Comment on DOJ/FTC Draft Vertical Merger Guidelines

Carl Shapiro[†]

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The Draft Vertical Merger Guidelines ("Draft VMGs") issued by the DOJ and the FTC ("Agencies") are a significant improvement over the treatment of vertical mergers found in the 1984 Merger Guidelines. The Draft VMGs are superior to the 1984 Merger Guidelines both (a) in their articulation of the economic issues arising in vertical merger analysis, and (b) in their accuracy in describing how the Agencies have actually analyzed vertical mergers for many years.

The Draft VMGs helpfully reference the Horizontal Merger Guidelines on a number of common issues. This promotes consistency and predictability in merger enforcement.

In 2018, I testified as an economic expert on behalf of the DOJ in its unsuccessful challenge to the vertical merger between AT&T and Time Warner.¹ My comments here are based in part on that experience. That experience also informed my presentation to the OECD at their June 2019 Roundtable on Vertical Mergers in the Technology, Media, and Telecom Sector. I am appending to this comment my submission to the OECD, "Testing Vertical Mergers for Input Foreclosure."² Although that submission only addressed one theory of harm – input foreclosure – I hope that the step-by-step analysis provided in my OECD submission will be helpful to the Agencies. See especially Figures 3 and 4.

I now provide brief additional comments on two parts of the Draft VMGs.

Market Definition and Market Shares

The Draft VMGs give prominence to the market shares of the merging parties.

Market shares are clearly informative in *horizontal* merger analysis, where they form the basis of the structural presumption. However, their role in *vertical* merger analysis is entirely different. The Draft VMGs do not properly or fully reflect this basic economic observation.

Section 3 of the Draft VMGs states:

"The Agencies are unlikely to challenge a vertical merger where the parties to the merger have a share in the relevant market of less than 20 percent, and the related product is used in less than 20 percent of the relevant market."

The Draft VMGs do not provide an economic basis for these market share thresholds, which appear to be arbitrary. The Agencies should explain their bases for these 20 percent thresholds. Does this approach reflect recent practice or does it represent a change in practice? The public deserves to know.

I am concerned that using market shares in this manner could well weaken vertical merger enforcement.

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¹ My Expert Report is available at https://www.justice.gov/atr/case-document/file/1081336/download. My Rebuttal Report is available at https://www.justice.gov/atr/case-document/file/1081321/download.

² My OECD submission is directly available at https://one.oecd.org/document/DAF/COMP/WD(2019)75/en/pdf.

Share of the Relevant Market

Suppose that Firm A sells an input that is used by Firm B, and these two firms propose to merge. In this setting, Section 2 of the Draft VMGs defines a relevant market and identifies "related products." Consider the common case in which the relevant market is the downstream market in which Firm B participates and the "related product" is the input supplied by Firm A.

In the AT&T/Time Warner case, Time Warner played the role of Firm A and AT&T played the role of Firm B. The relevant product market was the distribution of multichannel video programming to consumers. One "related product" was the Turner Content owned by Time Warner.

The fundamental problem with the way that the Draft VMGs use market shares is that they simply *assume* that harm to downstream customers is less likely if the merged firm controls a smaller share of the relevant downstream market. For those accustomed to analyzing horizontal mergers, this assumption might seem natural and reasonable, but market shares play an entirely different role in vertical merger analysis than they do in horizontal merger analysis. In the AT&T/Time Warner case, applying the same methods described in Section 5 of the Draft VMGs to assess unilateral effects, *greater* harm to consumers was predicted in local areas where AT&T's downstream market share was *smaller*. This resulted because the impact of AT&T raising its rivals' costs was greater in those local areas.3

Share of the Relevant Market that Uses the Related Product

The Draft VMGs state: "The Agencies are unlikely to challenge a vertical merger where ... the related product is used in less than 20 percent of the relevant market." This statement requires clarification.

