

1 UNITED STATES FEDERAL TRADE COMMISSION

2 and

3 UNITED STATES DEPARTMENT OF JUSTICE

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7 SHERMAN ACT SECTION 2 JOINT HEARING

8 ACADEMIC TESTIMONY

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13 Timothy Bresnahan

14 Richard Gilbert

15 Daniel Rubinfeld

16 Carl Shapiro

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P R O C E E D I N G S

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1 providing the facilities, videotaping, web casting, etc.  
2 And those who have provided us with logistical support,  
3 Bob Pardue and others, I thanked you all once already, but  
4 thank you again.

5           We're honored to have assembled this morning a  
6 distinguished group of the finest lawyers from the  
7 University of California Berkeley to offer their testimony  
8 in connection with these hearings. They will provide  
9 their perspectives on various themes and issues related to  
10 the complex area of Section 2 jurisprudence, including  
11 some research and economic analysis.

12           We've gathered seven panelists for today's



1           On behalf of the Antitrust Division, I would  
2 like to take this opportunity to thank the Berkeley Center  
3 for Law and Technology and the Competition Policy Center  
4 at the University of California Berkeley for hosting us  
5 today.

6           Also on behalf of the Antitrust Division, I'd  
7 like to thank Joe, Aaron and Howard for agreeing to  
volunteer your time and share your insights with us. It' to thankTloTD n  
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1 from first principles. And it's unsatisfying to me and I  
2 worry that it leads to bad policy.

3           So, what I'd like to do is to try to bring us  
4 back to some first principles. Because the field has  
5 drifted so far from first principles, it's not even  
6 clearly I think understood exactly what those first  
7 principles are. And I'm going to put forward a suggestion  
8 about what they might be.

9           The suggestion I'm going to put forward is one  
10 that distinguishes quite importantly between the final  
11 goal of antitrust, which I think most of us agree is and  
12 should be economic efficiency, and the protections and the  
13 process involved in antitrust enforcement. And it does  
14 not logically follow that, just because the final goal is  
15 economic efficiency, each case should be analyzed or each  
16 transaction should be analyzed along the lines of economic  
17 efficiency.

18           Just to give you a simple example, if I go into  
19 a store and take an iPod off the shelf and put it in my  
20 pocket and walk out, that's typically illegal if I didn't  
21 do more than that. And it's illegal even if I can show by  
22 thoroughly convincing evidence that my economic value for  
23 the iPod exceeds the store's replacement cost. In other  
24 words, it was an efficient transaction for me to steal the  
25 iPod. Well, that doesn't cut any ice in law enforcement

1 as I understand it and probably shouldn't. And the  
2 economic market system that we have operates by enforcing  
3 the property rights of the iPod. And that enforcement  
4 does not look directly at whether the enforcement is in  
5 the instant efficient or not. And I'm going to claim that  
6 antitrust often does something rather similar, okay?

7           So, before I get to the first substantive slide  
8 with the provocative title "Analyze This," let me say  
9 that, as I understand it, the fundamental of antitrust is  
10 that you are not supposed to restrain trade. That doesn't  
11 mean you are not supposed to restrain your own trade.  
12 People often comment that it's all right to restrain your  
13 own trade. What you're not meant to do is to restrain  
14 other people's trade.

15           And you might ask, well, how can you possibly  
16 restrain other people's trade unless you actually tie them  
17 up or something. Well, it turns out that there are  
18 techniques by which a firm might be able to restrain  
19 others' trade. And those techniques it seems to me are  
20 the core problems.

21           So, that's all setup. Let's come to my purely  
22 hypothetical example, "Analyze This." So, let's think  
23 about the airline market. An airline that I've called  
24 Northeast Airlines offers a five hundred dollar fare. And  
25 it's the only airline that's in that market, so consumers



1 hundred dollars. Okay.

2           And you might think that normally in a  
3 competitive process, whatever that means, not only ought  
4 it to block it but it would. And here it doesn't. And  
5 what are the mechanics of how it doesn't.

6           Well, the mechanics we just went through.  
7 Northeast, intentionally or not, thwarts Sprite's and  
8 consumers' joint wish, given Northeast's five hundred  
9 dollar price, to trade at three hundred dollars. And the  
10 way that that works is that if Sprite came in it would not  
11 have to compete against five hundred but against two  
12 hundred, and it can't compete against two hundred.

13           I am saying nothing yet about what's illegal.  
14 I'm just saying this is an instance of something going  
15 wrong in the competitive process.

16           So, stepping back, and here are some first  
17 principles, okay. Economists study by and large two approaches  
18 to economic efficiency. And there's a little bit of a  
19 disconnect, I think, between the formal material that you  
20 spend a lot of time banging into the undergraduates' heads  
21 in the microeconomics classes and the way that  
22 professional economists typically think about real world  
23 problems.

24           What we spend the most time with undergraduates  
25 on is that you can get to an economically efficient

1 outcome via price-taking perfectly competitive  
2 equilibrium. Okay. However, it's sort of obvious that  
3 the price-taking equilibrium, whether it would be  
4 efficient or not, is unrealistic and unobtainable in many  
5 sectors of the economy that are of antitrust concern. If  
6 nothing else, large economies of scale make that a  
7 nonstarter.

8           And it's also interesting to note that antitrust  
9 doesn't just move cautiously, but I would say proudly  
10 eschews many opportunities to move toward price-taking  
11 equilibrium. So, in particular, if you have a legitimate  
12 monopoly, quote, unquote, there is no attempt to try to  
13 force you to do anything that's closer to price-taking  
14 behavior. And not only is that potentially difficult and  
15 problematic to do, but antitrust seems to take the  
16 attitude, it's difficult, but we wouldn't try even if we  
17 thought we could do it. Now maybe that's a little  
18 controversial, but that's my impression.

19           The second approach to economic efficiency, which is  
20 less juicy material for teaching undergraduates because it  
21 has less of the mid-level mathematics that seems to appeal  
22 to those who teach undergraduate micro classes, but is  
23 actually probably more important, is based a little bit on  
24 the Coase theorem, that's kind of the extreme expression of  
25 it, or in formal economic terms is often called the core

1 of the economy. And that's the idea that if there is some  
2 inefficiency, then there's some group of people, possibly  
3 unmanageably large but possibly not, that would have an  
4 incentive to contract around it. Okay. And therefore we  
5 think about just how difficult would that be, and if it  
6 wouldn't be all that difficult, then we predict that the  
7 inefficiency will either go away or won't be all that big.

1 imagine everybody getting together. But, conditional on  
2 knowing that something inefficient is not in the core, we  
3 have a reasonable shot at finding a smaller and more  
4 manageable blocking coalition.

5           What's a blocking coalition? A blocking  
6 coalition is a group of consumers and firms that can all  
7 do better than the status quo given their endowments and  
8 abilities to trade and so on.

9           So, in parallel, if you like, with the  
10 competitive equilibrium analysis, we have core analysis.  
11 And it suggests a rather different process. Instead of  
12 suggesting a process where we kind of hammer on the  
13 economy until most firms are somewhere close to  
14 price-taking, okay, and which, as I mentioned, is not  
15 actually feasible in many important sectors of the  
16 economy, it suggests a process where we protect the  
17 ability of these blocking coalitions to work around any  
18 inefficiencies.

19           So, a perspective on antitrust is this: That  
20 antitrust protects the process of forming blocking  
21 coalitions that block bad outcomes. And how does it  
22 protect that? Antitrust is -- it says certain things are  
23 illegal. What sorts of things are illegal? Well, at some  
24 level, things that thwart the formation of blocking  
25 coalitions that would otherwise prevent bad outcomes.



1 VThat's three negatives, which is a very large number of  
2 negatives, okay, but that's the way it is, okay.

3           So, the last bullet, just to remind you, not all  
4 contracts of course are protected by antitrust. Some of  
5 them are illegal, so there's a little bit of a thorny  
6 issue there, but I'll just note that in passing.

