Promoting Innovation

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I. INTRODUCTION

The economist Joseph Schumpeter recognized two essential facts of modern capitalism: (1) the sudden displacement of the old by the new—a process he eloquently termed “creative destruction”—and (2) the primacy of innovation over incremental improvements in allocative efficiency to long-run economic growth. Examples of creative destruction are easy to come by. In the early 20th century the automobile decimated the blacksmith and carriage-maker trades. More recently, email has upended the economics of the postal service, Craigslist has devastated newspaper classified ads, online shopping has imperiled bricks-and-mortar retail, and the smartphone has relegated

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former mobile handset market leaders, such as Nokia and Blackberry, to
obscurity.

The twin Schumpeterian insights—that innovation is the key to growth
and that creative destruction is a vital source of innovation—are now well
accepted. How these insights should be incorporated into laws regulating
the market place, such as antitrust and intellectual property, is far less clear.
Antitrust minimalists and skeptics tend to equate Schumpeter with laissez
faire. After all, if even the most entrenched market behemoths are vulnerable
to seismic shifts in technology, are not all supposed monopolies merely
fleeting?

We disagree. This view misreads Schumpeter and misunderstands
markets and business strategy. Modern businesses are well aware of the threat
doing their utmost to prevent
future waves of creative destruction from threatening the status quo. We
propose thinking of creative destruction and competition policy as a two-stage
process rather than a single event where the victor enjoys the spoils of
innovation indefinitely without legal constraints. Instead, competition law as
we currently understand it would remain in place while being somewhat more
forgiving as to the acquisition of market power, yet still vigilant in policing the
maintenance of such power. We focus on historical, current, and hypothetical
temporary examples from US and EU competition and intellectual property law to show
how contemporary law has already incorporated many of these insights and
how the law can maximize consumer welfare by doing so more thoroughly.
Under such a two-step approach, some areas of antitrust and IP law would
expand, some would contract, but all areas of the law would more clearly
promote innovation and help create real Schumpeterian antitrust.

This Essay proceeds as follows. We briefly introduce the concept of
creative destruction and its place in Schumpeter’s work in Part II. In Part III
we explain why a truly Schumpeterian competition policy demands more than

2. See Herbert Hovenkamp, Competition for Innovation 5 (U. of Iowa Legal Studies, Working
see also Joseph F. Brodley, The Economic Goals of Antitrust: Efficiency, Consumer Welfare, and Technological
Progress, 62 N.Y.U. L. REV. 1020 (1987); Robert M. Solow, Technical Change and the Aggregate Production
Function, 39 REV. ECON. STAT. 312 (1957); Tim Wu, Taking Innovation Seriously: Antitrust Enforcement If
Innovation Mattered Most, 78 ANTITRUST L.J. 313 (2012).

3. See, e.g., Alan Devlin, Antitrust as Regulation, 49 SAN DIEGO L. REV. 823, 844 (2012);
Thomas J. Horton, The Coming Extinction of Homo Economicus and the Eclipse of the Chicago School of
Antitrust: Applying Evolutionary Biology to Structural and Behavioral Antitrust Analyses, 42 LOY. U.
CHI. L.J. 499, 479–81 (2011); Timothy K. Kuhner, Consumer Sovereignty Triumps Popular Sovereignty:
The Economic Explanation for Arizona Free Enterprise v. Bennett, 46 IND. L. REV. 605, 637 (2013);
Arthur M. Diamond, Jr., Creative Destruction: The Essential Fact About Capitalism 31 (June 6, 2007)
CreativeDestructionEssentialFact06.pdf.

news/briefing/21635077-online-businesses-can-grow-very-large-very-fast-what-makes-them-exciting
does-it-also-make.
a *laissez faire* approach. We explain why the law must preserve opportunities and incentives for creative destruction at all stages of innovation and we review four key policy areas of antitrust law from this innovation-focused perspective: unilateral conduct cases (Part III.A), cases at the intersection of IP and antitrust (Part III.B), Sherman Act section 1 cases (Part III.C), and merger policy (Part III.D). In Part IV we turn our attention to how the federal antitrust agencies can prioritize innovation through case selection and competition advocacy.

II. **SCHUMPETER AND CREATIVE DESTRUCTION**

Joseph Schumpeter was one of the most prominent economists of the 20th century. Born in Austria, he began his professional career as an economist with a series of economic histories of European industry and a prolific outpouring of other theoretical work. He briefly served as Minister of Finance in the 1919 Austrian government. In 1932, Schumpeter left Europe and joined the faculty of Harvard University, continuing his long and fruitful career until his death in 1950.

He is best known for his 1947 work *Capitalism Socialism and Democracy*. Schumpeter famously wrote:

The fundamental impulse that sets and keeps the capitalist engine in motion comes from the new consumers’ goods, the new method of production or transportation, the new markets, the new forms of industrial organization that capitalist enterprise creates . . . . The opening up of new markets, foreign or domestic, and the organizational development from the craft shop and factory to such concerns as U.S. Steel illustrate the same process of industrial mutation—if I may use the biological term—that incessantly revolutionizes the economic structure *from within*, incessantly destroying the old one, incessantly creating a new one. This process of Creative Destruction is the essential fact about capitalism . . . . In other words, the problem that is usually being visualized is how capitalism administers existing structure, whereas the relevant problem is how it creates and destroys them . . . . But in capitalist reality as distinguished from its textbook picture, it is not [price competition] which counts but the competition from the new commodity. The new technology, the new source of supply, the new type of organization . . . —competition which commands a decisive cost or quality advantages and which strikes not at the margins of the

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6. SCHUMPETER, supra note 1, at 97–98.
7. Id. at 206.
profits and the outputs of the existing firms but at their foundations and their very lives.8

Schumpeter coined the phrase “creative destruction” to describe the nature of competition and innovation in the 19th and 20th century markets he studied. He argued that the process of creative destruction typically involved a powerful incumbent firm being overwhelmed by new forms of innovation that radically changed the nature of competition. Later waves of creative destruction would eventually overwhelm those newly successful firms. This cycle would continue indefinitely.