First, the Agencies should clarify that evaluating the likely economic effects of a proposed vertical merger does *not* require defining a relevant market containing the "related product." Doing so often will be unnecessary and could well be misleading. In the AT&T/Time Warner case, a key issue was whether AT&T's downstream rivals in the distribution of video programming to consumers would be significantly harmed if they lost access to the Turner Content. There was direct evidence on that point, making it unnecessary to define an upstream market containing the Turner Content.⁴ Doing so would have been an uninformative distraction. The VMGs should state this explicitly.

Third, if the Agencies choose to make inferences based on whether "the related product is used in less than 20 percent of the relevant market," they should be much clearer and more explicit about how this concept will be measured. The draft VMGs refer to the "share of the relevant market that uses the related product." The VMGs should explicitly state that this *is not a measure of market share*, either in the relevant market or in another market containing the "related product." The VMGs should explicitly state that adding up this measure across different inputs used in the relevant market (which the merging firms will presumably point to as substitutes) typically results in a total far in excess of 100 percent.

Again, the AT&T/Time Warner case is instructive. One can ask what percent of the (downstream) relevant market used the related product, the Turner Content. The evidence showed that more than 90

³ Section 6 of my Expert Report, "Impact on Consumers in Local Areas," states: "All else equal, subscribers in Zones with more rival MVPDs are likely to observe higher post-merger prices because of the greater impact of the increase in rivals' costs." See p. 68 and Figure 18.

⁴ See Section 6 of my Rebuttal Report, "The Commercial Significance of the Turner Content." AT&T's economic expert, Professor Dennis Carlton, questioned the importance of the Turner Content based on his measure of Turner's share of "television video content consumption." I stated (p. 8): "In my view, much if not all of what Professor Carlton has to say about what he calls the "video content market" is either uninformative or misleading for the purposes of evaluating how the merger will affect the bargaining between Turner and MVPDs that compete against DTV."

percent of multichannel video subscribers had access to the Turner Content.⁵ This reflected the importance of Turner Content (including CNN) to consumers, and hence to multichannel video distributors. The Turner Content was used in over 90 percent of the relevant market. I am concerned that many people who are accustomed to thinking in term of market shares will be confused by the language in the draft VMGs, because they will expect such measures to add up to 100 percent. In the AT&T/Time Warner case, several other firms also supplied content that was used by a large share of subscribers, including Disney, Fox, NBCUniversal, and Viacom. Adding up the share of the relevant market used by each of these content providers, one would obtain a figure far in excess of 100 percent, perhaps 400 or 500 percent. To avoid confusion, the VMGs should explicitly make this point and provide an example.

Elimination of Double Marginalization ("EDM")

Section 6 of the Draft VMGs states: "The agencies generally rely on the parties to identify and demonstrate whether and how the merger eliminates double marginalization." I support an approach under which EDM, like all other efficiencies, must be shown to be cognizable before it can be credited.

My OECD submission explains how to place EDM within the overall analysis in cases involving input foreclosure. Here, I emphasize three points relating to the treatment of EDM.

- As with other efficiencies, EDM must be shown to be *merger specific* to be credited. As stated in my OECD submission (p. 6): "That is a factual question that must be assessed on a case-by-case basis. For example, if other firms in the industry have managed to eliminate double marginalization through contract, perhaps by using two-part tariffs or other non-linear pricing schemes, the merging firms might well be able to do likewise. In that case, EDM is not merger specific and should not be credited as an efficiency in the merger analysis."
- Some aspects of the analysis of EDM are different from the analysis of other claimed merger efficiencies. As stated in my OECD submission (p. 6): "EDM is treated differently from other claimed merger synergies because a vertical merger inherently gives the merged firm an incentive to set the downstream price based on the merged firm's combined upstream and downstream profits. Put differently, EDM follows logically from the normal working assumption of antitrust economists that for-profit firms are run to maximize their overall profits. This is directly analogous to our normal working assumption that a horizontal merger eliminates competition between the merging parties and typically creates some upward pricing pressure."
- When quantifying EDM, it is critical to include the opportunity cost to the merged firm when its downstream division gains sales at the expense of its rivals. This opportunity cost arises because the upstream division loses margins on its sales to those rivals. Not accounting for this opportunity cost can lead one to greatly overstate the magnitude of EDM, especially if the input sold by the upstream division is widely used by downstream rivals. Paragraph 24 of my OECD submission provides a numerical example based on the AT&T/Time Warner merger.

