# 1AC

### 1AC---Innovation

#### Advantage 1 is Innovation:

#### The Ninth Circuit’s recent decision in *FTC v. Qualcomm* permits information technology firms to engage in innovation-stifling conduct with antitrust impunity. Firms have been given free reign to license standard-essential patents (SEP’s) at a surcharge and evade commitments to license on Fair, Reasonable, and Non-Discriminatory (FRAND) terms.

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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.

#### Qualcomm’s ability to evade its FRAND commitment can be traced to a failure on the part of Standard Setting Organization’s (SSO’s) to reasonably define and enforce their IPR policies. Patent holdup is real, and antitrust enforcement is necessary to manage it.

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C. A Limited Role for Antitrust in Promoting, Not Impeding, Competition

We favor an important but limited role for antitrust to control patent holdup. One of the authors has previously expressed skepticism of broad antitrust enforcement against patent holdup.129 But the critical point Lemley made there is that, for the most part, we do not need antitrust if patent and contract law effectively enforce the private solutions SSOs have developed to the holdup problem.130 In his more temperate moments, Delrahim adds an important caveat that, if taken seriously, might align him more with us: “[A]ntitrust law should play no role in policing unilateral FRAND commitments where contract or common law remedies would be adequate.”131 Unfortunately, he seemed to drop that caveat in the joint December 2019 statement with the PTO abandoning long-standing policy on FRAND commitments. There, the Division and the PTO took the position that patentees should be entitled to a full range of patent remedies, explicitly including injunctions, even if they had committed to license the patents on FRAND terms.132 As Herbert Hovenkamp has noted, the Justice Department’s position contradicts established law on injunctive relief and FRAND.133

Even the more limited version of the statement is problematic. If courts effectively enforce FRAND commitments, most of the holdup problem can be solved without resort to antitrust. But antitrust still has an important role to play when contract law and anti-fraud laws fail to fully address the patent holdup problem.134

The FTC’s case against Qualcomm provides a good example of why antitrust is needed. In that case, the District Court found that Qualcomm had breached its FRAND commitment and used its monopoly power over modem chips to pressure its customers (Original Equipment Manufacturers, or “OEMs”) to pay a royalty surcharge for Qualcomm’s SEPs on top of the reasonable royalty rates that Qualcomm would otherwise have been able to obtain. Qualcomm imposed this surcharge when Qualcomm’s customers purchased modem chips from Qualcomm’s rivals.135 The District Court correctly found that Qualcomm’s royalty surcharge acted like a tax when Qualcomm’s customers purchased modem chips from Qualcomm’s rivals.136 Based on this reasoning, the District Court correctly found that Qualcomm’s “no-license/no-chips” policy harmed competition by raising rivals’ costs and thereby excluding them, and that this same conduct also harmed Qualcomm’s customers.137

The Ninth Circuit reversed, making basic errors of both economics and law.138 On the economics, the Ninth Circuit mistakenly concluded that “Qualcomm’s royalties are ‘chip-supplier neutral’ because Qualcomm collects them from all OEMs that license its patents, not just ‘rival’s customers.’”139 This is flatly incorrect, because the royalty surcharge reduces the gains from trade between an OEM and a rival modem-chip supplier but does not reduce the gains from trade between the OEM and Qualcomm.140 Based on this error, the Ninth Circuit states incorrectly: “The FTC identifies no such harm to competition.”141

On the law, the Ninth Circuit rejects the well-established principle that harming customers can be a way of harming competition: “[T]he primary harms the district court identified here were to the OEMs who agree to pay Qualcomm’s royalty rates—that is, Qualcomm’s customers, not its competitors. These harms were thus located outside the ‘areas of effective competition’—the markets for CDMA and premium LTE modem chips.”142 The notion that harms to customers in the relevant market are outside the scope of the antitrust laws is simply bizarre.

In any event, as noted above, the District Court also found harm to Qualcomm’s rivals in both of the relevant markets it identified. The Ninth Circuit further erred by stating that “the district court’s ‘anticompetitive surcharge’ theory fails to state a cogent theory of anticompetitive harm.”143 The Ninth Circuit’s logic at this point assumes that Qualcomm’s royalties reflect the value of its SEPs, but that is directly contrary to the District Court’s finding that Qualcomm used its monopoly over modem chips to obtain a royalty surcharge, above and beyond the royalties Qualcomm could obtain based on its SEPs.144 One cannot dismiss findings regarding the effects of a royalty surcharge by assuming away that very surcharge. Hopefully the Supreme Court will correct these blatant errors.

Qualcomm’s use of its separate monopoly power over modem chips to evade its FRAND commitment couldn’t be remedied in contract, making antitrust enforcement a necessity for reasons beyond simply enforcing the FRAND deal.145 In the standard-setting context, if a SEP owner breaches its FRAND commitment and is thereby able to charge unreasonably high royalties to device manufacturers, those royalties are likely to be passed through in large part to final consumers. Antitrust enforcement can protect consumers from these overcharges.146

But to the extent that antitrust can step back in some settings, that is only possible because the market participants have recognized and responded effectively to the patent holdup problem by requiring reasonable licensing terms, and because the courts have enforced that requirement in contract or patent law. The second prong of the Antitrust Division’s attack on FRAND commitments therefore undermines whatever merit there might be to the first prong. While on the one hand Delrahim says that we don’t need antitrust because contract and equity will solve the patent holdup problem, on the other hand he is advocating policies that make it harder for contract and patent law to solve that very problem. Threatening SSOs with liability—maybe even per se liability—for trying to stop SEP holdup undermines the very contractual solution on which Delrahim purports to rely. So too do Delrahim’s periodic claims that holdup is a good thing, or at least something we should accept,147 his incorrect claim that patent holdout is a bigger problem than patent holdup,148 and his advocacy for undoing or avoiding eBay and giving a patent owner the right to an automatic injunction.149 Indeed, under Delrahim, the Antitrust Division evidently objects even to voluntary commitments by patent owners not to seek an injunction as part of the standard-setting process.150 Ironically, this assault on SSOs and FRAND policies may actually necessitate more antitrust intervention in standard-setting. If the DOJ encourages companies like Qualcomm to ignore their FRAND commitments, and if the DOJ discourages SSOs from trying to solve the SEP holdup problem, or impedes their efforts to do so, antitrust may ultimately have to step in to protect a functioning market from SEP holdup.

CONCLUSIONS AND RECOMMENDATIONS

The theory of holdup is well-supported by a substantial body of empirical evidence. For valid conceptual and practical reasons, this empirical literature has not involved showing that large-scale actual holdups are common. Rather, the evidence generally comes in the form of efforts by private parties to contract around holdup.

The same types of evidence and the same standards regarding empirical work should be applied when testing the theory of patent holdup.

When such standards are applied, it is clear that the problem of patent holdup is substantial. Indeed, patent holdup, and especially SEP holdup, are very difficult strains of holdup to manage. Furthermore, the problem of patent holdup is quite common, since it arises whenever the efficient development of new products and services involves substantial investments that may turn out to be specific to another party’s patent portfolio. Not surprisingly, therefore, virtually all players in the high- tech industries affected by holdup participate in voluntary organizations where they agree to limit everyone’s rights (including their own) in an effort to pre-commit to avoid holdup.

Both the theory and the empirical work relating to patent holdup indicate that market participants have strong incentives to devise institutions to limit patent holdup. Considerable progress was made between 2006 and 2016 in controlling patent holdup in the United States, primarily through the courts, but also through competition policy enforcement. Unfortunately, some of that progress is now at risk due to a drastic shift in policy at the Antitrust Division of the Department of Justice. That shift is based on faulty economics, relies on flawed arguments, and is contrary to both patent law and the empirical evidence.

Rather than go backward, more forward progress is needed to manage and control patent holdup in general and SEP holdup in particular.

The costs caused by the problem of SEP holdup can be reduced if more SSOs follow the lead of the IEEE by clarifying and strengthening their patent policies. The SEP policies of many SSOs are certainly valuable, but efforts by Qualcomm and others to ignore or game their FRAND commitments show the necessity of SSOs being more explicit about just what their FRAND commitments entail.

The costs of SEP holdup can be reduced if the ITC joins the policy mainstream by recognizing that exclusion orders based on FRAND- encumbered SEPs are normally not in the public interest, provided the SEP owner has another available legal venue through which it can secure reasonable royalties. The White House reined in the ITC in 2013 when it sought to grant exclusion orders despite the patentee’s commitment to license the patents. The ITC should affirmatively apply that policy.

Most importantly, the courts should enforce reasonable SSO policies that target SEP holdup. Courts have been doing this as a matter of contract law, but patent owners seeking to engage in holdup have strong incentives to ignore or find ways to undermine, avoid, or evade their FRAND obligations. When they do so, antitrust must be willing to step in to protect competition and consumers by stopping patent holdup.

#### Anticompetitive conduct is escalating---weakened antitrust enforcement emboldens firms to follow Qualcomm’s lead, which collapses the integrity of standard-setting.

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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.

#### A trusted and credible system for ICT innovation is vital for rapid tech diffusion and economic growth---absent FRAND, the system will collapse.

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It is easy to take a pessimistic view about whether the system will break. If the current trend continues, the system is likely to break at some point for the simple reason that companies will not trust it anymore. The series of legal disputes witnessed over the past years – sometimes referred to as the “smartphone patent wars” – has been fodder for a pessimistic reading of “the two tales of SEPs”. While it is common in the business world that disputes over patents and licenses are settled in courts, various SEP disputes have revealed problematic aspects of the SEP market that are different from those disputes that follow the normal stream of business and contracts. Often, the SEP disputes are less concerned about the rights and boundaries of patents, and more about antitrust limits to market behavior: they concern market abusive practices and restrictions to competition as much as they are about intellectual property.

If the SEP system actually does break at some point, the consequences would be felt throughout the economy. SEPs have been a critical part of the ICT revolution. SEPs have allowed for the fast rates of innovation diffusion that the world has witnessed over the past quarter of a century. All the computer and Internet related products and services that people are now dependent upon for their private and professional lives are intricate webs of intellectual property. As many as 250,000 patents can be used to claim ownership of some technical specification or design element in a single smartphone (NYT 2012). A laptop, suggests one calculation, implements more than 250 interoperability standards (Biddle et al. 2010), and the number of SEP holders for 3G and 4G standards grew from 2 in 1994 to 130 in 2013 while the number of SEPs rose from fewer than 150 in 1994 to more than 150,000 in 2013 (Galetovic and Gupta 2016). The standardization-body ETSI has registered more than 150,000 declarations of SEPs from companies, and ETSI is just one of many bodies in the world of ICT standardization. For the 3G standard, the same body has about 24,000 patents that have been declared essential. Now, with the economy yet again on the threshold of big technological change, a trusted and credible system for creators and users of technology to standardize proprietary technology would be a boon for innovation, interoperability and – ultimately – the consumers.