Schumpeter saw that creative destruction was essential to capitalism itself. Creative destruction was a far more significant source of economic growth than the incremental improvements to resource allocation under price competition within markets. More controversially, he argued that a substantial degree of size and monopoly power was conducive to innovation. In Schumpeter’s view, the prospect of market dominance was a powerful incentive and dominance itself provided the resources for investment in further innovation.9 Thus, Schumpeter argued that people should not automatically fear or condemn size and monopoly because these attributes were necessary conditions and incentives for the type of creative destruction that was a natural attribute of capitalism.10

Over the past 60 years, scholars have debated whether Schumpeter was correct descriptively or normatively and whether competition or monopoly is better suited to the promotion of innovation. Most prominently, Nobel Laureate Kenneth Arrow argued that competitive markets were a more reliable generator of innovation than those characterized by substantial monopoly power.11 The Schumpeter–Arrow debate has generated a vast literature on the nature of innovation and the role of competition and market power.12 But it is a debate we intend to circumvent on the grounds that the answer is probably contingent on particular industry characteristics and the precise degree of industry concentration at issue.13

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8. Id. at 83–84 (emphasis in original) (footnotes omitted).
9. See generally id. at 84.
10. Id.
12. There are also numerous other ways of conceiving of the process of innovation and the best ways to promote it. See CLAYTON M. CHRISTENSEN, THE INNOVATOR’S DILEMMA: THE REVOLUTIONARY BOOK THAT WILL CHANGE THE WAY YOU DO BUSINESS 15–26 (2003) (discussing how “disruptive technology” can harm, rather than help, existing businesses); Michael E. Porter, The Competitive Advantage of Nations, HARV. BUS. REV., March 1990, at 73, 75 (discussing how information plays a large role in the process of innovation).
13. For the general argument that there is an inverted U-shaped relationship between industry concentration and innovation, see Philippe Aghion, Nick Bloom, Richard Blundel, Rachel Griffith & Peter Howitt, Competition and Innovation, an Inverted U-Relationship, 120 Q.J. ECON. 701 (2005); and Phillippe Aghion, Ufuk Akcigit & Peter Howitt, What Do We Learn from
There are literally hundreds of definitions for innovation. Schumpeter used one geared to new processes and products in his discussion of creative destruction set forth above. The Oslo manual of the OECD defines innovation as “the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organisational method in business practices, workplace organisation or external relations.” For the purposes of designing and enforcing competition law, we think a straight-forward definition is that innovation is “any change in the status quo that (i) allows one to do something one could not do before or (ii) allows one to do something already possible while using fewer resources than were required before.”

Assuming, as Schumpeter argued, that dominance is vulnerable to creative destruction and that dominant firms are motivated to continue to innovate because of the threat of creative destruction, what then is the role for competition law seeking to promote innovation? This Essay focuses on how to set priorities for competition law and policy to promote innovation by seeking to bar dominant firms from engaging in the types of behavior that are most likely to prevent future waves of creative destruction from threatening their dominance. Such strategies can prevent the next big idea from succeeding, limit the disciplining effect of later innovation, and allow a dominant firm to abuse its power to the detriment of society.

While there is a tendency to equate a love for Schumpeter with an equal passion for a laissez faire legal system, that would be a mistake. First, this is not a fair reading of Schumpeter’s own work. The bulk of his writings consisted of historical analysis of economic thought and market behavior in the various industries and economic cycles that he studied. He typically avoided prescribing economic or legal programs for governments. He was

14. SCHUMPETER, supra note 1, at 83–84.
18. MCGRNW, supra note 5, at 179.
not always opposed to state intervention in the economy, but was most
concerned about the importance of innovation and avoiding reflexive attacks
on big business. Schumpeter’s views evolved over time. Despite his general
support for big business, there were times he was critical of monopoly,
opposed governmental entry barriers, and found inequality of opportunity
unacceptable. Second, although the force of creative destruction may be
irresistible over the long run, incumbent firms can suppress disruptive
innovation that threaten their profits in the near future. Schumpeter
recognized this:

[T]here are means available to the successful entrepreneur—
patents, ‘strategy’, and so on—for prolonging the life of his
monopolistic or quasi-monopolistic position and for rendering it
more difficult for competitors to close up on him.19

Our evolving experience over more than century of antitrust and
competition laws in the United States, and more than half a century in the
European Union, has shown the wisdom of leaving room for innovation but
continuing to address concerted and individual attempts to block innovation
from rivals.

III. REAL SCHUMPETERIAN ANTITRUST

If laissez faire is not the answer, what is? A growing body of commentators
seek to identify a vision for competition policy that rewards innovation,
innovators, and entrepreneurs but which does not allow successful firms to
block subsequent innovation that may threaten them in the future. Jonathan
Baker, Tim Wu, and Herbert Hovenkamp among others have written
elocuently in this vein.20

The key for competition law purposes is to look at the process of
innovation and creative destruction as a two-stage sequence rather than a
single-stage operation. Taking Schumpeter seriously means designing a legal
and regulatory system which maximizes the incentives and opportunities for
innovation by challengers to displace incumbents while minimizing the
incentives and opportunities for incumbents to engage in exclusionary
conduct that degrades the opportunities and incentives for future
challengers. This is particularly important given incumbents’ tendency to

19. JOSEPH A. SCHUMPETER, HISTORY OF ECONOMIC ANALYSIS 897–98 (Elizabeth Boody
Schumpeter ed., 1954); see also JOSEPH A. SCHUMPETER, BUSINESS CYCLES: A THEORETICAL,
HISTORICAL, AND STATISTICAL ANALYSIS OF THE CAPITALIST PROCESS 67 (1964) (explaining how a
monopolist can avoid future creative destruction).
20. See generally TIM WU, THE MASTER SWITCH: THE RISE AND FALL OF INFORMATION EMPIRES
(2011); Jonathan B. Baker, Beyond Schumpeter vs. Arrow: How Antitrust Fosters Innovation, 74
ANTITRUST L.J. 575 (2007); Tim Wu, Taking Innovation Seriously: Antitrust Enforcement If Innovation
Mattered Most, 78 ANTITRUST L.J. 313 (2012); Herbert J. Hovenkamp, Schumpeterian Competition
exploit their current advantages or engage in limited evolutionary innovations to maintain that advantage as opposed to the challenger’s tendency to seek revolutionary changes that upend the incumbents.\(^{21}\)

Maintaining openness and opportunity at both stages of the game should permit entrepreneurs and innovators to flourish. It will also create appropriate rewards and incentives for both incumbents and innovators while still maximizing societal benefit. As Professor Waller wrote:

> While Judge Learned Hand was undoubtedly correct when he wrote in *United States v. Aluminum Co. of America* that “[t]he successful competitor, having been urged to compete, must not be turned upon when he wins,” it is equally important that we do not allow the current frontrunner in a race to declare permanent victory at the moment of his choosing.\(^{22}\)

Adding this innovation lens to competition policy will not affect all facets of competition law. It primarily, but not exclusively, will affect unilateral conduct cases. However, it does suggest a new way to look at certain concerted action and merger cases. It may require somewhat more leniency in attempted monopolization cases but it definitely will demand continued vigilance in monopoly maintenance cases and other competition cases in which future innovation is threatened. An innovation-based competition law may also require a careful coordination of competition policy with sectorial regulation, intellectual property law, access to infrastructure, and other non-competition areas of the law.\(^{23}\)

Finally, there are good reasons to maintain antitrust enforcement in other areas of the law which have nothing to do with innovation. Hard-core cartels and mergers are likely to raise prices or decrease output harm consumers regardless of their effect on innovation. But taking Schumpeter seriously does mean prioritizing innovation while shifting focus from collusion to exclusion.\(^{24}\)

### A. INNOVATION AND UNILATERAL CONDUCT CASES

The Schumpeterian prescription for antitrust law is far from simple. Schumpeter convincingly argued that innovation is the key to long-run economic growth and that innovation is closer to a process of punctuated equilibrium than to steady incrementalism. Antitrust law should promote creative destruction by reducing artificial barriers to entry wherever possible.

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However, this does not translate to a reflexive preference for the outsider at the expense of current market leaders. In the language of our two-stage analysis, Schumpeter convincingly argued the prospect of dominance at Stage II is the very thing that encourages investment at Stage I.\textsuperscript{25} Schumpeter further reasoned that dominant firms could be an important source of innovation in light of their greater resources as long as they were motivated by a fear of creative destruction.

United States antitrust law appears to have absorbed these insights and is quite solicitous of innovation by dominant firms, but not to the point of permitting transparent attempts to extinguish new sources of creative destruction in Stage II. The 2004 Supreme Court decision in \textit{Trinko} clearly illustrates the Court’s appreciation of the links between success in Stage II and added incentive in Stage I. In \textit{Trinko}, the Court dismissed a private class action complaint alleging that the incumbent phone company had deliberately interfered with competitor’s access to both new and existing customers.\textsuperscript{26} The Court noted that to the extent that interconnection was mandated by the Telecommunications Act of 1996, the plaintiffs would be limited to whatever remedies were provided by that regulatory scheme. The Court also questioned the applicability of the essential facilities doctrine as granting any additional antitrust rights or remedies where access was part of such a regulatory scheme.\textsuperscript{27} Writing on behalf of the Court, Justice Scalia stated in classic Schumpeterian terms:

\textit{The mere possession of monopoly power, and the concomitant charging of monopoly prices, is not only not unlawful; it is an important element of the free-market system. The opportunity to charge monopoly prices—at least for a short period—is what attracts “business acumen” in the first place; it induces risk taking that produces innovation and economic growth. To safeguard the incentive to innovate, the possession of monopoly power will not be found unlawful unless it is accompanied by an element of anticompetitive conduct.}\textsuperscript{28}

The Court thus adopted one of Schumpeter’s central premises: punishing large successful firms reduces the incentives for all firms and their willingness to take risks.

Classic Sherman Act section 2 cases, such as \textit{Lorain Journal v. U.S.}, \textit{MCI v. AT&T} and \textit{U.S. v. Microsoft}, all tell coherent Schumpeterian stories about incumbents who were attacked not for how they achieved their dominance but rather how they sought to quash or delay later innovation which

\textsuperscript{25} Schumpeter, supra note 1, at 102.


\textsuperscript{27} Id. at 410–11.

\textsuperscript{28} Id. at 407.
threatened that dominance. These cases present a vision of antitrust law that goes well beyond laissez faire, and for good reason.

In Lorain Journal, an incumbent newspaper was dominant in both advertising and readership in Lorain County, Ohio. This dominance was threatened by the entrance of a new radio station whose listening area overlapped with most of the readership of the defendant newspaper. To combat the rise of this form of new media, the newspaper informed advertisers that they could no longer advertise in the paper if they also advertised on the radio station. This tactic was successful since many advertisers still needed the newspaper to reach the bulk of their customers with print ads for grocery stores, car dealerships, department stores and the like. While this case is universally beloved for different reasons by nearly all antitrust scholars of every ideological persuasion, it also suggests why Schumpeterian antitrust can be one of vigilance, rather than laxness, even in the area of unilateral conduct.

A similar dynamic premises virtually the entire regulatory and antitrust saga of the break-up of the Bell system. The FCC forced the old Bell System to allow the connection of innovative equipment such as the Carter Hush-a-Phone, and eventually a plethora of differently designed and functional handsets produced by outside vendors. It was the private treble damage litigation brought by MCI which effectively put an end to AT&T’s refusal to interconnect its local loop with MCI’s microwave long distance service. And finally, it was the Justice Department’s monopolization case and eventual consent decree which resulted in the divestiture and structural separation of the Bell System into regional regulated common carriers for local phone service and unregulated long distance providers and equipment makers to remove the incentives to interfere with the innovative services and products of competitors.

The long-running Microsoft antitrust litigation also reflects the Schumpeterian tolerance for the creation of monopoly but not its abuse. The government’s case against Microsoft and the D.C. Circuit’s 2001 Microsoft opinion illustrate the type of Schumpeterian antitrust policy currently in

31. Id. at 147–49.
32. Id. at 148.
33. Id. at 148–49.
36. MCI Commc’ns Corp. v. Am. Tel. & Tel. Co., 708 F.2d 1081, 1148–50 (7th Cir. 1983).
vogue in the United States. The Department of Justice made no effort to challenge Microsoft’s acquisition of monopoly power in the market for personal computer operating systems. Both this broad monopolization and the earlier, more narrowly focused government cases were focused on monopoly maintenance claims. The D.C. Circuit even went out of its way to praise Microsoft, noting: “It is certainly true that Windows may have gained its initial dominance in the operating system market competitively—through superior foresight or quality.” It is equally likely that Microsoft achieved market power because of the combined effect of IBM’s decision to get out of the software business and choice to sell its DOS program to Bill Gates’ fledging company, as well as the rise of the ubiquitous IBM clone running first MS-DOS and later Windows. However, neither the “right place right time” story, nor the superior skill story, raise cause for concern under the current stance of competition law toward innovation and creative destruction.