⁵ See Section 3.2.1 of my Expert Report.



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Testing Vertical Mergers for Input Foreclosure - Note by Carl Shapiro

Roundtable on Vertical mergers in the technology, media and telecom sector

7 June 2019

This paper by Carl Shapiro was submitted as background material for Item 10 of the 131st OECD Competition committee meeting on 5-7 June 2019.

The opinions expressed and arguments employed herein do not necessarily reflect the official views of the Organisation or of the governments of its member countries.

More documents related to this discussion can be found at

http://www.oecd.org/daf/competition/vertical-mergers-in-the-technology-media-and-telecomsector.htm

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Testing Vertical Mergers for Input Foreclosure*

Professor Carl Shapiro

1. Investigating mergers is like auditing tax returns. We expect (hope?) that most taxpayers honestly pay their taxes, but some do not. Detecting deficient tax returns is important, to fairly collect the taxes that are owed and to deter tax evasion. Likewise, most mergers do not pose a threat to competition, but some would cause substantial harm to competition if allowed to proceed.¹ Identifying those mergers is important, both to protect the competition process and to deter anti-competitive mergers. This is true of vertical mergers, even though as a category they threaten competition less than do horizontal mergers.

2. This submission explains a practical procedure for analyzing vertical mergers to identify those that are most likely to lessen competition and harm customers based on "input foreclosure." The input foreclosure theory of harm is identified and described in the Background Note by the Secretariat, "Vertical Mergers in the Technology, Media, and Telecom Sector."² The distinct "customer foreclosure" theory of harm is economically analogous and can be developed and applied in suitable cases a parallel fashion to the one outlined here. This submission does not address theories of horizontal collusion or loss of potential competition that can arise in vertical mergers.³

3. The analysis here should prove useful even for a competition authority that considers almost all vertical mergers to be pro-competitive, because it is applicable to whichever vertical mergers the competition authority believes raise sufficient concerns about input foreclosure to warrant some investigation. The analysis is deliberately

1 According to the Fiscal Year 2017 FTC/DOJ Hart-Scott-Rodino Annual Report, 2052 transactions were reported that year, of which 51 (2.6%) received a Second Request for additional information and 39 (1.9%) involved an enforcement action.

2 See https://one.oecd.org/document/DAF/COMP(2019)5/en/pdf, especially in Section 4.1 "Foreclosure (unilateral effects)."

^{*} Prepared for the OECD Competition Committee session "Vertical Mergers in the Technology, Media, and Telecom Sectors, 7 June 2019. This is a preliminary draft subject to revision. Please send comments to cshapiro@berkeley.edu. Carl Shapiro is a Professor at the University of California at Berkeley. He served as the chief economist at the Antitrust Division of the U.S. Department of Justice during 1995-1996 and 2011-2013, and as a Member of the President's Council of Economic Advisers during 2011-2012. He also has served as an economic consultant for the government and for private parties on a variety of antitrust matters over the years. His papers and his curriculum vitae are available at his web site, http://faculty.haas.berkeley.edu/shapiro.

³ If the merging firms may become direct rivals in the foreseeable future, their merger is (also) a horizontal merger involving the loss of potential competition. For a recent discussion of how to handle mergers that may eliminate a potential competitor to a dominant firm, see Carl Shapiro, "Protecting Competition in the American Economy: Merger Control, Tech Titans, Labor Markets," at http://faculty.haas.berkeley.edu/shapiro/protectingcompetition.pdf. For an analysis of potential competition cases focused on innovation, see Giulio Federico, Fiona Scott Morton, and Carl Shapiro, "Antitrust and Innovation: Welcoming and Protecting Disruption," available at http://faculty.haas.berkeley.edu/shapiro/disruption.pdf.

structured to provide "off-ramps," so a vertical merger investigation can quickly be closed if the evidence indicates that harm to competition is unlikely.