And there are reasons for optimism. Although many of the problems in the SEP regimes need to be addressed, the numbers above indicate that the SEP system is in fact attractive to patent holders and SEP implementers. It is easy to see why: neither holders nor implementers are presented with alternative options that on the face of it would be far more profitable for them. In other words, there simply would not be as many patents declared as essential if both creators and users of technology believed the SEP system worked to their disadvantage or was grossly unfair. While the reality for some companies may be that legal disputes and unpredictability prompt them to find other ways than SEPs to get access to key technologies for their products, it remains the case that most stakeholders have strong economic incentives to maintain a balanced SEP system that is trusted.

First, standard essential patents are an asset for creators of technology because, by becoming essential to a standard, their volumes of sales for technologies that users value rise significantly. As many holders want to raise more revenues for their SEPs and – ideally – have the freedom to contract with buyers on their terms, they can expand their customer base when they agree to sell patented technology in accordance with a set of rules that are designed to prevent SEP holders exploiting the weakness of a customer that has grown dependent on having access to their technology.

Second, SEPs are hugely beneficial also to those that buy the licenses – the implementers or users. Through the SEP system, they can access technologies that are interoperable and work with different products and functionalities – and they can do it under conditions that, if history is a guide, in most cases give them stable and predictable terms of contract. As a consequence, both creators and users can focus on their competitive advantages and profit on the economies of scale and specialization. Downstream firms do not need to develop their own upstream technology and upstream firms do not need to package their technologies in end-customer products in order to make their products valuable.

Third, standard-setting organisations (SSOs) also have a big stake in an SEP system that works well – and, like creators and users of technology, they would stand to lose significantly if the SEP system were to collapse.

Lastly, the biggest beneficiaries are individual consumers – those who buy the end products using FRAND-conditioned SEPs. The advent of SEPs and the rules represented by FRAND have enabled a development of fast technology creation and contributed to the rapid diffusion in ICT goods and ICT-based services. The SEP system has also allowed for new competition, both between existing technologies and brands, and from new ones that have stepped into the market with the ambition to disrupt it, again to the benefit of the consumer. It is difficult to imagine that the ICT and digital development would have been as fast as it has been if SEPs had not been a central feature of the market.

The changing fortunes of companies operating in the cellular and smartphone market would not have been possible if there had not been an SEP system that supported competition. Now that the world economy is on the doorstep of new innovations that are dependent on a great number of input technologies – e.g. the Internet-of-Things, transport connectivity and intelligent vehicles – it is crucially important for the consumer that a balanced and functioning SEP system is maintained and that actors in the system converge towards it – which would ultimately meet their economic interests.

#### 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.

#### China’s standard-setting leadership enables them export 5G infrastructure globally.

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The information and biotechnology revolutions have changed our world and will heavily inform the future of society. Whoever controls these technologies controls the future, and whoever controls their standardization controls the technologies. China understands this well. For two decades, it has been working to take over international standardization rulemaking bodies to serve the goals advanced in “[Made in China 2025](https://www.pbs.org/wgbh/frontline/article/made-in-china-2025-the-industrial-plan-that-china-doesnt-want-anyone-talking-about/)” — that is, to dominate world manufacturing and then transition to become the center of the world’s technological innovation. The dangers to the United States are already present, and in forms that are not obvious. These include, first, [direct-to-consumer genetic testing](https://medlineplus.gov/genetics/understanding/dtcgenetictesting/directtoconsumer/). China may be using such testing to gain genetic information that permits the identification and tracking of Americans, including U.S. military and intelligence community personnel or their relatives. Second, health monitoring apps are able to provide geolocation data to Chinese entities, which means to the Chinese Communist Party (CCP) and its security services. This provides location data that is valuable on its own and might be compared with data from other sources to reveal key information about Americans. Third, the CCP, in cooperation with Chinese industrial entities on international bodies, are developing and setting international standards for emerging technologies. China’s influence has grown over the past two decades, and Beijing now possesses leadership roles in standards-drafting technical committees, which means it could shape outcomes to its benefit. China has formulated a four-step strategy to seek dominance in this area: plan, track, participate and take over. Beijing has boasted that it completed the first three steps and is on the last, which is to “[develop indigenous standards](https://saiscsr.org/2019/10/29/setting-a-new-standard-implications-of-chinas-emerging-standardization-strategy/) and to lead international standardization.” This means China may be replacing international standards with its own standards, in order to control technologies and the market. In 2017, China revised its [standardization law](https://share.ansi.org/Shared%20Documents/News%20and%20Publications/Links%20Within%20Stories/China%20Standardization%20Law_English%20translation_SESEC_5.17.2017.pdf), almost 30 years after its adoption in 1989. It also set up the [Standardization Administration of China](http://www.sac.gov.cn/sacen/) to implement its strategy in the early 2000s. China’s standardization strategy also has been incorporated into the [Belt and Road Initiative](https://www.beltroad-initiative.com/belt-and-road/) so that, as countries are weaved into this network, they adopt China’s standards. Beijing essentially has had the three primary standard-setting international organizations — the [International Organization for Standardization](https://www.iso.org/home.html) (ISO), the [International Telecommunication Union](https://www.itu.int/en/ITU-T/about/Pages/development.aspx) (ITU) and the [International Electrotechnical Commission](https://www.iec.ch/homepage) (IEC) — under its influence. Two Chinese government officials currently serve as president of ITU and IEC, and placed China’s proxy as the [head of the ISO](https://www.oxebridge.com/emma/latest-iso-president-has-ties-to-china-too/) after the organization was led by a Chinese official for many years. Meanwhile, Beijing has taken leadership or other influential positions in the [International Accreditation Forum](https://www.iaf.nu/) (IAF), [United Nations Industrial Development Organization](https://www.unido.org/) (UNIDO), [International Civil Aviation Organization](https://www.icao.int/Pages/default.aspx) (ICAO), [American Society for Quality](https://asq.org/) (ASQ) and perhaps others. China’s strategy to determine the world’s standards appears to be working. In 2019 alone, China submitted [830 standards proposals to the ITU](https://www.ft.com/content/858d81bd-c42c-404d-b30d-0be32a097f1c). According to [Zhang Xiaogang](https://www.chinadaily.com.cn/m/qingdao/2017-06/23/content_29862586.htm), former president of the ISO, China planned to initiate 395 international standards by 2020 but, in actuality, [it set 495](https://www.sohu.com/a/412713490_362042#:~:text=%E5%A4%AE%E5%B9%BF%E7%BD%91%E5%8C%97%E4%BA%AC8,%E5%87%BA%E6%9C%80%E5%A4%A7%E8%B4%A1%E7%8C%AE%E7%9A%84%E5%9B%BD%E5%AE%B6%E3%80%82). Zhang claims that “China has made the greatest contribution in the field of international standardization in the past five years.” Indeed, China has dominated 5G standard-setting, for example, in the [3rd Generation Partnership Project](https://www.3gpp.org/) (3GPP), an organization to develop mobile broadband standards, and 90 percent of standard proposals in the 5G super uplink field is done by China Telecom. Unfortunately, Western countries fail to see the importance of China’s strategic move. Zhang states, “Whoever leads in standard-setting will be the leader of the technology and the controller of the market.” China’s dominance in 5G standards-setting enables it to avoid the West’s sanctions against its tech giants such as Huawei, continue to expand globally, and to dominate the market. This could be a paramount communication-security problem for the U.S. Of particular importance is China’s standardization strategy — as identified in “[China Standards 2035](https://www.cfr.org/blog/china-standards-2035-and-plan-world-domination-dont-believe-chinas-hype)” — on international bodies engaged in developing and setting standards for select emerging technologies. These include advanced communication technologies and cloud computing and cloud services. The United States and its allies must ensure that international standards for emerging technologies are not being designed to promote the interests of China. If China is successful, it would lead to the exclusion of other participants; China would be the architect, builder and maintainer of the 21st century’s information technology infrastructure.

#### 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.

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

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.

#### Taiwan war goes nuclear---entanglement and both sides underestimate escalation risks.

Sweeney 21, \*Mike Sweeney is a fellow at Defense Priorities. He spent thirteen years as think tank analyst in Washington, DC, where he focused on U.S. foreign policy and defense planning, undertaking research and studies, including for the Department of Defense; (March 2021, “Why a taiwan conflict could go nuclear”, https://www.defensepriorities.org/explainers/why-a-taiwan-conflict-could-go-nuclear)

Alternately, if China did use conventionally armed missiles against U.S. bases in Japan and Guam, perhaps killing not only U.S. and Japanese military personnel, but also local civilians and U.S. dependents, what reaction would that spark? Is it so far-fetched to consider the United States initiating nuclear use under those circumstances? The United States does have viable tactical options, which it has sought to make more robust in accordance with the findings of 2018 Nuclear Posture Review (NPR).45 These include the deployment of the submarine-launched low-yield W76-2 warhead and development of an upgraded version of the B61 tactical gravity bomb.46 Chinese observers have expressly noted that these systems could make U.S. nuclear use more likely, a situation compounded by diminishing U.S. conventional superiority in the Western Pacific.47 To be clear, as with all aspects of this discussion, the point is not to state with certainty that the United States would resort to nuclear use. It might not be even likely. But it is worth acknowledging that it is possible. That is the element that needs to be injected into the debate not only over the future of strategic ambiguity, but over defense planning for Taiwan scenarios more broadly. The preferred U.S. style of warfare—to conduct attacks deep throughout an enemy’s territory rather than simply meeting them at a forward line of engagement—also presents problems and contains the prospect that non-nuclear strikes might unintentionally trip Chinese redlines regarding nuclear use. Within the U.S. academic community, this has produced a small, but important body of literature focused on the subject of “entanglement,” or the co-mingling of systems with both conventional and nuclear applications.48 This discussion has primarily focused on China’s ballistic missile force, as most of its systems are capable of firing both nuclear and non-nuclear warheads.49 China’s increasing reliance on road-mobile ICBMs (such as the DF-31 variants and the new DF-41) complicates this problem, creating the potential for their misidentification as shorter-range systems, such as the road-mobile DF-21 and DF-26, that might be used against U.S. ships or regional bases.50 Analysts have also expressed concern over the potential for U.S. forces to inadvertently sink a Chinese SSBN as part of its ASW campaign during a Taiwan conflict, a fear that echoes similar worries from the U.S.-Soviet struggle.51 Recall again the private comments of Chinese officials about conventional attacks on nuclear systems nullifying its NFU policy. The potential for mutual miscalculation Entanglement issues are far from the whole of the problem. There is still a fundamental misreading—perhaps on both sides—of the ability to manage escalation in Taiwan contingencies for reasons beyond strict operational matters. The very fact of China attempting something as complex and challenging as an amphibious invasion of an island of 24 million people would show an unwelcome tolerance for risk. For that matter, U.S. efforts to defend said island—halfway around the world on another nuclear power’s doorstep—also shows a fair amount of audacity. Put differently, the act of aggression against Taiwan and the effort to repel such an attack both demonstrate that each side is willing to take actions which could be viewed as inherently risky. Through that lens, the additional step to unwanted nuclear escalation is not a great leap. States act rationally, right up until they do not. In considering how a Taiwan contingency would play out, it would therefore be prudent to assume that nuclear use is more viable than cold assessments of each side’s pre-conflict intentions suggest. If academic surveys of Chinese strategic literature are correct, overoptimism on the ability to manage escalation once hostilities commence is not confined to the U.S. side.52