The government’s case focused instead on Microsoft’s reaction to the threat of creative destruction posed by the Netscape internet browser and the Java software platform. These innovations threatened to overturn the status quo in the software industry in which an application program had to be written for a particular operating system (“OS”). Both Netscape and Java had the potential to disrupt and eventually destroy Microsoft’s OS dominance by providing an alternative software platform that would enable application software to run on any OS or potentially without a full function OS at all.

The government did not take issue with Microsoft’s acquisition of a dominant position or the fact that network effects reinforced its dominance. Instead, the government’s section 2 case focused on Microsoft’s effort to maintain its dominance in operating systems, fend off highly disruptive innovations, and exclude nascent rivals from the market.

The government prevailed in U.S. v. Microsoft in the district court on most of its theories of unlawful monopoly maintenance and obtained both structural and behavioral relief as a remedy. The Supreme Court declined

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40. Microsoft Corp., 253 F.3d at 56.
41. Id.
43. Microsoft Corp., 253 F.3d at 47, 74.
44. Id. at 50, 74.
45. See generally Complaint, supra note 39, at 1–13.
to hear the direct appeal under the Expediting Act, and the D.C. Circuit heard the case en banc. The Court of Appeals issued a nuanced unanimous per curiam opinion affirming most, but not all, of the government’s claims and reversing the grant of structural relief.47 The issue of innovation was front and center in the discussion of both unlawful conduct and remedy. The opinion reflects a balanced Schumpeterian view in three ways.

First, the court gave great deference to product design decisions and came close to granting per se legality to such decisions (and the bundling allegations involved) in order to allow defendants to innovate in the dynamic software industry.48 Similarly, the court tortured existing tying doctrine and carved out a new rule-of-reason test for software tying. The court refused to second guess what constituted separate products being unlawfully tied together by a dominant firm and what constituted new features of existing products that would serve the needs of consumers and promote innovation.49

Second, Microsoft illustrates that there are limits to dominant firm behavior in Stage II when it comes to unjustified acts of exclusion. Even with this innovation lens, the court found that numerous acts and practices of Microsoft violated section 2 of the Sherman Act. For example, the court affirmed the trial court’s decision that Microsoft violated the Sherman Act when it deliberately intermingled the computer code for the operating system and the web browser in such a way that the computer functioned below par if users operated any web browser other than Microsoft’s Internet Explorer.50 In addition, users could not remove Internet Explorer from the hardware without crippling the entire OS. All these were illegal since Microsoft could offer no procompetitive business justification and all evidence pointed to the only explanation as a long-term scheme to prevent current or future competitive threats from gaining traction in the market.

Similarly, Microsoft distributed and promoted its own version of Java software to application developers.51 Despite promising that the Microsoft type of Java was “pure” and would run on any operating system or software platform, the Microsoft Java was polluted and would only function in conjunction with a Microsoft Windows operating system.52 In the absence of any non-exclusionary justification, the court condemned this as illegal

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47. See generally Microsoft Corp., 253 F.3d 34.
48. Id. at 65 (“[C]ourts are properly very skeptical about claims that competition has been harmed by a dominant firm’s product design changes. . . . Judicial deference to product innovation, however, does not mean that a monopolist’s product design decisions are per se lawful.” (citations omitted)).
49. See id. at 84–97.
50. See generally id. at 67.
51. Id. at 74–78.
52. Id.
monopoly maintenance because it harmed, rather than helped, the innovation process.\textsuperscript{53}

Third, regardless of what the rule-of-reason case law says about balancing procompetitive and anticompetitive effects, the court did not engage in such balancing. Instead, it deferred to the incumbent’s non-pretextual claims of innovation. This pattern repeats throughout the opinion. The court used a rule-of-reason type methodology to require proof of exclusionary effect whether the specific tactic was a form of exclusive dealing, deceptive conduct, or other behavior.\textsuperscript{54} If the government failed to show such exclusionary effect, it lost. If the government established such anticompetitive harm the court only then required the defendant to establish some legitimate procompetitive justification. Where it did so it prevailed,\textsuperscript{55} where it failed it was found to have engaged in unlawful monopoly maintenance.\textsuperscript{56} The court never actually balanced the pro- and anticompetitive effects, as called for in the normal rule of reason and the D.C. court’s own test laid out in the opinion.\textsuperscript{57} Nor did the court allow the government to seek liability based on the cumulative effect of each act, but rather required a separate consideration of each alleged violation on its own merits.

The Microsoft case illustrates antitrust’s deferential approach to innovation by dominant defendants. However, that deference is by no means a free pass for conduct aimed at strangling potential sources of creative destruction in their infancy. The D.C. Circuit reversed liability on bundling and tying theories. Microsoft lost each count where the evidence showed that it had interfered with the innovative efforts of others.\textsuperscript{58} In contrast, when Microsoft showed some legally and factually plausible claim that its conduct represented its own innovation for the benefit of its customers, and not just a scheme to protect itself from the next wave of innovation, it won.\textsuperscript{59}

Current U.S. enforcement policy regarding unilateral conduct is also broadly consistent with the Schumpeterian focus on innovation. Most of the important cases and investigations have not attacked innovation by a challenger in Stage I but have emphasized attacking conduct by dominant firms to maintain their dominance and interfere with later waves of innovation by new challengers. Three important developments emphasize the growing importance of innovation in the section 2 context. First, the

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\textsuperscript{53} Id. at 76–78.

\textsuperscript{54} See generally id. at 58–59.

\textsuperscript{55} See, e.g., id. at 67, 71, 74, 76–78.

\textsuperscript{56} See, e.g., id. at 63.


\textsuperscript{58} See, e.g., Microsoft Corp., 253 F.3d at 67, 71, 74, 76–78.