4. I use the recent merger between AT&T and Time Warner to illustrate how one can perform this type of analysis.⁴ I testified on behalf of the Department of Justice in that merger.⁵ AT&T, primarily through its DirecTV service, was a major distributor of video content to households. Time Warner owned a valuable collection of video content, the "Turner Content." AT&T distributed the Turner Content to Pay TV Households, as did AT&T's major competitors, which are referred to as "multichannel video program distributors" or MVPDs. The leading MVPDs were the cable companies Comcast and Charter and the Dish direct broadcast satellite service. The input foreclosure theory of harm involved the merged entity weakening its downstream MVPD rivals by raising the price of Turner Content.⁶

5. Vertical mergers differ fundamentally from horizontal mergers in that they do involve a loss of direct competition between the merging the parties. In the United States, as a practical matter, it is much harder for the DOJ and the FTC to challenge a vertical merger in court than a horizontal one, because there is no simple route by which they can establish a presumption that a vertical merger is likely to harm competition. In horizontal mergers, the structural presumption plays that role.

6. Vertical mergers are inherently more complex to analyze than horizontal mergers because one must consider two levels of competition. The step-by-step analysis described below is based on well-established economic principles, and the elements of this analysis have been used in previous cases. I believe the framework offered here is as simple as possible while providing reliable and useful results. Nonetheless, the judge in the AT&T/Time Warner case mocked the analysis as overly complex

1. Elements of the Analysis of Input Foreclosure

7. The analysis in this submission seeks to determine whether a proposed vertical merger is likely to lessen downstream competition due to input foreclosure and thus harm final consumers. The mechanism of harm to competition is that the merged entity would use its control over the acquired upstream input to weaken its downstream rivals, either by denying them access to that input – "total foreclosure" – or by raising the price charged for

⁴ The AT&T/Time Warner merger is very briefly described in the Background Note (p.17).

⁵ expert report is available at https://www.justice.gov/atr/case-Mv detailed document/file/1081336/download. rebuttal report available My expert is at https://www.justice.gov/atr/case-document/file/1081321/download. The District Court sharply criticized my analysis; United States v AT&T, Case 1:17-cv-02511 (DDC, 2017). On appeal, the District Court decision was found not to be clearly erroneous; United States v. AT&T, Case 18-5214, (DC Circuit, 2019). My intention here is not to re-litigate that case, but rather to use it to illustrate how the input foreclosure theory of harm can be developed in practice. Rather obviously, the AT&T/Time Warner case also illustrates some of the difficulties and risks facing a competition authority seeking to challenge a vertical merger.

⁶ In the language of the Background Note (¶41), the case involved partial foreclosure. Economic analysis indicated that it would not be profitable for the merged entity to engage in total foreclosure by refusing to license the Turner Content to rivals.

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that input – "partial foreclosure." For simplicity, I will refer to both of these effects in terms of "raising rivals' costs" (RRC).

8. Figure 1. displays the elements of the analysis of vertical mergers in which the competition concern involves the input foreclosure theory of harm. (All figures are at the end of the submission.). The term "EDM" refers to "elimination of double marginalization," a common efficiency from vertical mergers.

9. Figure 2. shows these elements as they presented themselves in the AT&T/Time Warner merger.

2. Step-by-Step Analysis: Ability and Incentive

10. The rest of this submission describes a step-by-step analysis to identify and analyze the input foreclosure theory as applied to a proposed vertical merger. The step-by-step analysis outlined here fits comfortably within the three-step *ability-incentive-effect framework* described in Section 3 of the Background Note.