7           So, back to the Northeast and Sprite example,  
8 Northeast is getting five hundred. Sprite and consumers  
9 would all be better off trading at three hundred. So,  
10 that's a blocking coalition that tells us that the five  
11 hundred dollar fare is not something that would survive in  
12 the core. And, in particular, there's this particular  
13 blocking coalition. And Northeast, and, again, I am not  
14 saying whether they do it on purpose or it's a natural  
15 outcome of the way the market works, but thwarts the  
16 blocking coalition by making clear that if the blocking  
17 coalition tries to form, Northeast will block that in turn  
18 with the two hundred dollar fare.

19           So, how do we assess Northeast's price cut from  
20 five hundred to two hundred dollars? It seems to me  
21 there's a very difficult and fundamental tension here. In  
22 the instant, that is, if Sprite has actually entered and  
23 is charging three hundred, Northeast then does cut its  
24 price to two hundred, and the two hundred kind of is then  
25 the outcome that we're looking at, well, that seems like

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1 right answer is, you don't quite know what will be of  
2 help.

3           So, what does this suggest about predatory  
4 pricing. It suggests most fundamentally that predatory is  
5 an adjective that doesn't apply to the level of price. It  
6 applies to a pattern of pricing. And, in particular, it  
7 applies to a pattern of pricing such that the price that  
8 the entrant expects to have to compete against is very  
9 different from the price that consumers actually end up  
10 paying.

11           So, is Northeast's price cut primarily a  
12 blocking coalition to Sprite's three hundred that's the  
13 essence of the competitive process, or an  
14 out-of-equilibrium threat to thwart consumers and Sprite  
15 from blocking the five hundred. That I think might be the  
16 essence of an antitrust offense. Okay.

17           So, one way to answer this that is sensible  
18 seeming but a little bit ad hoc, departing a bit perhaps  
19 from first principles, but perhaps not, is to say, well,  
20 you sort of want to look at how stable that two hundred  
21 dollars is. If that's really what you've arrived at and  
22 now you are there and you're going to sort of stay there,  
23 then that's sort of how the process is meant to work. We  
24 had originally five hundred, then three hundred, now we've  
25 got two hundred, and we've got there and that's good.

1 Certainly good for consumers.

2           If, on the other hand, what happens is mostly  
3 that consumers really end up paying five hundred and they  
4 only pay three hundred or two hundred in the rare and  
5 short-lived cases where Sprite makes a mistake and enters,  
6 then that seems like a failure of the process. And,  
7 again, it doesn't seem to me that there's much prospect  
8 that sacrifice tests or cost tests are going to be very  
9 helpful here. So, we don't know until we sort of figure  
10 it out.

11           So, this suggests to Aaron and me a principle we  
12 call freedom to trade. It's a nice phrase, but we mean  
13 it. The incumbent is restraining trade when given its  
14 pricing, etc., etc., etc., and there's a blocking  
15 coalition, a potential blocking coalition, that would make  
16 all its, that is, the blocking coalition's, participants  
17 better off, but the incumbent strategically thwarts the  
18 formation of that blocking coalition.

19           So, we saw one possible way in which the  
20 incumbent might thwart the formation of a blocking  
21 coalition, threatening that if that coalition starts to  
22 form, then the price it charges will change.

23           Another way you might do that is through some  
24 kind of divide-and-conquer strategy that says, offer  
25 particularly favorable deals to some pivotal members of

1 this blocking coalition while expropriating others. I  
2 don't want to get into the game theory of how it can work  
3 and how it can fail. The fact is it can sometimes work,  
4 but the point I really want to stress here is, when it can  
5 work, it seems like that is really disrupting the  
6 competitive process.

7           Now, notice that none of this, according to my  
8 suggestion of what the competitive process is, none of  
9 this asks, well, just how unpleasant is it for Northeast  
10 if Sprite comes in and takes away its customers. And that  
11 would be an important aspect of a direct inquiry into  
12 economic efficiency. Right? Because if Northeast  
13 actually has very low costs, and if demand is fairly  
14 inelastic, then having Northeast charging five hundred  
15 dollars might be more efficient than having Sprite come in  
16 and serving customers.

17           And I claim that Northeast thwarting this entry  
18 would be a thwarting of the competitive process without  
19 asking about that. Okay? So, as I said in the beginning,  
20 it seems to me that if we're looking at the formation of  
21 blocking coalitions as the process whereby we move towards  
22 the core and that's what's economic efficiency, when we  
23 talk about the formation of blocking coalitions, we don't  
24 insist in the interim that they actually have to increase  
25 efficiency. Instead, we know that if you allow the

1 formation of blocking coalitions without that inquiry,  
2 that process, when it settles down, will get you to  
3 something that's in the core and therefore really is  
4 economically efficient

5           So, it seems to me that that captures a lot of  
6 the spirit of the competitive process, that we're  
7 protecting the process of forming blocking coalitions. We  
8 believe that in the long run that will lead to economic  
9 efficiency and it is not necessary and may actually be  
10 counterproductive to ask about economic efficiency at each  
11 step.

12           That does not mean that I'm advocating a  
13 consumer surplus criterion. Instead, I'm assuming that the final  
14 criterion is actually economic efficiency. At each step,  
15 we do actually look at what consumers want because it's  
16 presumed, I guess, that if an entrant is willing to offer  
17 consumers a better deal, then the entrant likes the  
18 formation of this blocking coalition. So, the question  
19 becomes: Do consumers also like it. But the fact that  
20 there's a sense in which we're looking at consumer  
21 preferences at each step, does not at all imply that the  
22 final goal is consumer surplus.

23           So, that freedom to trade principle is, we  
24 think, an intriguing and promising way to understand  
25 antitrust starting -- or a lot of antitrust, anyway,

1 starting from first principles. How far does it get you?  
2 It gets you to understand, or at least understand the  
3 difficulties in some cases, like the hypothetical I was  
4 talking about and some others. But there's a huge range  
5 of unilateral conduct that gets challenged in antitrust  
6 that it really doesn't directly help you to understand.  
7 And let me sketch this out

And in order to help this, what we(t unr at least undergoh that

1 typically. I'm going say a price of one hundred dollars  
2 for Product A and a price of five dollars for Product B.  
3 And the discrepancy there is meant to reduce confusion  
4 about which is which. Okay?

5           And as a potential blocking coalition, sort of,  
6 when entrant and consumers enter B at a price of three  
7 dollars. In other words, there's somebody out there who  
8 would love to supply B for three dollars, but the entrant  
9 simply can't do A, so the incumbent is a monopolist in A.  
10 And the incumbent says, using one technique or another, if  
11 you want to buy my A, you have to buy my B, or more  
12 generally links A to B. Okay.

13           So, the incumbent might refuse to trade in A if  
14 the customer deals with the entrant in B, or it might  
15 raise the price of A from a hundred to, let's say, a  
16 hundred and ten, which would swamp, of course, any gains  
17 from buying B at three instead of five. And given that  
18 we're assuming that there's a monopoly in A, by the way,  
19 that may well not involve a big profit penalty for the  
20 incumbent.

21           Now, if you look in B, it should look like  
22 freedom to trade is violated and certainly the playing  
23 field is not level. But in A and B together, there isn't  
24 a potential blocking coalition. Nobody but the incumbent,  
25 I assume, can do A, and consumers don't want to just get



1 the cheaper B and not get A. So, if you take the freedom  
2 to trade criterion strictly, there is no potential  
3 blocking coalition, so there can't be a risk that the  
4 incumbent is thwarting a potential blocking coalition.

5           And really what this comes down<sup>12</sup> to is: What's  
6 the right unit of analysis. Should we be<sup>12</sup> looking at A and  
7 B together? Should we look at B separately<sup>12</sup>? What should  
8 we do?

9           By the way, I tried to avoid using the term<sup>12</sup>  
10 "market" in talking about A and B because there's no  
11 particular reason to think that A and B will be defined in  
12 the usual way of antitrust markets.

13           So, just to illustrate this, in case it's  
getting a little too abstract, a few of the traditional

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1 process that hasn't really linked them very tightly to  
2 first principles.