\textsuperscript{59} See, e.g., id. at 63.
government has abandoned (once common) criminal enforcement in section 2 cases.\textsuperscript{60} Second, the scope and invocation of attempted monopolization has been substantially reduced.\textsuperscript{61} Finally, agency guidelines now focus explicitly on innovation as grounds for enforcing or refraining from enforcement, depending on the circumstances of the case.\textsuperscript{62}

\section*{B. IP, ANTITRUST, AND SCHUMPETER}

The intersection of IP and antitrust is often seen as a point of tension. IP rights, so the story goes, offer incentives for innovation and thus promote dynamic efficiency. On the other hand, antitrust law concerns itself with static efficiency and consumer welfare.\textsuperscript{63} Herbert Hovenkamp, however, argues that the patent-antitrust conflict may be “readily exaggerated.”\textsuperscript{64} Hovenkamp suggests that there are, in fact, only “a small number of cases in which both a plausible antitrust claim and a countervailing IP policy are present.”\textsuperscript{65} Many of the apparent conflicts vanish once it is understood that IP rights—although they create exclusive rights sometimes termed monopolies—do not automatically create the kind of market power that raises competition law concerns. This is particularly the case when the competition related doctrines internal to IP law are properly implemented.\textsuperscript{66}

The scope of genuine conflicts also recedes once pre-textual arguments that IP rights provide businesses with a cloak of invincibility for anti-competitive practices are rejected. There is no IP justification for making a false claim of patent infringement, thus \textit{Walker Process} claims present no conflict between the goals of IP and antitrust law.\textsuperscript{67} Likewise, IP rights might be the reason for deceiving a standards-setting organization or trying to

\begin{thebibliography}{9}
\item \textsuperscript{60} See \textit{Spencer Weber Waller}, \textit{Thurman Arnold: A Biography} 91–105 (2005) (describing aggressive use of criminal monopolization in the 1940s).
\item \textsuperscript{63} See \textit{SCM Corp. v. Xerox Corp.}, 645 F.2d 1195, 1203 (2d Cir. 1981) (“While the antitrust laws proscribe unreasonable restraints of competition, the patent laws reward the inventor with a temporary monopoly that insulates him from competitive exploitation of his patented art.”).
\item \textsuperscript{64} Herbert Hovenkamp, \textit{Restraints on Innovation}, 29 CARDOZO L. REV. 247, 247 (2007); see also Mark A. Lemley, \textit{Industry-Specific Antitrust Policy for Innovation}, 2011 COLUM. BUS. L. REV. 657, 657 (“The premise that intellectual property law promotes dynamic efficiency while antitrust law concentrates on static welfare is wrong, or at least oversimplified.”).
\item \textsuperscript{65} Hovenkamp, supra note 64, at 248.
\item \textsuperscript{66} Ariel Katz & Paul-Erik Veel, \textit{Beyond Refusal to Deal: A Cross-Atlantic View of Copyright, Competition, and Innovation Policies}, 79 ANTITRUST L.J. 139, 142 (2013).
\item \textsuperscript{67} \textit{Walker Process Equip., Inc. v. Food Mach. & Chem. Corp.}, 382 U.S. 172, 174 (1965) (”[T]he enforcement of a patent procured by fraud on the Patent Office may be violative of [section] 2 of the Sherman Act provided the other elements necessary to a [section] 2 case are present.”).
\end{thebibliography}
dishonor a FRAND licensing commitment, but they cannot seriously be taken as a justification for such conduct.

Nor are IP settlements immune from antitrust review. The U.S. Supreme Court’s recent decision in Federal Trade Commission (“FTC”) v. Actavis Inc., instructs lower courts to apply the rule of reason to reverse-payment settlements—payments from brand-name drug manufacturers to generic drug manufacturers to delay competition. The Actavis court recognized that such payments can have significant anticompetitive effects, show market power, and be a surrogate for a patent’s weakness.68

However, even if the set of conflicts at the intersection of IP and antitrust is narrower than first conceived, it still exists in relation to essential facilities and similar related claims. In this respect, the European Union has been far more active than the U.S. The European Court of Justice (ECJ) has held that the existence of intellectual property rights is not a competition law issue but their exercise may be.69 The ECJ may require compulsory licensing under “exceptional circumstances” and has granted access to intellectual property under the EU version of the essential facilities doctrine.70

The ECJ has used these principles to address competition issues that have arisen as a result of overly broad national intellectual property rights. In the Magill case, the ECJ used competition law to compel access to lists of television programming so that a non-broadcaster could enter the market and publish a TV Guide-type publication with listings for all networks in a single integrated format. Such programming information would not be copyrightable subject matter in the U.S.,71 but in Europe, competition law intervention was required to allow third parties to offer novel program information products resisted by the incumbents.72 This is a result consistent with a Schumpeterian, innovation-centered, competition policy. A Schumpeterian competition policy also might have condoned an otherwise problematic joint venture by the incumbents to offer the same type of new integrated program guide.73

The Magill court’s formulation for abuse of a dominant position required that a refusal to license prevented the appearance of a new product for which

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73. See Broad. Music, Inc. v. Columbia Broad. Sys., Inc., 441 U.S. 1, 24 (1979) (holding blanket licensing did not constitute per se illegality when the licenses themselves were the new product being sold).
there was customer demand, that such refusal was not objectively justified, and that the refusal reserved to the right holder a “secondary market” (In this case, the programming guide).

The 2005 IMS Health case blurs the last element, holding that the introduction of a new product or service is not necessary, but, that mere price competition is not enough. The test is still fundamentally about innovation, but it is unclear exactly what counts as innovation.74 More recently, the Court of First Instance decision in Microsoft further muddled the waters by again diluting the standard for the EU essential facilities doctrine without a clear ruling on whether the new entrant was seeking to bring new and innovative services to the market.75 While there are other reasons that explain the more robust version of the EU essential facilities doctrine, it has its greatest legitimacy when it links access to infrastructure to the needs of downstream innovation.76 A more explicitly Schumpeterian focus could help clarify the application of the essential facility doctrine to IP in Europe.77

C. SHERMAN ACT SECTION 1 AND INNOVATION

Section 1 of the Sherman Act deals with anticompetitive agreements rather than unilateral behavior. Much of section 1 enforcement involves non-Schumpeterian matters such as traditional hard-core cartels, that are per se unreasonable, as well as other less suspect agreements which are analyzed more deeply on a case-by-case basis under the rule of reason. Nonetheless, section 1 enforcement is an important tool when groups of erstwhile competitors conspire to fend off disruptive innovation.

