affect a wide geographic area and cause large population centers to lose power for extended periods.”[[13]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn13) Even the inclusion of features such as smart grids to the overall grid structure poses new vulnerabilities through their connectivity. Kramer stated that “such connectivity means that the distribution system could be a key vector for a national security attack on the grid.”[[14]](https://www.hstoday.us/subject-matter-areas/infrastructure-security/perspective-cyber-and-physical-threats-to-the-u-s-power-grid-and-keeping-the-lights-on/" \l "_ftn14)

#### Those attacks cause accidental nuclear escalation.

Klare 19, \*Michael T. Klare is a professor emeritus of peace and world security studies at Hampshire College and senior visiting fellow at the Arms Control Association; (November 19th, “Cyber Battles, Nuclear Outcomes? Dangerous New Pathways to Escalation”, https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation)

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](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote12) 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](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote12)

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](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote14)

These are by no means the only pathways to escalation resulting from the offensive use of cyberweapons. Others include efforts by third parties, such as proxy states or terrorist organizations, to provoke a global nuclear crisis by causing early-warning systems to generate false readings (“spoofing”) of missile launches. Yet, they do provide a clear indication of the severity of the threat. As states’ reliance on cyberspace grows and cyberweapons become more powerful, the dangers of unintended or accidental escalation can only grow more severe.

#### Cyber-compromised NC3 causes nuclear war.

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The Nuclear-Cyber Connection

These links exist because the NC3 systems of the United States and other nuclear-armed states are heavily dependent on computers and other digital processors for virtually every aspect of their operation and because those systems are highly vulnerable to cyberattack. Every nuclear force is composed, most basically, of weapons, early-warning radars, launch facilities, and the top officials, usually presidents or prime ministers, empowered to initiate a nuclear exchange. Connecting them all, however, is an extended network of communications and data-processing systems, all reliant on cyberspace. Warning systems, ground- and space-based, must constantly watch for and analyze possible enemy missile launches. Data on actual threats must rapidly be communicated to decision-makers, who must then weigh possible responses and communicate chosen outcomes to launch facilities, which in turn must provide attack vectors to delivery systems. All of this involves operations in cyberspace, and it is in this domain that great power rivals seek vulnerabilities to exploit in a constant struggle for advantage.

The use of cyberspace to gain an advantage over adversaries takes many forms and is not always aimed at nuclear systems. China has been accused of engaging in widespread cyberespionage to steal technical secrets from U.S. firms for economic and military advantages. Russia has been accused, most extensively in the Robert Mueller report, of exploiting cyberspace to interfere in the 2016 U.S. presidential election. Nonstate actors, including terrorist groups such as al Qaeda and the Islamic State group, have used the internet for recruiting combatants and spreading fear. Criminal groups, including some thought to be allied with state actors, such as North Korea, have used cyberspace to extort money from banks, municipalities, and individuals.[4](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote04) Attacks such as these occupy most of the time and attention of civilian and military cybersecurity organizations that attempt to thwart such attacks. Yet for those who worry about strategic stability and the risks of nuclear escalation, it is the threat of cyberattacks on NC3 systems that provokes the greatest concern.

This concern stems from the fact that, despite the immense effort devoted to protecting NC3 systems from cyberattack, no enterprise that relies so extensively on computers and cyberspace can be made 100 percent invulnerable to attack. This is so because such systems employ many devices and operating systems of various origins and vintages, most incorporating numerous software updates and “patches” over time, offering multiple vectors for attack. Electronic components can also be modified by hostile actors during production, transit, or insertion; and the whole system itself is dependent to a considerable degree on the electrical grid, which itself is vulnerable to cyberattack and is far less protected. Experienced “cyberwarriors” of every major power have been working for years to probe for weaknesses in these systems and in many cases have devised cyberweapons, typically, malicious software (malware) and computer viruses, to exploit those weaknesses for military advantage.[5](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote05)

Although activity in cyberspace is much more difficult to detect and track than conventional military operations, enough information has become public to indicate that the major nuclear powers, notably China, Russia, and the United States, along with such secondary powers as Iran and North Korea, have established extensive cyberwarfare capabilities and engage in offensive cyberoperations on a regular basis, often aimed at critical military infrastructure. “Cyberspace is a contested environment where we are in constant contact with adversaries,” General Paul M. Nakasone, commander of the U.S. Cyber Command (Cybercom), told the Senate Armed Services Committee in February 2019. “We see near-peer competitors [China and Russia] conducting sustained campaigns below the level of armed conflict to erode American strength and gain strategic advantage.”

Although eager to speak of adversary threats to U.S. interests, Nakasone was noticeably but not surprisingly reluctant to say much about U.S. offensive operations in cyberspace. He acknowledged, however, that Cybercom took such action to disrupt possible Russian interference in the 2018 midterm elections. “We created a persistent presence in cyberspace to monitor adversary actions and crafted tools and tactics to frustrate their efforts,” he testified in February. According to press accounts, this included a cyberattack aimed at paralyzing the Internet Research Agency, a “troll farm” in St. Petersburg said to have been deeply involved in generating disruptive propaganda during the 2016 presidential elections.[6](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote06)

Other press investigations have disclosed two other offensive operations undertaken by the United States. One called “Olympic Games” was intended to disrupt Iran’s drive to increase its uranium-enrichment capacity by sabotaging the centrifuges used in the process by infecting them with the so-called Stuxnet virus. Another left of launch effort was intended to cause malfunctions in North Korean missile tests.[7](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote07) Although not aimed at either of the U.S. principal nuclear adversaries, those two attacks demonstrated a willingness and capacity to conduct cyberattacks on the nuclear infrastructure of other states.

Efforts by strategic rivals of the United States to infiltrate and eventually degrade U.S. nuclear infrastructure are far less documented but thought to be no less prevalent. Russia, for example, is believed to have planted malware in the U.S. electrical utility grid, possibly with the intent of cutting off the flow of electricity to critical NC3 facilities in the event of a major crisis.[8](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote08) Indeed, every major power, including the United States, is believed to have crafted cyberweapons aimed at critical NC3 components and to have implanted malware in enemy systems for potential use in some future confrontation.

Pathways to Escalation

Knowing that the NC3 systems of the major powers are constantly being probed for weaknesses and probably infested with malware designed to be activated in a crisis, what does this say about the risks of escalation from a nonkinetic battle, that is, one fought without traditional weaponry, to a kinetic one, at first using conventional weapons and then, potentially, nuclear ones? None of this can be predicted in advance, but those analysts who have studied the subject worry about the emergence of dangerous new pathways for escalation. Indeed, several such scenarios have been identified.[9](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote09)

The first and possibly most dangerous path to escalation would arise from the early use of cyberweapons in a great power crisis to ~~paralyze~~ undermine the vital command, control, and communications capabilities of an adversary, many of which serve nuclear and conventional forces. In the “fog of war” that would naturally ensue from such an encounter, the recipient of such an attack might fear more punishing follow-up kinetic attacks, possibly including the use of nuclear weapons, and, fearing the loss of its own arsenal, launch its weapons immediately. This might occur, for example, in a confrontation between NATO and Russian forces in east and central Europe or between U.S. and Chinese forces in the Asia-Pacific region.

Speaking of a possible confrontation in Europe, for example, James N. Miller Jr. and Richard Fontaine wrote that “both sides would have overwhelming incentives to go early with offensive cyber and counter-space capabilities to negate the other side’s military capabilities or advantages.” If these early attacks succeeded, “it could result in huge military and coercive advantage for the attacker.” This might induce the recipient of such attacks to back down, affording its rival a major victory at very low cost. Alternatively, however, the recipient might view the attacks on its critical command, control, and communications infrastructure as the prelude to a full-scale attack aimed at neutralizing its nuclear capabilities and choose to strike first. “It is worth considering,” Miller and Fontaine concluded, “how even a very limited attack or incident could set both sides on a slippery slope to rapid escalation.”[10](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote10)

What makes the insertion of latent malware in an adversary’s NC3 systems so dangerous is that it may not even need to be activated to increase the risk of nuclear escalation. If a nuclear-armed state comes to believe that its critical systems are infested with enemy malware, its leaders might not trust the information provided by its early-warning systems in a crisis and might misconstrue the nature of an enemy attack, leading them to overreact and possibly launch their nuclear weapons out of fear they are at risk of a preemptive strike.

“The uncertainty caused by the unique character of a cyber threat could jeopardize the credibility of the nuclear deterrent and undermine strategic stability in ways that advances in nuclear and conventional weapons do not,” Page O. Stoutland and Samantha Pitts-Kiefer wrote in 2018 paper for the Nuclear Threat Initiative. “[T]he introduction of a flaw or malicious code into nuclear weapons through the supply chain that compromises the effectiveness of those weapons could lead to a lack of confidence in the nuclear deterrent,” undermining strategic stability.[11](https://www.armscontrol.org/act/2019-11/features/cyber-battles-nuclear-outcomes-dangerous-new-pathways-escalation#endnote11) Without confidence in the reliability of its nuclear weapons infrastructure, a nuclear-armed state may misinterpret confusing signals from its early-warning systems and, fearing the worst, launch its own nuclear weapons rather than lose them to an enemy’s first strike. This makes the scenario proffered in the 2018 NPR report, of a nuclear response to an enemy cyberattack, that much more alarming.

### 1AC---Solvency

#### Plan: The United States federal government should substantially increase prohibitions on private sector conduct that is more restrictive of competition than reasonably necessary to enable creation of information technology standards.

#### The plan requires SSO’s to administer reasonable action to prohibit ex post opportunism---that strengthens FRAND effectiveness while enabling SEP holders to capture appropriate royalties---which is the best competition-innovation balance.

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3. Application of the Basic Legal Principles

The antitrust principle is straightforward: industry-wide collaboration through SSOs to establish procompetitive standards is permitted only if it is no more restrictive of competition than reasonably necessary to enable creation of the standards. When standard setting predictably creates technology monopolies that, if unrestrained, will enable anticompetitive ex post opportunism that would otherwise not occur, an SSO that does not take effective measures to prevent or minimize such ex post opportunism engages in conduct that is more restrictive of competition than necessary. In that case, the SSO and, in appropriate cases, its members, may well violate Section 1 of the Sherman Act.

Under this principle, SSO procedures and FRAND rules should be evaluated based on whether they lead to reasonable SEP royalties, using the competitive ex ante licensing standard discussed above, which has been adopted by the courts in patent law. Put differently, FRAND rules should be evaluated based on their ability to prevent SEP holders from obtaining more than the ex ante value of their technology from implementers.

This limitation would not prevent a SEP holder from proﬁting, perhaps greatly, from participating in the SSO and having its patented technology included in the standard. The SEP holder continues to be rewarded for its technology because the inclusion of its technology in the standard can still greatly increase the volume of licensing opportunities available to the SEP holder.

Whether a particular set of FRAND rules are sufficiently effective in preventing ex post opportunism will depend on the particular circumstances. The procedural unfolding of the case will also depend upon the circumstances. As a general matter, the case would probably be structured as an ordinary Rule of Reason case.82

First, the plaintiff would have to demonstrate harm to competition as a result of the collaboration of the SSO’s members, many of which compete with one another. In this case, the harm to competition would stem from the ability of the SEP holder to exercise monopoly power by obtaining royalties in excess of the competitive, ex ante level. The decision to include patented technologies in the standard would be the allegedly unlawful agreement. Notably, the court need not determine what a FRAND royalty is; it would suffice to determine that market power has been created or exercised, and that existing SSO rules and policies were not adequate to prevent the competitive harm. The defendant, which could be the SSO or perhaps one or more SSO members, would win at this point if the plaintiff failed to show harm to competition. If might fail if the standard faces substantial competition and the court concludes that the SEP holder therefore does not have market power or if the SSO’s rules and policies are found to be effective in preventing ex post opportunism, even if the plaintiff or even the court thinks that other rules and policies would be preferable.

Second, if the plaintiff makes the requisite showing of harm to competition, the defendant(s) would then have to show some procompetitive justiﬁcation— in this case, the beneﬁts of the standard. These two initial steps should be straightforward.

Third, if as is likely the defendant is able to show a procompetitive justiﬁcation, the plaintiff would have to show that the SSO could have used available, reasonable alternatives to realize the efficiency beneﬁts with less or none of the competitive harms. The plaintiff might identify reasonable alternatives that would have led to a different standard, based on including unpatented technology in the standard or perhaps involving fewer SEPs or fewer owners of SEPs, which would be less subject to patent holdup. More likely, the plaintiff could suggest alternative SSO rules that would not change the standard, but would reduce the likelihood or extent of ex post opportunism. For example, the plaintiff might suggest more rigorous FRAND-type rules, such as rules that set forth more precise principles on which FRAND royalties are to be determined and the circumstances under which SEP holders might seek injunctions.

Fourth, the burden would then shift to the defendant(s) to show that the beneﬁts of the standard could not have been realized if the SSO had adopted any of the proffered alternatives or that those alternatives were unrealistic.83 The plaintiff would be entitled to judgment if the court concludes that those beneﬁts could have been realized with less competitive harm if the SSO had adopted the standard with different IPR rules or policies.

Our overall sense, based on experience and the empirical literature, is that the extant FRAND rules are generally useful, but tend to be inadequate because they are imprecise and leave unresolved such critical issues as (a) the meaning of a reasonable royalty, even conceptually; (b) the meaning of “non-discriminatory;” (c) to whom licenses must be offered; and (d) under what circumstances may a SEP holder obtain an injunction.84 These imprecise FRAND commitments are therefore not sufficient to adequately prevent ex post opportunism. The recent revisions to IEEE’s FRAND policy represent a signiﬁcant step in the right direction, but even this advance leaves important questions unanswered.85 If FRAND rules are inadequate in these ways, litigation involving extant FRAND rules would likely be resolved only at the ﬁnal, fourth step. The defendant would be able to demonstrate the beneﬁts created by the standard; the plaintiff would be able to demonstrate the creation of market power and that other reasonable and practical rules or policies would ameliorate the problem. The case would thus turn on whether the defendant is able to demonstrate that signiﬁcant beneﬁts associated with standardization could not have been realized if the SSO had adopted those other rules or policies.