#### 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>)

III. CAN WE PLEASE STOP SEARCHING FOR SYSTEMIC HOLD-UP? It is not the purpose of this article to critique the data or methodologies used by researchers who claim that there is no evidence of systemic hold-up. Though questions remain, the data presented in the cited studies finding no empirical evidence of systemic hold-up present plausible descriptions of current markets for products such as smart phones and other connected technology devices. Instead, this critique is directed at the core assumption that runs through each of these studies: that a lack of evidence of systemic hold-up means that hold-up does not represent a threat that justifies policy intervention. In this Part, I argue that, notwithstanding the findings of these studies, patent hold-up in standardized product markets may indeed be a threat that merits preventative policy measures, but that those measures should be directed toward the prevention of well-understood and actionable forms of anticompetitive conduct rather than the economic phenomenon of hold-up. A. The Absence of Systemic Hold-Up Does Not Mean that Hold-Up Does Not Occur In a 2017 article, Galetovic and Haber utilize an extended analogy drawn from the field of Mayan archeology to make the point that scholars sometimes ignore the facts in front of them in order to cling to pre-formed (and empirically unsupported) beliefs.92 In this analogical tradition, I will use a hypothetical from public health epidemiology to illustrate a related point. Let us consider the often fatal and highly contagious viral infection Ebola. U.S. public health officials, aware of the dangerous effects of Ebola, might propose the implementation of prophylactic measures to prevent the spread of Ebola in the United States. Such measures might include early detection systems at U.S. hospitals, a network of Ebola experts ready to investigate suspected cases, and potential vaccines for particularly vulnerable populations. All of these measures, of course, would come at a cost. Those opposing the incurrence of this cost might argue that such measures are unjustified because there is no empirical evidence that Ebola is a problem in the U.S. After all, there are no documented outbreaks of the disease, and the only reported cases have been sporadic and linked to other factors (such as health workers returning from abroad). In fact, both lifespan and overall health in the United States have been improving steadily over the past several decades. Most declines in population health can be traced to causes such as tobacco use, poor dietary choices, lack of exercise and the like, but not to Ebola. Thus, because there is no evidence that Ebola outbreaks have occurred in the United States nor any linkage between decreased health and Ebola, and because the overall health of the United States population continues to improve, there is no justification for preventative measures to stop Ebola outbreaks in the United States. This reasoning is, of course, fallacious and, in the case of a disease like Ebola, dangerously so. In the field of public health, prophylactic measures are often taken before a health risk affects a significant portion of the population. This is the reason for prophylactic measures in the first place. In the field of public health, it is widely recognized that risks arising from any number of environmental and pathogenic sources can be assessed based on laboratory analysis and test cases, without population-level epidemiological data. In fact, once population level data for such outbreaks is available, it is often too late: an epidemic has broken out and millions are at risk. Luckily, it is doubtful that public health officials would apply the fallacious reasoning outlined above to important public health decisions. Curiously, however, this “Ebola fallacy” has taken root in the debate over patent hold-up. As discussed above, the purported lack of empirical evidence of system-wide patent hold-up is used as a justification for abandoning or forestalling policy interventions aimed at reducing the risk of hold-up. Because hold-up has not been detected at a systemic level, so the argument goes, it must not be a problem. Therefore, measures designed to prevent hold-up from occurring must be the result of gratuitous or over-zealous policy making. The logical fallacies in this argument should be apparent. In fact, there are numerous examples of anticompetitive conduct by individual firms in markets that are not otherwise overrun by anticompetitive behavior. For example, in 2009, the Federal Trade Commission brought an action against pharmaceutical manufacturer Solvay and a group of generic drug manufacturers for violating Section 5 of the FTC Act by entering into an arrangement whereby the generic manufacturers agreed not to challenge Solvay’s patent on its AndroGel product and not to market their generic versions of AndroGel, in exchange for a significant payment by Solvay to each of the generic manufacturers (a so-called “pay for delay” scheme).94 The Supreme Court held in 2013 that such conduct was actionable and reversed the Eleventh Circuit’s dismissal of the FTC’s claim.95 Yet even in 2009, the year in which the FTC brought its action, of the 68 agreements settling patent disputes filed by pharmaceutical manufacturers with the FTC,96 the FTC estimated that only 19 of these (28%) were potential pay for delay agreements; and by 2014, the year after the Actavis decision, only 21 out of 160 such agreements (13%) were deemed by the FTC likely to represent illegal pay for delay schemes.97 Thus, while pharmaceutical industry patent settlements have attracted significant attention as potentially anticompetitive arrangements, most such settlements do not merit investigation by the FTC.98 An even more telling example is found in the area of mergers and acquisitions. During fiscal year 2016, a total of 1,832 merger and acquisition transactions were reported to the FTC and DOJ under the Hart-Scott-Rodino Antitrust Improvements Act.99 Of these, the FTC challenged only twenty-two (1.2%). 100 Thus, while some anticompetitive mergers may exist, the vast majority are not anticompetitive.101 But the absence of market-wide anticompetitive conduct in the area of mergers and acquisitions hardly excuses the handful of transactions that do present antitrust risks, nor does it suggest that mergers should not be subject to governmental monitoring and, when merited, enforcement. 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.

### 1AC---Cybersecurity

#### 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.

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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.

#### Insecure technical standards cause inevitable systemic grid collapse---extinction.

DeNardis 21, \*Dr. Laura DeNardis, PhD in Science and Technology Studies from Virginia Tech, Dean of the School of Communication at American University, and Gordon M. Goldstein, Adjunct Senior Fellow at the Council on Foreign Relations, (March 1st, 2021, “The Real Lesson of the Texas Power Debacle”, Lawfare, 3/1/2021, https://www.lawfareblog.com/real-lesson-texas-power-debacle)

The infrastructure was essential, ubiquitous and providing basic functionality for everything in daily life from water to heat and transportation. And in an instant it was gone, plunging tens of thousands of residents into a life-threatening crisis. This is, of course, the narrative of the recent debacle in Texas, where a winter storm overwhelmed the state’s electrical grid and brought the state to a near-total blackout. But it should also be interpreted as a preemptive warning of what Americans will face from the next generation of the internet and the new realm of cybersecurity risk it will dramatically amplify.

Both forms of infrastructure—a state-run electrical grid and the 5G and “internet of things” future to which we are rapidly hurtling—share three attributes. First, their construction reflects a lack of imagination about the danger that can quickly coalesce when seemingly remote threat scenarios become real. Second, compounding a lack of analytic imagination is an absence of preparedness. Third, for both the Texas electrical grid and the emerging internet, public policy protections are either meager or completely absent.

In planning for the resilience of its electrical grid, public officials in Texas discounted the potentially devastating disruption that could occur from unpredictable events—whether related to climate change or just a once-a-century anomaly. They also eschewed precautions other states take seriously by allowing for the interconnection of electrical grid supply chains across their borders, ostensibly because of their ideological rejection of federal regulatory oversight governing such arrangements.

As the United States builds out a new national 5G cyber-physical communications network through private service providers, Americans similarly discount the risks—myriad in their diversity and severity—that are orders of magnitude more significant than what Texas confronted recently. More physical things than people are already connected. The super empowered internet of tomorrow, known among some in the field as the “internet of everything,” will exceed by tens of billions of devices the number of connections between individuals simply communicating via social media or digital screens.

This confronts policymakers with an imminent threat: A cyber outage is no longer about losing digital communications but about losing basic societal functioning and even human life. The failure of imagination is to think of the SolarWinds attack on U.S. federal agencies and tech companies as a worst-case scenario. The failure of imagination is to think of cybersecurity through a content-centric lens rather than as possible attacks on the material world. The emergence of internet-connected cardiac devices, digitally dependent cars, and internet-connected agriculture systems portend the stakes of a cyberattack to health care, economic and social functioning, and food security.

The United States should be prepared for, and certainly not be caught by surprise by, such cyberattacks. Yet, the internet of everything is notoriously insecure. Internet-connected physical objects are not necessarily upgradeable. Nor do they come with adequate default security and encryption. The 5G infrastructure that helps connect digital objects has been at the center of debates over Chinese espionage. Industrial cyber-physical systems are based on technical standards that have not been collaboratively vetted for security and interoperability. One of the most infamous cyberattacks—the so-called Mirai botnet that took down major media sites and corporations—hijacked these insecure objects in homes to carry out the assault. The United States is not yet prepared.

Finally, in the race to conceive and deploy effective public policy responses, the U.S. government as a whole is hardly more anticipatory or synthesized in its response to potential calamity than the state of Texas. The focus of U.S. cyber policy remains on information policy issues such as disinformation, manipulation and violent speech rather than securing the digital world that now powers our material day-to-day lives. The Biden administration confronts an enormous challenge in crafting a comprehensive strategy to the cybersecurity risks foreshadowed by the ruinous experience in Texas and its management of vital infrastructure. While the digital world has leapt from two-dimensional to three-dimensional space, cyber policy has not at all jumped from 2D to 3D.

This failure of imagination, preparedness and policy protection must not be America’s cyber future; the stakes are far too high and the costs are far too great. The Texas disaster is a potent illustration of what has always been true: Our digital society and economy are extremely vulnerable and grow more porous and subject to penetration day by day. As digital sensors and cyber control systems become further embedded in physical infrastructure like energy systems, agriculture and transportation, there is no longer a separation between security of the “real” world and security of the online world. They are entangled and increasingly enmeshed—and policy has yet to catch up to either envisioning or mitigating the looming threats the U.S. confronts.

If the energy grid cannot weather a winter storm, how can it be expected to withstand a major cyberattack? What other vital forms of national infrastructure—ranging from water, bridges, highways and roads, and ultimately our day-to-day financial system—are comparably at risk? As Texas dramatizes, it is neither hyperbolic nor exaggerated to assert that our survival could now depend on securing the inevitable cyber-physical future that is accelerating with stunning rapidity.