One of the best historical examples of an agreement between competitors challenged because of its effects on innovation is Allied Sheet & Tube v. Indian Head. Manufacturers of steel conduit used to house wiring in buildings and homes confronted a competitive challenge from newer forms of conduit made from plastic.78 The plastic conduit was cheaper, lighter, and more flexible. The incumbent steel conduit manufacturers banded together to deny the plastic conduit certification at the next drafting and voting cycle of the industry building and fire codes. The steel conduit companies simply packed the relevant meetings with friends and family who narrowly defeated an initiative to change the existing codes to allow the use of plastic conduit.79 Because these private codes were routinely adopted verbatim into law for state and local governments, they effectively barred plastic conduit from the market. While complicated issues, including the application of the Noerr-
Pennington doctrine to the eventual adoption of the private codes by
government occupied much of the Court’s opinion,\textsuperscript{80} the Court clearly
prohibited the combined use of public and private entry barriers to stymie an
innovative product from reaching the market.\textsuperscript{81}

The Apple E-Books case, now on appeal, is a more recent case presenting
a Schumpeterian model for antitrust enforcement.\textsuperscript{82} The E-Books case was a
successful civil per se section 1 case by the Antitrust Division against major
book publishers and Apple. The government’s theory, which prevailed at trial,
was that in connection with the launch of its iPad tablet computer, Apple
facilitated a horizontal conspiracy by the book publishers regarding both the
method used to price e-books and the amount charged for such books.\textsuperscript{83}

Amazon was the first mover in the e-books market with the 2007 launch
of its Kindle e-book reader. By 2009, Amazon had a 90\% market share in e-
books and an equally strong position in e-book readers.\textsuperscript{84} Amazon had
traditionally purchased e-books at wholesale from the publishers.\textsuperscript{85} To build
demand for e-books, Amazon routinely priced e-books at $9.99 or less, a
figure well below the prevailing hardback and paperback prices in most
cases.\textsuperscript{86} This pricing did not affect the wholesale price Amazon paid to the
publishers—they still made a profit on each e-book “sold” to Amazon—but
Amazon lost money on most e-books as part of a strategy to build demand for
the e-book format and it made profits on the e-reader devices it sold.\textsuperscript{87}

Under this model, e-books flourished while traditional books declined.
While the Amazon wholesale model was profitable for the book publishers,
without the future terrified them. E-books threatened to destroy the
traditional model of the book industry, which normally published best sellers
and prestige titles first in hard cover at $30 or more. It also had the potential
to upend the trade and mass-market paperback formats, which were sold at
decreasing price points. E-books would destroy this crude form of price
discrimination if consumers abandoned hardcover books for the new
medium, especially if Amazon used its growing dominance to eventually force
down the wholesale price of e-books.

In response to this threat to the status quo, five major publishers agreed
collectively, with the coordination of Apple, to switch to an agency model
where the publishers would set the retail price of e-books and provide Apple

\textsuperscript{80} Id. at 504.
\textsuperscript{81} Id. at 509–10. For another example of the misuse of standards to block innovative new
docketed, Nos. 13-3741(L), 13-3857(CON), 14-60, 14-61 (2d Cir. Dec. 15, 2014).
\textsuperscript{83} Id. at 648.
\textsuperscript{84} Id. at 670.
\textsuperscript{86} Id.
\textsuperscript{87} Id. at 251–52.
with a 30% commission for each e-book sold. The publishers further collectively refused to do business with Amazon under the old wholesale price model until Amazon switched to an agency-pricing model as well. Not surprisingly, once Apple began selling e-books and Amazon agreed to the publishers’ demands, the price of e-books increased. The government settled with all the publishers and went to trial against Apple. The court held that the horizontal agreement by the publishers facilitated by Apple was unlawful per se, imposed various types of injunctive relief, and appointed an outside monitor to ensure compliance. The case is now on appeal.

The case is unusual and surprising from a number of perspectives. Some commentators have criticized the government’s failure to challenge Amazon’s dominance in the e-books market, which they see as provoking the publishers into defensive price-fixing. A handful of commentators have even sought to portray the publishers and Apple as the true innovators being unfairly penalized by antitrust constraints.

None of these critiques hold up in a two-stage Schumpeterian analysis of innovation. First, it was Amazon who was the initial and successful innovator in the e-books market. If Amazon has separately monopolized the market for e-book readers or e-books through unlawful conduct, or unlawfully sought to prevent subsequent waves of innovation from threatening that dominance, the government has the tools of section 2 of the Sherman Act to deal with those issues in a way that does not limit Amazon from continuing to innovate in the e-books space.

While Apple’s iPad is innovative, the horizontal e-book price and distribution agreement by the publishers and Apple is not really innovation at all. Rather it is merely the offering of an existing product (e-books) at a higher price through an existing non-innovative pricing formula (agency pricing). As Christopher Sagers noted: “[I]t is hard to imagine an efficiency enhancing rationale for a horizontal agreement that does literally nothing other than raise retail prices.” Moreover, the government’s decision not to bring criminal charges against Apple or the publishers reflects a certain leniency that may well have been motivated by recognition of the need not to squelch Apple’s innovation in hardware.

89. *Id.* at 670–73, 679–82.
90. *Id.* at 682.
91. See supra note 82.
The *E-Books* case is a textbook illustration of how antitrust enforcement can foster innovation and support a Schumpeterian vision of creative destruction not just once, but in subsequent stages in an industry. E-books were a significant threat to the publisher’s long established business model of time-delayed physical distribution. The publishers had become accustomed to their critical role in production, inventory management, and distribution of physical books and to their ability to extract consumer surplus through price discrimination. These advantages were all threatened by e-books distributed through either dedicated e-book readers or through digital applications on general purpose devices such as tablets, smart phones, and laptops. The publishers’ agreement was merely a counter-strategy by the older incumbents to maintain their print-based model as long as possible. They also used it to bend Amazon into changing its innovative model by pushing it to become part of the traditional chain of discounting and price discrimination in different print and electronic formats. Either way, fans of Schumpeter should rejoice rather than bemoan the limited but successful use of antitrust to stop a fading incumbent industry from ganging up on an innovator well on its way to destroying old products, pricing patterns, and old methods of distributions.

### D. Mergers and Innovation

Protecting and promoting innovation plays an important role in merger enforcement. The 2010 Horizontal Merger Guidelines explicitly discuss the role of innovation in merger analysis and reflect both Arrow’s view that competition is a spur to innovation\(^{95}\) and Schumpeter’s view that increased size may well enable innovation that would not otherwise take place:

*Competition often spurs firms to innovate.* The Agencies may consider whether a merger is likely to diminish innovation competition by encouraging the merged firm to curtail its innovative efforts below the level that would prevail in the absence of the merger. That curtailment of innovation could take the form of reduced incentive to continue with an existing product-development effort or reduced incentive to initiate development of new products.

