INFLATION, MARKET FAILURES, AND ALGORITHMS

(THE IS AN EARLY DRAFT. FEEDBACK WELCOME.)

Rory Van Loo

ABSTRACT

Inflation is a problem of tremendous scale. But inflation itself is unlikely to cause the greatest economic harm during inflationary periods. Instead, a more likely source of devastation will be policymakers’ response to inflation. Their main anti-inflation tools, most notably increasing interest rates, increase unemployment and the risk of recessions. This Article argues that there is a better approach. Rather than defaulting to interest rate hikes that harm markets, policymakers should prioritize laws that lower prices while improving markets. For decades, businesses have raised prices by manipulating consumers, exercising monopoly power, and lobbying for laws that block competition. Automated pricing algorithms have further enhanced businesses’ ability to charge higher prices by exploiting consumer biases. Although those past market failures did not cause the currently high levels of inflation, they create new challenges and opportunities.

A key challenge is that in an era of automated pricing algorithms and market failures, direct solutions to inflation, like the end of the war in the Ukraine, may not bring the full level of lowered prices that would be otherwise expected. Fortunately, market failures now also provide an inflation-fighting tool that would not otherwise exist—like a piggy bank of market improvements that the law can break open to offset some portion of inflation. Interest rate hikes would surely still be needed, but to a lesser extent. Many of these market improvement opportunities lie in existing administrative agency authority, while more could be done through new legislation, such as a universal price transparency statute. Moreover, these legal reforms are desirable independent of inflation because they would improve efficiency, expand total wealth, and reduce inequality. Thus, policymakers should resist the urge to rely too extensively on interest rate hikes that bring impoverishment and should instead pursue legal rules that promote prosperity. Doing so could even transform a grave crisis into a tremendous economic opportunity.

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INTRODUCTION

The dominant narrative surrounding inflation is that we must pick our economic poison: high inflation or high interest rates. Doing nothing and allowing high inflation to continue can cause economic volatility and leave people poorer as wages fail to keep up.\(^1\) Unfortunately, the leading policy response currently being deployed—increasing interest rates—also tends to be economically harmful. The aim of interest rate hikes is to encourage less spending, which brings down prices. However, lower spending levels also slow

\(^{1}\) There is a debate as to the extent and nature of harm resulting from inflation, but there is little doubt that high levels of inflation come with risks. See, e.g., Yair Listokin & Daniel Murphy, Macroeconomics and the Law, 15 ANN. REV. L. & SOC. SCI. 377, 383 (2019) (“High inflation is costly both because high (and volatile) inflation is associated with uncertainty over the value of contracts, thereby reducing exchange and output in the economy, and because high inflation can cause a reduction in the amount of labor or other factors of production supplied in the economy.”); Hongyi Li & Heng-fa Zou, Inflation, Growth, and Income Distribution: A Cross-Country Study, 3 ANNALS ECON. & FIN. 85, 87 (2002) (“When inflation is taking place, price rises tend to run ahead of increases in money wages. Therefore, inflation leads to a shift of income away from wage earners, and toward profits.”).
down the economy and increases the chance of a recession.² Rising interest rates thus risk increasing poverty, eliminating jobs, and making households of all income levels worse off.³

What if this choice between two poisons is framed incorrectly? This Article argues that lawmakers and scholars have paid insufficient attention to a more attractive policy tool for helping to reduce inflation: using legal authority to correct market failures. Three categories of market failures are particularly worthy of greater consideration. First, inflation policy conversations proceed without considering how businesses have for decades manipulated customers into paying higher prices on everything from mortgages to paper towels by leveraging behavioral economics insights.⁴ Price transparency laws can help consumers to find the best deals and thereby counteract that widespread price manipulation.⁵ Second, another overlooked way to fix market failures would be to remove excess licensing laws, which raise consumer prices by requiring everyone from hair stylists to casket sellers to undergo training and pass an exam before offering their services.⁶ Finally, scholars and policy makers have paid greater attention to antitrust, but have dismissed them without analyzing the institutional nuances of different types of antitrust intervention and how they might fit into a broader anti-inflation toolkit.⁷

² Note that tax increases, such as those in the Inflation Reduction Act, have a similar effect. See, e.g., Inflation Reduction Actually, NPR PLANET MONEY (Aug. 19, 2022), https://www.npr.org/transcripts/1118552609 (“The biggest way the Inflation Reduction Act takes money out is through new taxes on big companies. This will pull back spending…”).
³ See, e.g., Jeanna Smialek, Fed Makes a New Playbook, N.Y. TIMES, June 24, 2022, at B1 (noting that the “painful process [of rate increases] would ramp up the risk of a recession that would cost jobs and shutter businesses.”).
⁴ See, e.g., Jon D. Hanson & Douglas A. Kysar, Taking Behavioralism Seriously: Some Evidence of Market Manipulation, 112 HARV. L. REV. 1420, 1449 (1999) (“Pricing has become still another method of manipulation.”); Jon D. Hanson & Douglas A. Kysar, Taking Behavioralism Seriously: The Problem of Market Manipulation, 74 N.Y.U. L. REV. 630, 633, 748 (1999) (“[M]arket outcomes frequently will be heavily influenced, if not determined, by the ability of one actor to control the format of information, the presentation of choices, and, in general, the setting within which market transactions occur.”) (providing numerous examples, including that “the manufacturer of Campbell’s Soup knows, as an empirical fact, that placing soup cans out of alphabetical order on store shelves will increase sales by exactly six percent” and “retailers, studying such research as . . . the Effects of Music on Purchasing Behavior, can lower customer blink rates from the normal average of thirty-two times a minute to a narcotic fourteen blinks a minute”).
⁵ See infra Part II.B. (summarizing the empirical literature on price increases and the law’s ability to respond).
⁷ See Paul Krugman, Opinion, Why Are Progressives Hating on Antitrust?, N.Y. TIMES, (Jan. 18, 2022), https://www.nytimes.com/2022/01/18/opinion/biden-inflation-monopoly-antitrust.html (observing that “linkage of monopoly power to inflation is facing vehement, almost hysterical, criticism . . .”). For one of the leading recent academic calls for using antitrust to fight inflation, see Hal Singer, Antitrust Should Be Used to Fight Inflation, Feb. 2, 2022,
Importantly, successful legal reforms in each of these areas—price transparency, government licensing, and antitrust—are desirable even in normal times. They would overall increase efficiency, promote economic growth, reduce economic inequality, and raise employment. Because these reforms move markets toward what economic theory refers to as their “perfect” equilibrium, they will be referred to below as market improvement laws. Consequently, this Article argues that policy makers should prioritize addressing whatever portion of inflation is possible through market improvement laws.

Whether that amounts to reducing one point of inflation through market improvements or ten points, and even if interest rates still need to be used in addition to market improvement laws, the result would be some quantity less of interest rate increases that have heavy economic costs.

Despite the economic appeal of market improvement laws, scholars and lawmakers have almost completely ignored them in fighting inflation. The area of market improvement laws that this Article argues is most immediately promising—price transparency reforms—is not even part of those debates. Although antitrust laws had their legislative moment in the spotlight in the 1970s, scholars dismissed the idea that they could be used to reduce inflation based on many arguments that are not valid today, if they ever were. These various objections are considered in greater depth below, but one common argument is that inflation was not caused by market failures and thus it would

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9 More specifically, perfect competition occurs when informed consumers make rational choices in a market filled with many competing sellers, among other conditions. Of course, despite the widespread use of this concept in modeling, it is widely recognized that perfection is unattainable. On the influence and limits of this notion, which draws on the concept of the widely influential concept of “perfect competition,” see Herbert Hovenkamp & Fiona Scott Morton, Framing the Chicago School of Antitrust Analysis, 168 U. PA. L. REV. 1843, 1854 (2020). The terminology of “perfect competition” is not used below because legal scholars tend to associate competition with antitrust, whereas the focus here is on other areas of law that advance related goals.

10 The level of inflation is calculated merely by collecting information about the prices paid, and thus these mechanisms for lowering prices can offset inflation even if the underlying market failures did not cause the inflation in the first place. See infra Part I.


be a mistake to look to market failures as a solution. However, that reasoning would mean that we should not rely on interest rates to address all of inflation either, since the war in Ukraine and supply-chain disruptions in China caused much of the current inflation. Thus, by similar reasoning interest rates should not be used either when they do not address the direct causes of inflation. Yet despite the limits to such objections, similar arguments are being repeated today to dismiss the idea of using antitrust. The real question should instead be what will work to address inflation, which is calculated by collecting data about the actual market prices people pay on various products throughout the country.

If win-win market improvement laws exist, why would so many observers overlook and even dismiss their importance without engaging in a more nuanced legal institutional analysis? Although politicization of the debate has surely gotten in the way, conceptual barriers have also impeded a comprehensive law and economics analysis. As a threshold matter, the scholarly inattention to market improvement laws partly reflects intellectual silos. Economists, like legal scholars, are not generalists. They focus on either macroeconomics or microeconomics, and within those broad areas have further specializations. Inflation lies in the domain of macroeconomics. Indeed, the leading alternatives to interest rates that lawmakers have pursued are macroeconomic tools such as taxes and federal spending, as demonstrated by the Inflation Reduction Act of 2022. Yet consumer law, antitrust, and other market improvement laws are the domain of microeconomics. Further complicating matters, most legal scholars engaging in economic analysis focus on microeconomics. Indeed, they pay such little attention to macroeconomics that, as a descriptive matter, arguably “[l]aw and economics should be called law and microeconomics.” Consequently, most of the scholars best situated to design microeconomic market improvement laws rarely pay attention to macroeconomic issues like inflation.

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13 See infra Parts I & III (analyzing the sources of resistance to antitrust and offering new reasons why some skepticism is warranted).

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15 See President Joseph Biden, Remarks by President Biden on the Inflation Reduction Act of 2022 (July 28, 2022), (transcript available at https://www.whitehouse.gov/briefing-room/speeches-remarks/2022/07/28/remarks-by-president-biden-on-the-inflation-reduction-act-of-2022) (summarizing the legislation, whose main inflation components include tax adjustments). The Act’s Medicare price negotiation provision is, however, microeconomic. Id. As mentioned above, tax increases, like increasing interest rates, tend to have the effect of slowing down the economy. See Inflation Reduction Actually, supra note 2.


18 See Listokin, supra note 16, at 147 (noting financial regulation as a rapidly changing...
These conceptual silos may help explain why the macroeconomic inflation toolkit has not fully incorporated recent microeconomic evidence about market failures. Inflation has not been a major problem in the U.S. since the early 1980s.\textsuperscript{19} Whereas in 1980 the average markup on goods sold in the United States was 21% above cost, by 2016 that figure had reached 61%.\textsuperscript{20} This shift suggests that there are now far greater opportunities for the law to improve markets than there were in 1980. Since then, firms systematized behavioral economics insights and big data to algorithmically manipulate consumers into paying higher prices.\textsuperscript{21} The portion of U.S. employees who need a license to legally work grew from 5% in the 1950s to almost 30% by 2013, thereby raising the average prices people pay by about 15% on everything from cosmetology to funeral services.\textsuperscript{22} And over the last two decades, the average market concentration level increased 90%, meaning that a smaller number of companies now hold greater market share throughout the economy.\textsuperscript{23} Although the consequences are disputed, the leading studies have found growing market power over time.\textsuperscript{24}

Thus, interest rates became the default anti-inflation tool in a prior world with fewer market failures and when automated profit-maximizing algorithms did not drive market prices. In 1980, when markups were only 21% above costs, there may not have been much room to push prices lower while addressing market failures, especially because some markup is needed above costs for a

\textsuperscript{19} See, e.g., Donald Tomaskovic-Devey, Ken-Hou Lin, Financialization: Causes, Inequality Consequences, and Policy Implications, 18 N.C. BANKING INST. 167, 171 (2013) (stating that “one of the central developments of the 1970s crisis era was… high inflation,” which was not “slowed” until the “early 1980s”).


\textsuperscript{21} See Ryan Calo, Digital Market Manipulation, 82 GEO. WASH. L. REV. 995, 999 (2014) (“[D]igitization of commerce dramatically alters the capacity of firms to influence consumers at a personal level.”); Glenn Ellison & Sara Fisher Ellison, Search, Obfuscation, and Price Elasticities on the Internet, 77 ECONOMETRICA 427, 428–29 (2009) (showing how online sellers can raise prices 6% to 9% by obfuscation of quality and shipping fees); infra Part II.A. (summarizing the empirical literature establishing that such practices raise prices).

\textsuperscript{22} See Kleiner & Krueger, supra note 6, at S179. Also, the number of states granting auto dealers the exclusive right to sell manufacturers’ cars in their territory—essentially state-granted monopolies—increased from 27 in 1979 to all 50 today. Francine Lafontaine & Fiona Scott Morton, Markets: State Franchise Laws, Dealer Terminations, and the Auto Crisis, 24 J. ECON. PERSP. 233, 240, tbl.A (2010).

\textsuperscript{23} See Gustavo Grullon, Yelena Larkin & Roni Michaely, Are US Industries Becoming More Concentrated?, 23 REV. FIN. 697, 698 (2019) (finding also that more than 75% of U.S. industries have increased in concentration).

\textsuperscript{24} See, e.g., id. at 698; De Loecker et al., supra note x (attributing rising margins over time to market power). It is difficult to establish this relationship conclusively, due to empirical limitations.
business to survive.\textsuperscript{25} Thus, scholars’ dismissal of antitrust as a tool for combating inflation in the 1970s and 1980s, the last time the issue received significant attention, may have made more sense then.\textsuperscript{26}

Considering the growing evidence of market failures in the past few decades, however, and the dramatic markup increase to 61% over costs, the underlying assumptions made in 1980 about inflation are outdated.\textsuperscript{27} Market improvement laws now have significantly more potential to reduce inflation than they did before, especially when the concerns are about levels of inflation of about 8% or 9% annually—levels that are significantly smaller than the increase in markups.\textsuperscript{28} Yet instead of starting with anti-inflation tools that increase prosperity and lower inequality, lawmakers have allowed the country to rely mostly on interest rate increases that lower prosperity for all and increase inequality, as they did in the 1970s and 1980s. Legal scholars have also not turned their attention to the connection between market failures and inflation in any sustained manner.\textsuperscript{29} In short, there is an absence of sustained effort to update the anti-inflation policy paradigm to the modern markup economy.