The court would have available a variety of possible remedies if the plaintiff prevails. Implementers that paid supracompetitive royalties or were unlawfully excluded in whole or in part from product markets as a result of the inadequate FRAND policies would be entitled to damages and, in some cases, to treble damages.86 If the unlawful SSO conduct is regarded as the collective action of the SSO and its members, which is likely to be the case in most instances, SSO members would be jointly and severally liable for the damages. Forward-looking injunctive relief aimed at restoring competition would need to be fashioned to the requirements of the individual case. For example, a court could order the SSO to adopt a new rule or policy proposed by the plaintiff. If the court is reluctant to take on that governance role, it might give the SSO a period of time—maybe ninety days—to develop a rule, subject to the court’s ultimate approval, which would adequately ameliorate the competitive problem created by the SSO. Alternatively or in addition, the court might order the parties to attempt to negotiate a rule or policy on which they can agree. And, depending on the circumstances, the court might order SEP holders, including at least those that were defendants in the case, to comply with the new SSO rules and policies.

#### Alleviating patent holdup begins by permitting consumer challenges to SSO misconduct, which necessitates antitrust. SSO’s cannot be counted on to self execute FRAND.

Melamed & Shapiro 18, \*A. Douglas Melamed is Professor of the Practice of Law at Stanford Law School; \*Carl Shapiro is the Transamerica Professor of Business Strategy at the Haas School of Business at the University of California at Berkeley; (May 2018, “How Antitrust Law Can Make FRAND Commitments More Effective”, <https://www-cdn.law.stanford.edu/wp-content/uploads/2018/05/How-Antitrust-Law-Can-Make-FRAND-Commitments-More-Effective.pdf>)

2. Why Antitrust Enforcement Is Necessary

Some SSO members have an interest in ensuring that the SSO takes steps to minimize the potential harms from the SEP holders’ monopoly power, and this undoubtedly explains in part why most SSOs have adopted FRAND policies or similar requirements. But, as shown in the economic model in the Appendix,73 SSOs cannot in general be counted on to adopt effective FRAND policies. The bases for this conclusion, which is central to our argument for the applicability of Section 1 to SSO FRAND rules, can be summarized as follows.74

First, the SSO members collectively have an interest in permitting SEP holders to charge supracompetitive royalties that elevate the downstream price of compliant devices to the monopoly level. Doing so will enable the members in aggregate to collect increased revenues from consumers, and thus to generate increased profits that in theory could be shared by all the members. In other words, supracompetitive royalties can enrich industry participants as a group at the expense of final consumers. This fact alone should serve as a clear and strong signal regarding the dangers of counting on SSOs to implement effective FRAND policies: if the SSO members negotiate efficiently, the outcome will be just as bad for consumers as if the members agreed to fix downstream prices.75 The fundamental problem is that final consumers are not at the table when the SSO rules are negotiated.

Second, SSO members that own SEPs but earn little or no profits as implementers have a powerful self-interest in being able to exercise the ex post monopoly power associated with their SEPs. Because SSO policies are usually determined by a consensus process, these members will likely be able to block the adoption of fully effective FRAND policies. Moreover, these SSO members often have the greatest interest in SSO patent policies. Since much of their income may be attributable to patent licensing, they can be expected to devote substantial resources to block the adoption of FRAND policies that effectively prevent patent holdup.

Third, even SSO members that earn significant profits as implementers may have mixed incentives if they also own SEPs, which can also lead to weak or in-effective FRAND rules. In the Appendix, we show that, if the requisite share of votes in the SSO are cast by firms whose share of SEP royalties is at least as large as their share of downstream profits, and if these firms can coordinate their voting over the FRAND rules, then an SSO unconstrained by antitrust laws will establish FRAND rules leading to an outcome no better for consumers than would result from an integrated monopolist controlling all SEPs and all downstream sales.76

Fourth, even SSO members that are downstream implementers and own few, if any, SEPs may have only a modest interest in promoting effective policies to restrict ex post opportunism. Because all implementers will be subject to the opportunism, all of them will face increased licensing costs, and therefore will likely be able to pass on most or all of the increased costs to their customers.77 Furthermore, these implementers might not be especially active or effective in the standard-setting process for free-riding or public-good reasons, especially if SEP royalties constitute only a relatively small portion of the costs of their standard-implementing products. Public choice theory predicts that the highly motivated SEP holders are likely to have the greatest influence over patent policies.

Empirical evidence bears out these concerns. As a starting point, we find it striking that SSO FRAND rules are almost always quite vague.78 Notably, SSOs in which SEP holders are more prevalent tend to have weaker FRAND rules.79 Further, to our knowledge, SSOs have made almost no effort to enforce their FRAND rules and have, instead, left enforcement efforts to others.80 This evidence raises serious doubts about the effectiveness of the existing FRAND rules in preventing ex post opportunism.

The problem is exacerbated by the fact that most SSOs put IPR rules in place long ago, when SEP-holder opportunism was much less of a problem. Proponents of new, stricter IPR rules to prevent SEP-holder opportunism thus face the daunting task of persuading an SSO that makes decisions by consensus to change an existing policy over the often-intense opposition of SEP holders. The dispute over the recent changes to the IPR rules at the Institute of Electrical and Electronics Engineers (IEEE) illustrates how difficult and contentious that process can be.81

Thus, effective prevention of ex post opportunism by SEP holders requires antitrust enforcement to overcome the SSO problems associated with (a) attenuated incentives (implementers that also own SEPs); (b) the public good aspect of stronger FRAND rules (the danger that implementers will free ride on others rather than expend resources to implement strong FRAND rules); and (c) externalities (the harm to consumers that results when implementers pass through higher royalties in the form of higher prices).

#### Indicting systemic holdup is a fruitless academic exercise. Be cautious of neg studies---they rely on deeply flawed methodologies, don’t address relevant hypotheses, and in all likelihood are funded by Qualcomm.

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C. Actual Patent Holdups Are Very Difficult to Measure

As with holdup in general, quantifying the frequency and magnitude of actual patent holdups is very difficult as a practical matter and not a useful way of assessing the importance of the patent holdup problem. Rarely can researchers observe the ex post price, because patent licensing terms are normally confidential. Even when researchers can observe the license fees, they are often embedded in a complex agreement. And even in those rare cases where researchers can accurately observe the ex post price, they are unlikely to observe the ex ante price, making it difficult if not impossible to measure the magnitude of the holdup.

Litigated cases also are problematic as a source of data to quantify the magnitude of actual patent holdups. A litigated case resulting in an award of reasonable royalties may well involve attempted holdup, but by definition it cannot provide smoking-gun evidence of actual holdup, at least if one accepts that the royalties awarded by the court are reasonable.64 Rather, at least since the Supreme Court eliminated the automatic entitlement to an injunction, litigation to judgment (which is rare) often reflects a refusal to give in to holdup by a defendant willing to take its chances in court. And the vast majority of patent cases settle. The terms of a settlement are rarely observable, so it is impossible to know whether those settlements reflected the value of holdup.

Notwithstanding these points, a number of authors have pointed to a lack of empirical evidence to argue that patent holdup either does not exist or is not a significant problem.65 Even taken on their own terms, many of these papers are deeply flawed. One such paper, which has often been cited by those who downplay the importance of patent holdup, purports to offer empirical evidence inconsistent with the hypothesis that SEP holdup has slowed innovation or harmed consumers.66 The conclusion to this Qualcomm-funded paper states, “[w]e cannot reject the hypothesis of no SEP holdup.”67 How do these authors reach this conclusion? They compare rates of change of quality-adjusted prices in “SEP- reliant” industries with “similar” non-SEP-reliant industries, primarily over the 1997-2013 period.68 For example, they show that quality-adjusted prices of cellular phones have fallen faster than the quality-adjusted prices of automobiles.69 This exercise does not address the relevant hypothesis: whether SEP holdup increased the price of cellular phones from what it otherwise would have been.70 The quality- adjusted prices of pharmaceuticals have risen much faster than automobiles over the same period of time, but that similarly is not proof that pharmaceuticals are subject to a patent holdup problem.

Beyond the obvious and fatal flaws in this empirical work,71 the whole line of inquiry is of limited relevance for the purpose of measuring the social costs of holdup or designing institutions to limit patent holdup, because it only looks for instances of actual patent holdup. As explained above, these instances are very difficult to detect and are only the tip of the iceberg in terms of the social costs of patent holdup.72 So far as we can tell, the vast majority of these papers have been funded by Qualcomm and other patent holders seeking to weaken the institutions designed to control patent holdup, increase their leverage in licensing negotiations, and thus increase their ability to monetize their patents.73

Despite the difficulties of observing the incidence and magnitude of actual patent holdups, we are able to observe the telltale signs of actual patent holdup. Transaction cost economics, and simple bargaining theory for that matter, tell us that actual patent holdup can be expected to occur when three conditions are present: (1) a firm has developed a new product independently; (2) that firm has made significant investments that are specific to one or more patents asserted against that product; and (3) the firm is not protected from patent holdup.74 As discussed above, conditions (1) and (2) are common in the high-tech sector, placing considerable weight on the institutions that protect firms from patent holdup.

The presence of those institutions is itself evidence that the patent holdup problem is real and significant. As we noted in Part I, companies try to structure their transactions to avoid holdup, developing institutions for that purpose. As we have seen, the traditional market solutions do not work well for patents. In most industries, the central mechanisms limiting patent holdup come from patent law, namely the rules governing injunctions and patent damages. In the high-tech sector, companies have overwhelmingly turned to SSOs in an effort to obtain global commitments to an ex ante royalty, which appear in the form of FRAND commitments. The near-universal recognition in the industry of the need for such a mechanism is strong evidence that companies view holdup as a problem they must build institutions to avoid.

#### Patent holdup is real and necessitates intervention, even if it can’t be systemically proven.

Contreras 19, \*Jorge Contreras, Professor, University of Utah S.J. Quinney College of Law; (2019, “MUCH ADO ABOUT HOLD-UP”, <https://www.illinoislawreview.org/wp-content/uploads/2019/08/Contreras.pdf>)

B. Protective Measures May Already Be Working to Reduce Hold-Up

Another important factor that should be considered regarding the purported lack of empirical evidence of systemic hold-up is the effect that existing policy measures have already had in reducing hold-up. As noted above, the threat of patent hold-up was a primary motivating factor for many SDOs to adopt policies requiring the disclosure and licensing of SEPs. These policies have been in place for decades. In the United States, the first such policy was adopted in 1959 by the American Standards Association (the predecessor to today’s American National Standards Institute (ANSI).102 Today, every one of the more than 200 ANSI-accredited developers of American National Standards must adhere to ANSI’s essential requirements, including the adoption of such a licensing policy for SEPs. Similar policies have existed in European and international standards organizations since at least the 1980s.103 These policies, which were developed by SDOs in large part to reduce the likelihood of hold-up within standard-setting systems, have had several decades to work, and it is likely that the lack of observed hold-up in some studies can be attributed to the successful operation of these policies.

Similarly, antitrust and competition enforcement agencies in the U.S. and Europe have been aware of the potential for hold-up connected with standardization for many years. Accordingly, they have brought enforcement actions when it has been alleged that hold-up behavior has resulted in a violation of the antitrust laws. High-profile enforcement actions against patent holders such as Rambus, 104 Google 105 and Qualcomm106 send powerful deterrent signals to the market and warn others not to engage in similar behavior lest they, too, become the subject of agency enforcement. Like SDO policies, it is likely that the general market awareness of agency interest in standard-setting and hold-up has, to a degree, limited the amount of hold-up that is actually attempted in the marketplace, thereby limiting the direct evidence of hold-up as a systemic problem.

But do the deterrent effects of SDO and agency efforts to reduce hold-up signify that hold-up is not a problem? Certainly not. To reach such a conclusion would be perverse: akin to claiming that burglary is not a problem in a neighborhood that experiences reduced burglary rates after it has implemented an active neighborhood watch program and enhanced policing.

C. Indicia of Healthy Markets do not Prove the Absence of Anticompetitive Conduct

As noted above, one of the principal arguments advanced by commentators seeking to refute the “hold-up theory” is that markets for telecommunications products, namely smart phones, are robust – evidenced by increasing product functionality, decreasing consumer prices and rapid innovation -- and that this degree of robustness indicates that hold-up cannot be a problem in these markets.107 If hold-up were a problem in these markets, they reason, we would see product stagnation, stable (but high) prices, and a lack of competition – features associated with classic examples of hold-up in markets for products such as natural resources and agricultural goods.108

But this argument relies on a false syllogism: hold-up results in market dysfunction; if a market functions well, then it cannot be subject to hold-up. The weaknesses in this argument are multifold. First, hold-up may exist in individual instances without sufficient weight to affect overall market characteristics, particularly in a large global market such as mobile telecommunications. Thus hold-up may exist, even in a market that outwardly appears to be functioning well. Second, there is no valid counterfactual to use to compare the health and robustness of the market for mobile telecommunications products.109 Other consumer electronics devices, such as televisions and DVD players, do not compare well with mobile telecommunications devices, which have taken on a unique character in the modern networked economy. Thus, observing the strength of the market fails to answer the critical questions “compared to what?” and how much stronger the market might be (through more product diversity, functionality, price reduction) without hold-up?

A simple historical illustration is useful in this context. During the decade leading up to the enactment of the Sherman Antitrust Act of 1890, several major U.S. commodity markets (e.g., steel, salt, petroleum, coal, sugar, lead, and others) came under intense scrutiny for a variety of allegedly anticompetitive industrial arrangements. One might have argued that these markets, had they been subject to the sorts of anticompetitive collusion that the Sherman Act sought to address, should have seen reductions of output and increases in price. Yet, between 1880 and 1890, U.S. output of salt, petroleum, steel, and coal all increased significantly, and prices of steel, sugar and lead all dropped significantly.110 Do these positive market indicia demonstrate that the subject markets were not subject to anticompetitive collusion, and that the Sherman Act was not necessary? Certainly, investigations of these industries revealed significant cartel behavior. I would suggest that few commentators today would argue that the coal, steel, sugar and other major industrial producers of the late nineteenth century were innocent of collusive and anticompetitive conduct, or that the Sherman Act was not a necessary and beneficial measure for the U.S. economy.111 Yet, had we relied solely on the positive characteristics exhibited by these markets as proof that anticompetitive conduct did not exist, then perhaps the Sherman Act never would have been enacted.