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

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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/#_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/#_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/#_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/#_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/#_ftn14)

#### Those attacks cause accidental nuclear escalation.

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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.

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>)

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 judiciary 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.

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)

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.

Shapiro & Lemley 20, \*Carl Shapiro is the Transamerica Professor of Business Strategy Emeritus at the Haas School of Business, University of California at Berkeley; \*Lemley is the William H. Neukom Professor at Stanford Law School and a partner at Durie Tangri LLP; (2020, “THE ROLE OF ANTITRUST IN PREVENTING PATENT HOLDUP”, https://faculty.haas.berkeley.edu/shapiro/patentholdup.pdf)

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.

# 2AC

## ADV---Innovation

### 2AC---AT: No Patent Holdup---TL

### 2AC---Author Indict (Abbott, Barnett, Wright)

#### Don’t trust neg authors---Qualcomm funded their papers.

McLaughlin 21, Bloomberg, (David, March 12th, 2021, “One Tech-Funded University Helped Shape FTC’s Hands-Off Approach”, <https://www.bloomberg.com/news/articles/2021-03-12/how-george-mason-university-shaped-ftc-s-hands-off-approach-to-tech>)

* Alden Abbott, Jonathan Barnett are both fellows at George Mason University’s Center for Intellectual Property and Innovation Policy (funded by Qualcomm)
* Joshua Wright is a former FTC commissioner who taught at the institute and lobbied for Qualcomm

The [Tech Transparency Project](https://www.techtransparencyproject.org/) (TTP), a watchdog group in Washington, details in a new report an unusually close relationship between the law school at Virginia’s George Mason University and the Federal Trade Commission. By helping shape the workforce of the FTC, the group claims, the school infused it with a laissez-faire philosophy favorable to the school’s tech donors.

[The report](https://www.techtransparencyproject.org/articles/big-techs-backdoor-ftc) throws a harsh light on the FTC’s hands-off approach to tech companies over the past decade. As the agency prepares to argue the lawsuit against [Facebook Inc.](https://www.bloomberg.com/quote/FB:US) that it filed late last year, seeking to break up the social media giant, it must contend with an inconvenient fact: It approved Facebook’s acquisitions of Instagram in 2012 and WhatsApp in 2014—the very mergers it now seeks to undo. The FTC’s consent to those deals is cited by critics as evidence of a permissive attitude that allowed tech companies to grow into leviathans.

One explanation for its lenience, the TTP report charges, is that the industry used a corner of academia to capture the agency. According to the report, which was published on March 12, Silicon Valley donated substantial sums to George Mason’s Antonin Scalia Law School, which built a pipeline of professors and graduates who went to work at the FTC. Dozens of people went from the school to the regulator—commissioners, bureau heads, attorney-advisers, legal interns—during the Obama and Trump administrations.

Under President Trump alone, professors and graduates of Scalia Law, and heads of affiliated programs at George Mason, served as the FTC chair, general counsel, policy planning head, and leaders of its three main divisions: the bureaus of competition, consumer protection, and economics.

Katie Paul, who heads the TTP, says an investigation is needed into “whether George Mason University has effectively become Big Tech’s back door into the FTC, giving the companies an undisclosed way to sway its decision-making and hobble enforcement action.”

Revolving Door

Large tech companies have donated to two programs affiliated with Scalia Law, the Global Antitrust Institute and the Law & Economics Center. From January 2018 to the end of last year, [Google](https://www.bloomberg.com/quote/GOOGL:US) donated $900,000, [Amazon.com Inc.](https://www.bloomberg.com/quote/AMZN:US) contributed $925,000, and Facebook Inc. gave $675,000, according to documents obtained by Bloomberg Businessweek through a public records request. Google, Amazon, and Facebook declined to comment on their donations.

The law school says the ties between its faculty and the FTC aren’t unusual. Alison Price, a senior associate dean, says it’s common for professors to work for federal agencies and then return to their teaching jobs. “Since Scalia Law has special expertise and a relatively large faculty in antitrust, it’s logical that our faculty is called to serve with frequency,” she says. “But faculty don’t set policy; administrations do.”

The Tech Transparency Project is part of a larger watchdog group, [Campaign for Accountability](https://campaignforaccountability.org/). The TTP website cites several philanthropists as donors, including George Soros’s Open Society Foundations. Oracle Corp. had been a donor to a TTP predecessor group that focused mostly on Google, but the TTP says it no longer accepts corporate funding.

Both George Mason programs, which host conferences and offer training for judges and antitrust enforcers, promote the consumer-welfare standard articulated by Robert Bork, the late federal judge and Yale Law School professor. That standard, the guidepost for regulators and courts since the 1980s, looks to price increases as a gauge of competitive harm. It is blamed by some antitrust experts for handcuffing enforcers when it comes to policing tech companies.

The tech companies’ donations are drawing scrutiny. At a hearing on Feb. 25, New York Democratic Representative Mondaire Jones called Abbott “Tad” Lipsky, a former FTC official now at the [Global Antitrust Institute](https://gai.gmu.edu/), “a wolf in sheep’s clothing.” As he testified against proposals to give the antitrust laws more teeth, Lipsky drew Jones’s scorn. Programs such as the GAI “have worked to teach judges and regulators to let their guard down as corporate funders like yours came to dominate our economy,” Jones said. Lipsky responded that his antitrust views predated “any of these digital technology companies.”

A key figure in the law school-to-regulator pipeline is Lipsky’s boss, Joshua Wright, an FTC commissioner from 2013 to 2015. He now teaches antitrust law at George Mason while also running the GAI.

Wright wielded outsize influence at the agency, pushing through a 2015 policy statement in an attempt to rein in the agency’s enforcement power. After he left he improperly lobbied the agency on behalf of Qualcomm Inc., one of the law school’s largest donors, according to a report by the FTC inspector general that was obtained by TTP and verified by Bloomberg Businessweek. His name was redacted in the report, but Wright confirmed it was about him. He says he did nothing wrong.

The New York Times last year [reported that tech companies bankrolled the work of the GAI](https://www.nytimes.com/2020/07/24/technology/global-antitrust-institute-google-amazon-qualcomm.html) and that Wright had worked with corporate donors to fend off critics. The extent of the revolving door between the FTC and the law school, and Wright’s alleged violation of ethics laws, haven’t been previously reported.

Many companies support higher education, and many universities send professors and graduates to Washington. But George Mason is unique in cultivating a specific regulator, says Jeff Hauser, executive director of the [Revolving Door Project](https://therevolvingdoorproject.org/), which tracks government officials’ corporate ties.

“In terms of feeding directly into a government agency, I’m not aware of any equivalent at the SEC or the EPA or anything else,” he says, referring to the Securities and Exchange Commission and the Environmental Protection Agency.

A public university in the northern Virginia suburbs of Washington, George Mason is home to the free-market think tank the [Mercatus Center](https://www.mercatus.org/). It is a leader in the study of applying economic analysis to the law, emphasizing that markets work best when government regulates less. The university became known as a haven for conservatives at the end of the Reagan administration in 1988. Even Bork taught there after stepping down from the bench in 1988.

The George Mason conduit was steady and robust, according to the TTP, which details dozens of examples of people moving between the FTC and the law school over the past decade. One is James Cooper, who directs an economics and privacy program at the Law & Economics Center. He simultaneously taught at the school and served as a deputy director for the FTC’s Bureau of Consumer Protection.

Cooper was among the academics who urged House lawmakers last year to reject proposals to break up tech companies and make merger approvals more difficult. George Mason’s Wright, Lipsky, and John Yun, a professor at the law school who was an economist at the FTC, joined the filing. Cooper didn’t respond to a request for comment, and Yun declined to comment.

But Wright, the former FTC commissioner, perhaps best embodies the ties linking the FTC to the law school and its donors. After leaving the agency in 2015, Wright simultaneously taught at George Mason, ran the GAI, and worked for the Wilson Sonsini Goodrich & Rosati law firm, where he represented Qualcomm.

The FTC sued Qualcomm in January 2017 in a monopoly case that was developed while Wright was an FTC commissioner. Wright tried to broker a settlement about four months after the case was brought. He met Lipsky, then the acting director of the FTC’s competition bureau, for lunch at a steakhouse in Washington and tried to set up an additional meeting with agency officials, according to the inspector general’s report.

In doing so, Wright violated an ethics law that bans officials for life from lobbying on issues they worked on “personally and substantially,” according to the inspector general. Those findings were referred to the Department of Justice’s public integrity section. The Justice Department, which decided not to prosecute, declined to comment.

Lipsky resigned two months after his lunch with Wright, who then hired him at the GAI. Lipsky didn’t respond to a request for comment.

“I never made any appearance at the FTC involving its enforcement action against Qualcomm or discussed the merits of the case with any FTC official,” says Wright, who declined to elaborate on the specifics of the investigation. “I immediately complied when the FTC ethics office informed me that I should not make any appearance based upon a single preliminary vote I had cast years before the case was filed.”

Qualcomm contributed almost $5.8 million to the George Mason law school programs from 2016 through 2020. Less than two months before Wright met with the FTC to try to settle the Qualcomm case, the company gave $525,000 to the GAI. The company didn’t respond to requests for comment.

Tech companies that donate to George Mason collaborate with the school’s professors on projects, according to emails obtained through a public records request.