To reach the conclusion that microeconomic market improvement laws deserve greater attention in macroeconomic inflation policy toolkit, this Article provides a sustained analysis of the theory and evidence. It shows why many of the main reservations about market improvement laws can be addressed with a more comprehensive legal and economic institutional analysis. It also offers a framework for analyzing inflation laws that shows why many of the dismissals of market improvement laws rest on an incomplete economic picture.

Although a comprehensive economic cost-benefit analysis anti-inflation framework has many components, one of the most essential is giving greater weight to the side effects that inflation policies have on the economy beyond inflation. Once the side effects are not assumed to be inevitably negative, and are given greater weight, it becomes difficult to justify ignoring market improvement laws that advance both total wealth and distributional goals. Regardless of the magnitude of their impact on inflation, such laws should be the highest priority largely because the government should prioritize them regardless of their impact on inflation. Whatever portion of interest rate increases they prevent would save the economy from damage that does not need to happen.

\textsuperscript{25} Even some markup above marginal cost is generally assumed to be necessary. \textit{See}, e.g., Ellison & Ellison, supra note 21, at 428–29 (assuming several percentage points of profit above marginal cost before calculating supracompetitive price levels).

\textsuperscript{26} \textit{See} Handler, supra note 12, at 213.

\textsuperscript{27} \textit{Infra Part I.}


\textsuperscript{29} Some economists have begun to turn their attention to the connection between antitrust-related issues and inflation, although even those analyses do not consider the area of market improvement laws that this Article shows is the most promising.
Another key factor in an anti-inflation framework that has received insufficiently nuanced analysis is administrability. Once administrability is analyzed more fully, for example, it becomes clear that the market improvement laws that have defined past debates—especially antitrust laws that would address oligopoly industries—suffer from major limitations that other market improvement laws do not. For instance, the most significant antitrust remedy for reducing monopoly power—breaking up large companies—typically takes years to implement and costs the broken-up firm billions of dollars to complete. Thus, lower prices from breakups may not materialize for years and could even weaken supply chains at a time when the opposite is needed.

In contrast, price transparency laws are better situated to create a fast reduction in prices. For example, consider a 2013 Israeli law that required stores to make their price information available in machine-readable form. That law was aimed at allowing third-party price comparison tools to help consumers locate the best prices. Within eight months of that law’s enactment, prices had begun to decline, and within two years of the law’s enactment prices lowered by an average of 4% to 5%. Price transparency laws may even overall act on prices faster than an increase in interest rates.

The point here is not that antitrust law should be ignored as an anti-inflation tool. Indeed, some areas of antitrust law could have a quicker effect on pricing, such as investigations into price fixing. It is also possible that price transparency laws with faster price effects might be accompanied by antitrust remedies whose impact will take a few years, thereby offering a more enduring market improvement package for lowering inflation.

Instead, the point is that a more in-depth consideration of administrability shows how structural antitrust interventions may be less immediately helpful than other market improvement laws. Additionally, since these difficult-to-administer antitrust laws have dominated consideration of market improvement laws, the focus on them negatively skew perceptions of the extent to which market improvement laws should be considered in fighting inflation.
These dynamics speak to a final institutional implication. Limited governmental resources and a dysfunctional legislative process mean that Congress and other governmental leaders do not implement every important policy that should exist on the merits. Yet the threat of a recession is a well-known way to break political impasse. Consequently, inflation could provide the means to enact market improvement laws that will leave the economy better off than when inflation began its precipitous rise. Responding to inflation with an emphasis on market improvement laws therefore channels the wisdom that policymakers should “never let a crisis go to waste.” Counterintuitively, inflation can be reframed as offering an opportunity to increase prosperity.

The Article proceeds as follows. Part I explains the theory behind why market improvement laws can help to combat inflation. In so doing, it addresses common objections to looking beyond interest rates. Part II reviews the evidence that market failures drive up prices, and that legal reforms can bring them back down. Part III offers several concrete suggestions for reform, ranging from a universal price transparency statute to inflation impact statements. It also sketches a framework for choosing among inflation policies. That framework shows the potential to build an anti-inflation toolkit rooted not in weakening the economy, but in strengthening it.

I. THE THEORY: WHY IMPROVED MARKETS CAN LOWER INFLATION

Economic theory alone cannot determine the best anti-inflation policy. But theory is important, particularly because empirical evidence is almost always insufficient to dispositively prove that any one policy choice is optimal. Several theoretical considerations provide essential foundational support for the possibility of using market improvement laws to counter inflation. The theory behind relying on interest rates tends to fail to recognize that (1) some anti-inflation policies avoid economic harm; (2) market improvement laws can offset inflation from even unrelated other causes, such as wars, (3) market improvement laws can complement direct inflation efforts; and (4) efficiency considerations alone have not produced all beneficial market laws. Each of these oversights will be taken in turn, in the process laying the theoretical foundations for a more comprehensive anti-inflation framework.

37 See generally POLICY SHOCK: RECALIBRATING RISK AND REGULATIONS AFTER OIL SPILLS, NUCLEAR ACCIDENTS AND FINANCIAL CRISSES (Edward J. Balleisen, Lori S. Benear, Kimberly D. Krawiec & Jonathan B. Wiener eds., 2017) (summarizing the interplay between crises and legislation); but see .


39 See generally POLICY SHOCK, supra note 37 (outlining the challenges of policy making and difficulties in assessing underlying risks).
A. Avoiding Economic Harm Should Be a Priority

When inflation skyrocketed in the 1970s, an event sometimes called the “Great Inflation,” a period of price controls followed. Most aggressively, in 1971, President Nixon issued an executive order freezing wages, rents, and prices for 90 days. That shock briefly decreased inflation, but by the mid-1970s those freezes had contributed to a recession and failed to tame inflation. Because they did not contain inflation, and because it is believed that they “eventually lead to the destruction of the free enterprise system,” price controls became a heavily disfavored tool for fighting inflation.

Compared to price controls, interest rates are a more appealing tool because they leave intact markets’ ability to set prices based on supply and demand rather than a government-commanded price. However, interest rate adjustments still distort markets by causing a retraction in spending. That raises the question of whether an alternative response to inflation exists that would have less dire consequences.

Policymakers considered such an option in the 1970s, when lawmakers passed legislation strengthening antitrust and the FTC deployed its authority more aggressively. It is difficult to know what effect these reforms had on

40 See Yair Listokin & Daniel Murphy, Macroeconomics and the Law, 15 ANN. REV. L. & SOC. SCL 377, 392 (2019) ("[T]he initial response to the Great Inflation of the 1970s in the United States was an extraordinarily intrusive legal regime of price controls.").
41 Exec. Order No. 11,615, 36 Fed. Reg. 15,727 (Aug. 17, 1971). There were some exceptions. Id.
42 See R. Randall Kelso, Narcissism, Generation X, the Corporate Elites, and the Religious Right Within the Modern Republican Party: A Set of "Friendly" Observations for President Bush, 24 CARDOZO L. REV. 1971, 2022 (2003) ("By interfering with the regular functioning of the market system, wage and price controls harm long-term economic growth."); Listokin & Murphy, supra note 40, at 392 ("These price controls reduced inflation briefly but ultimately caused so much economic harm that they could not be sustained.").
43 MILTON FRIEDMAN, CAPITALISM AND FREEDOM 135 (40th anniversary ed. 2002).
44 See ROBERT L. SCHUETTINGER & EAMONN F. BUTLER, FORTY CENTURIES OF WAGE AND PRICE CONTROLS: HOW NOT TO FIGHT INFLATION 3 (1979); Note, Price and Sovereignty, 135 HARV. L. REV. 755, 761 (2021) ("Price controls represent not just an inadequate solution to inflation and other social problems, they also signal the success of a conception of popular sovereignty anathema to the freedom of and through the market prized by neoliberalism."); Ben Casselman & Jeanna Smialek, Price Controls Set Off Heated Debate as History Gets a Second Look, N.Y. TIMES (Jan. 13, 2022), https://www.nytimes.com/2022/01/13/business/economy/inflation-price-controls.html (reporting results from a survey of economists) ("Artificially holding down prices leads to shortages, inefficiencies or other unintended consequences, like an increase in black-market activity."). When used to address market failures, however, this antipathy for price controls does not hold.
46 Donald I. Baker, Restating Law and Refining Remedies: The Trading Company Act, the Joint Research Act, and the Local Government Antitrust Act, 55 ANTITRUST L.J. 499 (1986). For examples,
inflation. Nonetheless, one point is particularly important to recognize, because it speaks to the possibility of using market improvement laws today. Unlike with price controls and interest rate increases, there is no strong evidence that the increase in antitrust enforcement in the 1970s harmed the economy. Instead, there are good reasons, based in theory and evidence, to think that it may have improved the economy. Accordingly, critics of using antitrust to combat inflation instead raised other objections that the following sections will address.

B. Market Interventions Help Even If One-off and Unrelated to Inflation’s Causes

One of the main sources of resistance to using antitrust to combat inflation, both in the 1970s and more recently, is that shortcomings in competition did not create inflation. As a result, even in the best-case scenario, antitrust solutions leave in place the structural causes of inflation. That means that antitrust, and by extension market improvement laws more broadly, are one-off while inflation occurs on an ongoing basis. To elaborate, structural inflation is inflation produced by influences on supply and demand that are beyond the consumer’s control. For instance, when gas or grain supplies shrink due to the Russia-Ukraine war, there is a real increase in cost because the supply has been lowered, and price is the product of supply and demand. Additionally, a potential structural demand-side contributor is an increase in the supply of money, such


47 Tomaskovic-Devey & Lin, supra note 19, at 171.

48 This issue is not easy to rigorously study, making it difficult to draw strong conclusions, but see JONATHAN B. BAKER, THE ANTITRUST PARADIGM: RESTORING A COMPETITIVE ECONOMY 2-3 (2019) (seeing economic benefits in stronger antitrust enforcement of the 1970s).

49 See Handler, supra note 12, at 222 (stating that those proposing to combat inflation with antitrust assume that “the deficiencies of antitrust—substantive, procedural, remedial and enforcement-related—have combined to contribute to our present economic woes.”). Law professor Ramsi Woodcock recently deployed this reasoning. See Ramsi Woodcock, Antitrust Can’t Tame Inequality, Let Alone Inflation, THE HILL (Jan. 28, 2022), https://thehill.com/opinion/finance/591609-antitrust-legislation-cant-tame-inequality-let-alone-inflation (“But . . . can [antitrust] at least tame inflation? The answer is: not by much because everyone agrees that a major cause of the present inflation is supply chain disruption . . . .”). Although this Article comes to a different conclusion than Woodcock, his qualification of “not by much” alludes to the limits of antitrust empirics speaking to magnitude, explored in greater depth infra Part II.

50 See, e.g., Woodcock, supra note 49.

as through a government stimulus package, which can demand because people have a greater capacity to spend. Critics have thus argued that antitrust is an inadequate response to inflation because it can only be used once and does not address the inflation’s ongoing structural causes.

The core propositions in this reasoning are correct as applied to market improvement laws. Market failures did not necessarily cause inflation, and thus improving markets may leave in place the excess demand and supply chain issues. However, interest rate changes do not directly address the bulk of inflation’s structural causes either, such as supply chain shortcomings and the Ukraine war.

Perhaps the most generous way to view this critique is as speaking to the perceived comprehensiveness of the solution. Since market failures did not cause inflation, after the desired market improvements are achieved, prices could not be reduced further because businesses cannot sell below cost for sustained periods. Yet because market failures did not cause the inflation, some level of inflation may still remain. Accordingly, once market improvement laws reach their limits in addressing market failures, they also reach a ceiling for lowering inflation. In contrast, at least in theory, interest rates can be increased indefinitely over a span of many years.

This concern ultimately speaks to the issues of magnitude and timing. A threshold observation is that because most conversations focus on antitrust, the magnitude of price reduction assumed to be possible is less than it would be if the array of legal reforms considered also included price transparency laws and reduced occupational licensing. If each of these areas can lower prices by two percentage points, together they can combat far more inflation than any one of them could individually.

Thus, the magnitude question depends on how far market improvement laws can lower prices relative to existing inflation levels. Part II will explore the

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52 See id. at 324. Note that an increase in money supply need not increase inflation if, for example, it is accompanied by a lower velocity of money changing hands.

53 See, e.g., Handler, supra note 12, at 222-24 (observing the mismatch between antitrust and inflation).

54 It is possible, if not likely, that some companies are increasing inflation by raising prices more than necessary while using structural inflation as cover. But that does not appear to be the main cause of inflation, and thus the skepticism is warranted.

55 For instance, interest rates cannot fix the effects of pandemics or wars on supply, which is thought to be responsible for most of the current inflation. James Mackintosh, War, Pandemic, Inflation: Markets Struggle When Narratives Collide, WALL ST. J., Mar. 16, 2022, at B12. Thus, to dismiss market improvement laws because they do not address the structural roots of inflation while allowing interest rates to be used to address all of inflation would be a policy-making double standard—or it would paralyze the government’s ability to respond to inflation if that standard is consistently applied. It is also worth noting that both interest rates and some market improvement laws both seek to influence consumer behavior, albeit in different ways.

56 In reality, there would be practical limits imposed by the resulting harms to the economy and society by extreme freezes in investment.
empirical evidence of the potential magnitude of price reduction in each of these areas, but as a theoretical exercise, consider again how the average markup on goods sold in the United States rose from 21% in 1980 to 61% by 2016.\(^\text{57}\) Inflation between June of 2021 and June of 2022 was about 9%, well above the target of 2%.\(^\text{58}\) Thus, in theory, antitrust could eliminate the additional 7 percentage points of excess inflation by addressing competition failures that had previously contributed to the rise of markups to 61%, even though that rise did not cause the current inflation crisis. To rigorously analyze the potential role of market improvement laws as a response to inflation, it is necessary to recognize that the shifts occurring over the past few decades created opportunities to significantly lower prices before inflation ever became a problem.