3           So, to me, it reinforces that these are thorny  
4 issues. The positive message is, at least for me, it  
5 brings the thorns into sharper focus. And the particular  
6 thorn that I think is pervasive here and is brought into  
7 sharper focus is when, how, in what circumstances, in what  
8 ways can one in some sense require the incumbent to hold  
9 fixed its offer in A, and then we analyze level playing  
10 field or freedom to trade in B.

11           Is that always illegitimate? That would be a  
12 strict interpretation of freedom to trade as the only  
13 criterion. Is it always legitimate? That would be the  
14 opposite, I guess. Or is there something in between?

15           Ideally, based firmly on these same first  
16 principles. So, it's not a question of saying, well,  
17 let's consider a hypothetical and figure out what we  
18 intuitively think. But I'd like to work towards getting  
19 there in a way that's closely linked to these first  
20 principles.

21           Thank you.

22           (Applause.)

23           MR. COHEN: Where are we, Aaron?

24           MR. EDLIN: I will after the break, or any time  
25 I think, be able to project the slides.

1           MR. COHEN: Okay, should we then go on to  
2 Howard?

3           MR. EDLIN: No. I am ready to present,

4           MR. COHEN: Fine. We're now going to turn to  
5 Aaron Edlin.

6           MR. EDLIN: Look at that, okay. Great progress.  
7 Let's do the show.

8           So, the title is, "Sacrifice, Extreme Sacrifice,  
9 and No Economic Sense," three criteria that have been  
10 bandied about a lot recently and increasingly over the  
11 past two decades.

12           After the colon, the title is: "The case  
13 against these necessary and sufficient tests for  
14 monopolization."

15           So, of course the big question, the \$64,000  
16 question in Section 2 is: When is exclusion  
17 anticompetitive and when is it not? The easy case that we  
18 all understand, presumably, as to how to answer is, if a  
19 monopoly excludes competitors by consistently charging low  
20 prices, well that is anticompetitive. It's the essence of  
21 the competitive process. It's good for consumers.

22           What that example goes to prove, however, is  
23 that we need something other than exclusion to be  
24 anticompetitive. So, the question is: What plus  
25 exclusion is anticompetitive. The "what" is clearly not

1 consistently low prices. The question, though, is what  
2 the "what" is.

3           And three possible whats have been, as I said,



1 predatory pricing, then what I mean is above cost pricing  
2 that is exclusionary and anticompetitive. There I explain  
3 how consumers can be hurt by threats to lower prices, much  
4 as Joe Farrell explained, even though prices will remain  
5 above cost, and perhaps even though prices may be profit  
6 maximizing.

7           I ask rhetorically: If sacrifice is wrong  
8 headed in the predatory pricing context, why are we  
9 extending it to non-pricing cases? Consider "Aspen."  
10 Now, suppose, as I think is likely, that Ski Company's  
11 refusal to sell at retail prices to Highlands increased  
12 Ski's retail sales to skiers. What I'm thinking there is  
13 that it certainly is conceivable, perhaps even likely,  
14 that when Ski Company refused to sell at retail to  
15 Highlands, what that meant was that, sure, they sold a  
16 couple less tickets as part of Highlands' adventure packs.  
17 However, on the other hand, what likely happened was that  
18 the consumer decided, or many of them did, that they would  
19 buy a whole week of skiing at Ski Company. So, there may  
20 have been no sacrifice there of profits, even though they  
21 refused to sell at retail.

22           But would that mean that the refusal was any  
23 less exclusionary or anticompetitive? I think not. The  
24 "Aspen" court didn't just rest on what I think is a shaky  
25 notion of Ski Company's sacrifice, but they also

1 emphasized what they took to be consumer harm, the  
2 revisionist claims of Trinko about "Aspen"  
3 notwithstanding.

4           Another case or set of cases where I think it's  
5 fairly clear that sacrifice is not necessary for  
6 anticompetitive effect are submarine patents. If you seek  
7 a patented process into an industry standard, that may not  
8 involve sacrifice of any kind that I can see. But that  
9 fact doesn't make it a good thing to do.

10           Many people have been talking about an extreme  
11 case where Firm A blows up a competitor's plant. Now,  
12 Werden and Melamed, and fellow travelers with them,  
13 emphasize that this isn't a problem for them because the  
14 cost of the dynamite triggers liability. There is a  
15 sacrifice; you had to pay for the dynamite. And that is  
16 what triggers liability and means that there's no economic  
17 sense to blowing up your competitor's plant but for the  
18 lessening of competition, which justifies the cost of  
19 paying for dynamite.

20           Like Joe Farrell, I don't -- this reasoning  
21 doesn't grab me and I feel a great suspicion that the cost  
22 of the dynamite could really be important here. But one  
23 way of saying that is to change the hypo. What if Firm A  
24 is avoiding a dump fee by depositing of surplus dynamite in  
25 this way. If they didn't blow up the competitor's plant,



1 they would have had to pay a dump fee to dispose of the  
2 dynamite.

3 Well, now I gather that the dynamite has a  
4 negative cost. So, according to the no economic sense  
5 test or the sacrifice test, there should be no liability.  
6 Well, this just can't be. It can't be that it should  
7 hinge on that. This suggests to me that the sacrifice  
8 test is not looking at the right thing.

9 If the sacrifice test is not looking at the  
10 right thing, neither is extreme sacrifice. Extreme  
11 sacrifice, that is losses, are certainly not needed for  
12 anticompetitive effect. Consider the American Airlines  
13 case brought by the DOJ unsuccessfully. The judge thought  
14 there that the extra plane was profitable if you ignore  
15 effects on other planes. I suggest that everyone reread  
16 footnote 13 of that case over and over and over again if  
17 you think that the extreme sacrifice test might make  
18 sense, as the judge did.

19 Marginal revenue, as every economist and econ 1  
20 student knows, is less than price. For firms with lots of  
21 market power, which you might think are one of the focuses  
22 of Section 2, marginal revenue is much lower than price.  
23 What that means is that monopolies with lots of market  
24 power can sacrifice enormously without triggering the  
25 extreme sacrifice test. I think, as I pointed out

1 previously, it is very ironic to give such firms a  
2 license, such a license, such a grand license to exclude.

3           Let's go back and consider the case of blowing  
4 up your competitor's factory. Could it be a violation  
5 only if the dynamite is so expensive that its cost exceeds  
6 Firm A's operating profits? It seems outlandish to me on  
7 its face, but the extreme sacrifice test says yes.

8           And I'll point out that in that case, firms with  
9 large profits have a substantial and much larger license  
10 to blow up their competitors than other firms.  
11 Rhetorically I'll ask why.

12           Consider the no economic sense test. Does that  
13 make sense? Well, apply it to limit pricing. Consider a  
14 firm that could charge a high price and make lots of  
15 money, for a while anyway, but this firm chooses a low  
16 price, less profitable for now. Why? In order to delay  
17 or prevent entry.

18           Suppose there is no economic sense in charging  
19 this low price before there is entry, except that it  
20 prevents others from entering. Well, the no economic  
21 sense test condemns that limit pricing. But note that  
22 that's the essence of competition. It's what I had as the  
23 easy case on slide two.

24           Werden doesn't apply the test here. Instead he  
25 grants a safe harbor for charging the low price.

1           Now, if your test would condemn this case and so  
2 you have to make an exception and grant a safe harbor  
3 because it's so obvious that this is procompetitive, I'd  
4 suggest that the test is not getting at the fundamentals.  
5 This smells bad to me.

6           Back to blowing up the competitor's factory, a  
7 la "Conwood" discussion, Werden, page 425. Proponents of  
8 the no economic sense test emphasize again that the cost  
9 of the dynamite makes it illegal. As I pointed out, costs  
10 might be negative in the dump fee hypothetical.

11           My claim would be that blowing up your  
12 competitor's factory is anticompetitive regardless of the  
13 cost of the dynamite, regardless of whether it has a  
14 negative cost, a small positive cost, or costs more than  
15 the operating profits, regardless of whether you pass the  
16 no economic sense test.

17           The fundamental problem in my view with all  
18 these sacrifice tests is that these tests don't flow from  
19 any kind of first principles that are attractive. They  
20 don't flow from consumer welfare or from efficiency. They  
21 also don't flow from a notion of how the competitive  
22 process would work, for example, a process by which rivals  
23 can offer consumers - by which rivals who can offer  
24 consumers higher utility actually get to provide that  
25 higher utility.