By the same token, the fact that global markets for standardized products such as computers and smart phones appear to be thriving does not itself refute the possibility of hold-up nor the existence of anticompetitive conduct in these markets. Nor does it allow regulators and policy makers to drop their guard or cease to monitor these important industries.

## 2AC

### China Advantage

#### *Every single* neg innovation claim is false---overdeterrence and “false positives” are wrong, FRAND-ly rates sufficiently motivate innovation, and holdup outweighs.

Leslie 20, \*Christopher R. Leslie, Chancellor’s Professor of Law, University of California Irvine School of Law; (2020,“The DOJ’s Defense of Deception:   
Antitrust Law’s Role in Protecting the Standard-Setting Process”, https://scholarsbank.uoregon.edu/xmlui/bitstream/handle/1794/25382/1\_Leslie\_FNL.pdf?sequence=1&isAllowed=y)

1. Innovation

In his speeches, Delrahim tries to create the specter of antitrust liability destroying innovation incentives if FRAND violations are treated as anticompetitive conduct.152 In particular, Delrahim argues that, even in the presence of FRAND commitments, courts should grant injunctions against alleged infringers in order to “optimize[] the incentive[s] to innovate for the benefit of the public.”153 At times, he asserts that allowing owners of FRAND-encumbered SEPs to enjoin manufacturers from making products is necessary to reward inventors.154 This is counterintuitive. Allowing patentholders to evade their contractual commitments made to SSOs does not “reward[] successful inventors,” as Delrahim argues.155 Rather, it distorts the competitive process through which the standard was initially adopted, which was based on the patentholders’ representations that they would charge FRAND royalties.156 Moreover, there is nothing in patent law that suggests—let alone mandates—that patentholders should be able to maximize their profits by any means they choose.157

Delrahim repeatedly describes FRAND violators as “innovators” and suggests that this characterization alone warrants antitrust immunity, lest liability deter or discourage inventors from inventing.158 But this is a red herring, a distraction. If a patentholder monopolizes a market solely through its innovation, and nothing else, the monopoly is legal. But no one is suggesting that monopolization through innovation should trigger antitrust liability. Rather, it is a patentholder’s deception and/or breach of relied-upon commitments that leads to antitrust scrutiny, because neither of these bad acts represents competition on the merits.159 Delrahim asserts that acquiring market power “as a result of a patent holder’s so-called ‘deception’ about its licensing obligations . . . is not the sort of market-power-enhancing conduct that Section 2 should reach because a cause of action for treble damages would impede the policies underlying the Sherman Act.”160 Delrahim never really explains why monopolization-through-deception is not conduct that violates Section 2. Instead, he expresses concern that patentholders may be liable for treble damages.161 But treble damages are easy to avoid: if the monopolist patentholder does not engage in deception and honors its FRAND commitments, then it will not be on the hook for any damages. In a similar vein, Delrahim notes that “the Supreme Court has cautioned against antitrust standards that would create an unacceptable risk of ‘false positives’ or condemnations of lawful pro-competitive conduct.”162 Invoking that concern, Delrahim asserts that holding innovators liable for their misconduct could deter innovation.163 That is absurd. Liability for misconduct deters misconduct. It does not deter any lawful behavior that is not the basis for liability in the first place. Delrahim offers no explanation for why holding patentees liable for breaking their FRAND commitments after having deceived an SSO into incorporating their patented invention into a standard would be likely to produce “false positives” against patentholders who have not engaged in such behavior.164

Delrahim consistently fails to appreciate how easy it is for an SEP owner to avoid antitrust liability: license the patent on FRAND terms. If there is a dispute about what constitutes a FRAND royalty, the patentholder can go to court and get a ruling on the FRAND rate, instead of suing for an injunction and threatening to drive a manufacturer from the market. Seeking and following judicial guidance on the FRAND rate immunizes the SEP owner against both antitrust liability and a breach of contract lawsuit. Some of Delrahim’s innovation arguments read like a defense of patent holdup writ large. For example, he asserts, “An antitrust duty to license on FRAND terms would also contravene the patent laws’ policy of promoting innovation by offering incentives for holders of valid patents to seek the greatest rewards possible for their inventions.”165 Taken at face value, this approach would eliminate antitrust liability for any patentholders’ anticompetitive conduct (tying, sham litigation, etc.) because such liability would reduce the maximum possible return they could earn on their patent.166 Delrahim’s statement ignores the fact that the patentholder acquired its monopoly power by legally promising not “to seek the greatest rewards possible for [its] invention[].”167

Furthermore, Delrahim is wrong to assert that antitrust liability for willful misconduct weakens incentives for innovation. The patentee is receiving just compensation under the FRAND regime.168 By bargaining to have its patent included in the industry standard, the SEP owner is locking in a steady stream of profits. Delrahim provides no evidence that these FRAND royalties are insufficient to reward and encourage innovation. And, in any event, the patentholder chose to pursue FRAND royalties rather than maintaining its patent outside the standard and retaining the right to set its own royalty rate for its patented technology. To make his innovation-based arguments, Delrahim describes a binary world in which firms are either innovators or implementers, and the “dueling interests of innovators and implementers always are in tension.”169 If this were a tug-of-war match, Delrahim would be loudly rooting for the innovators. Delrahim does not merely champion innovators; he affirmatively disparages implementers and the work of standard-setting organ

izations, which he accuses of having been “given too little scrutiny when they have acted as a forum to slow down, rather than to facilitate, the adoption of disruptive innovations.”170

The development of advanced technological goods, however, is not a zero-sum game in which one team wins and the other team loses. Delrahim’s description of the relationship between innovators and implementers is deeply flawed because no clear line separates these groups. In response to his first deception-forgiving speech, a group of leaders in the high-tech industry wrote to Delrahim, “We are not mere implementers of standards. Rather, we contribute technologies to standards and drive research, development, investment and innovation throughout the value chain.”171 Signatories to the letter included Apple, Audi, Cisco Systems, Dell, Hewlett Packard, Intel, Microsoft, and Samsung—all major players in the innovation game. In short, Delrahim is wrong to suggest that implementers are not innovators and that recognizing their legal rights would somehow hurt innovation.172

Moreover, Delrahim ignores an entire class of (undisputed) innovators—those inventors who own patented technology that was not included in the adopted standard. Unchosen standards are often rife with innovations. When a patent owner engages in deception to secure a particular standard, the innovators who own patents that would have been SEPs for an alternative standard that was not selected due to another patentee’s deceptive conduct suffer a loss of revenue that could constitute a form of antitrust injury.

Not only is Delrahim’s innovation analysis incorrect, it is counterproductive to its stated goals. The industry letter in response to Delrahim’s first speech explained that the Trump appointee’s approach would “instead threaten US industry and consumer interests, harm US innovation, and interfere with parties’ right to contract.”173 The Department of Justice used to recognize this, noting in its prior joint statement with the PTO that “F/RAND commitments may also contribute to increased follow-on innovation by allowing nondiscriminatory access to networks both to new entrants and to established market participants to introduce new generations of network-operable devices.”174 Patent holdup harms innovation by discouraging firms from participating in SSOs because “[w]here the danger of abuse undermines the collaborative process by threatening to extract supracompetitive prices from competitors, industry members are less likely to participate in SSOs in the future and, as a result, consumers are less likely to benefit from these organizations.”175 Douglas Melamed and Carl Shapiro have explained that “supracompetitive pricing by SEP holders increases the cost of follow-on inventions that build on or improve the technologies claimed by the SEPs. This cost acts as a tax on follow-on innovation, reducing such innovations and impairing the very process of invention that the patent laws are intended to promote.”176 Moreover, because Delrahim looks at the issue only through the eyes of the SEP owner that seeks to evade its FRAND obligation, he overlooks the fact that by delaying the implementation of the standard, the holdout who commits holdup hurts all the other innovators who have SEPs.177 Ultimately, because SSOs facilitate and reward innovation and because patent holdup can chill industry members from participating in the standard-setting process, the failure to deter and remedy patent holdup harms innovation.178 Former FTC Commissioner Terrell McSweeny explained that “[b]y protecting the integrity of the standard-setting process itself, sound antitrust enforcement actually strengthens market opportunities for new technologies, thus improving the incentive for valuable innovation.”179 Thus, while Delrahim is right to praise innovation, he is wrong to argue that permitting deception and FRAND violations is the correct way to encourage innovation.

### T-Prohibit = ban

#### We meet---Antitrust prohibitions can include exemptions.

Frederick 89 (Donald A. Frederick-Attorney-Adviser. “MANAGING COOPERATIVE ANTITRUST RISK” , United States Department of Agriculture, Agricultural Cooperative Service, Cooperative Information Report 38, <https://www.rd.usda.gov/files/cir38.pdf>, 1989, date accessed 9/5/21)

This exposes farmers to considerable antitrust risk unless their joint marketing activity is conducted in a manner exempt from antitrust prohibitions. As one judge phrased it:

“It is clear that if individual agriculturalists, through the medium of a cooperative, jointly fixed prices, reasonably or otherwise, without statutory authorization, they would be subject to prosecution.” (emphasis added) 14/

#### Counter-interp---prohibit can mean ‘severely hinder’---doesn’t necessitate a ban.

Washington Court of Appeals 19 (KORSMO-judge. Opinion in State v. Kimball, No. 35441-5-III (Wash. Ct. App. Apr. 2, 2019). Google scholar caselaw. Date accessed 7/13/21).

His argument runs counter to the meaning of the word "prohibit." It means "1. To forbid by law. 2. To prevent, preclude, or severely hinder." BLACK'S LAW DICTIONARY 1405 (10th ed. 2014). As "severely hinder" suggests, a "prohibition" need not be an all or nothing proposition.

Our court reached that same conclusion, rejecting a similar argument, in Dejarlais. There the court stated, "nothing in the statute prevents drafting a protection order which allows some contact, for instance, by telephone or through a third party. There is no requirement that all contact be prohibited." State v. Dejarlais, 136 Wn.2d 939, 945, 969 P.2d 90 (1998).

RCW 26.50.110 does not apply only to orders that prohibit all contact. Accordingly, the statute was properly applied to Mr. Kimball's behavior.

### Devolution CP

#### Extraterritoriality deficit---SSO’s are multinational private ventures with representatives from a litany of different countries---specifically, the 3GPP connects global standards bodies in the development of 5G.

Coopersmith 21, \*Jonathan Coopersmith is a Professor at Texas A&M University, where he teaches the history of technology; (March 31st, 2021, “[Let’s Thwart This Terrible Idea for Standards Setting”, https://spectrum.ieee.org/lets-thwart-this-terrible-idea-for-standards-setting)](Let’s%20Thwart%20This%20Terrible%20Idea%20for%20Standards%20Setting)

Technical standards hold the global economy together. They specify the characteristics or performance requirements of countless aspects of your world, and you’re completely oblivious to most of them. The code that converts your finger’s pressure on a keyboard key into a symbol on your computer screen? That’s the [ISO/IEC 646](https://www.iso.org/standard/4777.html) family of standards.  And that television in your media room? It was transported across the sea in a shipping container, whose [corners interlocked](https://backspace00.wordpress.com/tag/iso-14961/) with those of adjacent containers in accordance with ISO standard 1496. You get the idea. Non-governmental technical committees, thousands of which are active at any time, create most of these standards. Their members are typically engineers and other experts representing the companies, universities, and other entities worldwide that are the main producers or purchasers of the object or the process being standardized. Most of the technical committees also have experts who explicitly represent the larger public interest. These are often engineers who volunteer their time and pay their own expenses.

Standard-setting organizations (SSOs) and networks of SSOs organize these technical committees. The largest such network is the [International Organization for Standardization](https://www.iso.org/home.html) (ISO, founded in 1946) and its partner, the [International Electrotechnical Commission](https://www.iec.ch/homepage) (IEC, founded in London in 1906). Their members are national-level standard-setting bodies that exist in almost every country. Those bodies, in turn, have members from engineering societies (including the [IEEE](https://www.ieee.org/)), from trade associations in different industries, and from such other organizations as testing laboratories, companies, non-profits, and government agencies.  In parallel with all of this conventional standards activity, at any given moment there are hundreds of corporate consortia creating anticipatory standards in new fields in which technologies are not yet stabilized.

The 1906 London meeting establishing the IEC adopted a brilliant precept. It mandated that national delegations to the new international body should represent not governments but private or non-profit standards bodies. These delegations would consist of people representing manufacturers, purchasers, and independent engineers charged with representing the larger public interest. An exception was made for countries where the electrotechnical industry was so new that no private organization existed. During the Soviet era, the IEC and ISO allowed a second exception for countries with centrally planned economies.

Over the past century, an ecology of technical committees, institutions, and their international community of engineers has grown and evolved stupendously but has nevertheless remained a largely private, non-governmental endeavor. The participating organizations typically cooperate with governments and include representatives of government organizations (often in their role as major purchasers), but they are in no way appendages of a national government.  Of course, the evolution of the standards ecosystem reflects the spread and development of technologies. Outside the ISO/IEC network, global organizations produce standards for the internet (IETF, the [Internet Engineering Task Force](https://www.ietf.org/) -1986), the web (W3C, the [World Wide Web Consortium](https://www.w3.org/) – 1994), and mobile broadband standards ([3rd Generation Partnership Project](https://www.3gpp.org/), 3GPP – 1998).  The 3GPP is an association of the Chinese, European, Indian, Japanese, Korean, and U.S. telecommunications-industry associations.