### UQ---FTC v. Qualcomm

#### Qualcomm will use the ruling to devastate competition.

Petros 20, \*Alex Petros is a Policy Counsel at Public Knowledge, where he focuses on digital platform competition issues. Prior to joining Public Knowledge, Alex worked for Senator Amy Klobuchar, Senator Richard Blumenthal, the House Committee on Oversight and Reform, and Senator Joe Donnelly. Alex received his J.D., cum laude, from Georgetown University Law Center and his B.A. from Yale College in Economics and Political Science with distinction; (August 13th, 2020, “Let the Chips Fall Where They May: The 9th Circuit Gives Free Rein to Qualcomm’s Monopoly”, https://www.publicknowledge.org/blog/let-the-chips-fall-where-they-may-the-9th-circuit-gives-free-rein-to-qualcomms-monopoly/)

Some of my favorite movie moments are “reinforcement” scenes. Just when it appears the heroes are doomed, the music swells and unexpected allies arrive to save the day. You can probably picture the scenes: the [resurrected Avengers arriving](https://www.youtube.com/watch?v=fP2w_UAK6B4) via portals in Avengers: Endgame or Gandalf and the Rohirrim’s [grand entrance](https://www.youtube.com/watch?v=EApCLbgAE5E) at Helm’s Deep. Many internet advocates see antitrust law this way: as a fearless knight whose climactic arrival will restore the proper balance of competition and cleanse the land of the competitive ills infesting technology markets. Tuesday’s terrible, horrible, no good, very bad, [9th Circuit ruling](https://pacer-documents.s3.amazonaws.com/3/19-16122/009132019519.pdf) in [FTC v. Qualcomm](https://www.theverge.com/2020/8/11/21363629/qualcomm-win-appeal-antitrust-ftc-lawsuit-frand-patents-chips) should put this savior notion to bed. It’s more apparent than ever that this newly construed, myopic antitrust law is simply not enough. The opinion completely throws out the excellent [district court opinion](https://www.ftc.gov/system/files/documents/cases/qualcomm_findings_of_fact_and_conclusions_of_law.pdf) and will allow Qualcomm free rein to continue its anticompetitive practices. For those unfamiliar with the litigation, or Qualcomm generally, here’s a quick primer. Even if you’ve never heard of Qualcomm, [chances are](https://www.qualcomm.com/company/about) the chips the company manufactures are what make your smartphone work. Along with being a chip manufacturer, Qualcomm also has a lot of patents for its chips that it licenses out to smartphone manufacturers — Apple, Samsung, and so on. Qualcomm’s patents are so integral to the cell phone networks (3G, 4G, and now 5G) that they have become part of the standards that all phone manufacturers must use. Standards are needed in that we want phones from different manufacturers to be able to talk to each other on the same networks, and we want phones to work across the world. However, there’s a competitive rub. Patent law has given Qualcomm a government-backed monopoly in that all phone manufacturers must license from Qualcomm if they want to make a phone at all. This would be patently unfair if Qualcomm, knowing that every manufacturer must pay for a license, could then charge whatever the company wants. That’s why, as a condition of becoming the standard, Qualcomm committed to licensing its patents on fair, reasonable, and non-discriminatory (FRAND) terms. In theory, this should mean that Qualcomm should offer low, reasonable royalty rates to all comers. The case is all about [how the company really doesn’t](https://actonline.org/2020/01/30/qualcomm-wants-you-to-think-the-ftcs-antitrust-case-is-about-patents-its-not/). They benefit massively from having their patents included in a standard — patents that might be worthless had the standards body picked some other technology or method — but then don’t uphold their end of the bargain. Qualcomm has [set exorbitant royalty rates](https://arstechnica.com/tech-policy/2019/05/how-qualcomm-shook-down-the-cell-phone-industry-for-almost-20-years/) for its patents and only licenses its patents to manufacturers — not its chipmaker rivals. One could term this selective refusal to deal “discrimination,” the exact thing Qualcomm promised not to do. FRAND commitments generally preclude a patent owner from refusing to license to another company for competitive reasons. Qualcomm’s royalty rates are also incredibly high and only sold to manufacturers via “portfolios” that bundle essential and non-essential patent licenses together. Qualcomm’s “no license, no chips” policy, along with agreements with rivals to only sell to Qualcomm-licensed manufacturers, gives Qualcomm unprecedented control over the chip market. Qualcomm uses this control to a competitively devastating effect. The end result is that Qualcomm has ensured a market where all manufacturers must pay Qualcomm royalties, and where the company can undercut rivals with its high royalty fees, it does.

### 2AC---!---Taiwan

#### Taiwan war is coming---1NC doesn’t assume 5G, which tilts the power balance and emboldens aggression---that’s Kroenig and Borghard. Goes nuclear through miscalc and US first-use doctrine---that’s Sweeney.

### 2AC---!---Democracy

#### Backsliding creates a confluence of escalatory factors---state collapse, civil war, WMD terrorism---that’s Diamond.

## ADV---Cyber

### 2AC---!---Cyber

#### Cyber conflict goes nuclear---critical infrastructure and grid collapse causes tit-for-tat escalation, and ill-established redlines and use-it-or-lose-it mentality pressures advisors to assume the worst---that’s Klare.

Defense is outdated--- Russia, China, and rogue organization are increasing cyber capabilities with the intention of future larger attacks---that’s Wintch.

## AT: T---Per Se

### 2AC---AT: T---Prohibit = Per Se

#### We meet---the plan still increases prohibitions on anticompetitive conduct, the rule of reason is simply a test that decides whether certain conduct actually violates said prohibition.

Fishman 19, \*Todd Fishman, [Allen & Overy LLP](https://www.jdsupra.com/profile/Allen_Overy_docs/); (January 31st, 2019, “The Rule of Reason as a Bar to Criminal Antitrust Enforcement”, https://www.jdsupra.com/legalnews/the-rule-of-reason-as-a-bar-to-criminal-87406/)

Antitrust law’s rule of reason was born of technical necessity. By its terms, §1 of the Sherman Act prohibits “[e] very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade.” 15 U.S.C. §1. Despite the expansive language of the statutory prohibition, the Supreme Court has held that §1 prohibits only agreements that unreasonably restrain trade. *Board of Trade of Chicago v. United States*, 246 U.S. 231, 238 (1918); *Standard Oil Co. of N.J. v. United States*, 221 U.S. 1, 58-60 (1911). With the rule of reason, antitrust courts assumed a prudential role in administering the scope of antitrust violations, applying a factual inquiry weighing legitimate justifications for a restraint against any anticompetitive effects. Under the rule of reason, “the factfinder weighs all of the circumstances of a case in deciding whether a restrictive practice should be prohibited as imposing an unreasonable restraint on competition.” *Continental T.V. v. GTE Sylvania,* 433 U.S. 36, 49 (1977).

#### Counter-interpretation---rule of reason is a prohibition.

Light 19, Sarah E. Light Assistant Professor of Legal Studies and Business Ethics, The Wharton School, University of Pennsylvania., The Law of the Corporation as Environmental Law, 71 Stan. L. Rev. 137, 2019, Lexis/Nexis

While antitrust law can serve as an environmental mandate by prohibiting collusive behavior that keeps environmentally preferable goods from the market, there is also conflict between antitrust law's goals of promoting competition and environmental law's goals of promoting [\*177] conservation. 192 Because antitrust law's per se rule and rule of reason operate on a somewhat fluid continuum, 193 this Subpart discusses the two doctrines together. The per se rule operates as a prohibition, whereas the rule of reason operates as both a prohibition and a disincentive. As noted above, antitrust law generally prohibits certain types of market activity - price fixing, horizontal boycotts, and output limitations - as illegal per se, and harm to competition is presumed. 194 For example, if an industry association declines to award a seal of approval necessary for a product's sale without any good faith attempt to test the product's performance, but rather simply because that product is manufactured by a competitor, such an action would be illegal per se. 195 Under this Article's framework, a per se violation is thus a prohibition. The more fact-intensive inquiry under the rule of reason tests "whether the restraint imposed is such as merely regulates and perhaps thereby promotes competition or whether it is such as may suppress or even destroy competition." 196 While this extremely broad statement might suggest that any fact is relevant to the inquiry, the salient facts under the rule of reason are "those that tend to establish whether a restraint increases or decreases output, or decreases or increases prices." 197 If an anticompetitive effect is found, then the action is illegal and the rule of reason operates, like the per se rule, as a prohibition. 198 The rule of reason can also operate as a disincentive, even if no [\*178] court finds an anticompetitive effect, as uncertainty and litigation risk may discourage firms from undertaking legally permissible, environmentally positive industry collaborations. 199 Associations of firms have adopted numerous mechanisms of private environmental governance to address the management of common pool resources like fisheries, forests, and the global climate. 200 Examples include the Sustainable Apparel Coalition's Higg Index 201 and the American Chemistry Council's Responsible Care program. 202 But private industry standards raise special antitrust concerns. An agreement among competitors with respect to product or process specifications may exclude competitors who fail to meet such standards, raising the specter that such industry collaborations really constitute output limitations or efforts to limit competition. 203 While the U.S. Supreme Court has scrutinized private standard-setting associations carefully, 204 it has noted that if associations "promulgate … standards based on the merits of objective expert judgments and through procedures that prevent the standard-setting process from being biased by members with economic interests in stifling product competition … , those private standards can have significant procompetitive advantages." 205 In the absence of price fixing or a boycott, a rule of reason analysis generally applies to product standard setting by private associations. 206 The uncertain outcome [\*179] inherent in the application of antitrust law in this context could therefore serve as a potential disincentive to the adoption of private industry standards. 207 The challenge of course is that some form of explicit sanctions on noncompliant industry members may be necessary for private industry standards to be effective. In the context of private reputational mechanisms like the New York Diamond Dealers Club, 208 Barak Richman has pointed out that the Club's use of reputational sanctions and voluntary refusals to deal with actors who flout industry norms, while welfare enhancing, could nonetheless amount to violations of antitrust law. 209 This echoes the concern raised by Andrew King and Michael Lenox in their extensive empirical analysis of the Responsible Care program created by the Chemical Manufacturers Association (now the American Chemistry Council). 210 King and Lenox concluded that the absence of explicit sanctions on members who failed to meet the standards set by the program left the program vulnerable to "opportunism." 211 While they suggested that industry associations could look to third parties to enforce the rules, 212 an alternative way to facilitate the long-term environmental benefits of stronger sanctions would be to interpret antitrust law in conformity with the environmental priority principle presented below. 213 [\*180] In some instances, the conflict between the values of promoting competition and conserving environmental resources can be stark. 214 Jonathan Adler, for example, has identified this conflict in the context of fisheries - a tragedy of the commons situation in which some form of collective action is required to avoid overfishing. 215 He cites as an example Manaka v. Monterey Sardine Industries, Inc., in which a fisherman was excluded from a local fishing cooperative. 216 The fisherman sued the cooperative under the Sherman Act, and the court found an antitrust violation in his exclusion. 217 While the fishing cooperative's policies were no doubt exclusionary, Adler contends that they also promoted conservation by restricting catch. 218 The fishery collapsed by the 1950s, a collapse Adler hypothesizes might have been "inevitable" but that perhaps might not have occurred in the absence of the antitrust suit. 219 While a court performing a rule of reason analysis must consider whether a restraint on trade suppresses or destroys competition, Adler points out that courts may also "consider offsetting efficiencies from otherwise anticompetitive arrangements." 220 It is not clear, however, that the courts have consistently taken these factors into account. 221 Among other potential remedies, Adler argues that to resolve this tension between antitrust law, on the one hand, and private collective action to conserve environmental resources, on the other, courts should more actively consider the "ancillary conservation benefits of otherwise anticompetitive conduct." 222 Recognizing the long-term health of a fishery would be consistent with antitrust law's purpose of ensuring viable markets exist in the future, and consistent with the environmental priority principle introduced below. 223