1           The tests don't flow from any other principles  
2 I've been able to discern from reading about them.

3           Now, when someone like me points out that there  
4 are many cases where the tests are not satisfied but the  
5 action is anticompetitive, what you quickly bump into,  
6 both in the commentary and in the cases, is a refrain  
7 about false positives. It's a chorus. Fears and claims  
8 about these false positives abound. However, I'd suggest  
9 a modern example that I can put forward are pretty scarce.

10           A common argument is that you need a hurdle to  
11 avoid these false positives. So, sacrifice is not needed  
12 for anticompetitive effect, but the plaintiffs should be  
13 required to show it anyway, in order to prevent an avalanche  
14 of cases from chilling legitimate competition.

15           To me, when I hear that, I wonder, why not just  
16 tax plaintiffs, if that's the goal. Or, if you really  
    want to eliminate these false positives, you could



1 Professor Shelanski served as Chief Economist of the  
2 Federal Communications Commission, and in 1998 to 1999, he  
3 was a Senior Economist to the President's Council of  
4 Economic Advisers at the White House.

5 On the law side, Professor Shelanski served as a  
6 clerk to U.S. Supreme Court Justice Antonin Scalia.

7 We welcome your presentation.

8 MR. SHELANSKI: Thanks very much, Bill. I'm  
9 really happy to be here. And I want to make a  
10 presentation that at least in some aspects will connect to  
11 what my colleague Aaron Edlin was just talking about, in  
12 the sense that it may give some insights into how to  
13 choose among different kinds of tests for enforcement  
14 under Section 2.

15 And I want to speak specifically about  
16 enforcement in the area of unilateral refusals to deal, an  
17 area that has, I think, become particularly challenging in  
18 the wake of the "Trinko" case.

19 And the broad point that I want to make is this:  
20 That at the same time that the Department of Justice and  
21 the Federal Trade Commission are reviewing enforcement  
22 policy for Section 2 of the Sherman Act, there are  
23 parallel efforts ongoing, indeed some undertaken in recent  
24 years by the Federal Trade Commission, to rethink and  
25 reform intellectual property rights, and particularly to

1 reform it in a way that makes it harder for firms to use  
2 intellectual property to foreclose competition with weak  
3 or questionable IP rights.

4           And I think that the potential outcomes of IP  
5 reform could matter for aspects of antitrust reforms, and  
6 notably for policy toward unilateral refusals to deal.

7           So, my main point is that, in thinking about  
8 Section 2 enforcement, and in particular thinking about  
9 unilateral refusals to deal, antitrust reform efforts  
10 should not ignore intellectual property reform processes

11           So, I have a general suggestion, which is that

1 with competitors. Now, there are many things one can read  
2 into "Trinko". "Trinko" adopts a very strong line against  
3 duties to deal for firms in the unilateral context. But  
4 "Trinko" did preserve "Aspen". Very interestingly,  
5 "Aspen", which is a hard case to teach to students and in  
6 many ways a hard case to explain. "Aspen" is a case that  
7 imposed a duty to deal.

8 I agree with Aaron Edlin that Justice Scalia  
9 engaged in some revisionism by finding profit sacrifice in  
10 that case, but inherently what "Aspen" says is, if there  
11 is nothing that you gain by refusing to deal, then we are  
12 going to assume that what you gained is a reduction in  
13 competition that inures to your benefit. That's one way  
14 of looking at it. But "Aspen" still exists after  
15 "Trinko". We have a strong presumption articulated in the  
16 "Trinko" decision against imposing duties to deal.

17 The question that's left for the antitrust  
18 agencies is the following: Okay, where do we impose the  
19 duty to deal or not. So, I want to talk a little bit  
20 about some policy issues that might arise, some background  
21 issues, and then talk about how IP reform might affect the  
22 answer to that question of what standard to use in  
23 imposing a duty to deal.

24 Well, the first thing that we need to keep in  
25 mind of course is that only some refusals to deal cause



1 anticompetitive harm. There are many cases where refusals  
2 to deal will cause competitive supply to enter the market,  
3 would cause a firm to invent around the refusal to deal or  
4 to innovate or produce something itself.

5           Mandatory dealing in cases where there isn't  
6 anticompetitive harm could impede investment and  
7 innovation by the firms being forced to deal. So, that's  
8 an argument one often hears. If you go back to some of  
9 the previous rounds of these hearings, Former Assistant  
10 Attorney General for Antitrust Eupate has some testimony  
11 saying exactly this, if you force firms to deal, they're  
12 not going to innovate. There's some interesting counter  
6 argument by Professor Steven Fallon that suggests the

7 4



1 "Trinko", but it's a very clean line and we avoid any risk  
2 of deterring innovation on either the supply or the demand  
3 side.

4           Alternatively, we have a range of rule of reason  
5 approaches. And I'm just going to very simplistically  
6 phrase them as potential consumer welfare tests, the kind  
7 of tests that Professor Salop proposed in an earlier round  
8 of these hearings; a business justification test, which  
9 Kolasky suggested in that same round; and a profit  
10 sacrifice test of various stringency, ranging right up to  
11 a no business sense kind of test of the kind that Doug  
12 Melamed has articulated.

13           Then we have the old line essential facilities  
14 approach, which as Justice Scalia tells us, the Supreme  
15 Court has never adopted. One could quibble about what  
16 "Onertel" means, but there is some precedent certainly in  
17 the Appellate Court for the essential facilities approach,

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1 evidence that that is [unintelligible]. And I think  
2 you're likely to have poor welfare effects here.

3 I don't much like the essential facilities  
4 approach either because it does ignore some legitimate  
5 business justifications. And I think that it may too  
6 easily allow access and deter innovation and investment by  
7 the buyer or the third parties. And more -- of great  
8 concern is it requires a quasi-regulatory solution.

9 While I fully agree with my colleague Aaron that  
10 we should not let administrative difficulties justify a  
11 bad test, we shouldn't ignore administrative difficulties  
12 in the test that we actually choose to administer. And  
13 there's some hard pricing questions that emerge any time  
14 that we follow the full essential facilities test as it's  
15 been articulated in the appellate courts.

16 Well, this leads to the rule of reason  
17 alternatives. And I'm not going to exactly say which rule  
18 of reason alternative I think is best. I think we've  
19 heard a lot of very interesting and provocative arguments  
20 for the specific nature of the test.

21 I want to oversimplify by assuming that if you  
22 took all of the rules of reason tests that are proposed  
23 that you can differentiate them along a spectrum from  
24 relatively strong enforcement to relatively weak  
25 enforcement. In other words, they can be differentiated

1 according to the likelihood that we'll find conduct to be  
2 anticompetitive by how strictly they would enforce against  
3 refusals to deal and how likely they would be to impose a  
4 duty to deal.

5           So, the policy for the courts and the antitrust  
6 agencies I think may be how stringent or generous the rule  
7 of reason test to choose for judging refusals to deal. I  
8 think that IP rights, intellectual property rights, might  
9 affect the answer. And here's why.

10           Intellectual property rights are a primary  
11 source of legal barriers to competitive provision of goods  
12 that an incumbent refuses to sell to rivals. We heard in  
13 the testimony yesterday from some of the company  
14 witnesses, notably QUALCOMM and a couple of others, that  
15 they're very concerned about any rule that might require  
16 them to deal in particular ways with their intellectual  
17 property. Intellectual property rights grant them a legal  
18 ability to give them the ability to impose a legal barrier  
19 to invent around to innovations that would replicate their  
20 invention, and therefore gives power, creates an effect  
21 out of their refusal to deal or refusal to deal on  
22 particular terms.

23           But, logically, any reduction in the strength  
24 and availability of IP protections could reduce the pool  
25 of goods for which there are legal barriers to competitive

1 supply. There is an empirical question buried in here  
2 that I will return to at the end. But I think that IP  
3 reform could therefore affect the frequency with which  
4 refusals to deal weaken the conditions for being  
5 anticompetitive, in turn affecting the likelihood that  
6 enforcement of the duty to deal was warranted.