The first of these effects is most likely to occur if at least one of the merging firms is engaging in efforts to introduce new products that would capture substantial revenues from the other merging firm. The second, longer-run effect is most likely to occur if at least one of the merging firms has capabilities that are likely to lead it to develop new products in the future that would capture substantial revenues from the other merging firm. The Agencies therefore also consider whether a merger will diminish innovation competition by

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\(^{95}\) *Arrow, supra* note 11, at 157.
combining two of a very small number of firms with the strongest capabilities to successfully innovate in a specific direction.

The Agencies evaluate the extent to which successful innovation by one merging firm is likely to take sales from the other, and the extent to which post-merger incentives for future innovation will be lower than those that would prevail in the absence of the merger. The Agencies also consider whether the merger is likely to enable innovation that would not otherwise take place, by bringing together complementary capabilities that cannot be otherwise combined or for some other merger-specific reason.96

In deciding whether or not to challenge a merger, the Antitrust Division and the FTC will generally consider any claimed efficiencies and innovations that are verifiable, merger specific, and sufficient to overcome any predicted anticompetitive effects of the merger or acquisition.97 The Guidelines caution that projected efficiencies will rarely be sufficient to justify a merger to monopoly or nearly so. In reality, they often function more as a tie-breaker for the agencies and the court in close cases where anticompetitive harm is limited and efficiencies are substantial.98

A merger policy informed by creative destruction should take into account the risks that a merger will decrease incentives to innovate by removing the threat of outside disruption. It should also recognize that an increased capacity for innovation is one of the most important pro-competitive efficiencies that may justify increased industry concentration. Obviously, these propositions are somewhat conflicting and do not accommodate any categorical acceptance or rejection of mergers. This tension is particularly apparent in cases where a potentially dominant firm has a plausible verifiable claim to be innovating through acquisition.

FTC v. H.J. Heinz Co., the baby-food merger case, is one example of a prominent decision which might have come out differently with a more explicit innovation focus. Here, Heinz acquired Beech-Nut in an attempt to form a more vibrant and innovative firm that could compete more effectively with the dominant firm, Gerber.99 The merger would have combined Beech-Nut’s more innovative recipes with Heinz’s newer, more efficient, and underutilized manufacturing plant.

96. 2010 MERGER GUIDELINES, supra note 62, § 6.4 (emphasis added).
97. Id. § 10.
The district court denied the FTC’s request for a preliminary injunction, citing the substantial potential for pro-competitive innovations and efficiencies. On appeal, the D.C. Circuit reversed on two grounds. The D.C. Circuit found that the merger amounted to a merger to monopoly for the second slot for baby food on supermarket shelves and that the resulting efficiencies were not as great as claimed. The court found that the argument that Beech-Nut had better recipes was not merger specific, and thus not relevant to the analysis. Even accepting the traditional merger analysis of the court, the proposed merger may well have unleashed an innovative new firm capable of launching a wave of creative destruction to an otherwise staid market.

In contrast to the baby food case, the government’s opposition to H&R Block’s acquisition of TaxAct seems justified on innovation grounds. Here, the government successfully challenged the acquisition of the leading provider of free software for preparation of tax returns, TaxAct, by H&R Block, a leading tax preparation firm. TaxAct’s position as a “maverick” in the industry, and not its share of the tax preparation market, piqued the government’s interest in this case. Section 2.1.5 of the Guidelines state:

The Agencies consider whether a merger may lessen competition by eliminating a “maverick” firm, i.e., a firm that plays a disruptive role in the market to the benefit of customers. For example, if one of the merging firms has a strong incumbency position and the other merging firm threatens to disrupt market conditions with a new technology or business model, their merger can involve the loss of actual or potential competition.

A maverick is in essence a disruptive innovator or a current or likely source of creative destruction in that industry. The firm may play the role of a maverick through its pricing, its service, its willingness to introduce new products, services, or methods of distribution. TaxAct was considered the maverick because it offered a larger selection of features in its free tax return software. The government worried that, following the acquisition, H&R Block would be less likely to introduce new features for the free version of the

104. 2010 MERGER GUIDELINES, supra note 62, § 2.1.5.
105. For example, the Justice Department challenged the AT&T–T-Mobile merger primarily because of T-Mobile’s innovative marketing strategies. The merger was ultimately abandoned by the parties. See Michael J. De La Merced, AT&T Ends $39 Billion Bid for T-Mobile, N.Y. TIMES, (Dec. 19, 2011, 4:44 PM), http://dealbook.nytimes.com/2011/12/19/att-withdraws-39-billion-bid-for-t-mobile.
PROMOTING INNOVATION

TaxAct software. In all likelihood, H&R Block would roll back existing features of the free product following the acquisition to nudge customers toward the premium software package.

A Schumpeterian perspective also provides a framework to assess the issue of innovation through acquisition. The acquisition of start-ups and new entrants by dominant established firms poses difficult questions from the perspective of fostering innovation for both challengers and incumbents. Consider Facebook’s recent acquisitions of Instagram and WhatsApp and Google’s acquisitions of YouTube, ITA, and Waze. Reflexive opposition to such acquisitions is a mistake. Challengers need the incentive of acquisition (in addition to initial public offerings) as part of the inducement to innovate in the first place. In addition, incumbents often have difficulty continuing to innovate beyond sustaining innovations in their existing fields of dominance. For example, Google had its own video service before it bought YouTube in 2006, but that smaller firm had four times as many users and a strong brand. Finally, incumbents often have resources beyond the capabilities of new entrants to fully bring the innovation to market. Google, for its part was in a much better position to face down YouTube’s mounting legal challenges and develop more cooperative relationships with content providers.

At the same time the agencies and courts need the skill and the will to carefully scrutinize such acquisitions when the predominant motive or likely effect is the removal of a disruptive innovator and the maintenance or extension of the existing dominance. Would the result of the Microsoft litigation really have been any different if it had simply acquired Netscape and Sun Microsystems, rather than excluding them from the market through the means they ultimately chose?