#### 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.

#### **Anticompetitive practices are strategies that have anticompetitive effects.**

Wells 16, Executive Notes Editor, Washington University Global Studies Law Review, J.D., Washington University in St. Louis. (Todd Wells, “Exploring the Space for Antitrust Law in the Race for Space Exploration,” Washington University Global Studies Law Review, Vol. 15, 2016, LexisNexis)

Antitrust law attempts to fight anti-competitive actions. "Anticompetitive practices refer to a wide range of business practices in which a firm or group of firms may engage in order to restrict inter-firm competition to maintain or increase their relative market position and profits without necessarily providing goods and services at a lower cost or of higher quality." The Organization for Economic Cooperation and Development, Glossary of Statistical Terms, Anticompetitive Practices http://stats.oecd.org.proxy.library.georgetown.edu/glossary/detail.asp?ID=3145. Obviously, with such a broad definition of anticompetitive practices, many types of actions can fall under the regulation of anticompetitive law. This can cover forms of collusion, price fixing, bid rigging, bid suppression, complementary bidding, bid rotation, subcontracting, and market divisions. Price Fixing, Bid Rigging, and Market Allocation Schemes: What They Are and What to Look For, U.S. Dep't of Justice, http://www.justice.gov/atr/ public/guidelines/211578.htm. An even broader approach would put patents under antitrust law. "All of these developments, in Congress and the Courts, are in the spirit of harmonizing patent and antitrust law, generally in the direction of subsuming patent law under antitrust law. From the perspective of providing clarity and certainty for those who are the targets of patent and antitrust suits, harmonization has much appeal." Robin Feldman, Patent and Antitrust: Differing Shades of Meaning,13 Va. J.L. & Tech. 1, 7 (2008).

#### 2---the ‘per se’ distinction is meaningless---rules always devolve into standards.

Crane 7 Daniel A. Crane is Assistant Professor, Benjamin N. Cardozo School of Law, Yeshiva University, Rules Versus Standards in Antitrust Adjudication, 64 Wash. & Lee L. Rev. 49 (2007), https://scholarlycommons.law.wlu.edu/wlulr/vol64/iss1/3

Before proceeding much further, it is worth pausing to consider the possibility that a world of antitrust rules would be illusory because, in practice, rules always fade into standards. Take H.L.A. Hart's observation that "[n]atural languages like English are... irreducibly open-textured" when specifying "general classifying terms,' ' 0 0 or Wittgenstein's point that the problem with rules is that they do not tell you when they should be applied.' 0 ' Because language is irreducibly open-textured and indeterminate and because rules lack internal mechanisms to specify when they should be applied, even when the law is formally framed as a rule, it requires penumbral rules, canons of interpretation, and other secondary decisional criteria which end up swallowing the apparent simplicity of the rule. 10 2 Specifying the governing law as a simple, bright-line rule may merely conceal the fact that important balancing of social interests, weighing of probabilities, and choosing between competing ends and means lurk in the shadow of the rule. Declaring a legal rule thus appears misleading or even dishonest because it hides the social preferences that animate the decision-maker's conclusion. Under one interpretation, antitrust law provides the perfect illustration for Hart and Wittgenstein's point. In this view, there never have been such things as case-determinative antitrust rules-only standards clad in rule-bound rhetoric. The current march toward standards, then, is not so much a change in liability determinants as a dissipation of the mystery surrounding antitrust's concealed methodology. In a moment, I will dispute this possibility and argue that the specification of antitrust law as rule or standard has very important practical consequences. But first, it is worth acknowledging the extent to which Hart and Wittgenstein's observation rings true in antitrust. A case in point is antitrust law's long-standing per se prohibition against "price fixing." As any antitrust practitioner will recognize, price fixing appears in quotation marks because application of the per se rule depends not on the fact that competitors have literally fixed prices but that the challenged conduct falls within the antitrust category known as "price fixing." The judicial decision often thought to have established the per se rule against price-fixing did not involve price fixing either literally or figuratively but rather a gentleman's agreement by dominant oil producers to buy up distressed oil from small refineries and thereby stabilize the wholesale market. 1 03 The defendants never came close to agreeing on price. Nonetheless, the Supreme Court held that any "combination formed for the purpose and with the effect of raising, depressing, fixing, pegging, or stabilizing the price of a commodity in interstate or foreign commerce" amounts to "price fixing" in the relevant legal sense, whether or not the defendants have actually done the act that a lay person might suppose "price fixing" to be-fixing a price. 1 On the other hand, the Supreme Court has described an act of apparent price fixing by competitors-an agreement on prices for blanket licensing of musical repertoires-as something other than "price fixing" and hence subject to the rule of reason. 0 5 In BMI v. CBS, the Supreme Court rejected textual "literalism" and held that application of the per se rule against price fixing is not as "simplistic" as "determining whether two or more potential competitors have literally 'fixed' a 'price.'" 06 Rather, "[a] s generally used in the antitrust field, 'price fixing' is a shorthand way of describing certain categories of business behavior to which the per se rule has been held applicable."' 0 7 Application of the per se rule turns not on whether the conduct amounts literally to price fixing but on whether the "particular practice is one of those types or that it is 'plainly anticompetitive' and very likely without 'redeeming virtue."" 8 This flexibility in the per se rule invites endless pages of briefing on whether the conduct at issue should be properly characterized as "price fixing" because it unjustifiably tampers with the market mechanism for determining prices or as something else because it can be justified by efficiencies, a standard-favoring way of doing law.'0 9 Hence, Hart explains that rules inevitably dissolve into standards and Wittgentsein explains that rules do not tell us when to apply them.

## AT: CP---No Antitrust

### 2AC---Permutations

### 2AC---Deficits

### IL---Innovation

#### The Qualcomm decision has cooling effect on 5G innovation.

Breed et al. 20, \*Logan M. Breed, antitrust partner in the Washington office of Hogan Lovells; \*Edith Ramirez, former Chairwoman of the Federal Trade Commission; \*Suparna S. Reddy, Associate at Hogan Lovells based in Washington; \*Labeat Rrahmani, an Associate at Hogan Lovells; (August 19th, 2020, “Ninth Circuit rules in favor of Qualcomm, distancing antitrust law from FRAND disputes”, https://www.engage.hoganlovells.com/knowledgeservices/news/ninth-circuit-rules-in-favor-of-qualcomm-distancing-antitrust-law-from-frand-disputes)

The practical effects of the Ninth Circuit’s decision are already emerging: other holders of significant wireless SEP portfolios such as [Nokia](https://www.nokia.com/about-us/news/releases/2020/03/24/nokia-announces-over-3000-5g-patent-declarations/) and [Ericsson](https://www.ericsson.com/en/blog/2019/10/5g-patent-leadership) have already begun to use more aggressive patent strategies related to 5G devices. The decision could also have repercussions beyond the technology sector. Companies litigating against the FTC, including in the pharmaceutical sector, have quickly [availed](https://globalcompetitionreview.com/gcr-usa/federal-trade-commission/vyera-claims-qualcomm-reversal-supports-defence-against-ftc) themselves of the ruling to defend themselves. The ruling may also have a cooling effect on innovation if companies are less inclined to participate in standard-setting processes due to limited repercussions for companies that maneuver around their FRAND obligations. If the panel decision stands, it could have far reaching consequences.

## AT: DA---Tradeoff

### 2AC---UQ

#### The DOJ is already prepared to engage in more antitrust litigation over SEP’s---tradeoffs inevitable.

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.”

#### 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.

### 2AC---AT: Link

#### Two link turns:

#### 1---private action---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. 250 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

#### 2---deterrence---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.

### 2AC---Hybrid Enforcement Turn

#### 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.

## AT: DA---Court Clog

### 2AC---AT: Court Clog DA---TL

**Court clog is fearmongering.**

**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.

**More evidence.**

**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)>

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 basis**° ' combine to outweigh any beneficial effect the argument might have.

### 2AC---Thumpers

#### Court is unpredictable and a multitude of cases thump.

Solomon 21, \*Aron Solomon, the senior digital strategist for NextLevel.com and an adjunct professor at the Desautels Faculty of Management at McGill University in Montreal; (July 26th, 2021, “Coming Supreme Court term could prove historic”, https://www.theday.com/article/20210726/OP03/210729694)

The most important and high-profile case the U.S. Supreme Court will hear in the upcoming 2021-2022 term that begins in October revisits Roe v. Wade. There’s no way to overstate how important Dobbs v. Jackson Women’s Health Organization is, as this case has the potential to fundamentally rewrite the law of the land regarding abortion.

Aside from Dobbs, which I examine in more detail here, there are several other key cases to watch.

In CVS Pharmacy, Inc. v. Doe, HIV-AIDS patients are suing CVS pharmacies that provide them with HIV medication. The issue here is that CVS refuses to sell their medication at their locations within the community, forcing patients to acquire their medication only via mail-order or through specialized CVS locations. The court will decide whether CVS is violating the disability portions of the Affordable Care Act.

In Gallardo v. Marstiller, a 13-year-old living in Florida in 2008 was hit by a truck. After Florida’s Medicaid program paid over $862,000 for her care, they came after the family for $300,000 of the settlement they had won. The Court needs to determine whether under Medicaid law states are allowed to seek reimbursement from legal settlements.

Aside from cases the court has already agreed to hear, given that it is still early, they are expected to agree to hear more. One case that was decided at the state court level recently that might be interesting for the Supreme Court regards Washington state’s limited license to practice law.

Its technical name is the Limited License Legal Technician and the Washington Supreme Court decided in 2020 to “sunset” the program, which allowed non-lawyers to perform some legal tasks. While the program officially ends on the last day of July, there has been word on the legal street of at least one strong upcoming challenge to ending the program. Why the court might be interested in the right case dealing with the LLLT is because ending the program tightens the legal profession’s hold on having only lawyers perform legal tasks in an environment that is re-examining fundamental industry questions, such as who is allowed to own a law firm.

There is one other case that isn’t yet a case but could very well become one fast. The Texas special legislative session legislature this month will deal with several important issues, one of which is antiabortion legislation. What makes the legislation unique, and may make it perfect for review from the highest court in the land, is how bizarre its enforcement mechanism is.

The Texas law is one of approximately 100 new restrictive abortion laws coming in across the country. What makes the Texas law unique is the fact that this heartbeat law won’t be enforced by the state but can be enforced by anyone.

That’s right, anyone.

If you’re picturing roving bands of anti-abortion activists visiting clinics and providers to stop any abortions that violate Texas’ heartbeat law (or any abortion at all) you’re probably on the right track. While this issue is far too early at the moment for Supreme Court review, one could imagine that with the right plaintiff and set of facts as to how the heartbeat bill in Texas is enforced, this could move reasonably quickly up the courts.