7           So, what's the benefit of a more discerning  
8 intellectual property policy if IP reform reduces a firm's  
9 ability to use IP protections to block competitive supply  
10 and innovation, then IP reform can limit the need for rule  
11 of reason exceptions to Trinko's presumption against  
12 mandatory dealing with rivals.

13           Now, one might say, okay, fine, why not have  
14 intellectual property reform and a fairly liberal duty to  
15 deal. Won't that unblock lots anticompetitive refusals to  
16 deal.

17           Well, both intellectual property reform and  
18 duties to deal aim to reduce barriers to competitive  
19 supply and innovation, but I think that their individual  
20 welfare effects may not be additive if they're undertaken  
21 together.

22           Suppose that we do not have IP reform and that  
23 there is some good that is being used anticompetitively to  
24 block competitive supply. The duty to deal can increase  
25 welfare with no risk of deterring investment or innovation

1 by the would-be buyer or third parties. The would-be  
2 buyer or third parties could be blocked by an intellectual  
3 property barrier to competitive supply or innovation, and  
4 so requiring that the refusing to sell or deal doesn't  
5 block any innovation on the demand side by the would-be  
6 buyer or by third parties. It might deter innovation and  
7 investment by the incumbent. That is something that we  
8 need to think about.

9           With reduction of legal barriers through IP  
10 reform, however, the duty to deal now can undermine new  
11 competition and innovation, reducing welfare. So, the  
12 firm that is refusing to deal and the good that is  
13 protected by intellectual property, if they now have a  
14 weaker intellectual property right, we might want to say,  
15 well, let's not make them deal because now there's an  
16 invent around or a replication that didn't exist before.

17           So, IP reform raises the likelihood, whether to  
18 any significant level is another question, but it raises  
19 the likelihood of false positives in antitrust enforcement  
20 through imposition of a duty to deal where the conditions  
21 for anticompetitive harm as a legal barrier do not hold.

22           So, let's take a little bit of a closer look at  
23 the implications of IP reform for Section 2 reform. There  
24 are several kinds of proposals for intellectual property  
25 reform that could bear on the effects of refusals to deal.

1 There's just some broad examples

2           There are proposals to raise the bar for  
3 patentability: better pre and post grant opposition  
4 procedures; more transparent review, both in initial grant  
5 and post grant of patent grants or annuities.

6           There are also proposals to reduce consequences  
7 of patentability: a narrowed patentable subject matter,  
8 for example, cutting software out of patentable subject  
9 matters; expanded research exceptions and reduced  
10 presumptions of harm in injunction proceedings which might  
11 push parties to the bargaining table; and limit refusals  
12 to deal. And these are proposals that can be found in the  
13 National Academy of Sciences' proposal, in the Federal  
14 Trade Commission's report of a couple of years ago; in  
15 draft statute that floated around in 2004; and in a  
16 variety of ongoing documents one can find these proposals.

17           So, the effects of these proposals would likely  
18 be to make fewer goods subject to IP protections and to  
19 make those protections less expansive. Some of the most  
20 prominently discussed IP reforms, and I think this is the  
21 important point, would reduce the ability of incumbents to  
22 foreclose competitive provision of goods through the  
23 exercise of intellectual property rights.

24           Depending on circumstances, these refined IP  
25 protections could have varying effects on incentives to



1 deal. The reduced ability to foreclose competitive  
2 innovation through the enforcement of an intellectual  
3 property right might make an incumbent more eager to sell  
4 to rivals because it would expect greater competitive  
5 entry in the relevant property market than existed  
6 pre-reform, and the incumbent may therefore want to take  
7 the sales for itself for as long as it can.

8           Alternatively, an incumbent may be less eager to  
9 deal if the sale to others would raise the speed or  
10 likelihood of competitive entry compared to what would  
11 occur if it keeps the good to itself.

12           And which of these incentive effects occurs  
13 would depend very much on the nature of the good, the  
14 degree to which the selling firm is vertically integrated.  
15 There are a number of questions that are factored in.

16           But I think on the whole refined intellectual  
17 property could reduce the incidence and the impact of  
18 refusals to deal. It is true that refined IP protections  
19 could reduce the willingness to deal with rivals by  
20 reducing an incumbent's ability to block replication of or  
21 innovative alternatives to its technology. But I think  
22 this effect is most likely where the goods involved are  
23 easy to reverse engineer and replicate. And these in  
24 turn, I think, are the goods where refusals to deal would  
25 be less harmful because the would be-buyer or others will

1 eventually be able to market.

2           So, on the whole, I think we'll find  
3 intellectual property protections should either reduce  
4 incentives to refusals to deal, or reduce the long-term  
5 effects of refusing to deal by opening the door to  
6 competitive supply and innovation.

7           So, what are the implications for Section 2  
8 reform? The latter effect, competitive reinvention or  
9 replication of the goods at issue in a refusal case should  
10 be preserved. Antitrust reform should not impede a  
11 competitive reinvention because they should not provide an  
12 alternative or option to competitive entry or invention or  
13 innovation where it is feasible to occur.

14           So, I think that if intellectual property reform  
15 reduced legal barriers to competitive production of the  
16 relevant good, Section 2 should be less willing to require  
17 the incumbent to deal. Broad exemptions to the "Trinko"  
18 presumption against mandated dealing could create a  
19 quasi-regulatory alternative to buyers that is unnecessary  
20 and unhelpful to economic welfare.

21           So, that's some questions to investigate before  
22 we know whether intellectual property reform is actually  
23 going to matter.

24           Several key questions. First of all, how likely  
25 is IP reform and to what extent will it refine the

consequences of IP protections for competition. I think

1 test the courts and agencies should apply in assessing the  
2 reasonability of refusals to deal with rivals. And the  
3 potential results of intellectual property reform may be a  
4 relevant consideration in that choice, with more refined  
5 intellectual property rights weighing in favor of less  
6 strict enforcement against refusals to deal.

7 Thank you.

8 MR. COHEN: Thank you very much Howard we're now  
9 going to take a break for roughly fifteen minutes.

10 (A brief recess was taken.)

11 MR. COHEN: Fine. Before we begin our questions  
12 and round-table discussions, I think a way to start this  
13 second session would be to give each of our speakers a few  
14 minutes to respond to or comment upon some of the issues  
15 that were raised by the other panelists.

16 You can go in whichever order you prefer. We do  
17 ask as a reminder to speak into the microphone so we can  
18 get this transcript.

19 MR. SHELANSKI: I'll start because I expect  
20 collusion over here on the right.

21 So, I really enjoyed Aaron's and Joe's related  
22 presentations and I think that they are both in the core  
23 respects correct. I do have just a couple of observations  
24 or comments.

25 So, one suggestion I would make is if you take

1 Aaron's presentation and Joe's presentation and put them  
2 together, you could take them as saying that, if a firm  
3 cuts price in response to entry, one test is that it is  
4 not acting anticompetitively, it's in a safe harbor if it  
5 keeps its price low.

6           And I just wonder -- the question I would have  
7 or the thing I would ask them to consider is whether their  
8 proposals, as compared with other tests that are typically  
9 used in this area, would increase the ability of  
10 competitive firms already in the market to raise rivals'  
11 costs by entering, for example, on the airline route that  
12 was at five hundred, bringing it down to two hundred, and  
13 then basically telling the five hundred dollar firm, you  
14 either need to cut your price and keep it there or face  
15 some kind of antitrust scrutiny that you will find  
16 unpleasant.

17           Is the raising of rivals' cost prospect greater  
18 under proposal than under others? I don't know. It's  
19 just something that I think ought to be thought about

20           The other comment that I have is that I am not  
21 fully persuaded that costs don't matter at all in the  
22 consideration of whether or not the five hundred dollar  
23 price is a problem or not. Obviously, as Aaron points  
24 out, the monopolist has the greater ability to sacrifice  
25 profits because it has obviously much higher net profits.