The second common shortcoming of the skeptics’ position is that they fail to appreciate the potential long-term effects on inflation that even short-term market interventions could have. A series of one-time interventions could offset inflation for multiple years. To return to the example above, holding all else constant, if market improvement laws lowered prices by 18 percentage points total over three years—an average of 6 points each year—it would still leave the average industry markup well above the 21% markup that existed in 1980.\(^\text{59}\)

More importantly, even if market improvement laws were unable to reduce inflation beyond those three years, they could nonetheless have the effect of preventing longer term inflation. The reason for this is that some of the structural causes of inflation may require only a few years to fix. For example, the war in the Ukraine, labor shortages, and the supply-chian constraints from lockdowns in China have contributed significantly to inflation but may require two or three years to resolve. If market-oriented price reductions offset the price effects of some of those temporary structural contributors to inflation, they could reduce inflation until those direct structural causes can be resolved. At a minimum, this gap-filling by market improvement laws could tame inflation without causing a recession, as would be expected with increased interest rates.

The gap-filling effect can also offer longer term protections because inflation can result from purely psychological factors rather than any structural cause.\(^\text{60}\) In other words, even if there is no shortage of supply or increase in

\(^{57}\) De Loecker et al., \textit{supra} note 20, at 562.


\(^{59}\) To calculate the effect on markups, one cannot solely subtract the percentage points. To take a simplified static approach, this can be calculated as \((1 - .18) \times 1.61 = 1.32\), meaning that the new markup above costs is about 32%. This is a greatly simplified static analysis offered for the sake of illustration. The point for now is not that such a reduction is possible. Instead, the point is simply to demonstrate that there is a theoretical possibility, based on the data available, that antitrust could have a sustained and significant multi-year impact on inflation even if competition failures had nothing to do with causing inflation.

\(^{60}\) \textit{See}, e.g., Edgar R. Fiedler, \textit{The Price-Wage Stabilization Program}, \textit{Brookings Papers on Econ. Activity} 199, 200 (1972) (“During that period the economy entered a cost-push inflation—a spiral of rising wages and prices, based not on union or corporate market power,
demand, prices can go up (or stay up) if people expect inflation. For instance, if there are widespread rumors that inflation will happen, many consumers might decide to quickly purchase large amounts of goods at the current price. The sudden spike in demand will drive up prices, further stoking fears of inflation. Consequently, market improvement laws can guard against longer term, self-fulfilling inflation by preventing the expectation of inflation from ever being established in consumers’ minds—even if the direct impact on prices from market improvement laws only lasts one or two years as a gap-filler until structural causes of inflation can be resolved.

In short, it is a logical fallacy to require that inflationary solutions directly address the causes of inflation or have the potential to address the entirety of inflation in order to be considered. The more important question is whether market improvement laws can help meaningfully ameliorate inflation. At a minimum, since the direct causes of the current inflation are potentially short-term, dismissing solutions that may also only be short-term makes little sense. And as a matter of basic economics, even if market failures made no contribution to the present rise in inflation, market improvement laws can still offset inflation caused by other factors.

C. Market Failures and Algorithmic Pricing Are Relevant to Direct Solutions

There is a certain irony in criticism that market improvement laws do not address the structural causes of inflation. Those critiques have overlooked a key feature of market improvement laws. Such laws have a potentially important supportive role to help address inflation’s direct causes. That supportive role may be especially important in an era of algorithmic pricing and widespread market failures.

To have their full impact, direct solutions may depend on market improvement laws. Assume that structural shocks—such as China’s COVID-19 shutdown, which deprived factories of workers—increase prices by 10 percentage points, but only for a year or two. If consumers are not discerning enough to choose sellers who quickly adjust prices downward after that shock has passed, then what could have been a temporary price hike can become a sustained price increase because consumers, on autopilot, are continuing to purchase as before or expecting prices to continue rising. Temporarily high

but on the widely and deeply ingrained expectations of endless rapid inflation that were being cemented into the institutional framework within which price and wage decisions are made in our economy.”)

61 See id. at 200.

62 See Franklin Shupp, Optimal Control, Uncertainty and a Temporary Incomes Policy, PROC. OF THE 1972 IEEE CONF. ON DECISION AND CONTROL AND 11TH SYMP. ON ADAPTIVE PROCESSES 21, 21 (citing expectation of price increases as the driving force behind certain kinds of inflation).

inflation may thus condition consumers to expect ongoing high levels of inflation.

Price transparency laws are perhaps uniquely situated among legal reforms to eliminate this potential psychological contribution to inflation. Antitrust alone cannot fix this problem, because consumers need to be able to understand and locate low prices to provide competing businesses with sufficient incentives to offer them.\textsuperscript{64} If consumers can quickly understand that the structural increases in costs amount to only 4 percentage points, a 10\% price increase should arouse their suspicions and drive them to look for a better deal. Consumers would thereby reward sellers offering lower prices by seeking them out rather than assuming such sellers do not exist.\textsuperscript{65} Increasing consumers’ accuracy in understanding prices may therefore be necessary for direct solutions to lessen the level of inflation fully.

Market improvement laws may also directly contribute to addressing inflation before structural solutions even arise. Structural and psychological factors can combine to contribute to high levels of inflation.\textsuperscript{66} For instance, if there are structural reasons for an additional price increase of 2 or 3 percentage points, people may expect the impact to be even higher, such as 8 percentage points. Moreover, the rapid changes in price mean that prices learned in past shopping trips are no longer relevant. Consequently, assessing current prices becomes more cognitively difficult. The research on behavioral economics suggests that the greater the cognitive load, the easier it is for sellers to charge anticompetitively higher prices.\textsuperscript{67} As a result, consumers may have more difficulty determining the true competitive price during inflationary times.

Businesses would be expected to exploit these consumer expectations and cognitive limits. Unfortunately, that issue has become politicized, as if the whole

\textsuperscript{64} See, e.g., OREN BAR-GILL, SEDUCTION BY CONTRACT 26 (2012) (summarizing behavioral economics pricing dynamics that operate independently of traditional measures of competition); Kelman, supra note 18, at 1263-64 (“Monopolists . . . might quickly realign prices after [a demand] shock to maximize revenues. The risk-averse, imperfectly competitive firm . . . may find it preferable to maintain historical mark-ups . . . .”) (“It is not apparent . . . how antitrust enforcement could counteract the sorts of oligopolistic structures most likely to exhibit atypically high levels of price rigidity.”); infra Part II.


\textsuperscript{66} See, e.g., Janet L. Yellen, Chair, Bd. of Governors of the Fed. Rsvr. Sys., Inflation Dynamics and Monetary Policy (Sept. 24, 2015) (“Today, many economists believe that these features of inflation in the late 1960s and 1970s—its high level and lack of a stable anchor—reflected a combination of factors, including . . . the emergence of an inflationary psychology whereby a rise in actual inflation led people to revise their expectations for future inflation. Together, these factors caused inflation . . . to ratchet higher over time.”).

\textsuperscript{67} See, e.g., Christine Jolls, Cass R. Sunstein & Richard Thaler, A Behavioral Approach to Law and Economics, 50 STAN. L. REV. 1471, 1477 (1998) (providing an overview of the behavioral economics research on consumers’ cognitive limitations); infra Part II.

Electronic copy available at: https://ssrn.com/abstract=4226318
problem of inflation can be reframed as “greedflation.” But once this conversation moves away from such framing, the idea that businesses would charge the highest prices possible simply restates the basics of how markets work. Furthermore, managers arguably have a fiduciary duty to charge the highest prices legally possible in order to maximize shareholder value, or would see themselves as having such a duty.

Managers may not ever even consciously decide to capitalize on inflation or be aware that such behavior is occurring. Many prices are set by automated algorithms instructed to maximize profits. An effective algorithm following those instructions would be expected to exploit whatever confusion arises from inflation, whether the manager knew that was happening. It is possible that whereas managers observing lowered costs as inflation subsides would lower prices assuming that consumers would expect such adjustments, algorithms would only do so once the consumers show, through market behavior, that they expect lower prices. Indeed, in theory, the algorithm could even learn from an inflationary period that prices could be more rapidly raised and encourage continued price increases. In other words, the algorithm would be trained to encourage inflation. Inflation would thereby become an algorithmically reinforced phenomenon. Although the research on automated pricing algorithms is still nascent, there is evidence that these algorithms tend to increase prices significantly.

At a minimum, policy makers would ideally consider the possible effects of algorithms on inflation. An anti-inflation toolkit that fails to consider the possible changes to inflation introduced by algorithmic pricing could produce more muted price reductions than in prior eras. That would necessitate even greater interest rate cuts to achieve the same level of price reduction as in the past, meaning more economic harm would be caused and an increased risk of recession. It follows that, in theory, market improvement laws that improve consumers’ ability to advance their interests in the face of algorithmic pricing could prove to be a valuable tool in either avoiding algorithmically enhanced inflation or in getting more of an anti-inflation effect from addressing the


See Infra Part II.
original causes of inflation.\textsuperscript{73}

Economic theory thus shows how effective market laws helping people to assess costs can be a crucial part of addressing structural inflation now that it is recognized that consumers are not perfectly rational. Without such laws, there is a risk that perceptions of inflation—and businesses’ inevitable efforts to exploit those perceptions—will cause inflation to endure long after the original structural contributors have ended.

\textbf{D. Policymakers Have Failed To Produce Efficient Laws}

One final theoretical issue can be seen in the skepticism about using market improvement laws against inflation. The skeptics implicitly assume that little or nothing more can be done to improve markets.\textsuperscript{74} That assumption might seem sensible at first glance because an independent basis exists for market improvement laws: efficiency. Efficiency has long been one of the most powerful influences in designing the law.\textsuperscript{75} Since market improvement laws already have such a persuasive intellectual cornerstone pushing them forward, it is understandable why observers might posit that the extra motivation added by inflation would be inconsequential. After all, if there are legal rules that would move markets toward perfection, they would improve efficiency and thus they would be expected to already exist.

If this assumption were true, lawmakers would have already passed up-to-date price transparency and antitrust laws and would have previously removed any excess governmental licensing. Under this assumption, the DOJ and FTC would also already have all the authority, resources, rationality, and motivation necessary to prevent price increases due to market failures. In such a world, there would be no additional room for legal reforms to push prices down and meaningfully address inflation.

However, that assumption is suspect. There is a rich literature establishing that laws are not passed as a result of a rational process that reflects society’s best interests.\textsuperscript{76} Laws are instead the product of a messy set of interest group

\textsuperscript{73} See infra Part II.
\textsuperscript{74} That assumption is implied by the logic that because competition failures did not cause inflation, market improvement laws cannot combat it. See supra Part I.B.
\textsuperscript{76} For prominent examples and applications of this vast literature, see \textit{John H. Ely, Democracy and Distrust: A Theory of Judicial Review} 16-18 (1980); \textit{Jerry L. Mashaw, Greed, Chaos, and Governance: Using Public Choice to Improve Public Law} 81-105 (1997); \textit{see also Dennis C. Mueller, Public Choice II} (1989) (summarizing public
advocacy and political considerations that often reflect powerful opposition to regulation and distribution. More specifically, scholars have observed these political economy dysfunctions in each of the three areas of market improvement laws. Consumers have had limited success in bringing about favorable price transparency and licensing laws because they are so dispersed, whereas concentrated industry lobbyists exert great influence on legislatures. And a consensus has emerged that the antitrust framework has fallen far short. Stated otherwise, the skeptics have inadequately considered how institutional dysfunctions make it unlikely that the law has done everything it can to prevent widespread market failures that cause high prices.

Ultimately, each of the theoretical points made in this Part hinges on an empirical claim about whether most of what can be done to address market failures has already been done. Thus, to have a full sense of the potential for market improvement laws to meaningfully reduce inflation, the next Part turns to the empirical evidence.

II. THE EVIDENCE: MARKET IMPROVEMENT LAWS CAN LOWER INFLATION

Part I showed that, in theory, inflation can be addressed by improving consumer markets, rather than by holding them back. That theory rests on two key empirical assumptions: (1) market failures significantly raise consumer prices, and (2) legal reforms can address those market failures. This Part summarizes the evidence relevant to both assumptions, divided into the three areas of market improvement laws: price transparency, licensing, and antitrust.

Before turning to that discussion, a caveat is in order. A well-known limitation of macroeconomics is the ability to predict magnitude, as demonstrated by the difficulty in estimating what the effects of any given interest

choice theory as applying economic theory to politics).

See e.g., Lee Ann Fennel & Richard H. McAdams, The Distributive Deficit in Law and Economics, 100 MINN. L. REV. 1051, 1052-53 (2016) (showing how law and economics operates under a questionable assumption that the desired distribution will subsequently occur but legislative shortcomings mean that such distribution may never result); MARTIN GILENS, AFFLUENCE & INFLUENCE: ECONOMIC INEQUALITY AND POLITICAL POWER IN AMERICA 81 (2012) (“[W]hen preferences between the well-off and the poor diverge, government policy bears absolutely no relationship to the degree of support or opposition among the poor.”).


rate hike will have on inflation. Microeconomics offers greater precision by studying a particular market, but a similar magnitude challenge plagues the study of aggregate market failures across the economy, in part because information about costs, prices, and preferences are often unavailable. Thus, market improvement laws face predictive difficulties, but since other anti-inflation tools face related limits that should not be grounds for dismissing market improvement laws. It bears emphasis that this Article’s core arguments do not depend on establishing any particular magnitude of market failure. They instead depend on concluding that there are price-increasing market failures that the law can address.

A. Market Failures Significantly Raise Consumer Prices

Despite empirical limits, a growing body of empirical research has begun to quantify the higher prices paid due to inadequate price transparency, occupational licensing, and antitrust laws. The following summary aims to provide a sense of the potential magnitudes rather than to establish any particular level of price increases.