Adriana Gonzalez, a civil rights lawyer, points out that any abortion law that essentially invites activists to enforce it has the potential for disaster; “While each one of these state abortion ‘heartbeat laws’ poses its own difficulties, any heartbeat law where the state allows and actually encourages the general public to enforce it is an invitation to violence.“

A final thing to watch between now and October is what Justice Stephen Breyer is going to do. There is a general expectation that he plans to soon resign, and the fact that he has yet to make his decision is concerning to a lot of people who fall ideologically at or to the left of center. The longer Breyer waits to announce his retirement, the lower the percentage chance that President Joe Biden will be able to nominate a replacement who is ideologically aligned.

With a court that has been remarkably unpredictable to date, yet does indeed have a 6-3 conservative majority, any risk of losing one of those three liberal seats is a danger no liberal president or jurist should take lightly.

## AT: DA---Business Confidence

### 2AC---UQ

#### Business confidence low.

#### 1---Delta and tight labor market.

La Monica 10-7-2021, digital correspondent. (Paul R., “America's CEOs are losing confidence in the economy,” CNN Business, <https://www.cnn.com/2021/10/07/investing/ceo-confidence-economy/index.html>)

New York (CNN Business)US business leaders are still upbeat about the economic recovery. But they're not as confident as they were just a few months ago, and they blame the Delta variant and a super tight labor market for the drop in sentiment. The Conference Board, a leading business research think tank, reported Thursday a steep slide in its CEO confidence index for the third quarter. After hitting an all-time high of 82 in the second quarter on hopes that the United States had turned the corner on the pandemic, the index slid to 67 — a nearly 20% dip — in the third quarter. The good news is that a reading above 50 remains a sign of overall optimism. But the downward trend bears watching, especially since US consumer confidence also slumped earlier this summer. Covid-19 worries remain top of mind for America's titans of industry. "CEO confidence is down from the all-time peak reached in Q2, when Covid-19 appeared on the verge of defeat," Dana Peterson, chief economist at the Conference Board, said in a news release. "A summer surge of the highly infectious Delta variant — coupled with slumping vaccination rates — has brought pandemic uncertainty back to the fore." That has tainted the outlook for CEOs. CEOs less upbeat about economy and worried about finding talent The Conference Board, which produced the survey in conjunction with the Business Council, reported that 88% of CEOs surveyed in the second quarter had said they expected overall economic conditions to improve over the next six months. But just 60% of respondents felt that way in the third quarter. What's more, in the third-quarter survey, just 65% of top executives said they anticipated short-term prospects for their own industry would improve. That's down from 81% in the second-quarter results. Job market conditions are another major challenge: 60% of CEOs said they expect to expand headcount, up from 54% in Q2. But open job positions are increasingly difficult to fill. Nearly three-quarters of the CEOs surveyed said in the third quarter that they're having trouble finding quality workers, up from 57% in the previous report.

#### 2---Supply chain disruptions.

Fontdegloria 10-12-2021, (Xavier, “U.S. Small-Business Confidence Slipped in September Amid Severe Supply and Labor Shortages,” *MarketWatch,* https://www.marketwatch.com/story/u-s-small-business-confidence-slipped-in-september-amid-severe-supply-and-labor-shortages-271634033208)

Confidence among small-business owners in the U.S. declined slightly in September as both labor shortages and supply-chain disruptions had a significant impact on the business, according to a survey compiled by the National Federation of Independent Business released Tuesday. The NFIB Small Business Optimism Index fell to 99.1 in September from 100.1 in August, missing the 100.5 reading expected by economists polled by The Wall Street Journal. "Small business owners are doing their best to meet the needs of customers, but are unable to hire workers or receive the needed supplies and inventories," NFIB chief economist Bill Dunkelberg said. The NFIB survey is a monthly snapshot of small businesses in the U.S., which account for nearly half of private sector jobs. Economists look to the report for a read on domestic demand and to extrapolate hiring and wage trends in the broader economy. Three of the 10 components that form the index increased in September, five decreased and two were unchanged. The measure gauging small-business owners' plans to create new jobs in the next three months fell six points, although it remained at historically high levels. Around 51% of the firms surveyed reported job openings they couldn't fill, a record-high reading for the third consecutive month. "Many people are still reluctant to take a job due to Covid-19 risks, especially those more public facing jobs such as restaurants," Mr. Dunkelberg said. Expectations for better business conditions over the next six months continued to deteriorate, falling by five points. "Owners have grown pessimistic about future economic conditions as this indicator has declined 21 points over the past three months to its lowest reading since December 2012," the report said. Plans to make capital outlays and to increase inventories also fell slightly, the data showed. MarketWatch and Barron’s journalists will convene top experts in crypto and other financial pros to identify the opportunities and risks that lie ahead for investors. On the positive side, the percentage of owners expecting higher sales volumes improved by four points, a reversal from the past two months. Respondents have reported inventory shortages for most of the current year, the report said. In September, more than 35% of small-business owners said supply-chain disruptions have had a significant impact on their business, and just 10% reported no impact from the current supply strains. "Supply chains are still in disarray, with ships and containers piling up on the coasts but only slowly being unloaded and distributed to businesses as truck drivers are in short supply," Mr. Dunkelberg said. These shortages are contributing to increases in average selling prices. Almost half of the respondents, or 46%, reported raising selling prices, with wholesale, manufacturing and retail being the sectors where more firms reported higher prices, the report said.

### 2AC---AT: I/L

#### Business confidence is a meaningless indicator. Structural factors are key to predicting the economic trajectory.

Bagrie 18, Managing Director of Bagrie Economics. (August 9, 2018, Cameron, “Business confidence is a hopeless indicator. But that doesn’t mean the economy isn’t in trouble,” *The Spinoff,* https://thespinoff.co.nz/business/09-08-2018/business-confidence-is-bullshit-but-that-doesnt-mean-the-economy-isnt-in-trouble)

The economy is headed for recession if you believe the readings from business confidence. Thankfully we can largely ignore business confidence readings. We can’t ignore other survey measures though that are saying growth has slowed and the official statistics are showing the same. The last three quarterly GDP prints have been 0.6, 0.6 and 0.5% and we only have data up to March 2018. That’s annualised growth in the low 2’s and a dip below 2% now looks likely. We have the potential for a growth pothole. That is becoming a concern as the wheels of the economy need to be turning and tax revenue coming in the door for social agenda demands to be met. A whopping net 45% of firms are pessimistic about the general economy according to the ANZ Business Outlook survey. That’s a level last seen around the global financial crisis. Of course, no one really believes things are that bad. We can’t blame the global scene as other countries would be seeing massive falls in confidence too if that was a key factor. Other countries are not. The New Zealand Institute of Economic Research (NZIER) is showing weak readings for business confidence within their Quarterly Survey of Business Opinion (QSBO) too. The good news is that business confidence is hopeless as an economic indicator. The correlation with economic growth is poor and I largely ignore business confidence readings. Changes in direction can provide some insightful information – whether things are picking up or slowing down, but not the levels. Businesses tend to be more upbeat regarding general confidence about the economy under a blue flag as opposed to a red one. Business confidence averaged minus 18 between 2000 and 2007. The economy (measured by real gross domestic product) grew on average by more than 3.5% per year. Yep, confidence was negative, but growth was positive. So, we ignore business confidence as an economic indicator. This is nothing new. It’s surprising headline business confidence figures receive so much attention. Commentators make the constant mistake of saying the ANZ survey is a business confidence survey. The same applies to the NZIER’s QSBO. They are surveys of business views across an array of key indicators including prospects for growth, hiring, whether firms are planning to invest and experiences with inflation / costs. These indicators matter. Business confidence is one question. The so-called “soft” or “perception” indicators are the hard data of tomorrow. They are estimates and view based but you can’t ignore them. They are well correlated with growth.

## AT: CP---Regulation

### 2AC---Permutations

#### Permutations:

#### 1---do both concurrent enforcement by both antitrust and regulatory agencies solves the tradeoff link.

Varney et al. 20, \*Christine A Varney, Julie A North and Margaret Segall D’Amico are partners, and Molly M Jamison is an associate, at Cravath, Swaine & Moore LLP; (October 22nd, 2020, “Antitrust Remedies in Highly Regulated Industries”, https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-059)

Balancing remedies with regulation

As discussed above, there is a wide range of approaches for merger review between antitrust authorities and specialised regulatory agencies. Given the range of different approaches, it is difficult to make generalisations across either agencies or industries. What is clear is that there are certain strengths and weaknesses to a dual merger review and remedy approach. On the one hand, the dual review system has been criticised for its purported inefficiency and added costs of concurrent reviews by two agencies.[[84]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-007) On the other hand, others have touted the importance of consistent antitrust review[[85]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-006) and the avoidance of agency capture that a dual review system can accomplish. So how should antitrust authorities approach mergers in highly regulated industries? Should Congress do away with dual review and grant exclusive merger review jurisdiction to the DOJ or FTC? Or should the regulatory agencies be responsible for merger review and remedies in their areas of expertise? A review of past practices suggests that there is not a single right answer to these questions. However, in the current landscape there are considerations that could mediate some concerns about inefficiency and cost.

First, coordination between the relevant antitrust authority and regulatory agency can facilitate consistent outcomes and ensure that the appropriate remedies are ordered. The most common critique of having both antitrust and regulatory review of mergers is inefficiency. Having two federal agencies both expend time and resources reviewing mergers and imposing remedies is expensive for both taxpayers and the merging entities, and extends the time required to review transactions. Conflicting decisions – where one agency may approve a transaction while the other challenges it – also add to the risk of inefficiency. Better coordination and cooperation can mediate these concerns to an extent.[[86]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-005) As the American Antitrust Institute identified, increased cooperation should be a ‘high priority’, particularly in industries transitioning from regulated to a more competitive free market.[[87]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-004)

Second, antitrust authorities should continue to use regulatory agencies’ strengths to the fullest extent possible to construct appropriate remedies. Regulatory agencies have expert knowledge of the industry and often have access to far more information on the market than the DOJ or FTC would be able to gather on their own. The DOJ and FTC have to rely on receiving information from parties, competitors and customers in the market. Such information is often limited in scope and time period. By contrast, regulatory agencies, such as the FCC and Federal Reserve, have access to information on the market spanning decades and are better able to access necessary information that can save antitrust authorities time and cost. Moreover, regulatory agencies already have the ability to monitor and oversee industry actors. Reliance on the regulatory agencies’ ability to monitor could resolve the frequent concerns about imposing conduct remedies and the use of long-term consent decrees.[[88]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-003) The ability to impose effective conduct remedies may reduce the DOJ and FTC’s reliance on the one-time fix of a structural remedy and open the possibility of more tailored remedies.[[89]](https://globalcompetitionreview.com/guide/the-guide-merger-remedies/third-edition/article/antitrust-remedies-in-highly-regulated-industries#footnote-002)

#### 2---do the cp---regulations expands the scope of core antitrust laws by increasing prohibitions.

Bradford and Chilton 18 (Anu Bradford, Henry L. Moses Professor of Law and International Organization, Columbia Law School. Adam S. Chilton, Assistant Professor of Law and Walter Mander Research Scholar @ the University of Chicago. “Competition Law Around the World from 1889 to 2010: The Competition Law Index” , Columbia Law School Scholarship Archive Faculty Scholarship, <https://scholarship.law.columbia.edu/cgi/viewcontent.cgi?article=3519&context=faculty_scholarship> , 2018, date accessed 9/5/21)

The Scope Index is the closest to the CLI in that it also measures the law in the books, treating prohibitions as elements that increase the scope (or stringency) of the law and defenses as elements that reduce the scope (or stringency) of the law. Basic categories in the Scope Index and our CLI are also the same, even if somewhat differently labeled. For example, we refer to “anticompetitive agreements” where the Scope Index refers to “restrictive trade practices.”