1 But I wonder, again, and this may relate to the  
2 competitive strategy angle here, if the five hundred  
3 dollar price is not three hundred dollars above the  
4 competitive equilibrium, but a hundred dollars over the  
5 competitive equilibrium, we might worry a little bit less  
6 about the five hundred dollar price being the one that  
7 we're running into in the market because someone decides  
8 not to enter at four hundred dollars. Don't we have to  
9 look at costs to know how great a welfare loss there is to  
10 the current test? And would that matter to your  
11 recommendation of what do in in a particular case?

12 MR. FARRELL: Well, let me start with that last  
13 one.

14 I think if we knew everything, then you're  
15 probably right. I would take pretty strongly the  
16 perspective that the competitive process is about having  
17 policies that don't require us to know what the  
18 competitive equilibrium price is likely to be, and that  
19 therefore enforcement of competition policy and antitrust  
20 should not depend upon on our being able to say we think  
21 the competitive price would be X.

22 And that's part of why I think the competitive  
23 process, as I understand it, operates through the  
24 formation of a blocking coalition that make the  
25 participants better off, without an inquiry into how much

1 the incumbent loses from this entry.

2           So, if you look at the entry in the oligopoly  
3 literature, the usual citation is the Mankiw and Whinston  
4 article, 1986 or thereabouts. And if you think about the  
5 way that regulation has traditionally treated  
6 cream-skimming and loss of income and profits due to entry  
7 and, think in terms of access pricing to control and deal  
8 with that, all of that it seems to me is extremely foreign  
9 to competition policy. And the reason it's foreign to  
10 competition policy is I think that the competitive process  
11 works precisely by ignoring the effects on the incumbent.  
12 And obviously if you want to increase welfare in the  
13 small, ignoring something like that that could be quite  
14 important is a stupid thing to do. But I think as part of  
15 an overall process, it's brilliant and seems to work  
16 rather well.

17           And I think there are times, perhaps many times,  
18 when many, perhaps all of us, get confused about that.  
19 Because there's no doubt, I think there's a consensus that  
20 the eventual goal of all of this is economic efficiency.  
21 So, it's always very tempting to look at economic  
22 efficiency in each instance, and perhaps often is right to  
23 do so, but I think it's often wrong to do so.

24           MR. SHELANSKI: And just a comment here on legal  
25 precedence.

1           I actually think that you're on pretty good  
2 ground with some recent legal precedent. I mean, if I  
3 understood your comments about "Barry Wright" correctly,  
4 that that case made the mistake of thinking that downward  
5 pricing was more important than the competitive process.  
6 Maybe that's a way of summarizing your critique. I don't  
7 know if that's unfair or not.

8           And certainly in Arizona against the Maricopa  
9 Medical Association case, even though that was a Section 1  
10 case, the Supreme Court said fairly strongly that we don't  
11 care about direction price level. What we care about is  
12 the competitive process and making sure it works well.

13           So, there might be some legal standing for you  
14 to argue that your proposal is more in keeping with modern  
15 processor oriented thinking instead of the price oriented  
16 thinking that polluted the predatory pricing process.

17           MR. FARRELL: I have something else to say, but  
18 if you want to respond to that.

19           MR. EDLIN: Well, I wasn't going to respond to  
20 that. I was going to respond to what he said previously,  
21 which I suppose is not the rule as to how a conversation  
22 goes.

23           But I think Joe is right that, to the extent we  
24 can, we're certainly better off having an antitrust  
25 jurisprudence that doesn't focus on things that we are not



1 very apt to know, like costs.

2           And as to Howard's point, which is certainly  
3 correct, that if price is close already to the competitive  
4 equilibrium, then you shouldn't worry very much about what  
5 happens no matter what. I agree with that. And one thing  
6 that -- this gets to the last slide I had, which is, you  
7 may want to only worry about firms thwarting rivals from  
8 providing very substantial value increases to consumers,  
9 and not worry about situations where they are only  
10 providing minimal value increases. And if the prices are  
11 already pretty close to the competitive level, then you  
12 won't find rivals offering to provide very substantial  
13 value increases to consumers, and so we won't find that  
14 antitrust interferes very much in those circumstances.

15           But now you wanted to respond to what he just  
16 said.

17           MR. FARRELL: Well, I wanted to say something  
18 else about the role of costs in all of this.

19           There's no doubt that sacrifice tests and cost  
20 tests can be illuminating concerning intent. And it's a  
21 bit of a paradox, I think, or piquant at least, that  
22 many of the same people who are very keen on sacrifice  
23 tests are also the first ones to lay into any attempt to  
24 use intent evidence in an antitrust case.

25           It seems to me that intent is what you can

1 sometimes infer from sacrifice tests, and one needs to be  
2 careful using intent evidence. Obviously there is the  
3 pervasive problem of testosterone poisoned sales managers.  
4 But thoughtful, high level intent may often be the best  
5 available evidence as to contemporaneous estimates of  
6 likely effects.

7           And so I don't think we should be either too  
8 credulous or too rude about intent evidence. It's a kind  
9 of evidence, and it seems to me it's the kind of evidence  
10 that's most directly brought out by looking at sacrifice.

11           Let me say one other thing, though, about how  
12 cost information might be useful.

13           If it's right, as I suggested at one point, that  
14 you'd want to look at, in my hypothetical Northeast two  
15 hundred dollar price, and in some sense try to gauge  
16 whether that is where we've now got to, or whether it's  
17 just a quick and short-lived fighting price that will  
18 disappear as soon as the entrant has gone away and will be  
19 back to five hundred, if that's an important question,  
20 which it may well be, then it's perhaps somewhat  
21 informative to look at Northeast's costs, because if two  
22 hundred is below Northeast's cost, you might say, well,  
23 that more or less rules out the possibility that it's now  
24 the permanent price.

25           Of course, there's a lot of other evidence about

1 what the permanent price must be, such as what actually  
2 happened post exit versus what was happening pre-entry.  
3 And so I certainly don't see that costs would play a  
4 determinative role there, but it might be relevant to  
5 thinking about that question.

6 MR. COHEN: Okay. I think we'll start things  
7 off by building on some of Aaron's testimony.

8 I'll try the first question. Given the critique  
9 that you supplied of some of the existing tests as to  
10 whether conduct is exclusionary, what's your thinking as  
11 to whether it's sensible to be looking for any single test  
12 that captures all the elements of what we would want in  
13 all the various situations to determine whether something  
14 is exclusionary or not? Is this something that we could  
15 hope for? Is this something beyond our ability?

16 MR. EDLIN: Well, I'd say it's always reasonable  
17 to hope, and physicists will hope for the grand unified  
18 theory and they may find it, and we should similarly hope  
19 here.

20 Now, however, I think that what you should not  
21 hope for is that you'll find the right unified test and it  
22 will be easy to apply to the facts in any given  
23 circumstance. Whatever test you think is right is going  
24 to necessarily lead to huge factual disputes as to how the  
25 test comes out under the circumstance. I think a lot of

1 people are driven by a desire to get away from that  
2 problem. And I think ultimately there are only two ways  
3 to get away from that problem, and one is per se legality  
4 and the other one is per se illegality, and both of them  
5 are very convenient, but I think that both of them are the  
6 wrong answer.

7 MR. COHEN: Anyone else?

8 Another way of trying to get at sort of the same  
9 set of issues, I guess, do you have any principles in mind  
10 that might help us determine areas in which any given test  
11 is more likely to work in a given setting than another  
12 setting? For example, are we more likely to have success  
13 with one of these tests in any price or non-price context?  
14 Are we more likely to have success with one of these tests  
15 in a setting where the issue is tying up inputs rather  
16 than settings which involve some of type of tortious  
17 conduct? Are there generalities that might guide us?

18 MR. EDLIN: I think the main generality I would  
19 have is that one is more likely to have success with the  
20 test when it's seen from a sufficiency point of view than  
21 from a necessity point of view. And it -- or viewed  
22 differently, that these things are very -- can be very  
23 helpful evidence, either, as Joe said of intent, or of  
24 likely effect, which is to say, if you would not do it but  
25 for substantial diminution in competition, well, that

1 suggests substantial diminution in competition is likely.