#### Mitigating holdup among 3GPP players is key---it threatens worldwide application of 5G to other technologies.

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The 3rd Generation Partnership Project is the SSO that has developed numerous communications standards including Global System for Mobile (GSM), Universal Mobile Telecommunications System (UMTS), 4G-LTE, and now 5G. 3GPP technical specifications are defined with input from its members, which, for 5G, includes hundreds of leading technology companies representing various industries. Among other things, 3GPP's 5G specifications define the system's overall architecture, security, and capabilities.

With the integration of mobile communications in atypical industries, such as automotive and aviation, a surge of new members have joined 3GPP. Of course, 5G will not operate in a vacuum and other standards, such as other communications protocols, signal protocols, encoding and decoding methods, will play an important role in the exemplary use cases discussed above. And each SSO's rules, policies, and procedures will impact the potential implementation of these technologies, as well as frame future issues regarding licensing and enforcement.

Lessons Learned from 4G Licensing and Litigation

The wide applicability of 5G is expected to produce a complicated licensing and litigation landscape. There are, however, several lessons that can be learned from a review of past licensing and litigation activities of earlier cellular standards—4G in particular.

Historically, 1G/2G/3G licenses were typically negotiated between telecommunications companies that developed wireless technology and produced cellular products, such that both had SEP portfolios and product lines that practiced those SEPs. As direct competitors (or as customers/suppliers), these telecommunications companies were often able to simplify negotiations by cross-licensing their patent portfolios, sometimes on a royalty-free basis, or by including a smaller balancing payment to one party.

With the transition to mobile broadband communication of 4G LTE, however, non-telecommunications companies began integrating cellular technology into a wide range of IoT products, causing them to become licensing targets for SEP holders. The cellular industry's traditional licensing model did not work well in this situation. First, these companies were mis-aligned, in that they did not have similar SEP portfolios and corresponding product lines.

Consider, for example, a historical telecommunications company with a large, established cellular SEP portfolio that is attempting to license an appliance manufacturer selling a very successful IoT-enabled refrigerator that does not have its own cellular SEP portfolio. Here, the traditional approach of cross-licensing with a balancing payment will not work, as the payment from the appliance manufacturer to the cellular SEP holder may be viewed as being too significant. And the conventional method of valuing the cellular SEPs in the context of, for example, an end-product like a smartphone, may be inapplicable (or at least a less-ideal match) to the value provided to a product like a refrigerator whose primary function of cooling food is unrelated to cellular technology.

Many cellular SEP portfolios, moreover, had been licensed as a percentage of the end-product price. This made sense, as most cellular devices were devices dedicated to cellular communication, so the value to that device was easier to isolate and quantify. But when considering the value cellular technology might provide for a refrigerator, the historical calculus is less applicable, and could produce an inaccurate measure of those SEP's value to that new type of end product. This was an issue faced in 4G licensing and, with an even greater variety of 5G-enabled devices, that problem will likely grow in 5G licensing as well.

Further complicating modern cellular licensing is the fact that cellular components have become commoditized and are often nested into other increasingly complicated, multifunctional devices. One ongoing case, Continental Automotive v. Avanci (Case No. 5:19-cv-02520), pending in the Northern District of California, exemplifies how parties have struggled with the challenges inherent in valuing SEPs in modern, complex devices. This case involves licensing discussions surrounding communications SEPs between a patent pool administrator (Avanci) and car manufacturers. The automobiles at issue included telematics control units (TCUs) that act as the car's “black box” and report collision and other data to remote servers using an onboard network access device (NAD) that itself includes an integrated baseband chip.

Rather than license the portfolio to the manufacturers of the integrated baseband chip (which provides the communication functionality arguably covered by the patents), or the NADs (which include the baseband chip), or the TCUs (which include the NAD), Avanci allegedly has chosen to license only end-product manufacturers (i.e., the automobile manufacturer, whose device is the one that benefits from all these embedded systems). When Avanci's demanded royalty is applied to the total cost of the automobile, it appears small. But when compared to the price of the baseband chip, it is roughly two- thirds the cost of the chip. As 5G expands further into new markets, this type of valuation challenge is likely to persist and will underscore the need for comprehensive and effective indemnification provisions.

So, how does an implementer considering incorporating 5G technology into a new device learn from these past challenges? Perhaps most importantly, an implementer needs to consider the value proposition of 5G for this new device. Specifically, how does adding 5G functionality add value to the product? And is this a product that will require 5G in all modes of operation, or will this be more of an add-on benefit that only some customers would be interested in using? The answer to questions like these will help an implementer determine how best to design their product (and how best to prepare for incoming licensing demands).

Depending on the specific end-product, certain strategies may be employed to minimize the costs of implementing certain standards. For example, while avoiding cellular communications standards would be impossible in developing a mobile phone, there are design options an implementer should consider when developing a 5G-enabled IoT product. For example, consider a consumer product company producing a hobbyist drone that is designed to use 5G. If certain aspects of 5G, like machine-to-machine communication capabilities for collision avoidance, will not be required for certain users, the manufacturer may have the option of setting certain hardware or software switches to enable/disable the offending feature.

Or, they may be able to design their product such that the 5G functionality can be added by installing a 5G module, or by requiring the user to download certain software necessary for use. Switches, add-ons, and downloads of this nature may be able to reduce the number of potentially infringing devices sold, such that any royalty paid can be more closely tied to the select customers who choose to pay for the feature (and would actually benefit from its inclusion in the device at issue).

This type of “activation” system, or one in which functionality is added in a modular manner, provides protection against a potential injunction, as an adjudicated infringer would have the option of simply disabling or removing the feature, rather than pulling the products from the market. Traditionally, at least within the U.S., the risk of an injunction by an SEP owner was viewed to be quite low, as injunctions were not believed to be in the public interest, at least by the U.S. Department of Justice and Federal Trade Commission.

But some observers noted this policy upset the delicate balance between implementers and innovators in terms of SEP enforcement. Specifically, without the ability to seek an injunction, those implementing the standards could potentially “hold-out” during negotiations, because courts could, at most, impose the very same FRAND rates that the implementer could obtain through negotiation. Addressing these tactics, the DOJ recently withdrew from its prior approach, signaling greater freedom for courts to impose injunctions against SEP infringers in appropriate circumstances. It will remain to be seen how the DOJ ultimately expresses its new policy, and if others follow the DOJ in making injunctions more available (as they have been in other countries).

As 5G expansion continues, SEP holders should be mindful of potentially negative consequences, including the emergence of “hold up,” in which the threat of excluding a product from market is used to extract an above-FRAND royalty. Time will tell whether equipping SEP holders with injunctive remedies will bring potential 5G licensees to the table, or whether it will deter them from using 5G entirely.

#### No civil war.

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Rather, civil wars happen where the state is weak. Lower levels of wealth predict civil war, because poor countries lack the law enforcement and military capability to put down armed rebellions. That helps to explain recent conflicts in such varied countries as Yemen and Congo. Power vacuums, as occurred during and after decolonization, after American regime-change wars and after the collapse of the Soviet Union, create uncertainty about who is in charge and can inspire those who seek power to take up arms. There are other factors, too: States that are rich in oil see more civil war because the potential payoffs of a successful rebellion are higher — but this applies only up to a certain level of income, after which point the government is often able to buy off or destroy any potential challengers.

The Balkans offer a ready example of how grievance based on ethnic tension must be intertwined with the collapse of order for groups to take up arms against one another. While various ethnolinguistic communities there long eyed each other with suspicion, going back to the days of the Ottoman and Austro-Hungarian empires, those tensions did not lead to violence for most of the region’s history, including during the nearly half-century of communist rule. But when the Soviet empire fell and communist governments were discredited, parts of Yugoslavia began to declare independence. Serbs, Bosnians, Croats and Albanians, incited by political opportunists and demagogues, fought wars against one another for a decade, drawing in the international community, until sovereign states emerged with new, widely accepted borders.

In one influential 2006 study representative of the new school of thought — one that examined 172 countries from 1945 to 2000 — the political scientists Havard Hegre, of the Center for the Study of Civil War, and Nicholas Sambanis, of Yale University, used advanced statistical tools to determine which of 88 factors most consistently predicted civil war. Grievance-based measures like authoritarian government and ethnolinguistic diversity ranked low or had no discernible effect (although the latter did predict internal conflict when the analysis included the lowest level of conflict measured, defined as 25 or more deaths in a year). In contrast, Hegre and Sambanis found that measures of opportunity like a small military establishment and rough terrain — which offers a base from which rebels can strike — had a much stronger and more consistent effect.

Geography is a surprisingly potent variable in predicting civil war — and can confound even moderately strong states. During such conflicts, governments usually control the cities, and rebels form bases in relatively inaccessible regions like mountains, forests and swamps. Countries that have had problems with mountain-based minorities include Russia, which has confronted rebels in Chechnya, and Turkey, which is still fighting Kurds in the southeast of the country. (Until the 1990s, the Turkish government even referred to Kurds as “Mountain Turks,” denying their identity while acknowledging the geographical nature of the problem.)

Even with the most difficult geographic conditions, however, wealth and government power tend to erase opportunities for rebellion. Consider that in 1948 and 1949, South Korea faced a communist-led uprising on Jeju Island — which lies in the Korea Strait, about 60 miles from the mainland — in a conflict that cost as many as 30,000 lives, mostly civilian. A poor, newly independent South Korea had difficulty bringing that island under control and relied on brutal tactics to do so, including summary executions. But now that South Korea has joined the club of modern, industrialized states with advanced militaries, the idea of a region like Jeju rebelling has become unthinkable.

Wealth and military power explain why, in the United States, civil war is likely to remain a metaphor. Its per capita gross domestic product is about $62,000 a year, among the highest in the world, and its military is clearly capable of wiping out any challenges to state power. (The U.S. Civil War occurred when the nation had a per capita GDP comparable to that of a developing nation today, and when military technology was limited to rifles and cannon.) The Pentagon has 1.3 million active-duty personnel, can find terrorists on the other side of the world and wipe them out with the push of a button, and boasts a command-and-control structure with no recent history of factionalization. There is no swamp or mountain peak that is beyond the easy reach of the U.S. military.

A recent survey by Nationscape revealed that 36 percent of Republicans and 33 percent of Democrats thought that violence was at least somewhat justified to accomplish political goals. The opportunity model suggests that while a survey result like this reveals disturbing things about our political culture, it does not presage civil war.

To be sure, riots and general discord can happen as lon

g as leaders lack the political will to respond (or if, as today, leaders disagree about the line dividing peaceful protest from lawlessness). But as soon as the authorities perceive a serious enough problem, they can move quickly and decisively, a lesson learned by the anarchists who recently took over part of Seattle, declaring it the Capitol Hill Autonomous Zone. They were tolerated for just over three weeks until they were cleared out by local police in partnership with the FBI. Law enforcement at the local and national levels, from police to the military, remains united and under civilian control, willing and able to put down potential threats to our governing system or territorial integrity.

The wide availability of guns does make the American situation unique among developed countries — and leads to more horrific low-level violence, such as the 2019 El Paso shooting, in which a White racist angry about immigration is accused of targeting innocent Hispanics, killing 23 people. (He had apparently sought, but failed, to provoke a larger conflict.) But that is not civil war — and using such hyperbolic language may actually lead to more violence, as radicals come to believe that true civil war is possible and undertake copycat attacks.

In fact, the situation in Michigan suggests how intoxicating the idea of civil war can be. Had the recently arrested anti-government extremists not been under close federal surveillance — itself a reassuring sign of state capacity — they might have committed hideous political violence. Yet their goal of inciting civil war would have remained out of reach.

Those predicting civil war have correctly identified serious problems in American society: Ever-widening divisions based on factors including race, geography and partisanship make it difficult to respond to such varied threats as pandemics, economic crises and climate change.

But our problem remains bitter polarization and distrust, not the literal disintegration of the country. The United States faces monumental challenges in the coming months and years, from a rancorous election (and its aftershocks) to difficult racial issues to continuing environmental calamity. Extreme partisanship and political discord will absolutely make everything harder. But the sooner we realize that civil war is highly unlikely, the sooner we can focus on real problems.

### Contract Law CP

#### FRAND commitments aren’t considered contracts, so they can’t be enforced.

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Nevertheless, as I discuss in [a forthcoming article](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2309023), common law contract is a poor fit for the enforcement of most FRAND commitments, and relying too heavily on it is likely to have unwelcome results.  Contract law fails as a general-purpose FRAND enforcement theory on several grounds.  First, the simplified offer-acceptance-consideration model laid out above does not reflect the actual manner in which most FRAND commitments are made.  Most of these commitments are not set forth in an agreement between the patent holder and the SDO.  Rather, they are contained in SDO policies, bylaws and other types of statements.  In addition, many of these policies (including those adopted by leading SDOs such as IEEE) do not actually require the patent holder to commit to license its patents on FRAND terms, but only to disclose to the SDO the terms on which it will, or on which it intends to, license its essential patents.  Moreover, FRAND commitments are typically a sentence or two in length, and fail to set forth any of the relevant details of the promised license agreement, whether they be royalty rates, grant-back requirements, terms on which the license may be suspended or terminated, and the like.  As such, whatever “contract” is formed is likely void for want of detail, a mere “agreement to agree”.  Finally, the attempt to extend third party beneficiary rights to every product vendor in the world, whether or not it competed in the relevant business, or even existed, when the promise was made, stretches this venerable doctrine beyond any sensible boundaries.  As a result, except perhaps in a few cases in which standards are developed by small groups of firms that have actual contractual arrangements amongst themselves, common law contract is a poor choice as a general enforcement mechanism for FRAND commitments.

At least one Administrative Law Judge at the International Trade Commission has recently come to the same conclusion in the ITC’s case against Interdigital (337-TA-868, June 18, 2014), expressly ruling that the FRAND policy adopted by the European telecom SDO ETSI “is not a contract”, and merely “contains rules to guide the parties in their interactions with the organization, other members and third parties.”  I couldn’t agree more.

#### Contract law bars consumers from remedying anticompetitive holdup and implementers don’t have incentives to recover via contract.