1. Price Transparency Market Failures

Businesses systematically charge consumers higher prices by making it harder to compare options. The list of tactics that businesses use for this purpose is too vast to summarize. In one common strategy, known as drip pricing, businesses shift costs to later phases in the purchase process. Airlines charge fees for baggage, printer manufacturers charge high prices for ink refills, and Airbnb adds cleaning and convenience fees that significantly increase the final price beyond what originally appeared in the search results. Researchers have found that these practices weaken consumers’ ability to compare full prices—even if consumers know that those costs will be added later.
another example, companies offer teaser rates for online subscriptions or credit cards, knowing that many people will not follow through with unsubscribing or changing credit cards before the prices increase.\(^87\)

Behavioral surcharges are not limited to complex purchases. Jon Hanson and Douglas Kysar have documented how even in seemingly straightforward retail settings, sellers like Walmart and Target implement countless strategies to profit systematically from “market manipulation.”\(^88\) For instance, stores put higher-price items where most consumers’ eyes naturally gravitate on the shelves and misleadingly frame prices as being “discounted” from some original higher price.\(^89\) Building on that work, Ryan Calo demonstrated that the ability to influence people’s choices has only grown in the era of “digital market manipulation.”\(^90\) Sellers scientifically study details including facial patterns of people in advertisements, the ordering of items on the screen, and even which fonts are most likely to encourage purchasing.\(^91\) I later argued that such practices, both across retail and the broader economy, have important macroeconomic implications for issues such as inequality.\(^92\) These strategies, and countless more like them, may sound trivial, but for the purposes of anti-inflation, it is important to view them through an empirical lens.

Economists empirically studying the resulting price effects have consistently found that these strategies cause consumers to pay significantly more. For instance, excessively complex cell phone plans were associated with 8% higher consumer prices.\(^93\) Hiding mandatory fees on StubHub until later in the purchase process increased ticket payments by 21%.\(^94\) Even in straightforward online settings, where price comparisons are a click away, obscuring product descriptions and shipping costs is associated with price increases of 6% to 9%.\(^95\)


\(^{89}\) Id.


\(^{91}\) Id.

\(^{92}\) See Rory Van Loo, Helping Buyers Beware: The Need for Supervision of Big Retail, 163 U. PA. L. REV. 1311, 1387 (2015); ASDF .

\(^{93}\) Oren Bar-Gill & Rebecca Stone, Pricing Misperceptions: Explaining Pricing Structure in the Cell Phone Service Market, 9 J. EMPIRICAL LEGAL STUD. 430, 432, 453–54 (2012). The reference point for the comparison was the plan at the same cell phone carrier that would have saved the most money. Id.

\(^{94}\) Tom Blake, Sarah Moshary, Kane Sweeney & Steve Tadelis, Price Salience and Product Choice, 40 MKTG. SCI. 619, 619 (2021). Unlike with the cell phone plans, this research reflects strategies that pushed consumers toward a different product (a different seat) that was more expensive. Id.

\(^{95}\) Glenn Ellison & Sara Fisher Ellison, Search, Obfuscation, and Price Elasticities on the Internet,
In short, the empirical evidence has established that a lack of pricing transparency significantly increases prices by exploiting informational and behavioral market failures—even for products of identical quality. Moreover, many of these studies only look at one pricing strategy. Therefore, the full effects of multiple practices could produce even higher magnitudes of increased prices. Inflation policies designed in an era before these practices became widespread do not reflect a comprehensive understanding of consumer prices today.

2. Licensing Law Market Failures

Legislatures regularly enact laws that insulate existing market participants from competition and consequently produce higher prices in consumer transactions. For example, tariffs increase the prices of foreign sellers, thereby enabling domestic sellers to charge higher prices. Less widely recognized is the fact that state license laws protect about 30% of occupations. These laws require massage therapists, hair braiders, fortune tellers, and many others to satisfy various conditions to work. They typically mandate that the aspiring worker complete a year of expensive training, pay hundreds of dollars for a license, and pass a licensure exam that also comes with a fee. Some licensing provides valuable quality control, but the restrictions often go beyond what is needed for consumer protection—such as Louisiana and Tennessee statutes requiring that caskets only be sold by licensed sellers. Research indicates, for

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97 For instance, the study by Bar-Gill and Stone finding 8% increases in price looked only at consumers' mistakes in choosing among the plans offered by a single carrier. See Bar-Gill & Stone, supra note 93, at 453. Consequently, if the plan purchased was compared to the best deal available across all carriers, and factors beyond complexity were considered, the price increase could be significantly higher.
98 On the growth of such practices, see Bar-Gill, supra note 96, at 2-10; Ellison & Ellison, supra note 95, at 428.
102 See St. Joseph Abbey v. Castille, 712 F. 3d 215, 225 (5th Cir. 2013) (finding no rational
instance, that some licensing restrictions raise dental service prices by over 10% without improving oral health.\footnote{See Morris M. Kleiner & Robert T. Kudrle, \textit{Does Regulation Affect Economic Outcomes? The Case of Dentistry}, 43 \textit{J. L. \\& ECON.} 547, 573 (2000) ("[A] state that changed from a low or medium to highest restrictiveness could expect to see an increase in the price of dental services of about 11 percent."); Coady Wing \\& Allison Marier, \textit{Effects of Occupational Regulations on the Cost of Dental Services: Evidence from Dental Insurance Claims}, 34 \textit{J. HEALTH ECON.} 131, 132 (2014) (finding that limiting the authority of hygienists increases the prices of basic dental services by about 12%).} Evidence also suggests that legal reforms giving nurse practitioners greater licensing independence reduced prices by as much as 16% without diminishing the “quality and safety of health services.”\footnote{See Joseph Gyourko \\& Raven Molloy, \textit{Regulation and Housing Supply}, \textit{HANDBOOK OF REGIONAL AND URBAN ECON.} Vol. 5B 1289, 1295--96 (2015).} Economists’ rough estimate of the aggregate impact of licensing restrictions is that they raise consumer prices by about 15% across much of the service economy.\footnote{See GERALD R. BODISCH, U.S. DEPT. OF JUSTICE ANTITRUST DIVISION, \textit{ECONOMIC ANALYSIS GROUP, ECONOMIC EFFECTS OF STATE BANS ON DIRECT MANUFACTURER SALES TO CAR BUYERS} 4 (2009), https://www.justice.gov/sites/default/files/atr/legacy/2009/05/28/246374.pdf (estimating automobile price increases due to territorial monopolies at 8.6%).}


A final related category is zoning laws, which often make obtaining a government building permit far more onerous. For example, economists have found that such zoning regulations cause an estimated “regulatory tax” on single-family homes of over 50% of the total home value in the San Francisco Bay Area and over 20% in Boston.\footnote{See e.g., Daniel Crane, \textit{Tesla and the Car Dealers’ Lobby}, 24 \textit{REGULATION} 10, 12--14 (2014); Francine Lafontaine \\& Fiona Scott Morton, \textit{Markets: State Franchise Laws, Dealer Terminations, and the Auto Crisis}, 24 \textit{J. ECON.} PERSP, 233, 240 (2010).} The price impact varies greatly by location, and not all areas have zoning laws. However, because housing has a strong impact on inflation, even a few percentage points would prove particularly

basis for concluding that the statute helped safety, health, or consumer protection); Craigmiles \textit{v. Giles}, 312 F. 3d 220, 228–29 (6th. Cir. 2002) (finding that the statute whose true goal was “to privilege certain businessmen over others . . . cannot survive rational basis”).

See Morris M. Kleiner \\& Robert T. Kudrle, \textit{Does Regulation Affect Economic Outcomes? The Case of Dentistry}, 43 \textit{J. L. \\& ECON.} 547, 573 (2000) ("[A] state that changed from a low or medium to highest restrictiveness could expect to see an increase in the price of dental services of about 11 percent."); Coady Wing \\& Allison Marier, \textit{Effects of Occupational Regulations on the Cost of Dental Services: Evidence from Dental Insurance Claims}, 34 \textit{J. HEALTH ECON.} 131, 132 (2014) (finding that limiting the authority of hygienists increases the prices of basic dental services by about 12%).


meaningful for inflation.\textsuperscript{109}

3. Antitrust Market Failures

The empirical study of antitrust is, in many ways, less reliable than research in other areas of market improvement laws. Nonetheless, it provides reason to believe that antitrust could play a meaningful role in lowering prices. Economists have linked many mergers and high levels of industry concentration with lower consumer welfare and higher prices.\textsuperscript{110} In one of the most prominent studies, John Kwoka looked at 50 mergers and found that most of them increased prices, typically by about 10%.\textsuperscript{111}

Whereas Kwoka’s examination covered numerous industries, others have focused on particular industries. For instance, since the mid-1990s alone, over 1,000 hospital mergers have occurred.\textsuperscript{112} A large body of research demonstrates that hospital mergers have overall led to higher prices, but not necessarily improvements in health care quality.\textsuperscript{113} The most comprehensive of these studies, a longitudinal analysis of 97 mergers between 1989 and 1996, found that hospital mergers led to price increases of 40%.\textsuperscript{114} Studies have found price

\begin{footnotes}
\item[110] See Orley Ashenfelter et. al., \textit{Did Robert Bork Undersate the Competitive Impact of Mergers'\ Evidence from Consummated Mergers}, 57 J.L. & ECON. S67, S79 (2014) (overall, the results from the retrospective literature on mergers show that mergers in oligopolistic markets can result in economically meaningful price increases); see also Louis Kaplow & Carl Shapiro, \textit{Antitrust, in HANDBOOK OF LAW AND ECONOMICS 1073, 1112} (A.M. Polinsky & S. Shavell Eds. 2007) ("Collusive outcomes are less likely to occur in industries with more firms . . .").
\item[111] \textbf{JOHN KWOKA, MERGERS, MERGER CONTROL, AND REMEDIES: A RETROSPECTIVE ANALYSIS OF U.S. POLICY} 39-46 (2015). One limit is that the mergers chosen to be studied were more likely to have been suspected of being problematic beforehand. Consequently, this result is more indicative of the existence of many mergers that increase prices, rather than of the percentage of mergers that do so.
\item[113] See, e.g., Barak D. Richman, \textit{Antitrust and Nonprofit Hospital Mergers: A Return to Basics}, 156 U. PA. L. REV. 121, 125 (2007) ("Recent studies suggest that market power pervades the health care sector and is responsible for a torrent of supra-competitive—and even supramonopoly—prices."); Ashenfelter et al., \textit{supra} note 110, at 864–885 tbl.3 (summarizing post-merger hospital studies with findings ranging from no price increase to increases of 30%, 65%, and 80%).
\end{footnotes}
increases following mergers in other areas as well, including banking, insurance, and food and beverage.

Despite this evidence, estimating prices at specific points in time before and after individual mergers faces methodological limitations because other factors may contribute to the measured price differences. It is also difficult to know what to make of the literature finding that, over the past several decades, most industries have become more concentrated and dominated by an ever-shrinking number of competitors. The presence of large businesses in a concentrated industry with high markups cannot, by itself, establish that the high markups are caused by the concentration of the industry. Increased productivity and quality—such as Apple’s advancements in smartphone quality—can contribute to higher markups in concentrated industries. And some mergers and industry consolidation have surely lowered prices. Thus, the evidence about how industry consolidation has affected consumers is mixed, but suggests that in at least some industries there are opportunities to promote more competitive prices by improving antitrust enforcement related to mergers and industry structure.

Another potential source of antitrust-related price inflation comes not from mergers or industry concentration, but from price coordination among firms. One prominent example is the pharmaceutical industry. After their patents


116 See, e.g., Leemore Dafny, Mark Duggan & Subramaniam Ramarayanan, Paying a Premium on Your Premium? Consolidation in the U.S. Health Insurance Industry, 102 AM. ECON. REV. 1161, 1163 (2012) (finding that health insurer consolidation may have caused a 7% increase in premiums).

117 See, e.g., supra note 110, at S79 (finding anticompetitive price increases of 3% for cereal, 1% to 7% for liquor, 4% to 13% for soft drinks, 9% for milk).

118 For example, for mergers economists often use a difference-in-differences methodology to compare prices in control group markets unaffected by the merger to prices—before and after—in markets affected by the merger to determine whether margins have increased anticompetitively, rather than relying on businesses’ actual cost and price data. See John Simpson & David Schmidt, Difference-in-Differences Analysis in Antitrust: A Cautionary Note, 75 ANTITRUST L.J. 623, 624 (2008) (discussing assumptions underlying difference-in-differences estimations). This requires locating a similar control group, such as a different geography or stores’ own brands, presumed to be unaffected by the merger. See id.

119 Among other reasons, the mechanism for the overcharge cannot necessarily be identified from any given study—it might be actual collusion, a rational avoidance of price wars, or algorithmically driven. Nor is a problematic level of concentration necessarily the result of anticompetitive conduct or mergers. For a review of this literature, see Steven Berry, Martin Gaynor & Fiona Scott Morton, Do Increasing Markups Matter? Lessons from Empirical Industrial Organization, J. ECON PERSPS. 44, 60 (2019).

120 See Berry et al., supra note 119, at 46-47.


122 See, e.g., supra note 110, at S90 tbl.5, S92 tbl.5.
expire, drug companies such as Pfizer, Merck, and Johnson & Johnson often pay other companies to refrain from offering competing drugs. One estimate put the resulting annual price increase at a 5% increase in the costs of pharmaceuticals.\textsuperscript{123}

Usually, however, price coordination occurs in a more hidden manner. Legal scholars have argued that unprosecuted price-fixing is widespread.\textsuperscript{124} According to various studies, price-fixing has raised prices to U.S. consumers by 18% to 37% in markets ranging from baby food to cosmetics.\textsuperscript{125} The total cost to consumers globally is estimated to reach over half a trillion dollars.\textsuperscript{126}

Price-fixing may be far more of a problem in today’s economy because prices are increasingly set using algorithms. Businesses’ programmers typically instruct algorithms to find the profit-maximizing price, meaning that the “invisible hand” has become the “digitized hand.”\textsuperscript{127} Intelligently maximizing profits inevitably amounts to finding ways to set prices above competitive level.\textsuperscript{128} Moreover, the potential magnitude of resulting price increases can be large, with one study showing gas prices increased by 9% to 28% after gas station owners switched from traditional to algorithmic pricing.\textsuperscript{129} It is thus plausible, if

\begin{itemize}
\item\textsuperscript{126} JOHN M. CONNOR, \textit{GLOBAL PRICE FIXING 1}, 46-47 (2d ed. 2008) (estimating price-fixing impact on prices globally based on samples); see also Ludovic Panon & Flavien Moreau, \textit{Macroeconomic Effects of Market Structure Distortions 1}, (April 25, 2022) (unpublished manuscript), https://ssrn.com/abstract=4106663 (estimating that breaking down French cartels would increase welfare by 3.5%).
\item\textsuperscript{127} See, e.g., Ariel Ezra\textsuperscript{hi} & Maurice E. Stucke, \textit{VIRTUAL COMPETITION: THE PROMISE AND PERILS OF THE ALGORITHM-DRIVEN ECONOMY 27} (2016) (showing how algorithms increasingly set prices); STEPHANIE ASSAD, EMILIO CALVANO, GIACOMO CALZORI, ROBERT CLARK, VINCENTO DENDICOLÒ, DANIEL ERSHOV, JUSTIN JOHNSON, SERGIO PASTORELLO, ANDREW RHODES, LEI XU, MATTHIJ\textsuperscript{s} WILDENBEEST, \textit{Autonomous Algorithmic C\textsuperscript{e}llation: Economic Research and Policy Implications}, 37 OXFORD REV. ECON. POLY 459 (2021) (explaining that a whole industry has arisen of third parties promising businesses help with pricing optimization).
\item\textsuperscript{128} For sophisticated modeling demonstrating this proposition, see Emilio Calvano, Giacomo Calzolari, Vincenzo Dendicolo, & Sergio Pastorello, \textit{Artificial Intelligence, Algorithmic Pricing, and Collision}, 110 AM. ECON. REV. 3267 (2020); and Assad et al., supra note 127, at 460.
\item\textsuperscript{129} See Assad et al., supra note 127, at 463-64. The researchers inferred the timing of adoption of algorithmic pricing, which creates some limitations for these findings. \textit{Id.} at 5.
\end{itemize}
not expected, that algorithms expand what was already believed to be a high level of undetected price-fixing throughout the economy.\textsuperscript{130}

In sum, it would be difficult to estimate the precise total level of market failures causing higher prices across the economy. However, one would need to ignore the empirical evidence, or place unwarranted faith in markets, to not recognize that there are widespread market failures. The harder task is predicting what the law can do about these market failures.