2           So, the test can be very relevant from that  
3 point of view. It's when you start to push the  
4 implication sign the other way, which is what's been  
5 happening, that I think there's real danger. And the  
6 danger is across all of the categories that you listed.

7           MR. COHEN: I noticed when you went through some  
8 of the variance of these tests, in a couple of the  
9 instances, you included a temporal dimension. You  
10 included short-term sacrifice for long-term profits.

11           Does anybody regard the short-term/long-term

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1 that this is a price you would charge in the long run,  
2 that might tell you about something about what time scale  
3 you're looking over.

4           So, I would go back to the underlying logic.  
5 And if you don't know how to go back to the underlying  
6 logic, that's a sign that there are deeper problems than  
7 just not knowing for what time scale to evaluate things.

8           MR. MATELIS: This is a question about false  
9 positives and false negatives, which you mentioned, Aaron,  
10 and I'd be interested in all the panels' views.

11           I suppose a slightly more spirited defense of  
12 the concept of false positives, which the Supreme Court  
13 has mentioned in just about every Section 2 case in the  
14 last twenty-five years, is that the competitive process is  
15 likely to fix false positives, whereas false negatives  
16 become ingrained in precedent and we're stuck with them  
17 for many, many years, as we were for decades in predatory  
18 pricing jurisprudence, where plaintiffs were winning cases  
19 where today I think everyone would agree they might not.

20           Is this really a concern? Is the Supreme Court  
21 wrong stressing the idea of false positives, or is the  
22 concern overstated in general? How should this play a  
23 role in devising antitrust policy?

24           MR. EDLIN: Well, I think you flipped the false  
25 positives and false negatives there, so I'll try to answer

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1 insignificant standard of proof where it seems sufficient  
2 to allege that something bad happened rather than to  
3 really prove it, then we should crank up the standard of  
4 proof. And if -- and/or you say that you have to show  
5 that something really very bad happened, rather than just  
6 a little bad.

7           So, I see the problem of false positives as  
8 being less in the precedents than in the applications of  
9 the facts.

10           MR. SHELANSKI: I agree with Aaron. I would  
11 just add that I think a lot of rules look bad from a false  
12 positive standpoint. They look worse from the false  
13 positive standpoint at the beginning when the rule is  
14 articulated, then after there has been experience gained  
15 in its application.

16           I think that, as an agency gains familiarity  
17 with the application of a rule, understanding of what  
18 certain fact patterns really mean, as courts get more  
19 experiences with reviewing cases and get a body of  
precedence and a body of ju Issh7lceden(17a)Tj-, then somealf0staihou7fs  
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1           MR. FARRELL: Well, in the unlikely event that I  
2 ever end up on an antitrust trust jury, I guess what I  
3 would want to hear is: The following specific questions  
4 have been given some prominence, but you the jury should  
5 please interpret them to the extent possible in light of  
6 the kind of fundamental things that Aaron was mentioning.

7           MR. COHEN: Okay, let's turn a few questions to  
8 Joe's presentation.

9           I really started with three questions, but as I  
10 think about it more, they come together into one. I'll  
11 throw it out in various forms.

12           You talked some time early on about whether the  
13 results of not being able to successfully form a blocking  
14 coalition results from actions of the five hundred dollar  
15 airline, whether it happened intentionally or not, I think  
16 you said at one point, or another time you phrased it,  
17 whether it's a natural outcome of the way the market  
18 worked.

19           But then your rule you were trying to focus on  
20 where there's really a problem, you talked about whether  
21 the incumbent, the five hundred dollar incumbent,  
22 strategically thwarts the coalition.

23           I'm going to ask you to try to give us some  
24 content about what you mean about "strategically thwarts."  
25 And maybe you can think about it in terms of a question of

1 whether this approach would make it unlawful for a low  
2 cost producer merely to develop the reputation as an  
3 aggressive price competitor.

4           Sort of a third way of asking the same question:  
5 What's happened to the bad conduct element of Section 2 in  
6 this core analysis?

7           MR. FARRELL: Well, so first off, as I  
8 understand it, where we're surrounded by lawyers here, I  
9 don't think there is a bad conduct. There's an  
10 anticompetitive component, anticompetitive conduct.

11           And if you accept the ideas that are being put  
12 forward about what anticompetitiveness means, then there  
13 can be conduct that is anticompetitive that is harmful for  
14 competition that isn't necessarily bad in any sense other  
15 than being harmful to competition.

16           Now, there certainly has been a body of thought  
17 and especially shorthand that says you want it to be bad  
18 as well in some other way. That I think -- I try to  
19 interpret that in the following way. Let's suppose that  
20 in the course of trial, imagine it takes place in this  
21 order although it wouldn't have to, it's been shown that  
22 the defendant did some things that harmed consumers by  
23 excluding competition and were not, let's say, highly  
24 efficient. And I'm pulling together ideas of various  
25 sources here, I think.

1           And now we ask, well, was it bad conduct? Well,  
2 from an economist's point of view, it seems as if in the  
3 instance it has just been shown to be bad conduct. So,  
4 the question is what further requirement is being asked  
5 for here.

6           I think the further requirement that's being  
7 asked for here is the following: That this conduct -- if  
8 this conduct is condemned, it will have some sort of  
9 deterrent effect on conduct that sounds like this when  
10 described. And that deterrent effect will extend of  
11 course to other places where the competitive implications  
12 of the conduct might be a little bit different.

13           And so what you want in addition to finding this  
14 conduct was inefficiently anticompetitive and  
15 anti-consumer here, you want some degree of confidence  
16 that similar-sounding conduct is going to tend to be not  
17 such a good thing or a bad thing, in other circumstances  
18 where maybe it won't be inefficiently anti-consumer,  
19 anticompetitive.

20           Well, that puts a lot of weight on the  
21 psychological or even philosophical concept of conduct  
22 that sounds like this. There's a philosopher named I  
23 believe Grice, who really tested foundations of that kind  
24 of thing by inventing a word, grue, g-r-u-e, which means  
25 green up until this morning or blue after this morning.

1 And so all of your past observations that trees are green  
2 are also observations that trees are grue. What do you  
3 predict the tree color will be this afternoon.

4           Obviously that's playing with words in the way  
5 that philosophers love to do, but it does suffice to make  
6 the point that, if what you are looking for in a, quote,  
7 "bad conduct" problem is something along the lines of  
8 similar conduct that is going to be bad in other  
9 circumstances, you need a concept of what's similar. And  
10 that's not really an economic concept, as far as I can  
11 tell. It's some sort of intuitive or possibly legal  
12 concept.

13           MR. COHEN: Anyone else?



1 requiring it in the narrow instance.

2           You know, technically if there is a perfectly  
3 competitive equilibrium in an economy, it is then in the  
4 core. And so I don't think there is a substantive  
5 tension between the two. I think it's more a question of  
6 what process each one suggests to you.

7           It seems to me the core -- and let me stress,  
8 I'm not suggesting ever examining an outcome to see  
9 whether it is in the core. I'm suggesting the process  
10 that is suggested by that, which is, make it relatively  
11 easy, or don't allow it to be made artificially difficult  
12 to form blocking coalitions.

13           Whether there is a similar process that is  
14 suggested by thinking about perfect competition, I am not  
15 quite so sure. You know, economists have talked for a  
16 long time about the fact that perfect competition is  
17 describable as an outcome, and we don't have a very good  
18 story about how you get there. There's the infamous  
19 Walrasian auctioneer. That's obviously not a process that  
20 takes place in reality, let alone is protectable by  
21 antitrust.

22           It seems to me that thinking about the coalition  
23 formation model gives you a stronger suggestion about what  
24 process to protect than thinking about perfect  
25 competition.



1           MR. EDLIN: I'll hazard a guess, which is, if  
2 you thought about things a little more the way that Joe  
3 and I think about things, then you would find that the  
4 Department of Justice would probably have won the American  
5 Airlines case; that entry would be easier in many  
6 industries because monopoly or dominant firms would have  
7 more limited ability to thwart entry; more attempts by  
8 monopolies to prevent entry by tying goods together would  
9 be illegal, but not all; and those would be the kinds of  
10 things that you would see in terms of substantive outcome  
11 differences.