Cary et al. 11, \*Messrs. George Cary and Alex Sistla are members of the California and District of Columbia Bars. Mr. Mark Nelson is a member of the New York and District of Columbia Bars. Mr. Steven Kaiser is a member of the New Jersey and District of Columbia Bars; (2011, “THE CASE FOR ANTITRUST LAW TO POLICE THE PATENT HOLDUP PROBLEM INSTANDARD SETTING”, <https://www.clearygottlieb.com/~/media/organize-archive/cgsh/files/publication-pdfs/the-case-for-antitrust-law-to-police-the-patent-holdup-problem-in-the-standard-setting.pdf>)

2. Contract Law

The argument that antitrust should step aside because contract law “out-perform[s] antitrust when it comes to the successful identification and regulation of ex post opportunism associated with patent hold-up”127 fails for much the same reasons. A contract can only be enforced by its parties and by other to whom the parties clearly and explicitly intended to give enforcement rights.128 The victims of anticompetitive patent holdup, however, are also consumers and potential competitors who may not have been part of the SSO. Moreover, contracts can be modified and third parties generally have no enforcement rights as to the original contract. In implementing an industry-wide standard, the parties to the contract may actually prefer high royalty levels that hurt consumers. For example, if participants in the standard-setting process, who agreed collectively to support one technology over all others, mutually agree to license on FRAND terms but then, after the standard is adopted, each independently chooses to increase its royalty significantly, no party to the FRAND “contract” may have incentive to bring a breach of contract action, while implementers of the standard and users of standard-compliant products ultimately pay the bill. Antitrust should be available in such circumstances as a remedy for the parties harmed by the anticompetitive agreement.

Once again, the rationale in support of contract law seems to be that anti-trust cases often lead to the condemnation of conduct that is not anticompetitive (or at least to the deterrence of conduct that is procompetitive).129 The claim is that, because the promise to disclose relevant patents and the promise to license on FRAND terms are, at core, promises, and because antitrust cases sometimes result in false positives, it is safer to stick with contract law to the exclusion of antitrust.130 Although we are sure plaintiffs with standing to enforce the contract may often limit themselves to that (why bother to take on the extra elements of an antitrust claim if an available contract claim is easier?), these concerns simply have not been observed in practice.

To be sure, the FTC’s action against Negotiated Data Solutions LLC (N-Data) may raise similar concerns. The FTC concluded that N-Data violated Section 5 of the FTC Act when it repudiated the commitment made by the original patent owner to license technology relating to the Ethernet standard for local area networks for a one-time fee of $1,000—a commitment that was made in order to get its technology into the standard.131 The FTC found that N-Data’s conduct violated Section 5 because it sought to extract licensing fees from standard adopters who lacked any practical alternative to using the patented technology N-Data had acquired.132 The FTC observed that a patentee does not violate Section 5 whenever it breaches an existing licensing agree-ment.133 Rather, it was critical to the legal analysis that N-Data sought to breach a commitment that was made in the standard-setting context.134

The concern with N-Data is that it does not appear to have any limiting principles (other than the supposed breach of a licensing promise made in the standard-setting context). To some, it suggests that the FTC “might be more than willing to apply a monopolization theory under Section 2 in a case with similar facts . . . involving only the renegotiation of ex-ante FRAND commitments made in good faith.”135 They worry that the decision appears to be “federalizing contract law.”136 Those may be valid concerns, but they do not say anything about the proper role of antitrust in policing anticompetitive conduct in standard setting. Indeed, the fact that the FTC did not bring a claim under Section 2 suggests, at least by negative implication, that a simple breach does not give rise to a Section 2 claim and that the FTC does not contend otherwise.

As Cotter has explained, N-Data does not speak to “the negative consequences of deploying antitrust to address deception-based holdup.”137 “Assuming that a court can reliably determine when deceptive conduct has occurred,” he notes, “the only patent owners who would be liable for patent ambush would be those who engaged in deceptive conduct that, presumably, lacks a procompetitive justification.”138 And thus, even “some small risk of overdeterrence might be justified in light of the potential gain . . . [and] the likely harm to the patent incentive scheme seems remote.”139

On the other hand, it is fair to ask why antitrust law should not reach opportunism, whether it was the patent holder’s intent all along or whether it occurred to the patent holder only after the standard was adopted. The modern trend in antitrust jurisprudence is to evaluate effects rather than intent.140 The potential anticompetitive consequences of raising royalty rates to monopoly levels after entrenchment of a standard is the same whether the patent owner intended to do so when making his FRAND commitment or whether it only occurred to the owner of the patent afterward. The difficulty in attacking such conduct under Section 2 is that the monopoly position was acquired legally, giving rise to a defense under NYNEX. The counterargument would be that avoiding the FRAND constraint is the conduct giving rise to monopoly power, and should be actionable monopolization. Such an argument would seem more availing under the EU’s abuse of dominance standard, violation of which does not depend upon how the dominant position was achieved.141

### FTC DA

#### FTC is excessively devoting resources to enforcing patent holdup now.

Morris 9/17/21, \*Angela Morris, Deputy editor at IAM Media; (September 17th, 2021, “The FTC creates a potential new US headache for SEP owners”, https://www.iam-media.com/frandseps/the-ftc-creates-potential-new-us-headache-sep-owners)

SEP owners that may already be wary of potential Biden Administration regulatory changes now have a new threat to keep them up at night.

Over the summer the Federal Trade Commission [announced an expanded view](https://www.jdsupra.com/legalnews/the-ftc-expands-section-5-enforcement-7020931/) of its standalone enforcement authority to curb anti-competitive misconduct; and [now the agency has made it clear](https://www.ftc.gov/news-events/press-releases/2021/09/ftc-streamlines-investigations-in-eight-enforcement-areas) that priority targets include “abuse of intellectual property” and “monopolistic practices”.

The agency’s description of the “anticompetitive and deceptive conduct” it seeks to curtail in the technology sector most likely will encompass alleged misconduct by standards essential patent (SEP) owners and their commitments to licensing on FRAND terms, according to IP and antitrust attorney Tim Syrett.

“The FTC has previously conducted two investigations where it found that SEP holders seeking injunctions against licensees was anti-competitive and presented a threat to innovation,” Syrett, who is a partner in Wilmer Hale in Washington DC, explains via email. “That may be an area where the FTC wants to continue to devote resources and is certainly an area where there can be harm to competition because of the hold-up power of SEPs.”

He adds that investment-backed patent assertion entities and patent aggregation organisations may also have reason to fear ITC investigations.

“Investment-backed patent assertion entities can obscure information about who actually owns or has an interest in patents that can harm both licensing and litigation,” says Syrett. “Further, we have seen a concerning rise of patent assertions where the incentives of investors to obtain outsized returns from patents trump any reasonable valuation of the patents’ worth, which can harm competition in the licensing of patents.”

IP owners in the pharmaceutical, technology and gasoline refining industries should also take note of the development, since the commission indicated that it would investigate potential abuses of IP rights that create anti-competitive and deceptive conduct in those spaces.

Big Tech companies and other large businesses would be advised to pay attention as well, given that another stated FTC aim is to target alleged abuses of their market power that stop entrepreneurs from competing.

The two resolutions were among a group of eight that a divided commission passed this month on a 3-2 vote, as the agency seeks to handle increased workload from high merger filings. Both resolutions, effective for 10 years, direct the agency to use its compulsory processes to obtain documents and testimony through either demands or subpoenas to investigate allegations that would be a violation of Section 5 of the FTC Act.

#### Private Action turn---the plan buttresses private enforcement to remedy SSO patent holdup---that zeroes the link.

Speegle 12, \*Adam Speegle, J.D., (May 2012, “Antitrust Rulemaking as a Solution to Abuse on the Standard-Setting Process Setting Process”, <https://repository.law.umich.edu/cgi/viewcontent.cgi?article=1128&context=mlr>)

* Plan is not FTC activism
* Requiring SSO’s to administer rules lets the private sector self-manage
* No new staff/resources required
* No FTC monitoring required
* If the FTC does have to do anything, number of cases will be limited due to deterrence, which solves an excessive workload

This too is not fatal to the approach. The proposed rule uses a light touch in that it only buttresses rules established by SSOs. Because the rule would support actions by the private sector to manage their own activities rather than introducing additional agency oversight, Congress would be unlikely to react the way it did when the FTC's activism in the consumer protection arena evoked fears of excessive government intervention.

One final concern with the approach is that it will demand more of the FTC in a regulatory capacity than the FTC is capable of handling. For example, under any rule where the FTC would be called upon to enforce RAND terms, the FTC might fall into the role of license-rate regulator, determining which licensing fees are reasonable and which are unreasonable. But the FTC is a relatively small institution with limited resources.1 62 Some are concerned that under such a scenario the Commission would have to bring on new staff with expertise in the technology sector to monitor the reasonableness of licensing terms arising from SSO commitments.163

This concern is unlikely to be serious under the proposed formulation. As to the problem of determining "reasonableness," the FTC has already developed expertise in this area and, in fact, recently authored a report putting forth workable solutions to the problem of calculating "reasonableness" in the context of RAND commitments. 64 Further, the FTC would not need to establish itself as a monitoring body and would not incur the related costs of increases in staff and resources. Rather, enforcement of the proposed rule would operate similarly to the FTC's enforcement of its consumer protection rules. Under that regime, companies and individuals report fraudulent activity that violates one of the FTC's rules, which the Commission then investigates and, at its discretion, prosecutes. 16 Because the burden would be on the private sector to report in such a regime, the FTC would not need to monitor SSO activity. And as with consumer protection enforcement, a small number of decisive enforcement actions against abusive firms should act as a deterrent sufficient to decrease the FTC's litigation workload. 166 Thus, despite some legitimate concerns with the approach of enforcement by rule, those concerns are not fatal to the strategy. Moreover, the next Section demonstrates that there are also general benefits to enforcement by rule that weigh in favor of the approach.

#### Private enforcement supplants limited FTC resources.

Lacour 08, \*Justin Lacour, J.D. Candidate, June 2009, St. John's University School of Law; M.F.A., 2004,  
University of Massachusetts; B.A., 2001, University of Houston; (Summer 2008, “Unclear Repugnancy: Antitrust Immunity in Securities Markets After Credit Suisse Securities (USA) LLC v. Billing After Credit Suisse Securities (USA) LLC v. Billing”, <https://scholarship.law.stjohns.edu/cgi/viewcontent.cgi?article=1084&context=lawreview>)

This loss is of no small significance. The Supreme Court has recognized that Congress created treble damages remedies for antitrust violations to encourage private antitrust suits, since these private suits provide significant supplement to the limited resources available to government agencies for enforcing the antitrust laws. 248 The availability of treble damages encourages private antitrust litigants to act as "'private attorneys general'" by bringing actions against anticompetitive behavior that might otherwise escape the antitrust enforcement efforts of government agencies. 249 The supervision provided by a regulatory agency cannot control all of the activities of a regulated firm, and budgetary constraints may limit its effectiveness. 2

50 It is unlikely that the "overworked and understaffed" SEC would be able to prevent all antitrust violations within the securities markets. 25 1 In much recent securities law jurisprudence, courts have often chosen to defer to the SEC when possible, thus subjecting cases to "minimal judicial review." 252 Such deference to an agency, however, is only appropriate when the agency has superior resources or experience-otherwise, a court is the better vehicle for adjudication. 253 Furthermore, while a regulatory agency may be able to provide the equivalent of injunctive relief to aggrieved parties, the agency cannot provide private damages, and certainly not treble damages. 254 Thus, the "flexible arsenal of antitrust remedies"-injunction, private damages, and criminal sanctions-would be lost, replaced by cease and desist orders, rules, and fines, which do not benefit the aggrieved party. 255

#### Deterrence turn---the prospect of antitrust intervention deters violations.

Cheng 13, \*Thomas Cheng, B.A. (Yale), J.D. (Harvard), B.C.L. (Oxon); Attorney & Counsellor, New York State; Associate Professor, Faculty of Law, The University of Hong Kong; (2013, “Putting Innovation Incentives Back in the Patent-Antitrust Interface”, <https://scholarlycommons.law.northwestern.edu/cgi/viewcontent.cgi?article=1195&context=njtip>), ability edited

Imposing a duty to license on opportunistic patentees may solve this problem. If these patentees know that the courts may step in and mandate licensing at a reasonable royalty rate,214 they will be induced to enter into negotiations with follow-on innovators in good faith.215 The threat of compulsory licensing may become a default background legal rule against which negotiations between initial and follow-on innovators take place. The instances in which the courts need to intervene could be few.

### BBB DA

#### Political capital low now

Baker 1-17-2022 (Gerard, “Biden Goes for Broke. He’s Broke. Now What?,” Wall Street Journal, <https://www.wsj.com/articles/biden-goes-for-broke-filibuster-kyrsten-sinema-joe-manchin-stacey-abrams-bbb-voting-rights-bills-11642432437>)

lèse-majesté = the insulting of a ruler

‘Just colossally disrespectful” was how someone described as a “longtime Biden advisor” characterized for a Daily Beast reporter the behavior of Sen. Kyrsten Sinema last week. The Arizona Democrat had told the Senate she wouldn’t support a proposal to suspend the filibuster, thereby dealing the long-expected fatal blow to President Biden’s legislative ambitions.

The adviser was presumably articulating a widespread frustration in the president’s ranks after Ms. Sinema declined even to hear any more pleas from Mr. Biden before jilting him. But think about that outburst for a moment and consider what it says about the standing and authority of the 46th president as we mark the end of his first year in office.

Has there ever been a figure a year into his term reduced to such impotence that his aides are impelled to whine to friendly media about the “disrespect” shown him by a first-term senator? Can you imagine Lyndon Johnson’s acolytes doing that for him? Ronald Reagan’s ?

But such lèse-majesté is routine now in Democratic ranks. In the past month the president has been spurned by Ms. Sinema, rebuffed by Sen. Joe Manchin, and, perhaps most humiliating, snubbed by Stacey Abrams, whose principal political achievement is to have come in second in the 2018 election for Georgia governor. Ms. Abrams decided she had a “scheduling” conflict when the president was in her patch last week.