\textbf{B. Market Improvement Laws Can Work}

A causal relationship between market failures and high prices implies, but does not necessarily prove, that the law can address those high prices. Given limited governmental resources and reluctance to intervene in markets, it is important to consider the evidence about whether market improvement laws might work.

1. Price Transparency Laws

Many consumer laws have the effect of lowering prices. Yet the absence of scholarship considering consumer laws as a response to inflation suggests that this basic function of consumer laws is not broadly understood. One explanation for that inattention is that price is a central concept in antitrust analyses, but consumer laws focus on a company’s behavior being unfair or deceptive without needing to offer evidence of a price effect.\textsuperscript{131}

Part of the disconnect may also be that the few consumer laws that explicitly target prices only apply in narrow circumstances. Most notably, price gouging laws prohibit sellers from exploiting crises to charge considerably more. For example, sellers risk prosecution if they dramatically increase the price of masks upon the start of a pandemic.\textsuperscript{132} Another visible area of consumer pricing laws prohibits “unconscionably” high pricing practices in areas such as pharmaceuticals and mortgages, which have been described as practices significantly varying from industry standards.\textsuperscript{133} Neither price gouging nor unconscionability doctrines are helpful in broadly addressing inflation. They are

\textsuperscript{130} Although Ezrachi and Stucke stated this most clearly in the context of competition, and others have added evidence to this effect. See E\textsc{zrachi} & S\textsc{tucke}, supra note 127, at 32-33; Salil K. \textsc{mehra}, \textit{Antitrust and the Robo-Seller: Competition in the Time of Algorithms}, 100 \textsc{minn. l. rev.} 1323, 1325-27 (2016); Assad et al., supra note 127, at 461.

\textsuperscript{131} See, e.g., \textsc{katherine porter}, \textsc{modern consumer law} 1-3 (1st ed. 2016) (summarizing some of the confusion surrounding consumer law’s identity).

\textsuperscript{132} See Michelle M. \textsc{mello} & \textsc{rebecca e. wolitz}, \textit{Legal Strategies for Reining in “Unconscionable” Prices for Prescription Drugs}, 1143 \textsc{nw. u. l. rev.} 859, 897 (2020).

\textsuperscript{133} See \textit{id.} at 934, 955 (summarizing laws related to unconscionable pricing); 940 C.M.R. § 8.06(6) (prohibiting mortgage lenders from offering terms that “significantly deviate from industry-wide standards or which are otherwise unconscionable.”)
designed to address unusual instances of extreme price hikes, not routine and systemic price increases of a few percentage points.\textsuperscript{134}

Instead, an area of consumer law offers more promise in addressing inflation despite the reality that is less commonly understood to be about prices. What this Article refers to as price transparency laws is more commonly known as disclosures or nudges and seeks to contain the everyday pricing practices that companies deploy.

In several field experiments, simply providing consumers with helpful information lowered the prices those consumers paid. In one experiment, researchers found that sending Medicare recipients a letter advising which of the available plans would be best saved recipients 5\% in out-of-pocket expenses.\textsuperscript{135} In another, disclosures at the point of sale for payday loans lowered borrowing costs by 11\%.\textsuperscript{136}

Other studies have looked at the impact of new laws or policies on prices. For instance, consumers paid 20\% less for gas following a law that required electronic billboards on the highways to show all nearby gas stations’ prices.\textsuperscript{137} Additionally, as mentioned above, an Israeli statute that required stores to make their prices and product information available in machine-readable formats was associated with a reduction in price of 4\% to 5\%.\textsuperscript{138}

Other studies have looked at interventions that sought to help consumers better calculate prices. For example, many states have mandated that grocery stores provide unit pricing labels on the shelf to facilitate price comparisons.\textsuperscript{139} These rules require stores to list per unit prices alongside the full purchase price, like the price per ounce of peanut butter or per battery. This allows shoppers to compare offerings of differing sizes and determine which items are cheapest without needing a calculator.\textsuperscript{140} Studies suggest that consumers use these labels to save money in their purchase choices. Even a basic application of unit pricing

\textsuperscript{134} Additionally, price-gouging laws are seen as potentially inefficient, contributing to shortages by eroding market forces. See id. at 882.


\textsuperscript{138} Ater & Rigbi, supra note 31.


\textsuperscript{140} Id.
led to 1% savings.\textsuperscript{141} When combined with other tools for comparison, such as an education campaign, information on unit price disclosures led to 10% to 13% savings.\textsuperscript{142}

Another category aimed at improving the analysis of information focuses on the algorithms that increasingly direct people to their ultimate purchase. In one study with unusual access to internal company data, economists found that a subtle change to eBay’s algorithm saved consumers 5% to 15% by returning lower-priced search results first.\textsuperscript{143} Yet search results are almost entirely unregulated, and companies have an incentive to increase the prices that consumers pay.\textsuperscript{144} It follows that laws pushing online marketplaces toward more helpful search results could bring consumers considerable savings.

This discussion should not be read to imply that consumer price laws are straightforward. Disclosures take careful design, and measurement of results, to avoid waste or even counterproductive effects.\textsuperscript{145} These complications are described in greater depth below. Note, however, that the importance of design underscores how many of the above interventions could be improved, providing even greater price reductions. For instance, the 5% Medicare savings resulted from text inserted into a letter that many people presumably did not read. The researchers observed that had all Medicare patients followed the advice, the average savings would have been 31%.\textsuperscript{146} And while the Israeli statute produced results from mandating machine-readable disclosures, more active support for helpful digital intermediaries that would analyze all available prices for the consumer could create more powerful shopping tools, putting even greater price pressure on sellers.\textsuperscript{147} Thus, the empirical evidence suggests that price


\textsuperscript{142} Clinton S. Weeks, Gary Mortimer & Lionel Page, \textit{Understanding How Consumer Education Impacts Shoppers Over Time: A Longitudinal Field Study of Unit Price Usage}, 32 J. RETAILING & CONSUMER SERVS. 198, 206 (2016) (using a field experiment to quantify the savings from educating consumers about unit prices); see also AUSTRALIAN COMPETITION & CONSUMER COMM’N, REPORT OF THE ACCC INQUIRY INTO THE COMPETITIVENESS OF RETAIL PRICES FOR STANDARD GROCERIES 449 (2008) (estimating a 1% savings across all consumers by improving existing unit pricing laws); James Binkley, \textit{Prices Paid in Grocery Markets: Searching Across Stores and Brands}, 47 J. CONSUMER AFF. 465, 466 (2013) (finding that improved price comparison approaches within stores led to 10% savings).

\textsuperscript{143} Michael Dinerstein et al., \textit{Consumer Price Search and Platform Design in Internet Commerce}, 108 AM. ECON. REV. 1820, 1821 (2018).

\textsuperscript{144} More specifically, they have an interest in maximizing what people pay up to the point that those prices do not drive people to shop elsewhere. See Frank Pasquale, \textit{Internet Nondiscrimination Principles: Commercial Ethics for Carriers and Search Engines}, 2008 U. CHI. LEGAL F. 263, 267 (2008)


\textsuperscript{147} For an exploration of such a proposal, see Rory Van Loo, \textit{Helping Buyers Beware: The Need
transparency laws can significantly lower prices in a variety of markets.

2. Removing Licensing Restrictions Can Lower Prices

Unlike price transparency and antitrust laws, addressing higher prices that result from governmental licensing requirements has a more straightforward legal solution: removal of the laws that require those licenses. The above studies estimating price increases suggest that the removal of excess occupational licensing laws, territorial restrictions for car dealerships, and zoning laws would significantly lower prices.\footnote{See supra Part I.} Indeed, some of that research goes beyond just estimating price increases resulting from licensing by also modeling the effects of removing such laws.\footnote{For instance, one study found that prices would decrease by 4.5% in a range of services if Arkansas lowered its occupational licensing restrictions to match those of neighboring Mississippi. \textsc{Thomas J. Snyder, Arkansas Center For Research In Economics, The Effects of Arkansas’ Occupational Licensure Regulations} 3 (2016), https://uca.edu/acre/files/2016/06/The-Effects-of-Arkansas-Occupational-Licensure-Regulations-by-Dr.-Thomas-Snyder.pdf}

More direct evidence also comes from studies of licensing laws that have already been improved. For instance, in jurisdictions that expanded the role of nurse practitioners and allowed them to provide medical services previously only administered by doctors (albeit still supervised in a doctor’s office), prices lowered an estimated 3% to 16%.\footnote{Brandon Pizzola & Alexander Tabarrok, \textit{Occupational Licensing Causes a Wage Premium: Evidence from a Natural Experiment in Colorado’s Funeral Services Industry}, 50 INT’L REV. L. & ECON. 50, 52 (2017).} As another example, in 1983, Colorado lawmakers removed licensing requirements mandating that anyone offering funeral services must have graduated from a mortuary college, trained for a year, and passed oral and written license examinations.\footnote{See Pizzola & Tabarrok, supra note 151, at 53. Prices differences in Colorado were compared to price changes over the same time period in other states that did not have such a removal. \textit{Id.}} A comparison of the resulting prices in Colorado before and after that licensing removal found that the reforms lowered prices in Colorado by 15%.\footnote{For a summary of this empirical literature, see supra Part II.A.} This direct evidence indicates that improvements to widespread licensing laws would lower prices substantially.

3. Antitrust Reforms Can Lower Prices

Although the above empirical evidence suggests that effective antitrust would lower prices, that does not mean we can be confident that antitrust
reforms would produce such results. It would be ideal to have evidence of antitrust reform impacts. Unfortunately, there is limited evidence that speaks directly to the question of how antitrust reforms would work in the U.S. economy. A big part of the challenge is simply methodological. Changes to price transparency and licensing laws are more readily studied because they occur more frequently and offer researchers the ability to compare prices before and after a statutory legal reform.\footnote{See Kleiner et al., supra note 104, at 286; Pizzola & Tabarrok, supra note 151, at 53.} In contrast, new market-wide antitrust laws have been enacted less frequently and new policies are typically implemented through ex post law enforcement processes against individual firms. It is difficult to measure the market-wide deterrence effects of individual antitrust enforcement actions.\footnote{Gregory J. Werden, Assessing the Effects of Antitrust Enforcement in the United States, 156 DE ECONOMIST 433 (2008).} Consequently, there are simply fewer rigorous studies of antitrust law’s ability to lower prices.

Although it is debatable what level of confidence can be had based on the existing evidence, a patchwork of studies speak to this fundamental question of antitrust effectiveness. Studies from decades ago found that in the months and years after the filing of a successful price-fixing antitrust complaint, antitrust actions for price-fixing or collusion lowered prices by several percentage points.\footnote{George Stigler & James K. Kindahl, The Behavior of Industrial Prices 92 (1970) (finding that commodities prices lowered between .7 and 2.4 percent three months after the complaint and from 2.2 to 4.4 percent in the nine months after the complaint). But see Michael F. Sproul, Antitrust and Prices, 101 J. POL. ECON. 741 (1993) (“In a survey of 25 cases filed between 1973 and 1984, prices are found to gradually rise by about 7 percent over the 4 years following an indictment.”).} If scholars are correct that most cartels go undetected,\footnote{Peter G. Bryant & E. Woodrow Eckard, Price Fixing: The Probability of Getting Caught, 73 REV. ECON. & STAT. 531, 535 (1991) (finding that only 13% to 17% of cartels are detected).} these empirical studies suggest that finding a way to prosecute those cartels successfully would lower prices.\footnote{However, designing such a regime is complicated. See Leslie, supra note 124, at 1265 (proposing changes to the antitrust regime to allow for greater prosecution of price fixing); Sokol, supra note 124, at 848 (proposing stronger price-fixing enforcement through the use of corporate monitors); infra Part III.} Of course, this raises the question of whether such legal authority exists or could be enacted—a topic returned to below in the discussion of administrability. But for now the point is simply that there is empirical support for tentatively concluding that a stronger regime for addressing price fixing could yield help with inflation.

Antitrust enforcers’ ability to address industry concentration is less clear. Part of the problem is simply that the most powerful remedy—breaking up companies—is seldom applied in the U.S.\footnote{See Kwoka, supra note 111, at 126-32. For a critique of the analytic approach to divestitures in the U.S., see Van Loo, supra note 30, at 1955.} Moreover, empirical studies of existing U.S. antitrust interventions tend not to quantify the price effects,
presumably due to methodological differences.\textsuperscript{160}

The most helpful study comes from the Netherlands, where a new law forced some owners to divest gas stations chosen at random.\textsuperscript{161} It found that when concentrated gas stations were broken up, prices decreased by 1.3 to 2.3\%.\textsuperscript{162} Those findings come with the caveat that they do not reflect a large-scale organizational breakup. Instead, the study measured the effects of the forced sale of existing gas stations whose day-to-day operations presumably could remain uninterrupted.\textsuperscript{163} Although these findings are limited in terms of magnitude and market applicability, they provide some cautious support for the possibility of using divestitures in at least some contexts to lower prices.