11. Figure 3. provides a flow chart for the "ability "and "incentive" parts of the analysis.

12. The first step is to ask whether the upstream input involved in the merger is competitively significant to the downstream rivals that have been using that input.⁷ An input is competitively significant to a downstream rival if that firm's ability to compete would be substantially impaired if were to lose access to the input. In this step, one should consider these rivals' best response to that lack of access, which could involve using a substitute input or modifying their products or services. These responses will generally leave the rivals with higher costs and/or lower quality products or services.

13. In the AT&T/Time Warner case, there was extensive evidence about the importance of the Turner Content for MVPDs. For starters, every major MVPD distributed Turner Content to almost all of its subscribers, and Turner had been able to significantly raise the price it charged for its content over time, notwithstanding the movement of some customers away from Pay TV packages and toward streaming. Turner Content was generally seen as one of the most important packages of content for MVPDs to carry. There was some hotly disputed evidence specifically about the impact on an MVPD of losing access to the Turner Content. However, there was no such evidence from an actual, long-term blackout of Turner Content on an MVPD. In the end, the District Court was not convinced by the estimates I used about the share of subscribers an MVPD would lose due to the absence of the Turner Content.

14. The next step is to ask whether the merged entity's downstream operations would gain a substantial volume of business if one or more downstream rivals lost customers because they were denied access to the input in question or raised their price due to higher

⁷ The Background Note describes a similar concept at ¶25, asking if the merging parties control as asset that is important to rivals and unique, meaning it is difficult to replace with alternatives.

input costs.⁸ The key metric in this step is the diversion ratio from these downstream rivals to the merged entity.⁹

15. In the AT&T/Time Warner case, I used local market shares to estimate the diversion from an MVPD losing access to the Turner Content toward DirecTV. I also accounted for the fact that some of these lost subscribers would not sign up with any MVPD. In the end, the District Court was not convinced by the estimates I used about the diversion ratio from rival MVPDs to DirecTV.

16. The third step is to ask whether the business diverted from the downstream rivals to the downstream operations of the merged firm generates significant profit margins for the merged entity. The key metric in this step is the pre-merger price/cost margin at the downstream merging firm.

17. In the AT&T/Time Warner case, the downstream Pay TV packages sold by DirecTV to consumers were generally large bundles that had substantial margins. The DOJ had difficulty obtaining accurate and timely margin information from AT&T. I used the best data available to me, which was a moving target during the litigation. In the end, the District Court was not convinced by the margin estimates I used.

18. If quantitative analysis is possible, the calculations performed will vary from case to case, depending on whether total foreclosure or partial foreclosure is being considered. But these are relatively minor details. From an economic perspective total foreclosure is just a special (and extreme) case of partial foreclosure. The quantification also will vary depending on whether (a) the upstream suppliers set the input prices and downstream firms respond, or (b) the input prices are negotiated. But again these are relatively minor details, variations to fit and reflect the institutional facts of the case.

19. The core, robust economic principle is that a vertical merger raises the economic cost to the merged firm of selling the input to its rivals, because access to the input, or lower prices for that input, make them stronger competitors. This core idea is intuitive to business executives. As customers, business executives often are wary and feel vulnerable when they must buy an important input from a rival. Likewise, as integrated suppliers, business executives commonly are tempted to use a key input strategically to advantage their downstream operations. In many cases, business documents will reflect these basic economic and strategic ideas. The analysis above seeks to assess, on a case-by-case basis, whether these anti-competitive incentives, which are inherent to vertical mergers, are substantial. This is not unlike using the upward pricing pressure (UPP) metric to assess, on a case-by-case basis, whether the inherent anti-competitive incentives in a horizontal merger are substantial.

⁸ The rival downstream firms also can experience cost increases because alternative upstream input suppliers raise their prices in response to the input foreclosure by the merged firm.

⁹ The Background Note describes a similar concept at ¶29, with reference to the diversion ratio from the rival to the merged firm and to the price/cost margin at price/cost margin of the merged firm. Vertical merger analysis is similar to horizontal merger analysis in that both involve the multiplicative product of a diversion ratio and a price/cost margin.