As we survey the flattened landscape of Mr. Biden’s ambitions at the one-year mark, it’s for all of us, not just frazzled White House staff to ask: What now?

The answer is obvious: He should do what he should have done a year ago. A little wisdom, some prudence and a grasp of elementary congressional arithmetic might have guided him to make genuine progress for an exhausted and fractured nation. Instead of trying to build ever more improbable progressive utopias in the clouds on the vaporous platform of a 50-50 Senate, he could have started—and could even now—start doing some of the things the American people would actually like to see him do. He could take boring, practical measures to address real challenges—getting us past the pandemic, cooling inflation, addressing crime in the cities and the crisis at the border—not the imaginary ones that fester in the revolutionary’s mind.

But it’s going to be much harder now. A year ago he had the political capital of a newly elected president with an approval rating that approached 60%. Having largely squandered that capital, what does he do to persuade vulnerable politicians in his own party—let alone anyone else—that they should support the goals of a president with 40% approval?

#### BBB is dead---the Manchin well is poisoned

Weissmanm 1-13-2022 (Jordan, “My Incredibly Dumb but Potentially Effective Plan to Save Joe Biden’s Agenda (or at Least Some of It),” Slate, https://slate.com/news-and-politics/2022/01/there-still-might-be-one-way-to-save-joe-bidens-agenda-or-at-least-some-of-it.html)

So, I have an idea to resurrect the Build Back Better Act, Joe Biden’s social spending and climate bill that, as of now, appears to be dead in the water. On the policy merits, it is objectively dumb—just completely pointless and maybe even self-defeating. But as a political compromise that might entice a certain senator from West Virginia, I think it’s just ridiculous enough to work.

It is time, perhaps, to transform BBB into a deficit reduction bill, by making sure it raises significantly more new revenue than it spends.

I’m cringing just typing those words. (Sincerely.) During the 2020 Democratic primary, I wrote at length about how the worst-case scenario in a Joe Biden presidency was that he might rediscover his old deficit hawkishness and make a premature turn toward fiscal austerity. But please consider the circumstances Democrats now find themselves in: Negotiations over BBB crashed to a halt in December, when Joe Manchin shocked his party by announcing that he was a hard no on the legislation during a Fox News interview. It was later reported that the senator had made a private, $1.8 trillion counteroffer to the administration, including hundreds of billions in spending for climate, but became enraged when the White House released a press release blaming him for the bill’s delay, despite his asking them not to.

A thin-skinned overreaction? Perhaps. But the prospects for a bill only appear to have dimmed since that pre-holiday blowup. On Saturday, the Washington Post reported that Manchin’s $1.8 trillion offer appeared to be off the table. “Privately, he has also made clear that he is not interested in approving legislation resembling Biden’s Build Back Better package and that Democrats should fundamentally rethink their approach,” the paper reported. “Senior Democrats say they do not believe Manchin would support his offer even if the White House tried adopting it in full—at least not at the moment—following the fallout in mid-December.”

#### Plan is bipartisan.

Contreras 18, \*Jorge L. Contreras teaches in the areas of intellectual property law, property law and genetics and the law at the University of Utah. He has recently been named one of the University of Utah's Presidential Scholars, and won the 2018-19 Faculty Scholarship Award from the S.J. Quinney College of Law. Professor Contreras has previously served on the law faculties of American University Washington College of Law and Washington University in St. Louis, and was a partner at the international law firm Wilmer Cutler Pickering Hale and Dorr LLP, where he practiced transactional and intellectual property law in Boston, London and Washington DC; (August 2018, “Taking it to the Limit: Shifting U.S. Antitrust Policy Toward Standards Development”, https://dc.law.utah.edu/cgi/viewcontent.cgi?article=1114&context=scholarship)

This being said, antitrust policy regarding standard-setting, and hold-up in particular, did not previously appear to run along party lines. In fact, many key DOJ position statements regarding hold-up, including those expressed in its 2006 and 2007 business review letters to VITA and IEEE, respectively, and the 2007 report on antitrust and IP that it produced jointly with the FTC, were developed during the Republican George W. Bush Administration. Each of these documents acknowledged the existence and potential anticompetitive effects of hold-up. At least in this area, the Obama DOJ did not appear to deviate significantly from the policies of prior administrations. As observed by FTC Commissioner Terrell McSweeny, the FTC and prior DOJ approach to combatting hold-up were based on “15 years of scholarship and bipartisan study” and should not lightly be discarded.37

#### Winner’s win---spending PC rebuilds it [their ev is premised on outdated political theory]

Kane 7-24-2021, The Washington Post's senior congressional correspondent and columnist (Paul, “Day-to-day, Biden’s agenda looks rocky. But congressional Democrats say things are far rosier if you take the long view.,” *Washington Post*, https://www.washingtonpost.com/powerpost/biden-agenda-democrats-congress/2021/07/24/83b776be-ebc0-11eb-ba5d-55d3b5ffcaf1\_story.html)

There is, so far at least, little fear that Democrats are spreading themselves too thin by eschewing the traditional practice of focusing on a handful of domestic policy issues in the first two years of an administration. “Political momentum and political capital is like a muscle. The more you exercise it, the more of it you have. It is not like a finite resource that you can run out of if you spend too much of it. What happens is that if we do a lot of positive things, then we’ve got more political clout to do even more positive things,” Sen. Brian Schatz (D-Hawaii) said. But there is an undercurrent of fear that Democrats lost focus on battling the pandemic and that those gains might be forgotten if current trend lines prompt new shutdowns. “We’ve done a good job over the last several months. But we’re going to have to continue to do it with aggressiveness and precision because the other side has no interest in governing and is going to spend all their time trying to mischaracterize public policy wins,” Rep. Hakeem Jeffries (D-N.Y.), who is in charge of messaging in Pelosi’s leadership team, said. Some worry that the Biden administration needs to stay focused on promoting the $1.9 trillion American Rescue Plan, fearful of mistakes similar to 12 years ago, when the Obama administration neglected to promote its roughly $800 billion economic recovery bill after it passed a month into office. “I don’t think they’ve gotten enough credit for the extraordinary logistical and managerial effort to manage the rollout of the vaccine. That was a big task. And I think it was managed effectively. And I think that’s maybe the most important thing and the least discussed,” Sen. Angus King (I-Maine) said. In late 2010, while he was still a college professor, King wrote an essay, “The Democrats Beat Themselves,” citing how poorly the Obama administration sold the economic recovery. “Basically, the President was subjected to a two-year, nonstop ‘Swift Boating’ and never really fought back,” King wrote after the 2010 political bloodbath for Democrats. So, yes, on Tuesday, federal health officials reported more than 62,000 new cases of the deadly virus as 314 Americans died of the virus. A day earlier, the stock market tumbled more than 700 points amid fears of the health crisis causing another economic shock. But exactly six months earlier — Jan. 20, the day Biden was sworn in under strict social distancing and masking guidelines outside the Capitol — there were more than 185,000 new virus cases and a rolling weekly average of almost 200,000, with 4,440 deaths caused by covid-19 that day. On Jan. 20, the Dow Jones industrial average stood at 31,188, far below the closing of 34,512 six months later. Labor Department reports this month showed strong wage growth amid steady job growth that suggests sometime next year, the economy will recover all the lost jobs from the pandemic. In June and most of July, Biden tried to move past the pandemic and focused his attention on the bipartisan infrastructure plan and the proposed $3.5 trillion budget plan that is favored by liberals. Those two packages are filled with campaign pledges to remake government support for the middle class, the most ambitious budgets since the Great Society proposals of the 1960s. Democrats will need to make Congress spend a lot more time in Washington if they want to get Biden’s agenda passed Democrats defend these proposals as worthy of the big moment the nation faces. “We are confronting a multitude of crises, including a once-in-a-century covid-19 pandemic, a democracy crisis, a racial justice crisis and a climate crisis all at the same time,” Jeffries said. Schatz views the old presidential model of focusing on a couple big things as outdated. “The model from the ’80s was if you do too many things, people are going to get freaked out. And I think the danger here is not doing enough rather than doing too much,” he said.

### Floodgates DA

#### They strawpersoned the Stern article---they cut the part that outlines the arguments made by advocates of the “flood of litigation” theory---Stern goes on to refute those arguments

**1NC Stern 03** – J.D. Candidate, 2004, University of Pennsylvania Law School; B.A., 2001, The Johns Hopkins University. (Toby J., “FEDERAL JUDGES AND FEARING THE "FLOODGATES OF LITIGATION," UPenn Journal of Law, 2004, <https://www.law.upenn.edu/journals/conlaw/articles/volume6/issue2/Stern6U.Pa.J.Const.L.377(2003).pdf)>

One of the most easily identifiable problems with the floodgates argument is that it is rarely, if ever, followed by a true analysis of the potential litigation of which it speaks. That is, one response to a floodgates argument might be, "Are you sure that a contrary position would yield a flood of litigation?" 82 This criticism is frequently leveled against the floodgates argument, especially in the realm of tort litigation. For example, as one commentator has argued: The "floodgates of litigation" argument has proven wrong time and again. The lifting of the "impact" rule in rewarding damages for mental anguish, allowing third parties to recover under contracts, and the recognition of the right to privacy, were all prophesied to overwhelm the courts with frivolous claims. **They have not**. This argument, one should think, is relatively strong. While the floodgates argument is generally based on policy considerations,8 5 policy arguments are rarely so indeterminate. While moral arguments are certainly not precise--one cannot quantify, say, "fairness" or 'justice"-they are simply used differently. That is, when a judge says that a decision "promote [s] justice,"8 6 ~~he or she~~ [they] is not speaking about a tangible, actual result. In contrast, when a judge expresses that a decision will open the floodgates of litigation, he or she [they] is saying that there will be actual, cognizable caseload results from the decision. Given how often the floodgates do not open when we are warned that they will,"' making the argument without a proper foundation is dangerous. While there certainly are situations in which a judge should consider the implications of a decision on ~~his or her~~ [their] caseload, 8 doing so without considering the factual bases of those implications is problematic.'8 9 And while uncertainty is an unavoidable part of the law,' 90 the language with which the floodgates argument is regularly employed expresses anything but conjecture and uncertainty. The arguments are forceful; they are intended to conjure "[i] mages of a destructive, elemental force."'9' After all, as Judge Posner notes, "So irregular has been the growth of the caseloads of each of the three tiers of the federal judiciary in the past, and so many and poorly understood are the causes of changes in judicial caseloads, that it is impossible to make responsible predictions about future changes.' 92 The failure of judges to recognize this limitation of the argument reduces the weight afforded thereto.

#### The conclusion of the article says fears are unfounded

**1NC Stern 03** – J.D. Candidate, 2004, University of Pennsylvania Law School; B.A., 2001, The Johns Hopkins University. (Toby J., “FEDERAL JUDGES AND FEARING THE "FLOODGATES OF LITIGATION," UPenn Journal of Law, 2004, <https://www.law.upenn.edu/journals/conlaw/articles/volume6/issue2/Stern6U.Pa.J.Const.L.377(2003).pdf)>

CONCLUSION Judge Posner undoubtedly was correct in noting that the question of whether judges should consider caseload when deciding cases is "of some moment" because of the high caseload levels in the federal courts.00 In arguing that the "floodgates of litigation" argument has few valid uses, I have not ignored the fact that the federal courts are quite busy. Nonetheless, I have tried to create a compelling case against using the fear of the floodgates of litigation in judicial opinions as a remedy for the caseload problem. The argument is too flawed to continue to be used in the judicial opinions of the federal courts. The pragmatic uncertainties and inconsistencies,3 0 0 separation of powers problems,30 ' and shaky (and in most cases, absent) statutory basiss° ' combine to outweigh any beneficial effect the argument might have. Furthermore, the floodgates argument is almost always ancillary to the central holding in a case. When judges invoke the floodgates argument and its ilk, they needlessly chip away at the reliability and strength of their other arguments. I am keenly aware that while I seek to remove one tool of judicial economy from the realm ofjudging, I offer no solution or palliative 30 3 in its stead. To offer a solution to the federal caseload problem would be beyond the scope of this Comment.304 Judge Posner discusses several in The Federal Courts-specialized courts, eliminating or limiting diversity jurisdiction, increased reliance on alternative dispute resolution, and adding more judges.00 The problem, of course, is that even Judge Posner recognizes the limitations of his palliatives, and he offers persuasive criticisms of each.00 While I am not fully persuaded by Posner's main offering, so-called "structural restraint, "3 0 7 it certainly seems to be a step in the right direction. While I agree with Posner that "we cannot predict future [caseload] growth with any confidence,"3 0 I have come to agree with Professor Keeton that "[i]t is the business of the law to remedy wrongs that deserve it, even at the expense of a 'flood of litigation.'309 Whether the caseload grows, remains level, or declines, arguments that a court is bound to rule lest the floodgates of litigation be opened should be discounted and mostly, if not entirely, abandoned.