Finally, a newer wave of research has begun to look at the strength of the overall competition policy of a country in order to determine the effects of those policies on markets.\textsuperscript{164} This metric assesses antitrust regimes in terms of factors such as the ability to impose significant penalties for violations, the level of investigative authority, and the intensity of oversight applied by enforcers.\textsuperscript{165} Although this metric has limits, a recent cross-country study found that when countries adopt stronger competition policies, prices decrease.\textsuperscript{166}

Finally, the above studies finding that some mergers have led to price increases point to a straightforward policy solution. If the antitrust regime could be better calibrated to block mergers that would anticompetitively increase prices, those reforms could over time prevent price increases that would otherwise happen.\textsuperscript{167}

Thus, although antitrust overall lacks the same direct evidence of success as price transparency and licensing reforms, there is at least some limited empirical support for concluding that antitrust interventions reduce prices. Some of the most promising new policies to significantly lower prices would be those that might address undetected price-fixing and algorithmic collusion. The variability of policy options not only within antitrust but also among all market improvement laws speaks to the importance of a framework for deciding among anti-inflation policy options.


\textsuperscript{162} Id. at 469.

\textsuperscript{163} See id.


\textsuperscript{165} Id.

\textsuperscript{166} See, e.g., Zac et al., supra note 164, at 28-29 (finding price and profits higher in low-competition policy index countries).

\textsuperscript{167} Again, this is relevant to inflation because it means that less interest rate increases would be needed than would otherwise be the case to reach a target inflation level. See supra Part I.
III. DESIGNING ANTI-INFLATION LAWS

The preceding discussion has shown the theoretical and empirical foundations for using market improvement laws to address inflation. The evidence strongly suggests that consumers face difficulties finding the best deals and that in many markets well-designed market improvement laws can lower the prices paid at magnitudes that would offset a meaningful amount of inflation. This Part offers a framework for choosing among anti-inflation policies. The goal is to comprehensively compare underappreciated microeconomic options, such as market improvement laws, to those more macroeconomic options that tend to be the default choice. It then sketches in greater detail what it would mean to integrate market improvement laws during an inflationary period.

A. A Framework for Choosing Inflation Laws

Even after recognizing that market improvement laws have significant potential to lower prices, policymakers are faced with the task of deciding how to prioritize among the various anti-inflation laws. Yet in the rare academic discussions of how more microeconomic laws may address inflation, there is usually an absence of any framework for choosing among options. The discussion above has indicated four key criteria that can be used to choose among policy options: direct magnitude, indirect structural support, administrability, and side effects. Analytic shifts in applying these criteria would help to better incorporate microeconomic laws into inflation.

1. Direct magnitude. The direct magnitude refers to the percentage of reduction in inflation as an immediate consequence of the policy. At first glance, this is one metric on which market improvement laws come up short compared to macroeconomic tools such as interest rate hikes. In theory, the Federal Reserve could raise interest rates from its current level of roughly 2% to something dramatically higher, like 40%, to tame high levels of inflation. Similarly, in a command-and-control economy, price controls can dictate the level of inflation and thereby, in theory, reduce fifty points of inflation or more.

In contrast, market improvement laws have built-in limits to their impact on prices because businesses can only lower prices so far before operating at a

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168 See, e.g., Handler, supra note 12 (considering the role of antitrust in inflation without clarifying a framework for making such a choice); Aneil Kovvali, Countercyclical Corporate Governance (forthcoming N.C. L. Rev.), https://ssrn.com/abstract=4043883 (offering a framework for incorporating inflation and other macroeconomic considerations into corporate governance but not for choosing among responses to inflation).

169 See Rubin, supra note 28.

170 There are, of course, practical constraints that will be discussed below.
loss. Additionally, there is great variability in the magnitude of price decreases from market improvement laws across industries, making it difficult to know the precise magnitude achievable across the entire economy.

One caveat is in order when comparing magnitude. Any such analysis must consider practical institutional limits. For instance, interest rates can only be raised to certain levels before the costs (especially low growth and unemployment) become too high to push further. Consequently, the various criteria for anti-inflation laws influence one another. In this case, the criterion of direct magnitude interacts with negative side effects, which can limit the practical magnitude of a mechanism.

Nonetheless, putting other criteria aside for now, there is reason to think that the direct magnitude of market improvement laws has been underestimated. This underestimation illuminates how an anti-inflation framework should analyze magnitude. Relevant academic and policy conversations have focused on antitrust. Yet among the three major areas of market improvement laws, antitrust offers the most limited empirical support for concluding that there is a possibility of high magnitude. Aggregated together, the market improvement laws discussed herein have a much larger potential total anti-inflation magnitude than antitrust alone.

The broader point here is that a siloed approach to considering microeconomic laws has weakened analyses of anti-inflation laws’ direct magnitude. With respect to market improvement laws, the analysis of antitrust law’s magnitude without related areas of law has obscured the relevance of market failures to inflation. For a comprehensive estimate of the direct magnitude of anti-inflation policies, it will sometimes be necessary to combine various areas of law that are united by a common economic frame.

Moreover, academics and policymakers may have underappreciated market improvement laws’ direct magnitude even within some of the three areas of law discussed herein. Studies of market improvement laws are often scattered among various markets, such as gasoline, food, and cell phone plans. These individual microeconomic studies do not immediately provide macroeconomic magnitudes. To conceptualize the magnitude of a specific type of reform, such as price transparency laws, observers must synthesize various micro-level empirical studies into a macro-level magnitude.

Thus, narrow analytic blinders must be removed to obtain a more comprehensive sense of the potential direct magnitude of anti-inflation laws. The question of magnitude must not only look across areas of law that would traditionally be considered separate, such as consumer law and antitrust. Those

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171 See supra Part I.
172 See supra Part II.
173 See supra Part I.
174 See supra Part II.
175 See supra Part II.
interdisciplinary areas of law must also be studied across diverse markets, ranging from groceries to gasoline, to see how market policies are worth being in the conversation about fighting inflation.

2. Indirect structural support. The direct magnitude analysis discussed above is not by itself sufficient to understand the full contributions that an anti-inflation policy has to offer. Some policies, like market improvement laws, have the potential to provide indirect support to other anti-inflation laws. That complementary role must also be weighed.

As mentioned above, structural solutions to inflation (such as ending China’s COVID lockdown) may not work unless consumers have the capacity and motivation to effectively compare prices. Price transparency is thus crucial for helping to ensure that structural solutions, like repairing the supply chain, swiftly impact prices paid. This complementary role in addressing inflation constitutes the second criteria in this Article’s framework, indirect structural support.

The indirect structural support provided by other anti-inflation tools are less clear. In theory, antitrust enforcement and licensing reforms should also indirectly help other interventions because competitive pressures would push companies to pass on any sudden supply-chain savings to customers. However, there is some limited evidence that oligopolies may be quicker than firms in more competitive industries to pass on later cost savings to consumers. If that research is correct, antitrust would provide less indirect structural support for anti-inflation than price transparency laws. Nor do price controls and interest rates offer such indirect support that make it more likely direct solutions will work.

Consequently, the failure to consider the indirect ways that anti-inflation laws may operate can distort the design of the policy response. In particular, the failure to consider this criterion biases the choice away from price transparency laws. Another way of thinking about structural support is as contributing to a more comprehensive picture of the full magnitude of the policy response.

176 See supra Part I.C.

177 Adriaan Ten Kate & Gunnar Niels, To What Extent are Cost Savings Passed on to Consumers? An Oligopoly Approach, 20 EUR. J. L. & ECON. 323, 324 (2005) (“In oligopoly it turns out to be exactly the other way round. When competition is strong individual firms are price takers and do not pass on their firm-specific cost savings to price; when competition is weak individual firms have more influence on price and tend to pass on their cost savings to a greater extent.”). It seems counterintuitive at first that oligopolies would be more likely to pass on cost savings. One possible explanation is that oligopolies do not need inflation to charge higher prices, because their market power in normal times allows them to do already charge closer to the profit-maximizing price. A monopoly at some point will not want to charge higher prices because higher prices decrease demand, and at a certain point the higher price brings less profits. In contrast, firms in less concentrated industries have a harder time raising prices in normal times and thus may be less interested in giving up those higher prices if they can avoid doing so.
3. Administrability. Administrability refers to the feasibility of effectively implementing the policy. Anti-inflation policies would ideally not only lower prices, but do so reasonably rapidly and with some degree of confidence. At first glance, these considerations cast doubt on at least some types of market improvement laws, since many of those reforms come with the risk of failure—especially antitrust laws and poorly designed disclosure mandates. Additionally, market improvement laws involve decisions by various regulators, judges, and attorneys general. The dispersed nature of that implementation creates administrability challenges. And economists studying inflation have assumed that antitrust reforms take years to affect prices. Whether those perspectives are correct is subject to debate and will be returned to shortly, but it is necessary to recognize that the general perception has been that market improvement laws are low on administrability.

In contrast, policy makers are more likely to feel confident that raising interest rates will lower inflation because this tool has been used repeatedly for that purpose in the past. It is also institutionally straightforward to implement—requiring a single administrative agency, the Federal Reserve, to make a single decision. Strictly enforcing price caps can also immediately lower the prices that consumers pay, although it is more institutionally complicated because it mostly requires the passage of legislation.

While these advantages to interest rates and price caps are real, they should not be exaggerated. The political response to interest rates and price controls adds unpredictability, as backlash may ensue from their potentially devastating economic side effects. That backlash may get in the way of interest rate reductions’ ability to fully address inflation.

The direct magnitude of inflation reduced by interest rate hikes is also difficult to know in advance due to macroeconomic conditions that differ from those in previous inflationary periods. Additionally, it typically takes a year

178 The extent to which established interventions from one market will work in a different market is especially uncertain.
179 See, e.g., David Brancaccio & Jarrett Dang, Another Cure for Inflation? Making Markets More Competitive, MARKETPLACE, Apr. 1, 2022, https://www.marketplace.org/2022/04/01/another-cure-for-inflation-making-markets-more-competitive (quoting professor of economics Trevon Logan as observing that with competition policies “we’d be talking several years before that might impact prices.”).
181 See supra Part I.B.
182 There is also some broader controversy about how inflation interacts with interest rates. See Mishkin, supra note 45, at 213 (“[T]he apparent ability of short-term interest rates to forecast
before interest rates meaningfully hit inflation, with peak impact occurring at close to two years.183 Price controls can have a more immediate impact on prices, but they are extremely difficult to administer beyond the short term, as they effectiveness uncertain.184

Moreover, differences in administrability are difficult to compare rigorously. Some market improvement laws have been found to lower prices considerably in specific markets.185 They can also do so on a relatively short timeline, with one field experiment finding that consumer education campaigns lowered prices paid by about 17% to 18% within six weeks.186 In contrast, legislative interventions often take time to design and then pass, introducing additional delays. However, many other avenues exist for a more immediate impact on consumer prices, such as administrative agencies or attorneys general enforcing current laws more aggressively.187

Antitrust faces more significant administrability challenges than price transparency laws. Even if it is assumed that industry concentration contributed to high prices, it is not clear what can be done about that on a short timeframe. Breaking up large companies would be the most direct response, but breakups take years and cost billions of dollars to implement.188 As a result, even a successful breakup could increase prices in the short term, and often requires years to be effective. Additionally, antitrust enforcers can only prosecute a small number of cases at any time and must act against individual firms, meaning that it could take decades to go through all the major industries and bring cases against individual companies.189 Discouraging cartels and collusion could

184 FRIEDMAN, supra note 43, at 135.
185 See supra Part II.
186 See Weeks et al., supra note 142, at 206 (observing that these peak savings six weeks after the unit pricing materials were sent and that the savings declined to 11% to 13% by the end of the study at 20 weeks).
187 See infra Part III.C.
188 See infra Part III.C.
produce faster results, although detecting price-fixing is not without its challenges.\textsuperscript{190}

Perhaps the most straightforward market improvement laws in terms of design is the removal of existing licensing laws. However, even those reforms ideally would be implemented in a thoughtful manner to preserve valuable consumer protections. And because most licensing laws are at the state or local level, there is a complicated legislative and judicial path to reforming such laws in a systematic manner.\textsuperscript{191} Another potential legal avenue for challenging governmental licensing regimes is through laws that protect rights, such as the Equal Protection Clause, since licensing laws often have a discriminatory effect in terms of who they block from obtaining employment or affordable housing.\textsuperscript{192}

Overall, the criterion of administrability disfavors market improvement laws as a tool for fighting inflation, to varying degrees depending on the sub-category. But it is important not to exaggerate the administrability challenges of market improvement laws compared to interest rates and price caps, which also face institutional difficulties. It is also important not to give administrability greater weight than other criteria, like side effects.

4. Side effects. Finally, the policy’s side effects must be considered. This criterion has traditionally focused only on the economic sacrifices that must be made to control inflation.\textsuperscript{193} Consequently, it has had less of an influence than it

\textsuperscript{190} For scholars’ proposals to address this limitation, see infra Part III.B.

\textsuperscript{191} See Aaron Edlin and Rebecca Haw Allensworth originally argued and the Supreme Court ultimately confirmed in part. See Edlin & Haw, supra note 79, at 1099, 1100 (proposing “competitor-dominated boards that regulate their own competition and the entry of competitors . . . be treated as private actors and subject to antitrust review unless their acts are both (1) pursuant to the state’s clearly articulated purpose to displace competition and (2) subject to active state supervision”); N. Carolina State Bd. of Dental Examiners v. F.T.C., 574 U.S. 494, 495, 496 (2015) (holding that state licensing boards were not immune from antitrust laws) (explaining that for a licensing board to be immune from federal antitrust law, its anticompetitive conduct must be “clearly articulated and affirmatively expressed as state policy” and the policy must be “actively supervised by the state.”); Rebecca Haw Allensworth, Foxes at the Henhouse: Occupational Licensing Boards Up Close, 105 CAL. L. REV. 1567, 1579 (2017) (“Since the Court’s decision in North Carolina Dental, issued in February 2015, over a dozen suits have been filed against state licensing boards alleging Sherman Act violations and arguing that the board is not subject to state action immunity.”); Daniel A. Crane, Tesla, Dealer Franchise Laws, and the Politics of Crony Capitalism, 101 IOWA L. REV. 573, 602 (2016) (“Antitrust law . . . is unavailable because of the Parker state action doctrine, which permits states to enact even nakedly anticompetitive legislation so long as the anticompetitive policy is clearly and affirmatively expressed as state policy and actively supervised by the state”).