When Facebook offered close to one billion dollars for the photo-sharing service Instagram in 2012 it was difficult to see how a company with a handful of employees and no revenue could be worth that much. Instagram had quickly built up a user base of over 30 million users, and although the

service was not a general-purpose social network, it would only have taken a few extra functions to make it one. One could speculate that Facebook was willing to pay so much for Instagram simply to stop it from falling into the hands of rivals, especially Twitter and Google. Likewise, one could speculate that Google’s recent billion dollar acquisition of the Israeli traffic and navigation app Waze may have had as much to do with keeping decent mapping technology away from Apple and Facebook as to supplement Google’s own mapping data. Suspicion alone does not justify scuttling a merger, but it certainly warrants investigation.

To preserve the proper incentives for both challengers and incumbents the agencies and the courts must use the innovation lens when applicable to judge both legality and the proper remedy (structural versus behavioral) to judge such acquisitions. One of the most complex examples of the role of innovation came in the 2010 Google–ITA acquisition. ITA was the developer of the QPX software, the industry standard for airline pricing and comparison systems. ITA’s software was the basis for most of the leading Internet travel sites such as Expedia, Travelocity, Kayak, and TripAdviser. Prior to the acquisition Google was not in the on-line travel space, although it was, of course, the leading Internet search engine and seller of on-line advertising. Google planned to use the acquisition to launch its own on-line travel aggregation site.

The Justice Department’s antitrust challenge to the acquisition focused squarely on innovation. The complaint alleged:

The proposed merger will give Google the means and incentive to use its ownership of QPX to foreclose or disadvantage its prospective flight search rivals by degrading their access to QPX, or denying them access to QPX altogether. As a result, the proposed merger is likely to result in reduced quality, variety, and innovation for consumers of comparative flight search service.

The eventual settlement and consent decree also focused on innovation. The consent decree required Google to honor all existing licenses of its now rivals, negotiate extension of such licenses on similar terms to those in effect prior to the merger, and to negotiate other terms of the extensions that were fair, reasonable, and non-discriminatory (“FRAND”).


112. Id. at 3.


Similarly, all new licenses and upgrades had to be on FRAND terms. Moreover, the merged entities were required to continue investing in the development of a next-generation software system called InstaSearch that ITA was working on at the time of the acquisition and to license that new product on FRAND terms.  

IV. A MATTER OF PRIORITIES MORE THAN DOCTRINE

As Herbert Hovenkamp and others have noted, if innovation produces the greatest impact on economic growth and development, then restraints on innovation produce the greatest economic harm and should be the priority for antitrust enforcement. Operationally this principle is challenging, particularly in decentralized enforcement systems like the United States. The first step is prioritizing innovation for both federal enforcement agencies. This should happen not just in their case investigations, but also in their competition advocacy as well. Innovation should be a priority in the selection of the major recent unilateral conduct cases. Prioritizing innovation in section 1 enforcement probably requires slightly de-emphasizing cartel enforcement in small and local industries, which do not raise important innovation issues and reallocating resources toward criminal and civil section 1 cases such as e-books and other restraints on innovations. Similarly, in merger cases innovation issues will, at the margin, help guide the exercise of prosecutorial discretion toward the elimination of mavericks and away from legitimate merger-specific innovations. More extensive use of closing statements by the enforcement agencies when innovation concerns lead away from enforcement or toward unusual behavioral consent decrees should be the norm rather than exception.

Innovation should be front and center in competition advocacy as well. This is the principal method by which competition agencies can guide the sound development of regulatory policy at the federal, state, and local level. Such advocacy may yield even greater returns to innovation than the episodic enforcement of antitrust law.

A recent example of FTC action in local transportation markets is illustrative. Uber, Lyft, Sidecar, and other web-based car service matching networks have sprung up in many metropolitan areas offering an application allowing consumers to see available taxis and private drivers in their

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115. See id. at 15. The terms of the consent decree are discussed at greater length in Spencer Weber Waller, Access and Information Remedies in High-Tech Antitrust, 8 J. COMP. L. & ECON. 575, 581–84 (2012).

116. Hovenkamp, supra note 20, at 8–9 (discussing how antitrust enforcement should be wary that a “restraint on innovation can do much more harm” than price fixing and other inefficiencies (emphasis in original)).

immediate area and book a point-to-point ride for a metered fare over their cell phone and receive an estimated pick up time from the driver. These matching services are used by licensed taxis and car services as an additional source of fares to cruising the streets or relying on radio dispatch, they are also used by private drivers—a new source of supply for local transportation markets.

These web-based transportation services have produced fierce opposition from existing licensed cab and limousine companies. These companies argue that the new competitors are exploiting customers with premium pricing during high demand periods, failing to conduct background checks or require commercial licenses, and not providing adequate insurance for the drivers in the new networks. While some of these concerns are valid, most of the underlying opposition is economic in nature and resulted in outright bans, requirements to operate as licensed taxis, or additional tight regulation of these new services in many cities.

The FTC’s response has been a series of thoughtful comments submitted to the local taxi and limousine commissions. The comments argue for the minimal regulation necessary to satisfy health and safety concerns but warn against overregulation, which protects incumbents from innovative new forms of competition.\footnote{See, e.g., FTC Staff Submits Comments to Chicago City Council on Proposed Regulation of Transportation Network Providers, Fed. Trade Comm’n (April 21, 2014), http://www.ftc.gov/news-events/press-releases/2014/04/ftc-staff-submits-comments-chicago-city-council-proposed.}

Competition advocacy is more easily scalable than enforcement. The FTC can submit comments and testify around the country cost-effectively since the restraints produced by the incumbent taxi industry are fairly consistent nationwide. Promoting innovation should be given priority where the agencies have to make tough resource and strategy choices.

Guiding the exercise of agency resources is relatively easy in comparison to private enforcement beyond direct agency control. Courts must take private cases as they come and cannot pick and choose their agenda or priorities. However, they can use plausible innovation claims as more than a tie-breaker and at the same time insist on the substantiation of such claims by the parties. This means dominant firms do not get a free pass merely because they can articulate such a claim when the challenger can demonstrate harm to disruptive innovation. But it also means that challengers do not automatically prevail with rhetoric alone in the face of plausible claims that they are seeking to duplicate rather than supplant the dominant firm.

V. Conclusion

Innovation is a process that does not end. In the long run innovation, is the most important driver of both competition and economic growth. Despite nearly universal agreement on this premise, the competition policy
community is still seeking to come to grips with what this means for the rules and enforcement of competition law. We offer an unconventional interpretation of Schumpeter’s pioneering work on this issue not just to validate much of current antitrust law and enforcement, but to offer suggestions as to how to better focus on innovation as a competition issue.