#### SEP litigation is increasing

Love 21, \*Bruce Love, writer at the National Law Journal; (June 15th, 2021, “As DOJ Confirms a Change in Antitrust Patent   
Policy, Lawyers Prepare for Shifting Demand”, https://www.mckoolsmith.com/assets/htmldocuments/2021%2006%2016%20As%20DOJ%20Confirms%20a%20Change%20in%20Anittrust%20Patent%20Policyk%20Lawyers%20Prepare%20for%20Shifting%20Demand%20-%20The%20National%20Law%20Journal.pdf)

The Justice Department has confirmed it is looking to develop new policies surrounding how standard-essential patents might be used as tools for anticompetitive practices. The change in policy will mean big business for law firms that can combine highly technical IP advice with their antitrust and litigation practices, with one lawyer likening the demanding skill set to “three-dimensional chess.” Standard-essential patents, or SEPs, are a fundamental piece of intellectual property for business and innovation because they are used under license so frequently by manufacturing companies other than the patent owners. The policy change was hinted at during an online event in late May, when Richard Powers, the acting attorney general of DOJ’s antitrust division, gave an indication that the government might be walking back the relaxed approach implemented by the DOJ under the Trump administration. A DOJ spokesperson confirmed in an email Tuesday to Law.com that it will change its policy on SEPs and antitrust behavior, with the agency still working out the details. The new administration, said the DOJ spokesperson, is rethinking what policies at the intersection of IP and anti- trust will best serve competition and consumers. “New Department leadership is working with career staff on developing a more balanced approach,” said the DOJ spokesperson. “The department wants to develop neutral and balanced policies in this area that recognize the importance of both antitrust enforcement and JUNE 15, 2021 As DOJ Confirms a Change in Antitrust Patent Policy, Lawyers Prepare for Shifting Demand BY BRUCE LOVE U.S. law has often shied away from enforcing essential patent obligations. That’s set to change. The result could be “a significant change in the volume and nature of business for IP trial lawyers and their clients,” one lawyer said. Office of the Attorney General at the U.S. Department of Justice in Washington, D.C. June 6, 2020. THE NATIONAL LAW JOURNAL JUNE 15, 2021 intellectual property protection to our economy and that do not favor one set of interests over others.” Such policy changes could result in a swell of business for law firms with deep, technical IP benches and strong experience representing the industry in enforcement actions, lawyers said. Trump’s DOJ had “taken its foot off the gas” when it came to SEPs as the focus of anti-competitive behavior, said one Washington-based lawyer, speaking on the condition of anonym- ity because he currently has active cases that involve both SEP enforcement and defense. “It didn’t mean we weren’t busy as litigators. There was a lot of work enforcing SEPs against infringers and defending against infringement allegations,” he said. “But we weren’t busy in the antitrust arena. A greater focus on SEPs—not just by the DOJ but also other agencies—might mean more litigation, but it will also mean a more transparent field of play. It doesn’t do companies any good for there to be unfettered SEP enforcement.”

#### Litigation flood now.

Gaivin ’9-10 [Kathleen; September 10; Columnist; McKnight’s, “‘Rough couple of months ahead’: Increasing COVID-19 litigation could mean trouble for employers,” <https://www.mcknightsseniorliving.com/home/news/business-daily-news/rough-couple-of-months-ahead-increasing-covid-19-litigation-could-mean-trouble-for-employers/>]

An increase in litigation this summer could foreshadow a rough few months ahead for employers, especially in the healthcare sector, according to a report from employment and labor law firm Fisher Phillips.

Employment lawsuits have nearly doubled from last year, and healthcare employers are more than 20% likely to be sued than other types of employers, the company  said.

“We typically see a slowdown in new lawsuit filings over the summer for a number of obvious reasons,” [said](https://www.fisherphillips.com/news-insights/fp-tracker-reveals-hot-covid-litigation-summer.html) Jay Glunt, a Pittsburgh-based Fisher Phillips partner. “But the fact that we didn’t see much of a lull in employment-related COVID litigation — and in fact saw an uptick — sends a clear signal that we could be in for a rough couple of months ahead.”

Employers saw 715 COVID-19 workplace lawsuits from June to August, a number that was significantly higher than last year’s record of 444 lawsuits, according to the law firm’s [Employment Litigation Tracker](https://www.fisherphillips.com/innovations-center/covid-19-employment-litigation-tracker-and-insights.html). The first eight months of 2021 have seen a monthly average of 253 new claims filed, which represents a 59% increase in lawsuits from the last eight months of 2020.

The authors opine that the number of lawsuits may be tied to the surge of COVID-19 cases across the country.

“TheFP Tracker shows a sharp increase in lawsuits filed from July 2021 (209 claims) to August 2021 (246 claims). And that 18% jump could be just the start of a lawsuit wave that follows the delta-fueled surge, matching what we saw earlier this year,” according to the report.

#### Courts adapt

Mullenix 14, Chair in Advocacy, University of Texas School of Law (Linda, “ENDING CLASS ACTIONS AS WE KNOW THEM: RETHINKING THE AMERICAN CLASS ACTION,” https://scholarlycommons.law.emory.edu/cgi/viewcontent.cgi?article=1184&context=elj)

With regard to more substantial claims, there also is scant evidence of docket congestion in absence of the class action rule. In the 1980s and 1990s federal courts were gripped by a “crisis mentality” with regard to mass tort claims, which has failed to materialize in many instances. In fact, there has been little evidence that courts have been overwhelmed with individual suits that might better be pursued on a classwide basis. Persons with meritorious and substantial damage claims are more likely to pursue individual litigation (or to opt-out of any certified class), leaving peculiar aggregations of less valuable or dubious claims. Furthermore, federal judges have demonstrated that the courts are capable of designing and implementing case management programs to efficiently process large numbers of claims individually, as Judge Eduardo Robreno established with the asbestos docket bequeathed to him in the wake of the Court’s Amchem decision.92

#### No correlation between economic decline and war.

Walt 20, Robert and Renée Belfer professor of international relations at Harvard University. (Stephen M., 5/13/20, “Will a Global Depression Trigger Another World War?”, *Foreign Policy*, https://foreignpolicy.com/2020/05/13/coronavirus-pandemic-depression-economy-world-war/)

On balance, however, I do not think that even the extraordinary economic conditions we are witnessing today are going to have much impact on the likelihood of war. Why? First of all, if depressions were a powerful cause of war, there would be a lot more of the latter. To take one example, the United States has suffered 40 or more recessions since the country was founded, yet it has fought perhaps 20 interstate wars, most of them unrelated to the state of the economy. To paraphrase the economist Paul Samuelson’s famous quip about the stock market, if recessions were a powerful cause of war, they would have predicted “nine out of the last five (or fewer).”   
Second, states do not start wars unless they believe they will win a quick and relatively cheap victory. As John Mearsheimer showed in his classic book Conventional Deterrence, national leaders avoid war when they are convinced it will be long, bloody, costly, and uncertain. To choose war, political leaders have to convince themselves they can either win a quick, cheap, and decisive victory or achieve some limited objective at low cost. Europe went to war in 1914 with each side believing it would win a rapid and easy victory, and Nazi Germany developed the strategy of blitzkrieg in order to subdue its foes as quickly and cheaply as possible. Iraq attacked Iran in 1980 because Saddam believed the Islamic Republic was in disarray and would be easy to defeat, and George W. Bush invaded Iraq in 2003 convinced the war would be short, successful, and pay for itself.

The fact that each of these leaders miscalculated badly does not alter the main point: No matter what a country’s economic condition might be, its leaders will not go to war unless they think they can do so quickly, cheaply, and with a reasonable probability of success.

Third, and most important, the primary motivation for most wars is the desire for security, not economic gain. For this reason, the odds of war increase when states believe the long-term balance of power may be shifting against them, when they are convinced that adversaries are unalterably hostile and cannot be accommodated, and when they are confident they can reverse the unfavorable trends and establish a secure position if they act now. The historian A.J.P. Taylor once observed that “every war between Great Powers [between 1848 and 1918] … started as a preventive war, not as a war of conquest,” and that remains true of most wars fought since then.

The bottom line: Economic conditions (i.e., a depression) may affect the broader political environment in which decisions for war or peace are made, but they are only one factor among many and rarely the most significant. Even if the COVID-19 pandemic has large, lasting, and negative effects on the world economy—as seems quite likely—it is not likely to affect the probability of war very much, especially in the short term.

## 1AR

### FTC Tradeoff DA

#### Antitrust fervor is at an all-time high---thumps.

Zanfagna 9/7/21, \* [Gary Zanfagna](https://www.paulhastings.com/professionals/garyzanfagna) is an antitrust and competition partner at Paul Hastings LLP; (September 7th, 2021, “Antitrust isn't headed to an inflection point; it's already there”, https://thehill.com/opinion/judiciary/571087-antitrust-isnt-headed-to-an-inflection-point-its-already-there)

The truth is most companies have not had to think too much about antitrust regulations. The basic rules are pretty well known. But that is potentially changing quickly as antitrust concerns focus on not only high-tech companies, but businesses across the economy, from startups to global conglomerates.

It means antitrust is at an important inflection point. Changes are occurring at multiple levels — from [rule reform](https://www.klobuchar.senate.gov/public/_cache/files/e/1/e171ac94-edaf-42bc-95ba-85c985a89200/375AF2AEA4F2AF97FB96DBC6A2A839F9.sil21191.pdf) to [new applications](https://www.hawley.senate.gov/senator-hawley-introduces-trust-busting-twenty-first-century-act-plan-bust-anti-competitive-big) of existing rules to [increased enforcement](https://www.klobuchar.senate.gov/public/index.cfm/news-releases?ID=A4EF296B-9072-4244-90AF-54FE43BB0876). Some of these changes are a reflection of the economic upheaval ushered in by the digital economy, which has prompted businesses and governments to look to antitrust rules to solve their problems. Witness [President Biden](https://thehill.com/people/joe-biden)’s [July 9 executive order](https://www.whitehouse.gov/briefing-room/presidential-actions/2021/07/09/executive-order-on-promoting-competition-in-the-american-economy/) whose 72 provisions include requests ranging from asking the FCC to reinstate net neutrality rules to directing the FDA to issue rules to allow more competition in the hearing aid market.

It’s a reflection of a general zeitgeist whose goal is to slow the onslaught of consolidation in technology across industries, from news media to healthcare to agriculture. And it’s gathering momentum as new rules are being proposed from both sides of the aisle.

Many look to the 449-page [“Investigation of Competition in Digital Markets”](https://www.nytimes.com/interactive/2020/10/06/technology/house-antitrust-report-big-tech.html?action=click&module=RelatedLinks&pgtype=Article) report from the judiciary committee on antitrust as the opening salvo. The report took aim at Amazon, Apple, Facebook, and Google, outlining how those once scrappy startups now leverage their market position in ways not seen since “the era of oil barons and railroad tycoons.” The judiciary report’s conclusion: prevent big tech from acquiring smaller tech with tougher policing — and reform antitrust laws.

Both Democrats and Republicans have since voiced their support for such ideas.

Aimed at the seemingly intractable challenges of the digital era, Sen. [Amy Klobuchar](https://thehill.com/people/amy-klobuchar)’s (D-Minn.) “[Antitrust Law Enforcement Reform Act”](https://www.congress.gov/bill/117th-congress/senate-bill/225/text) would create barriers to prevent consolidation across industries, not just in tech, but in any business that might be connected to “dominant digital platforms.” The legislation would have a prescriptive force, creating a presumption against certain mergers, whether they be in biotech or burgers.

Meanwhile, on the Republican side, Sen. [Josh Hawley](https://thehill.com/people/joshua-josh-hawley) (R-Mo.) has rolled out a bill that looks even more severe, blocking some mergers and acquisitions outright. The [“Trust-Busting for the Twenty-First Century Act”](https://www.hawley.senate.gov/senator-hawley-introduces-trust-busting-twenty-first-century-act-plan-bust-anti-competitive-big) would ban any acquisitions by companies with a market cap of more than $100 billion. The act would also make it easier for the FTC to classify a company’s behavior as anti-competitive, and then extract penalties (including profits) based on that behavior.

And it’s not just the Federal government. Several states have proposed their own legislation to prevent and punish what they see as anti-competitive behavior. Arizona narrowly passed initial legislation that would prevent app store operators, specifically Apple and Google, from forcing developers to use their payment systems.

Meanwhile in New York State, the [Twenty-First Century Anti-Trust Act (S933)](https://www.nysenate.gov/legislation/bills/2019/s8700/amendment/a) includes a first-of-its-kind state merger notification of any deal in which the buyer would end up with more than $8 million in assets of the target. It would also create an “abuse of dominance” offense and give the N.Y. attorney general rulemaking authority — whether or not the company was based in New York.

These proposals have a long way to go before becoming law, but they demonstrate potentially significant antitrust adjustments coming.

Expanding antitrust view

The ripple effects will be profound, affecting transportation, communications, banking and healthcare companies. Incumbents looking to diversify their business are vulnerable, as are startups looking for profitable partners. Unhappy competitors who feel stymied may look to antitrust rules for remediation. And private equity moves to consolidate fledgling, fragmented industries will face tougher questions about overlap and industry concentration.

So, we are going to see antitrust being used in industries and in ways that haven’t been considered in many years, with views about market concentration expanding to encompass what used to be considered diverse or vertical markets. In fact, both Sen. Klobuchar’s and Sen. Hawley’s proposals specifically target consolidation across industries. Sen. Hawley’s $100 billion ban explicitly targets vertical acquisitions. It would certainly prevent deals like Facebook’s acquisition of WhatsApp or Google’s purchase of Fitbit.

#### Apple case thumps---it’s politicized, and has ripple effects across antitrust.

Albertgotti 9/10/21, \*[Reed Albergotti](https://www.washingtonpost.com/people/reed-albergotti/), Washington Post; (September 10th, 2021, “Judge’s ruling may take a bite out of Apple’s App Store, but falls short of calling the iPhone maker a monopolist”, https://www.washingtonpost.com/technology/2021/09/10/apple-epic-decision-judge-market-monopoly/)

A federal judge fundamentally altered Apple’s App Store business model on Friday in a landmark ruling that accused the iPhone maker of illegal anticompetitive behavior and is likely to have ripple effects across the U.S. antitrust landscape.

In a decision on an antitrust lawsuit brought by Fortnite maker Epic Games, U.S. District Judge Yvonne Gonzalez Rogers ruled that Apple must allow app developers to “steer” customers to alternatives to the tech giant’s payment processing service, which collects a 30 percent fee on most digital transactions. That was previously not allowed by the company, and marks a major victory for developers which have long complained of the tight grip the tech giant holds over its App Store on the roughly one billion iPhones currently in use.

[The blockbuster trial between Apple and the maker of ‘Fortnite’ goes out with a ‘hot tub’ session](https://www.washingtonpost.com/technology/2021/05/24/apple-epic-trial-hot-tubbing/?itid=lk_interstitial_manual_5)

Gonzalez Rogers also found that Apple was in violation of California state competition laws because of the way it forces developers into using Apple’s payment processing service without allowing them to tell customers there are alternatives, which are often cheaper.