#### Links to net benefit, sends massive signal.

### 2AC---AT: Contract Law

#### Group the patent and contract law planks, they fail:

#### 1---patent law can’t “regulate”. The federal role in mitigating patent holdup is non-existent aside from antitrust, and no regulatory body exists for patent law.

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>)

B. IMPLIED PREEMPTION DOCTRINE DOES NOT APPLY TO PATENT HOLDUP

Even accepting the idea of implied preemption in the face of substantial regulatory regimes, the case for preempting the antitrust laws in the SSO-patent holdup context has not been made. Put simply, there is no regulatory oversight in the case of SSO-patent holdup. Although the Patent and Trade-mark Office (PTO) regulates patents in the sense of deciding what patents to issue, there is no connection between that role and the patent holdup issue. Indeed, almost every dispute involving a patent—whether patent abuse, infringement, or licensing quarrels—is ordinarily resolved through some form of private litigation or dispute resolution.79

It is of course true that there is a specialized patent court (the Federal Circuit), and that certain doctrines (laches, equitable estoppel, and misuse) have been developed to address “opportunistic behavior” by patentees. But this simply means that there is an independent body of patent law that certain private parties may enforce. The government does not actively police the behavior of patent holders in the way the SEC enforces the securities laws or the states enforce their laws in the state-action context.80 Although the PTO imposes certain duties upon patent applicants,81 it lacks the authority to impose any such similar duties upon patentees participating in a standard-setting process. SSOs impose their own disclosure obligations without any interference or oversight by the PTO. In sum, we think it is a stretch to argue that a competing regulatory scheme governs all of patent law. Many patent law defenses, such as those recognized under 35 U.S.C. § 282, are borrowed from the common law.

#### 2---patent law isn’t intended to forcefully compel patentholders to honor FRAND.

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)

Third, like patent law itself, the eBay test does not provide for any remedy for misconduct by the patentholder. Patent law is neither intended nor designed to compel patentholders to honor their contractual relations. Most of the patent statute is concerned with the standards for patentability, the process of securing patents, and the enforcement of patents, not constraining the actions of patentees.194 Although some patent doctrines, such as inequitable conduct, penalize certain misconduct by a patent applicant committed during the application process, FRAND violations have nothing to do with the patent application process. Instead, the misdeeds happen after the patent has been issued.

#### 3---Targeting---faulting the entire SSO is key to curtail monopolization---targeting individual SEP holders fails.

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)

Antitrust enforcement aimed only at SEP holders is not sufficient to prevent or remedy ex post opportunism. First, as described in Part I, that kind of enforcement must be implemented separately for each patent holder, and for many standards, there are hundreds or even thousands of SEP holders. Second, some of the most common kinds of opportunism are arguably beyond the reach of antitrust claims against SEP holders. 61 Moreover, enforcement aimed at SEP holders is not directed at the basic problem: the failure of the SSOs to take adequate steps to prevent the ex post opportunism that the SSOs’ conduct enabled.

#### 4---Private rights of action beneath antitrust are key---beneath contract law, only implementers have standing---which categorically excludes consumers as plaintiffs.

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.

### 2AC---Deficit---Deterrence

#### Deterrence matters---SEP holders will remain opportunistic absent the threat of antitrust.

Tsilikas 17, \*Haris Tsilikas is an IP and Antitrust Consultant, a Doctoral Candidate and Visiting Research Fellow at the Max Planck Institute for Innovation and Competition, Munich; (2017, Antitrust Enforcement and Standard Essential Patents: Moving beyond the FRAND Commitment”, https://www.jstor.org/stable/pdf/j.ctv941t01.9.pdf?refreqid=excelsior%3A92dc720d1ebc7088811b40032a60f575)

Antitrust could play a meaningful role.165 The most important contribution of antitrust enforcement against abuses of SEPs is its deterrent effect.166 Although patent law reforms or contractual binding of subsequent SEPs-holders to FRAND licensing would provide to victims of hold-up useful defences in court, they do not sufficiently deter abusive assertion of SEPs in the first place. For instance, the contractual binding to FRAND could raise counterclaims of breach of contract or/and contractual performance; however, the opportunistic SEP-holder will, in case it loses on such grounds, be left no worse than with a licence on FRAND terms. In the end, a patent hold-up is indeed precluded, but contractual constraints can do little to prevent opportunistic assertion of SEPs in the first place. The victims still suffer the costs of uncertain and resource-draining litigation; most importantly, the reliability of the standards-setting process might still be at risk.

Antitrust enforcement on the other hand, in imposing tortfeasors positive monetary losses in the form of fines, alters the profit-cost calculus of opportunistic behaviour in the first place; opportunistic assertion of SEPs will come at a cost. Of course, a too-heavy-handed approach could have a chilling effect on legitimate patent assertions against implementers that are reluctant to pay FRAND royalties, thus leading to false positives. Antitrust enforcement should carefully examine the specificities of each case, such as the particular PAE conduct, the relationship between PAEs and practicing entities, the structure of downstream markets.167 More importantly, an economically informed antitrust analysis focusing on the actual and potential anticompetitive effects of opportunistic SEPs assertion should prohibit behaviour that is truly harmful to consumers. Safeguarding the inclusive and efficient character of the standards-setting process is a competition law problem. Informed antitrust analysis could provide adequate responses to opportunistic PAE behaviour and privateering.

### 2AC---Deficit---Extraterritoriality

#### Extraterritorial antitrust application is key:

#### 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.

### 2AC---AT: NB---BizCon

#### The counterplan crushes business confidence across the whole economy.

Bylund 16 – PhD, Assistant Professor of Entrepreneurship and Records-Johnston Professor of Free Enterprise in the School of Entrepreneurship at Oklahoma State University. (Per, "How Government Regulation Makes Us Poorer," Mises Institute, 12/26/16, https://mises.org/blog/how-government-regulation-makes-us-poorer)

This year, Mises Institute Associated Scholar Per Bylund released The Seen, the Unseen, and The Unrealized: How Regulations Affect Our Everyday Lives. We recently spoke with Professor Bylund about his book and how the effects of government regulation are more far-reaching and more damaging than many people realize. MISES INSTITUTE: Why is the concept of the “unseen” so important to understanding the effects of regulation? PER BYLUND: It is essential for understanding regulation, but the “unseen” is actually fundamental for economic understanding and analysis in general. What’s “unseen” is the proper benchmark. We need to consider both what didn’t happen but would have happened. Oftentimes people, including so-called experts, compare apples and oranges by looking at data “before” and “after” an event, for instance, when discussing the effects of raising the minimum wage. So they might say that employment before was similar to after the hike, and then conclude that the change had no effect. But this is wrong, because there are plenty of changes in the economy that took place between the before and after — not only the minimum wage. So in order to figure out the effect of the minimum wage specifically, we must compare the “after” situation with what would have been had there been no minimum wage hike — the unseen. This of course applies to any change in the economy, and not only regulation. Bastiat, in his classic essay on the broken window fallacy, discusses the effects as a boy smashes a window. But in modern state-planned economies, regulation is by far the most common and most destructive change, so that’s where we also find most analysis. As economic analysis is used to assess the effects of regulations before they’re implemented, it’s important to use the proper comparisons — the seen and the unseen, not the seen at different times (before and after). MI: You also employ the concept of “the unrealized.” PB: The unrealized is really my own extension to Bastiat’s famous analysis, and it is intended to redirect our attention from the macro level of the economy to how changes affect individuals — and especially what options they’re presented with. The point of the book is to show that regulating one part of the economy will have effects throughout the economic system, and that this type of artificial restriction will lead to some people being stripped of the choices they otherwise would have. I exemplify this with the sweatshop, which is often argued against using only “the seen.” The working conditions are terrible in a sweatshop, especially compared to our cushy jobs in the West. Ben Powell and others have done great work pointing out that there’s also the unseen in the sense that without the sweatshop those workers would be in even worse shape. In fact, they are very eager to get jobs in the sweatshop because they’re so much better than all other options they have. With the “unrealized,” however, I think we get a more nuanced picture. I argue that the reason the sweatshop workers make a choice between the hard work in a sweatshop, and something that is much worse, is regulation. Had this been a free market, then there would likely have been many businesses offering jobs in sweatshops, and they would probably compete with each other by offering higher pay, better work conditions, and so on. There’s obviously money to be made from running sweatshops, so why don’t more businesses do this? The existence of a sweatshop shows that the market is sufficiently developed to support it: the technology and capital structure, including transportation and supply chains, are obviously there. The economic conditions also speak in favor of sweatshops over toiling in the fields and the other much worse options sweatshop workers are presented with. The workers are more productive in sweatshops. So there’s really no reason why there wouldn’t be competition for their labor by several sweatshops. But, the many options that should be there aren’t. So it’s likely that something is restricting the creation of these other options. Those other businesses that never came to be are the unrealized alternatives, and the argument in the book is that these options would have been available had it not been for regulation. Moreover, those regulations can really be very distant from these workers, since a restriction redirects economic actors to other, and comparatively less valuable, actions. In turn, the regulations have ripple effects — a type of Cantillon effect, you might say — throughout the economy as seen actions replace the unseen, or what should have been. These other things happen instead of what should have happened, if actors had not been arbitrarily restricted by regulations. But, these “other things” are suboptimal and harm people since they’re not what people would have chosen to do in the absence of the regulations. In this sense, a regulation anywhere in the economy causes harm, and this harm primarily affects those with little or no influence over policy or the means to avoid it. So the major harm is on poor people in poor countries, even where regulations appear to be limited to relatively rich people in rich countries.