3. Step-by-Step Analysis: Efficiencies and Effects

20. In cases where a proposed vertical merger would create significant incentives for input foreclosure, the analysis then proceeds to consider efficiencies that might offset these incentives. Figure 4. provides a flow chart for this "effects" part of the analysis. If some efficiencies are cognizable, meaning that they are merger-specific and verified, then some balancing is needed to determine the merger's effects.

21. The analysis of efficiencies begins by considering the elimination of double marginalization ("EDM"). EDM is a well-known economic aspect of vertical mergers. One good way to think about EDM is to recognize that, after the merger, starting from premerger prices, the downstream division of the merged entity will have some incentive to lower price, if that lower price will attract more customers and if those extra customers generate extra profits at the upstream division of the merged firm.

22. EDM is treated differently from other claimed merger synergies because a vertical merger inherently gives the merged firm an incentive to set the downstream price based on the merged firm's combined upstream and downstream profits. Put differently, EDM follows logically from the normal working assumption of antitrust economists that for-profit firms are run to maximize their overall profits. This is directly analogous to our normal working assumption that a horizontal merger eliminates competition between the merging parties and typically creates some upward pricing pressure. In econ-speak, the difference is that a horizontal merger internalizes a *negative* pecuniary externality from lower prices.

23. However, it is important to recognize that, while we must assume that a vertical merger will lead to the elimination of double marginalization, this does not imply that EDM is *merger-specific*. That is a factual question that must be assessed on a case-by-case basis. For example, if other firms in the industry have managed to eliminate double marginalization through contract, perhaps by using two-part tariffs or other non-linear pricing schemes, the merging firms might well be able to do likewise. In that case, EDM is not merger specific and should not be credited as an efficiency in the merger analysis. In the AT&T/Time Warner case, my analysis credited EDM as merger-specific.

24. In cases where EDM is determined to be merger-specific, one may be able to estimate the magnitude of EDM. EDM can be measured as the gap between the pre-merger price that the downstream merging firm is paying for the input and the economic marginal cost to the upstream firm of providing that input to the downstream firm. Critically, this economic marginal cost includes opportunity cost. The key question is how the upstream division is affected when the downstream division lowers its price to attract more customers. To see how this works, consider the polar case in which all of these extra customers were previously purchasing from downstream rivals who were using the upstream division's input. In that case, the upstream division gains no new sales when the downstream firm lowers its price, so the magnitude of the EDM effect is zero. More generally, if the upstream division's price/cost margin is M and if a fraction X of customers attracted by the downstream firm were not already using the upstream input, then the EDM is not M but only M times X. In the AT&T/Time Warner case, I calculated EDM as \$1.20 per subscriber per month. Purely for illustrative purposes, this figure would result if the price/cost margin on the Turner Content was \$6 and if 20% of the new subscribers attracted to DirecTV by a price decrease would be new Turner customers. It would be a major error to use the Turner price/cost margin of \$6 as the magnitude of EDM; that would overstate EDM by a factor of five.

25. If the RRC effect and the EDM effects can be quantified, they can be compared. This amounts to asking whether the merger will raise or lower the costs of the input for the downstream firms collectively. The merging downstream firm enjoys an input cost reduction, due to EDM, but the rivals downstream firms suffer from higher input costs. In the AT&T/Time Warner merger I determined that RRC was greater than EDM.¹⁰ This conclusion was hotly disputed, and the District Court judge did not find my analysis reliable enough to conclude that the merger would lead to higher costs and thus harm competition and consumers. Since the burden of proof was on the DOJ, this proved fatal to the DOJ's case.

26. If RRC is greater than EDM, the proposed merger could still promote competition and benefit customers if the merger would lead to significant cognizable synergies. As with horizontal mergers, some healthy skepticism about claimed efficiencies is warranted, and the burden rests on the merging parties to establish that they are merger specific and verified and ultimately will lead to consumer benefits.