She stopped short of ruling in favor of Epic‘s claims that Apple is a monopolist, although she left the door open by suggesting more evidence could have changed her decision.

“The court does not find that it is impossible; only that Epic Games failed in its burden to demonstrate Apple is an illegal monopolist,” she wrote.

Epic spokeswoman Elka Looks said the company plans to appeal the ruling. Tim Sweeney, chief executive of Epic, said in a tweet that, “Today’s ruling isn’t a win for developers or for consumers.”

Apple did not respond to requests for comment.

The ruling, one of the first major legal actions taken against a tech giant in a new era of antitrust scrutiny, is sure to echo loudly both in Washington, where a legislative effort to rein in the power of Big Tech is underway, and in the courts, which are facing the biggest test of existing antitrust laws in decades. Tech giants have come under the microscope in recent years as it became clear that current antitrust law does not effectively address their power, and regulators and lawmakers have been pushing to change that.

#### Private financing and human capital solve otherwise inevitable agency resource shortages

Bornstein 19, Associate Professor of Law, University of Florida Levin College of Law. (Stephanie, “Public-Private Co-Enforcement Litigation”, 104 Minn. L. Rev. 811, pg. 865-869)

C. COLLABORATIVE SOLUTIONS TO ENFORCEMENT DEFICITS

Both public and private halves of current hybrid enforcement schemes now face critical levels of constraint. On the one hand, federal agencies created by Congress to enforce public law statutes are hamstrung by slashed budgets and intense deregulatory political preferences, limiting their capacity to litigate enforcement actions.284 On the other, private attorneys general are limited by jurisprudence on compelled arbitration, pleading standards, and class action certification, reducing their incentives to take on risky litigation that serves a public good and, if a mandatory individual arbitration clause applies, barring them from doing so entirely.285 Given this new normative reality, this Section argues that a proposal of co-equal co-enforcement has much to offer, providing needed resources to public enforcers while helping private enforcers overcome procedural hurdles.

On the public enforcement side, collaboration offers the obvious advantage of providing desperately needed litigation financing to public agencies with limited budgets.286 Private attorneys general fund their cases through attorneys’ fees, contingency fees, and private litigation financing mechanisms, all guided by their estimate of the value of the case rather than a narrow federal budget.287 Combining forces also provides public agencies with additional person-power, and at a high level of expertise when those private attorneys are experienced in litigating complex class actions.288 These observations are not new: legal scholars have long identified similar advantages of the private bar—even those scholars ambivalent about or seeking to reign in entrepreneurial private attorneys general.289 Yet co-enforcement arrangements offer an important advantage over others’ proposals to expand public oversight of private attorneys general.290 A collaborative co-counsel approach recognizes that private attorneys, many of whom have deep expertise and lucrative class action practices, may bristle at the idea of serving as contract attorney “agents” for public agencies that they may perceive as overly bureaucratic—and for whom they are footing the bill. Indeed, despite three decades of academic calls for federal public oversight over private class action attorneys291—and even in the wake of new procedural restrictions on private attorneys292—there is little evidence that deputization schemes have been widely adopted at the federal level.293 As described in Part III, each enforcer in a co-enforcement scheme would be co-equal in authority and would share in the financing of its own efforts,294 likely a more attractive option for the private bar.

On the private enforcement side, collaboration offers the advantage of helping private plaintiffs’ attorneys overcome each of the three areas of procedural litigation reform calcified in Supreme Court jurisprudence in the past decade.295 For areas of public law affected by mandatory arbitration agreements, including employment, consumer, and antitrust claims, private attorneys may no longer be able to litigate at all without joining forces with a public agency that is not bound by individual private agreements to arbitrate.296 Likewise, the upfront costs and risk involved in modern class certification procedures may pose too difficult a hurdle for many plaintiffs’ attorneys to overcome. As described in Part III, this challenge may be overcome by cocounseling with a public agency not required to comply with Rule 23 to bring systemic cases.297 And, while pleading requirements under Rule 8, as recently interpreted in Twombly and Iqbal, would apply equally to complaints filed by public and private attorneys, private attorneys may benefit from the substantial investigatory resources and pre-discovery subpoena power of public agencies, whose access to information at an earlier phase in the case may help ensure surviving a motion to dismiss.298

After decades of litigation reform efforts to address fears about profit-motivations in the private attorney general model,299 there are new concerns that the pendulum has swung too far in the opposite direction, limiting access to the courts for federal statutory claims that rely on private enforcement.300 In an era of strong and well-funded public agencies, such concerns might have been assuaged by a sense that public enforcers could pick up the slack, stepping in where private enforcers are now constrained.301 That, however, is not today’s reality. Strong deregulatory preferences, exacerbated by corporate campaign financing, in the wake of years of litigation reform stand to wreak havoc on public law enforcement. As scholars have documented, public laws enacted by Congress with hybrid enforcement mechanisms rely on the robust participation of private enforcers,302 and public agency budgets are designed with the expectation that the private bar will fill an enforcement gap.303 Each side of a hybrid enforcement scheme is now operating with one hand tied behind its back. From a normative perspective, public-private co-enforcement offers the chance to combine the two remaining hands to ensure one strong, united enforcement presence.

#### Antitrust trebling incentivizes private enforcement---solves the link.

Cavanagh 10, \*Edward D. Cavanagh, Professor of Law, St. John's University School of Law. (2010, “The Private Antitrust Remedy: Lessons from the American Experience”, https://lawecommons.luc.edu/cgi/viewcontent.cgi?article=1071&context=luclj)

2. Deterrence

Second, mandatory trebling serves to deter antitrust violations. 2 9 Because many antitrust violations are concealable and hence difficult to detect, the benefits from engaging in illegal conduct are potentially enormous. Mandatory trebling creates significant incentives for private parties to enforce the antitrust laws as private attorney generals. In enacting the antitrust laws, Congress recognized that the government lacked sufficient resources to detect and prosecute all antitrust violations and that mandatory trebling would increase prosecution of antitrust violators and enhance the overall goals of antitrust enforcement. 30

Equally important, trebling ensures that private actions will go forward even when the Antitrust Division, the Federal Trade Commission, or state enforcers, for whatever reason, choose not to act. As enforcement efforts expand, the likelihood of identifying and successfully prosecuting antitrust violations increases, and illegal conduct is thereby deterred. In these circumstances, the goals of compensation and deterrence are complementary. Enhanced compensation of victims through mandatory trebling encourages enforcement by private attorney generals and the added private enforcement strengthens overall deterrence.

#### Private suits offset limited resources.

Waller 19, Spencer Waller; John Paul Stevens Chair in Competition Law, Director, Institute for Consumer Antitrust Studies, Professor, Loyola University Chicago School of Law; (February 2019, Competition Policy Antitrust Chronicle, “In Praise of Private Antitrust Litigation”)

There is no textual or historical basis to prioritize either public or private enforcement of antitrust laws. Rather they were intended to work as equal partners.

The Kinter treatise notes the importance of private treble damage remedies:

Although the treble damage provision is now found in the Clayton Act, the original Sherman Act already provided for the mechanism of monetary relief, including costs and attorney’s fees, for injured private parties. Three principal reasons animated the adoption of this device. First and primarily, it was deemed important to compensate persons who were injured by an antitrust violation, with much the same concern as is given to victims of other unlawful conduct. Second, it was hoped that the imposition of substantial monetary penalties would act as a deterrence to anticompetitive activity. Third, providing for private lawsuits would increase the number of potential plaintiffs, thereby offsetting the limited enforcement resources available to the government and giving the opportunity to attack misconduct to the very persons most likely to have information thereof.

### BBB DA

#### PC spent on voting rights

Everett 1-13-2021 (Burgess, “Biden was forged in the Senate. Now he's burning political capital to change it.,” *Politico*, <https://www.politico.com/news/2022/01/13/biden-agenda-democrats-senate-filibuster-527003>)

President Joe Biden is yet again sticking his neck out on Capitol Hill to save his agenda with slim prospects for success. Just as he tried to resolve myriad disputes on his domestic spending plans late last year, Biden is wading directly into a protracted battle within his own party over weakening the Senate filibuster. After edging from defender to critic of the chamber's 60-vote requirement to pass most bills — which has been a roadblock to many of his top priorities — Biden will visit Senate Democrats on Thursday to emphatically argue for changing the Senate rules to pass a party-line election reform bill. But it appears impossible the president can move two of his party's most ardent filibuster defenders, Sens. Kyrsten Sinema (D-Ariz.) or Joe Manchin (D-W.Va.), off their defense of the Senate’s supermajority requirement.

#### BBB is DOA with Manchin and Sinema- prefer the legislative history of broken promises --- whatever passes doesn’t solve

Taschinger, 12-29 -- Beaumont Enterprise editorial page editor

[Thomas Taschinger, "BBB is looking DOA in Senate," Beaumont Enterprise, 12-29-2021, https://www.beaumontenterprise.com/opinions/editorials/article/OPINION-BBB-is-looking-DOA-in-Senate-16736598.php, accessed 1-3-2022]

BBB is looking DOA in Senate

By Halloween. That is when Democrats first promised they would pass their ambitious $2 trillion 10-year spending bill, commonly known as Build Back Better.

Then the next holiday/deadline was Thanksgiving. Yet turkey day came and went, and Christmas became the new goal. And what better gift to President Biden than to have a signing ceremony in the Oval Office for what is touted as his signature achievement so far, similar to President Trump’s tax cuts or President Obama’s Affordable Care Act.

Except that Christmas is now off the table. The Senate’s No. 2 Democrat, Majority Whip Sen. Dick Durbin, D-Ill., has gloomily conclude that the bill is still stalled — with no real hope for passage soon. And he named and blamed the two Democratic senators standing in front of this bill like a brick wall: “We do not have an agreement with Krysten Sinema [of Arizona] and Joe Manchin [of West Virginia] even to say: ‘Here are the parameters of the agreement.’ ”

Think about that. Not even a framework, or a vague promise to pass something later. Manchin and Sinema (mostly him, but she’s a factor too) think the bill is just too big and too costly. Manchin in particular has noted that inflation is raging through the American economy, and dumping a massive load of federal spending like this into the mix will not help any.

Biden and other Democrats have promised that the bill is “fully paid for,” in that tax increases on corporations and the wealthy will pay for its costs. Yet that is true only if the tax increases are passed — Sinema is opposed to them — and you accept the creative accounting in the Democrats’ argument.

The Congressional Budget Office doesn’t. It’s the most neutral and respected source on these questions. It’s not a Republican or Democratic think tank but a group of numbers-crunchers who are pretty good at figuring out what a bill will cost in the long term — often despite what its partisan backers claim.

And the CBO says the bill would “increase the deficit by $3 trillion over 2022 to 2031.” To get around that inconvenient point, some Democrats want to trim the time span of the bill from 10 years to three or four. They’re hoping that once the American people get the full experience of the child tax credit, which expired Dec. 15 after several months of payments, and other benefits like universal pre-K education, they’ll demand an extension of the bill.

And they well might. Once an entitlement or a new agency begins in Washington, it almost never ends. Manchin and Sinema know this too, which is why they’re reluctant to open the door.

Manchin is particularly opposed to the child tax credit, which sends checks of $250 or $300 to every parent for every child they have under age 18. Manchin sent a letter to Senate Majority Leader Chuck Schumer stating that this and other social spending in Build Back Better had to be “needs-based, with means testing guardrails,” which means that he doesn’t want the benefits going to all families with children, just to those with lower incomes.

When you add all this up, Build Back Better’s chances are fading. Manchin and Sinema don’t like it that much to begin with, and if Democrats changed it to something they would support, it would be far less ambitious and impactful. It would go from Biden’s signature achievement to just another bill.

#### AND getting Manchin trades-off with progressives

Axelrod, 12-28 -- chief strategist for the 2008 and 2012 Obama presidential campaigns

[David Axelrod, "Opinion," NY Times, 12-28-2021, https://www.nytimes.com/2021/12/28/opinion/build-back-better-biden.html, accessed 1-3-2022]

Pointing to the national debt, Mr. Manchin has called this gimmickry and publicly insisted that to get his vote, the president and Democrats would have to choose fewer priorities, do more to focus benefits according to economic need and fund them for longer.

These demands have enraged progressives, who had hoped to seize this moment, when Democrats hold the White House and control of Congress, to address the urgent and growing challenges of income inequality and climate change while paying for those efforts by reversing Trump tax cuts that overwhelmingly favored the wealthy.

Failing to enact a package akin to the one he initially proposed might also disappoint the president, who hoped the gravity of these challenges and the trauma inflicted by the pandemic would create a rare opportunity to pass an agenda as bold in scope as Franklin D. Roosevelt’s New Deal.

But the math is the math. In a 50-50 Senate and an almost evenly divided House, there are obvious limits to what can be achieved. Even Roosevelt took years to enact the New Deal.

#### After Manchin it fails in the House- it’s a House non-unique not a Senate non-unique

Segers, 12-30 -- New Republic staff writer

[Grace Segers, "House Democrats Are Not in Disarray. Mostly.," New Republic, 12-30-2021, https://newrepublic.com/article/164799/democrats-disarray-house-caucus-pelosi-aoc, accessed 1-3-2022]

Manchin and Sinema command a great deal of attention because they depart from consensus in significant ways. Their outsize visibility and power can obscure the fact that in the Senate, too, more agreement exists than not. After Manchin’s announcement, it’s unclear whether any version of the Build Back Better Act can pass in the Senate; if any bill is approved, it will be radically different from what House Democrats so painstakingly negotiated. House Democrats would therefore again struggle to reach unity on a bill that may no longer reflect their key priorities, likely testing whether they can maintain the accord they’ve reached. “We have people who represent a tiny minority of the population who have far too much power in the Senate,” Representative Sean Casten told me. “That’s the challenge of where we are right now. It’s not a party issue. It’s a structure of the Senate issue.”