\textsuperscript{192} Cf. Paul J. Larkin, Jr., Public Choice Theory and Occupational Licensing, 39 HARBURD J.L. & PUB. POL’Y 209, 284 (2016) (“[S]ome federal courts have relied on the Equal Protection (or Due Process) Clause to hold unconstitutional state laws that unreasonably restrict access into certain professions.”).

\textsuperscript{193} See, e.g., Robert J. Gordon, The Phillips Curve Now and Then? (Nat’l Bureau of Econ. Rsch.,
should because the anti-inflation analysis has failed to adjust for the magnitude of market failure across the economy.\textsuperscript{194} Instead, the analysis should be broadened to consider how much of inflation might be addressed in economically beneficial ways. It is here that market improvement laws offer the most appeal when compared to alternatives. As discussed above, significant interest rate hikes raise the risks of a recession and increase unemployment. Price caps can harm efficiency and discourage innovation.\textsuperscript{195} In contrast, transparency laws, the removal of licensing restrictions, and antitrust move the economy toward greater efficiency, growth, and innovation.\textsuperscript{196}

This is not to say that market improvement laws are without negative side effects. Price transparency laws impose compliance costs on businesses. The impact of such costs must always be considered and mitigated as much as possible. However, all regulations inevitably have costs. Therefore, the existence of costs alone cannot determine whether a regulation is warranted. Those costs must be weighed against the benefits. Supplying customers with helpful information is a standard component of transacting that has long been expected in markets.\textsuperscript{197} It is thus consistent with basic market functions to expect actors to inform the parties with whom they transact. Since inflation is economically destructive, and given the efficiency gains of consumers making more informed decisions, the costs of complying with regulations should not defeat a proposal for effective price transparency laws that would correct significant market failures.

Beyond the costs of complying with any given legal rule, there is also a risk of designing the policy intervention in a way that unintentionally harms the market. In particular, blocking a beneficial merger or breaking up an efficient company could lead to higher prices. This is where the existing research on what has worked in the past can help to prioritize and inform anti-inflation laws.\textsuperscript{198}

The removal of licensing has a particular downside that must be considered: less consumer protection. To mitigate this, the reforms could replace licensing with optional certification. Consumers could then choose to pay more for the certified services if they would like, such as for hair salons or funeral services. Low-income consumers who otherwise might not be able to afford services

\textsuperscript{194} Under outdated assumptions that markets are essentially as close to perfection as possible, every major intervention would be expected to distort markets away from the current level of near-perfection.\textsuperscript{194} Overlooking this criterion—or assuming it is only about harms—will normally disfavor market improvement laws, since they improve the economy whereas high interest rates risk recession.

\textsuperscript{195} See supra Part I.A.

\textsuperscript{196} Supra Part I.

\textsuperscript{197} See, e.g., N. GREGORY MANKIW, PRINCIPLES OF ECONOMICS 66-67 (6th ed. 2012) (discussing the basic function of information in markets)

\textsuperscript{198} For some of this evidence, see supra Part II.B.
would then still have the option of lower price points. Moreover, those lower priced offerings would put some price pressure on the certified services. Additionally, Yelp and other rating websites can mitigate the risk that removing licensing leads to worse quality because they can provide some reputational accountability. Finally, it is worth noting that in many contexts, the consumer protection implications of removing licensing will not be significant. For example, seven years after the state legislature had delicensed funeral services, the Colorado Department of Regulatory Agencies investigated the impact on customers and found that the “claims that the public in Colorado had suffered or might suffer significant detriment due to a lack of trained mortuary science practitioners . . . were unsupported.”

The removal of occupational licensing also has a complex mix of employment results. Removal should normally decrease wages because more people could enter the occupation, while also increasing the number of jobs, especially for low-income and immigrant workers who might not be able to access or afford the expensive training often required to satisfy licensing requirements.

In summary, the removal of occupational licensing would improve market efficiency and expand employment, but could lower some consumer protection and wages. The price savings to consumers, increase in aggregate wealth, and job creation make these side effects overall positive. Consequently, the removal of licensing has much more appealing economic side effects than raising interest rates, which has overwhelmingly negative side effects. But occupational licensing improvements offer less beneficial side effects than antitrust and price transparency improvements, which bring overwhelmingly positive side effects.

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Given that no policy is superior with respect to all four criteria, the task becomes how to balance the criteria. Two considerations will prove helpful. First, it is important not to let administrability and direct magnitude alone outweigh all other criteria. Yet that appears to be the traditional approach to

199 On mitigating the harmful effects of removing occupational licensing, see Caleb R. Trotter, Exhuming the Privileges or Immunities Clause to Bury Rational-Basis Review, 60 LOY. L. REV. 909, 958 (2014).


202 See SNYDER, supra note 149, at 21-22; Hugh Cassidy & Tennecia Dacass, Occupational Licensing and Immigrants, 64 J.L. & ECON. 1, 1 (2021) (finding that language and other obstacles mean that immigrants are less likely to seek out and obtain occupational licenses).

203 See supra Part I.A.
inflation. To ignore indirect structural support and side effects risks missing more subtle effects of policies on inflation and the economy.

Second, even if policymakers were to decide that administrability and magnitude were the most important criteria, it would be a mistake to discard other policy options. An anti-inflation toolkit can deploy multiple tools. That is particularly true because interest rates do not require legislative involvement and can be adjusted rapidly. Thus, legislatures and regulators can work to design and implement price transparency, antitrust, and licensing solutions while the Federal Reserve adjusts interest rates. Any portion of prices driven down by market improvement laws can thereby prevent some portion of interest rate increases and their side harms, while also making it more likely that some of the main structural solutions to inflation actually work.

In short, once the criteria of direct magnitude, indirect structural support, administrability, and side effects are all fully considered, policymakers would be hard-pressed to find a more promising area than market improvement laws, especially price transparency, to mobilize against inflation. The most important conceptual takeaway is that anti-inflation analyses have historically paid too little attention to the possibility that there are options that bring positive side effects. Regardless of the magnitude, policy makers should do as much as possible with laws offering side benefits to minimize the need to use those with side costs.
Table I: Level of Attractiveness for Fighting Inflation

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<td><strong>Price Controls</strong></td>
<td>High</td>
<td>Low</td>
<td>Low</td>
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<tr>
<td><strong>Antitrust: Breakups</strong></td>
<td>Low</td>
<td>Medium-Low</td>
<td>Low</td>
<td>High</td>
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<tr>
<td><strong>Antitrust: Price-fixing</strong></td>
<td>Medium</td>
<td>Medium-Low</td>
<td>Medium</td>
<td>High</td>
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<tr>
<td><strong>Occupational Licensing</strong></td>
<td>Medium</td>
<td>Low</td>
<td>Medium</td>
<td>High-Medium</td>
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<tr>
<td><strong>Price Transparency</strong></td>
<td>Medium</td>
<td>High-Medium</td>
<td>Medium</td>
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B. Integrating Market Improvement Laws into Inflation Policy

Recognizing that an area of law should become a higher priority in an inflationary period is an important conceptual step. However, deploying non-traditional anti-inflation tools poses a challenge of designing the institutional integration of market improvement laws into inflation policymaking. There are essentially two ways to go about this: creating new authority and changing the way existing authority is exercised. The most powerful method would be to create new authority. Most importantly, those developing responses to inflation—especially lawmakers—should create new legal rules. However, even without any new rules, a variety of existing actors can still have a potentially meaningful impact by changing how they exercise existing authority. The discussion that follows focuses on the subset of market laws that seem most immediately promising—price transparency laws—but situates such reforms within a more comprehensive market improvement strategy.

1. Creating New Laws

The review of the evidence above suggests that new legal rules can push prices down. Accordingly, a straightforward way to integrate market improvement laws into inflation policy would be to create legal rules that would help consumers to obtain and analyze pricing information, remove unhelpful licensing, and strengthen antitrust. It bears emphasis that state legislatures have
passed many price transparency, antitrust, and licensing laws.\footnote{See supra Part II.B.} Thus, meaningful solutions need not wait for Congress.

In terms of institutional design, it would be suboptimal for lawmakers to take the lead on writing all such legal rules. Given legislatures’ limited expertise, as well as the general challenges of passing laws at the federal level and in many states, it would be preferable for an administrative agency to be empowered to study and enact market correction rules. The FTC is the logical choice among existing agencies. It has a Bureau of Economics that can research and study the price effects, as well as a Bureau of Consumer Protection that understands consumer laws and a Bureau of Competition that enforces antitrust.\footnote{Federal Trade Commission, https://www.ftc.gov (last visited July 12, 2022).} Yet the FTC has very little rulemaking authority related to market improvement laws.\footnote{See Rohit Chopra & Samuel A.A. Levine, The Case for Resurrecting the FTC Act’s Penalty Offense Authority, 170 U. PA. L. REV. 71, 74-75.}

Therefore, Congress should empower the FTC and other administrative agencies to write new market correction laws, even if only on a temporary basis until inflation subsides.\footnote{On the possibility of time-limited authority, see infra Part III.C.} The highest priority legislation, and probably the most politically viable, would be something like a broad-reaching Price Transparency Act. The act would focus on giving consumers—and the digital intermediaries that help them—the tools they need to easily locate the best deals. Such an act has potentially widespread intellectual appeal because it leverages what is known as “regulation for conservatives,” or behavioral interventions that would still allow businesses and consumers to do what they want, rather than prohibiting certain practices.\footnote{See Colin Camerer, Samuel Issacharoff, George Loewenstein, Ted O’Donoghue & Matthew Rabin, Regulation for Conservatives: Behavioral Economics and the Case for “Asymmetric Paternalism,” 151 U. PA. L. REV. 1211, 1212 (2003).}

Administrative agencies, such as the Consumer Financial Protection Bureau and the FTC, would then ideally study and write any new rules not specifically outlined in the statute.

To decide which of many possible market improvement laws to pursue, policymakers can apply the criteria of direct magnitude, indirect structural support, administrability, and side effects. They should prioritize those laws that have the strongest empirical support based on legislation enacted in other countries or in U.S. states. They can also ask what interventions have worked in some contexts, such as mandating price disclosures in grocery stores, that may be worth trying in other contexts, like auto dealerships.

This prioritization analysis involves not just asking what types of law are most appealing, but also which markets. In real terms, a dollar saved in gas purchases is no different from a dollar saved in dry cleaning, but they are potentially different in terms of inflation. To elaborate, consider how the price of gasoline per gallon has a disproportionate impact on people’s perceptions of
inflation.\footnote{Ariel Shwayder, Inflation Expectations and Gasoline Prices 1 (2016), https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4131600.} That is the case because gasoline prices are visible on billboards, regularly paid by much of the population, and frequently reported in the media.\footnote{See Shwayder, supra note 209, at 3.} In reality, gasoline price changes overall contribute little to inflation because they are a small part of overall consumer spending.\footnote{See Shwayder, supra note 209, at 47. Of course, energy prices overall can influence a broader array of areas of spending.} However, because expectations of inflation can lead to actual inflation, pushing down gasoline prices can disproportionately help with lessening a direct cause of inflation. Consequently, if gas prices are elevated in ways that price transparency laws might address, devoting more resources to transparency rules for gas prices would disproportionately help manage perceptions of inflation when compared to the impacts of devoting similar resources to industries that have a weaker psychological connection to inflation. Other products with outsized influence on the perception of inflation, albeit to a lesser extent than gasoline, are food and clothing.\footnote{See supra Part II.} Targeting these industries would be one way to implement a policy strategically designed to address the psychological side of inflation.

Space constraints do not allow for identifying each of the many specific legal rules that might be enacted, whether individually or under a broad Price Transparency Act. But the review of the literature above offers many promising concrete examples. Those include the kind of price transparency laws that have been demonstrated to work elsewhere, such as the Israeli grocery store statute aimed at digital intermediaries and the Italian Parliament’s mandate of gas price billboards.\footnote{See, e.g., Bar-Gill & Stone, supra note 93, at 454-55 (proposing that cell phone companies make personal usage data available to the customer in machine-readable form). A subsequent proposal then built on Bar-Gill’s work to propose disclosures targeted at digital intermediaries in retail goods, more in line with the eventual Israeli legislation. See Van Loo, supra note 147, at 1387.}

Lawmakers should not, however, limit themselves to those laws that have already been implemented somewhere else. They can also look to promising proposals in each area of market improvement laws. In the past, legal scholars have proposed the types of laws that legislatures subsequently implemented to lower prices. For instance, before the Israeli legislature passed the grocery store disclosure law that ultimately lowered prices, Oren Bar-Gill had in other markets proposed “smart disclosures” targeted at intermediaries rather than simply directly at consumers.\footnote{See supra note 209, at 47.}

Sensible proposals can be found throughout the price transparency and antitrust literatures. As for price transparency, Saul Levmore and Frank Fagan have called for “mandated disclosure of past prices, and occasionally...
settlements, where these have been negotiable,” which would help less sophisticated consumers benefit from the better deals prior consumers obtained, such as in the purchase of an automobile or loan.215

With the right political will, more aggressive reform would be warranted. For instance, it would be worthwhile to prohibit some specific manipulative practices, such as teaser rates for credit cards, as proposed by Ryan Bubb and Oren Bar-Gill.216 Legislatures could also roll back the more unreasonable licensing regimes, as proposed by David Hyman and Shirley Svorny.217

Although antitrust may be less appealing as an anti-inflation tool, scholars have identified numerous antitrust reforms that are worth considering. Since price-fixing is one of the more attractive areas in terms of the inflation criteria, new legislation might target such practices, particularly those resulting from algorithmic coordination. One noteworthy proposal is Michal Gal’s idea of fighting companies’ algorithms with algorithms that would alert regulators to violations or help consumers to exert pricing pressure on sellers.218 A number of other proposals have been made, including Einer Elhauge’s call for cracking down on potentially anticompetitive ownership structures, such as the same mutual funds owning large portions of competing firms.219

Of course, the weaker the evidence supporting a proposal, the lower priority that proposal is for policymakers. Particularly with many antitrust proposals, the strongest support lies in theory, rather than empirics. For these types of proposals, it is particularly important to study their impact after they are implemented. It is also important to potentially build in a sunset provision requiring the new rule to be reexamined empirically and reauthorized based on that evidence after a certain number of years. Although there will often be uncertainty due to limits on what is known, in many of these cases, the obstacle seems to be politics rather than knowledge.220

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216 See Bar-Gill & Bubb, supra note 87, at 1001.
217 David A. Hyman & Shirley Svorny, If Professions Are Just “Cartels by Another Name,” What Should We Do about It?, 163 U. PA. L. REV. ONLINE 101, 119 (2014) (“[L]egislatures should roll back the existing licensing infrastructure, either by affirmatively eliminating existing licensing boards or by sunsetting them and forcing the affected providers to periodically persuade a majority of the legislature that licensure is deserved.”).
219 See Einer Elhauge, Horizontal Shareholding, 129 HARV. L. REV. 1267, 1267, 1316-17 (2016) (concluding that horizontal shareholdings’ “harmful economic effects could and should be reduced by using current antitrust law to challenge stock acquisitions that create anticompetitive horizontal shareholdings.”).
220 See infra Part III.C. (discussing political economy constraints).
2. Exercising Existing Authority More Aggressively

Many legal actors could shift their priorities, or change their legal decisions, in ways that have the potential to bring down prices. These actors include attorneys general, administrative agencies, and judges.