4. Conclusions and Lessons

27. This submission has sketched out a practical, step-by-step analysis for evaluating vertical mergers to see whether they pose a threat to competition based on input foreclosure. This approach could form an important part of updated Vertical Merger Guidelines, which are badly needed in the United States.

28. The core economic idea behind this approach is intuitive: when one firm acquires an important input, that firm will have an incentive to use that input to favor itself over its rivals. Business executives understand this point well. Offsetting this, the merger may allow for greater vertical coordination. The framework here provides a structural method of assessing those two basic effects.

29. Nothing in this analysis hinges on market definition, market shares, or measures of market concentration. In this respect, the analysis of vertical mergers is entirely unlike the analysis of horizontal mergers, where these elements, and the structural presumption, can be critical.¹¹

30. For vertical mergers that generate significant merger-specific efficiencies, the best outcome for competition and for consumers may be for the merger to proceed with suitable remedies, which may include behavioral remedies. The efficacy of structural and behavioral remedies should be assessed on a case-by-case basis. Ruling out behavioral

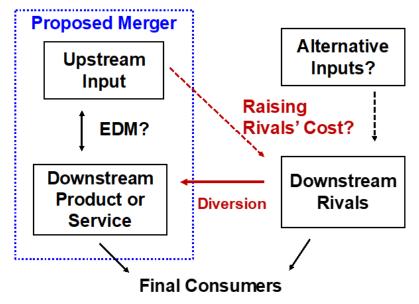
¹⁰ I also developed a downstream merger simulation model to estimate how these cost changes for the Turner Content would be passed through to final consumers. I used that model to predict consumer harm. That model also was disputed.

¹¹ In fact, in the AT&T/Time Warner merger, I did not find greater harms in geographic markets where DirecTV had a larger share of the MVPD market. To see why, consider the polar case in which the downstream firm has 100% of the downstream market. In that case, if EDM is merger specific, the merger will generate benefits for consumers and will not raise rivals' costs, because there are no rivals. Of course, such a merger may still harm competition by raising downstream entry barriers.

remedies in vertical mergers *a priori* is unwarranted. Adopting such a rigid approach may force a competition authority to accept one of two inferior outcomes: allowing the merger to proceed without any remedy or trying to block the merger in its entirety.¹²

Figure 1.

Input Foreclosure: Elements of the Analysis



¹² For example, in the NBC/Universal merger, the DOJ and the FCC allowed the merger to proceed subject to behavioral remedies. I was the chief economist at the DOJ when that merger was reviewed. In the AT&T/Time Warner case, AT&T argued that the remedy in the NBC/Universal merger had been effective. The DOJ was unable to rebut that argument.



Input Foreclosure: AT&T/Time Warner

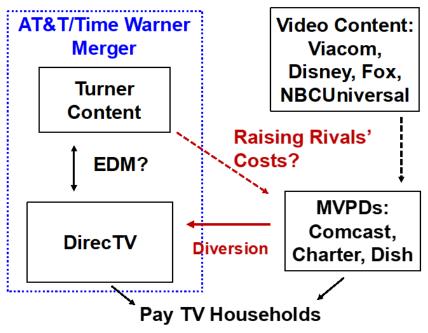


Figure 3.

Unilateral Ability and Incentive Analysis

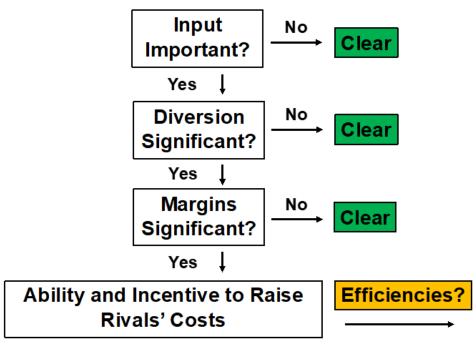


Figure 4.

Balancing Harms and Benefits