Consumer law scholars have shown how a variety of regulations in all fifty states, and at the federal level, could discourage the kinds of pricing obfuscation practices outlined above. The broadest-reaching move would be for attorneys general, private plaintiffs, and the FTC to more aggressively exercise the Unfair or Deceptive Acts and Practices (UDAP) authority that exists at the state and federal level.\footnote{Luke Herrine has argued that the FTC is sitting on potentially awesome unfairness authority to promote fair dealing, but various legal actors have retreated from exercising that authority due to industry lobbying.\footnote{See Luke Herrine, The Folklore of Unfairness, 96 N.Y.U. L. REV. 431, 528 (2021).}} And as Lauren Willis has demonstrated, unfairness case law can reach a range of digitally deceptive practices that cause consumers to pay more.\footnote{See Lauren E. Willis, Deception by Design, 34 HARV. J.L. & TECH. 115, 178 (2020).} Whereas unfairness authority comes with doctrinal uncertainty, another possibility lies in simply devoting more energy to enforcing laws that clearly prohibit manipulative pricing practices. For instance, David Friedman has documented how retailers systematically fabricate a high price and then claim to discount it in order to make it look like a bargain.\footnote{David Adam Friedman, Reconsidering Fictitious Pricing, 100 MINN. L. REV. 921, 922–23 (2016).} They do this despite the fact that such practices are illegal.\footnote{See id.} Attorneys general, administrative agencies, and sometimes private plaintiff-side attorneys could simply devote greater attention to an array of existing laws that promote price transparency.

Judges and enforcers also have considerable discretion to expand existing antitrust laws. Some existing proposals would directly target practices that have a well-documented and significant impact on high prices. As one example, to address pharmaceutical companies’ tactic of paying to delay competitive generic entries, Scott Hemphill argued that such agreements should be “accorded a presumption of illegality as unreasonable restraints of trade.”\footnote{C. Scott Hemphill, Paying for Delay: Pharmaceutical Patent Settlement as a Regulatory Design Problem, 81 N.Y.U. L. REV. 1553, 1615 (2006).} Other antitrust proposals would target anticompetitive behavior more broadly. Fiona Scott Morton and Jonathan Baker argue that online platforms violate antitrust laws when their contracts favor certain partners.\footnote{Jonathan B. Baker & Fiona Scott Morton, Antitrust Enforcement Against Platform MFNS, 127 YALE L.J. 2176, 2176 (2018) (“Antitrust enforcement against anticompetitive platform most favored nations (MFN) provisions… can help protect competition in online markets.”)} Tim Wu and Hemphill have called for judges to shift their thinking on firms’ “parallel
exclusion” tactics, such as when Visa and Mastercard adopted rules that served to block American Express from dealing with banks.\(^{228}\) Additionally, Christopher Leslie has shown that “despite the fact that direct evidence of collusion is rarely available, federal judges have made it harder to prove collusion . . . by effectively requiring direct evidence . . . .”\(^{229}\)

As discussed above, more structural interventions, such as breaking up large firms, may not produce price results fast enough to warrant high priority. But if antitrust enforcers credibly signal that they are willing to break up firms that engage in anticompetitive pricing, or even begin to take such actions, it is possible that the threat could immediately exert downward pressure on firms fearing they will be targeted for such enforcement actions.\(^{230}\) Additionally, whereas other interventions would have more immediate price effects, a few targeted breakups or other significant antitrust remedies in major industries might bring price relief three or four years down the line, after other market improvement laws had reached their limits. They could thereby be part of a more sustained anti-inflation strategy based on market improvements. The FTC could at least experiment with such moves and study their price effects.

To be clear, legislation would be more likely to have an immediate, sustained, and economy-wide impact on collusion and other problematic behavior than solely increased enforcement of existing authority. But progress is also possible if key legal actors, especially judges, simply update their outdated decisions in accordance with market developments and advances in economic research.\(^{231}\)

It is also worth noting that in the absence of any legislative action at the state or federal level, some limited new legal rules, or at least policies, are still possible through administrative agencies. To some extent this process is already underway, with the National Economic Council and the White House pushing seventeen agencies administering some form of competition policy to exercise their full authority in matters related to pricing.\(^{232}\) For example, the Federal Communications Commission (FCC) voted to prohibit “sweetheart deals,” in which landlords receive payments for allowing only a single Internet provider to serve a building, significantly driving up prices for tenants.\(^{233}\) Therefore, a

\(^{228}\) C. Scott Hemphill & Tim Wu, Parallel Exclusion, 122 YAL. J. 1182, 1192, 1251 (2013) (“We reject this line of cases.”).

\(^{229}\) Leslie, supra note 124, at 1235.


\(^{231}\) For some of the tradeoffs involved in antitrust’s slowness, see Daniel A. Crane, Rules Versus Standards in Antitrust Adjudication, 64 WASH. & LEE L. REV. 49, 109 (2007).


diverse array of legal actors currently have at their fingertips the power to chip away at inflation while improving markets.

3. Encouraging Action

Legal design tools could be deployed to increase the chances that diverse legal actors overcome institutional inertia and political economy obstacles. This section briefly explores two such tools: inflation impact statements and sunset provisions.

Inflation Impact Statements. Since the contributors to prices are so dispersed, and their additions to inflation are often opaque, many of the actors who can individually play a part in addressing inflation may not feel sufficient democratic pressure to do so. Or they may fail to undertake the analysis necessary to see their potential impact on inflation because fighting inflation has not previously been an obvious component of their job. A common tool for promoting awareness and providing accountability in such situations is the impact statement.

Impact statements are currently required, among other contexts, of legislation that might have a detrimental impact on the environment.234 The idea in environmental law is to compel lawmakers or administrative agencies to consider the environmental impact of any new legal rules.235 In 1974, President Ford issued an executive order requiring administrative agencies to study and disclose the effects that their rules might have on inflation.236 It is worth considering impact statements again today to pressure lawmakers and administrative agencies to pay greater attention to how their actions may subtly or unexpectedly influence inflation.

Inflation impact statements might also play a valuable role in incentivizing action at the state level. The federal government could publish state-level inflation reports that would show how inflation is progressing for each state. The Bureau of Labor already collects pricing data from multiple sources in every state as part of its inflation reports, and publishes some regional rates, so publishing state-level inflation outcomes is not a big shift from current practices.237 Such reports could put pressure on state-level legislators, attorneys general, and agency leaders best positioned to remove unnecessary occupational licensing laws and encourage the enforcement, or enactment, of price transparency laws. A more aggressive version of reporting would be for federal agencies to publicize the potential state-level inflation impact of taking certain

235 See id.
antitrust, licensing, or price transparency actions on local prices. Public reports declaring that state legislators have the power to fight inflation with specific steps would remove the current lack of pressure state actors may feel due to their own ignorance, or due to voters’ inadequate knowledge of how such microeconomic laws would affect inflation. Inflation impact statements would thus foster greater integration of law and macroeconomics for the benefit of society.

Sunset Inflation Laws. If lawmakers face political resistance to passing market improvement legislation, sunset provisions may help. Sunset provisions ensure that laws are revoked after a certain period of time—at which point, metaphorically, the sun sets on the law. These provisions can be designed in numerous ways, but in the case of inflation-oriented sunset laws one sensible approach could be to state in the statute that the legal rules will end once inflation reaches a moderate level for a certain duration, such as under 3 percent for two years. Another approach would be to simply set a certain number of years, such as ten years, after which the laws are no longer valid.

A better design would be to require an empirical assessment of the law’s effects at the end of some period of time. After a certain number of years, the new policy would be studied to determine its impact on inflation, burdens on businesses, and broader influence on the economy. If it is found that the policy is ineffective, perhaps because it fails to lower prices, it would be revoked.

Sunset provisions have already helped to overcome lobbying efforts to pass price-reducing legislation previously. When Colorado legislators removed funeral services licensing restrictions in 1983, they were met with warnings of “significant threats to the public health, safety and welfare.” See Dept of Regul. Agencies, Off. of Pol’y, Rsch. and Regul. Reform, supra note 201, at 16. The legislature responded to those concerns by including a sunset provision in the statute, requiring a state agency to investigate the impact of the statute after several years of operation to determine whether to continue the new policy.

Ideally, the decisions to pass and keep market improvement laws would be made based on informed studies of the laws’ impacts on markets. And if those laws are overall beneficial to society in the long term regardless of inflation levels, as would be expected from market improvement laws, then those laws should remain. However, if political compromise is necessary, then it would be preferable for market improvement laws to end with inflation than to not have them at all when the stakes are so high.

CONCLUSION: INFLATION AS OPPORTUNITY

Once-in-a-generation threats such as alarming inflation require a pluralistic

238 See DEPT OF REGUL. AGENCIES, OFF. OF POLY, RSCH. AND REGUL. REFORM, supra note 201, at 16.
239 See Pizzola & Tabarrok, supra note 151, at 59.
policy response involving all parts of the government—the executive, judicial and legislative branches at both the state and federal levels. Diverse areas of law should be leveraged to resolve the problem in a way that is as economically productive as possible, rather than overwhelmingly relying on the Federal Reserve to raise interest rates. Yet the dominant analytic framework for anti-inflation law is currently an obstacle to designing such a comprehensive response.

By not connecting law and microeconomics to the macroeconomic issue of inflation, and by not considering the evidence of widespread market failures, scholars have contributed to an underappreciation of the potential impact of market improvement laws on price. They also have overlooked the ways that price transparency laws can both lower prices in the short term and later provide secondary support for direct structural solutions by helping consumers find the best prices available in the marketplace once supply chains are no longer decimated. These analytic shortcomings have contributed to an institutional inflation inertia that erodes economic health and risks driving the economy toward a recession.

Fortunately, a consensus in favor of market improvement laws may be possible. The potential benefits of market improvement laws to society are undeniable and embraced across much of the political spectrum. One reason lawmakers have not always done everything they could to advance markets is that consumers are such a dispersed group when compared to the concentrated interests of corporations. That political economy means sensible market improvement laws are not always passed or vigorously enforced during normal times. Instead, throughout history, the political barriers to consumer reforms have only been overcome by shocks such as the 2008 financial crisis. Earlier periods of high inflation were no exception, driving lawmakers to increase antitrust penalties in 1974. Although the political process has since become more polarized, other bipartisan efforts are underway in a number of areas, including gun control, privacy, and antitrust, all in response to extreme concerns and events. Consequently, with the threat of a deeper recession looming, it is not unrealistic to imagine inflation providing the necessary motivation to overcome the political failures that otherwise prevent clearly beneficial market

240 See POLICY SHOCK, supra note 37.

241 See Handler, supra note 12, at 217 (calling new legislation the “first major reform of the antitrust laws in almost 20 years.”). As another example, in 1969, the Republican Chairman of the FTC reported to the Senate that in the midst of a “fight to eliminate the causes of inflation, clearly one of the most important elements in this fight is the antitrust efforts to increase the competitive efficiency of markets.” See Oligopoly and Inflation, 3 ANTI TRUST L. & ECON. REV. 27 (1969) (quoting Chairman Caspar Weinberger, who was appointed to the FTC by President Nixon).

242 See Ryan Tracy, Big Tech Antitrust Bill Backers Push for Vote, WALL ST. J., July 19, 2022, at B1 (“The bill banning self-preferencing has been approved by the House committee and its Senate counterpart, with support from many Democrats and a small group of Republicans.”).
legislation.\textsuperscript{243}

However, policy makers should not need the threat of a recession. A more robust analytic framework for selecting anti-inflation laws would ideally push key legal actors to start with those laws that bring beneficial side effects. Indeed, since inflation tends to take years to address, different market improvement laws can be pursued simultaneously, such as using price transparency laws to help inflation within a year or two while structural antitrust interventions and occupational licensing reforms would reach prices in subsequent years. Although interest rate hikes would need to be used in parallel or shortly thereafter, those hikes can be smaller or reversed more quickly because market improvements will be simultaneously doing some of the inflation-reducing work in the background.

Indeed, even if market improvement laws fail to play a meaningful role in reducing inflation, such reforms would still prove societally beneficial. It is independently important to reverse the alarming trend of businesses in recent decades becoming more skilled at charging prices higher than justified by their costs. Investing in improving markets is particularly important in the face of evidence of a looming recession, since stronger markets can help lessen the downturn’s severity and boost the ensuing economic recovery. Thus, inflation could provide the keys to unlocking valuable legal reforms that would significantly decrease economic inequality and increase total wealth in the long run. Paradoxically, in the depths of inflation may lie an uplifting economic opportunity.

\textsuperscript{243} Cf. Listokin, supra note 16, at 148 (“Law responds to pressing social problems.”).