12           MR. SHELANSKI: I will just add that I think the  
13 process emphasis, while extremely important theoretically  
14 and at some level is absolutely correct economically does  
15 have some pragmatic difficulties.

16           I actually really worry about instructing juries  
17 on the process as opposed to outcomes. And you can  
18 combine the two to halve their inquiry, but I think the  
19 confusion between competition and competitor is one very  
20 easily sown in juries.

21           And connected to your question earlier about  
22 false positives, I think that as a firm, faced  
23 particularly with a private suit, knowing the instruction  
24 is going to the jury about process, you're worried about  
25 looking aggressive, worried about looking the bad guy, and

1 you get a lot of hidden false positives through  
2 settlement, particularly in the private cases.

3           So, I do think it's worth thinking a lot more  
4 about the pragmatic implications of the process  
5 instruction of going forward.

6           MR. COHEN: Finally, for Joe.

7           The theory that you've explained depends on the  
8 formation of these blocking coalitions. There are  
9 obviously impediments to this. You recognize them and  
10 they may not always be formed, but at least there's an  
11 incentive to do them.

12           Have you thought about how we should take into  
13 account the fact that not all of these coalitions will  
14 ever form in the first place, that there maybe information  
15 problems or the cost that prevents them from happening?  
16 How do we bridge from incentive to actual assumption that  
17 they're there and therefore that their losses are  
18 significant?

19           MR. FARRELL: I don't. I mean, I think, as I  
20 think I mentioned, the way you prove that a competitive --  
21 that everything in the core is Pareto efficient, is by  
22 pointing to the so-called grand coalition of everybody, if  
23 it was prey to inefficient, then in theory this grand  
24 coalition could block. That's obviously not going to  
25 happen.

1           So, I think any policy, including antitrust, is  
2 not going to be able to get us all the way to Pareto  
3 efficiency, whether it thinks of it in terms of central  
4 planning, price-taking equilibrium or the core.

5           Now, as related more directly on a practical  
6 point, which is, well, what happens if -- this is I think  
7 maybe what you were getting at with the bad act question.  
8 What happens if we have a not very good outcome in the  
9 status quo and the blocking coalition that, quote, ought  
10 unquote, to form doesn't form, not because of anything  
11 that the incumbent does, but just because it's really hard  
12 to form.

13           Well, I think at some level that could be a  
14 competition policy question. There might be changes that  
15 could be made in the way the market works to make it more  
16 likely that such coalitions would form.

17           If it were a competition policy question, it  
18 wouldn't necessarily be an antitrust question. I think  
19 they're potentially distinct areas. And it might be  
20 neither. It might just be, well, that's too bad, that's  
21 one of the imperfections of the world.

22           MR. MATELIS: At the beginning of these  
23 hearings, both the Assistant Attorney General and the  
24 Chairman of the FTC stressed the importance of safe  
25 harbors for guiding businesses that are seeking to comply

1 with the antitrust laws.

2           And, Joe, I have a question for you. The  
3 examples in your presentation were responses of a firm to  
4 new entry. Northeast's response to Sprite's entry and the  
5 A and B product potential responses at the new entry.

6           Are there responses to new entry that, you know,  
7 looking at things through the core, should be within a  
8 safe harbor and something that firms should always feel  
9 comfortable doing?

10           MR. FARRELL: Well, I'm sure there are, but just  
11 as I don't know exactly what the right rules for  
12 liabilities should be in a practical sense here, I also  
13 don't know what the right rules for safe harbor should be.

14           I mean, one can give the following answer, which  
15 is sort of in the spirit of something Tim Bresnahan has  
16 said, and you will be hearing from him this afternoon,  
17 that the safe harbor is to make your money by being nice  
18 to consumers, not to make your money by being the other  
19 stuff you can be. That's not quite the way Tim put it,  
20 but he had a somewhat similar line which maybe you can get  
21 out of him if you ask him.

22           MR. COHEN: Directing some questions to Howard  
23 Shelanski's presentation.

24           You focused very much on intellectual property,  
25 the effects of possible changes in that area, bleeding

1 over into how we might look at Section 2 issues.

2           If we're looking at Section 2 issues, we're not  
3 likely to have differential treatment of instances in  
4 which there are lateral refusals for intellectual  
5 properties versus others.

6           Would your rule somehow -- are you envisioning  
7 somehow distinguishing between the two, or just a one size  
8 fits all modification?

9           MR. SHELANSKI: One size fits all is what I'm  
10 looking at. I'm actually not so much proposing a  
11 particular rule, because I agree with you there should not  
12 be two rules. Obviously the precedent is a little choppy  
13 between the various circuit courts on the extent to which  
14 you get special Section 2 protections for intellectual  
15 property.

16           But my view is you should not have a separate  
17 rule. And I was really looking at the macro level. If  
18 you take the total pool of goods that firms refuse to deal  
19 with, some of them are going to impose barriers because  
20 they're legally protected, legally blocked by IP.

21           The smaller the pool of goods where there's an  
22 anticompetitive refusal to deal, the less enforcement  
23 minded you want to be against refusals to deal.

24           So, for me it's really an adjustment mechanism  
25 about how permissive or strict a unitary rule you apply.

1 I mean, if you were to look and see, boy, a lot of these  
2 refusals to deal cases have at their core intellectual  
3 property. Then I think intellectual property would not,  
4 say, have a different rule for those cases versus others,  
5 but it would say we can have a more permissive rule  
6 towards refusals if we had intellectual property  
7 enforcement.

8 MR. COHEN: One thing that you mentioned a  
9 number of times in your talk was issues about the degree  
10 to which imposing liability or not imposing liability for  
11 refusals to deal might affect innovation, might affect  
12 efforts invent around whatever problem there is.

13 It's a little unfair, I know you gave a  
14 theoretical presentation, but of course we're very  
15 interested in anything empirical.

16 Do you have any -- can you give any summary or  
17 are there any indications of what there is out there in  
18 the way of empirical evidence on this?

19 MR. SHELANSKI: If I can cheat a little bit, I  
20 think I can. So, I did raise that issue of demand side  
in was issthe w:(16)Tj2estI feeland sid

1 innovation per se. So, I want to be very careful. But I  
2 wanted to build into the demand side there's innovation on  
3 both sides of the enforcement question.

4           So, here's a possible place to look for some  
5 empirical support, and this is contentious. I would go to

1 literature out there with competing arguments about  
2 whether the essential facilities treatment or the duty to  
3 deal imposed by the Telecommunications Act of 1996 on  
4 incumbent networks deterred and chased out new competitive  
5 essence.

6 MR. FARRELL: I think part of the reason why  
7 people have focused on incentives of the original  
8 invention or the original investment is that, of course,  
9 that innovation or investment directly leads to social  
10 benefits.

11 Duplicative investment is -- I want to avoid  
12 taking too narrow a view here, but nevertheless, at some  
13 level duplicative investment is wasteful. And while  
14 having some of it may well be part of the process and  
15 negotiating for voluntary access in the shadow of the  
16 threat when you look at the investment is probably a  
17 bigger part of the process, I think it's actually wrong to  
18 treat reducing the incentive for duplicative investment as  
19 a policy downside in itself.

20 Now, it might actually be a kind of shorthand or  
21 a proxy for some other harms that you think come out of  
22 more mandated sharing than other policies would give you.  
23 But I think one wants to be wary of that shorthand.

24 MR. SHELANSKI: I'll disagree slightly. I think  
25 you're right that that's something to be taken into



1 account.

2 I think the market conditions under which that  
3 duplicative entry would be welfare decreasing are fairly  
4 specialized. I don't know how common they are. I think  
5 it needs to be taken into account. But while it's a  
6 consideration, I am not sure that it's a big enough  
7 problem that I would discount -- I certainly wouldn't  
8 discount the value of at least some competitive investment  
9 or duplicative investment, especially where it's not  
10 economically blocked. There's not some kind of natural  
11 monopoly or scale kind of argument that would make that  
12 investment a not be beneficial end, but where there's  
13 simply a legal barrier to producing something that could  
14 be produced fairly cheaply. Software would be an example.

15 MR. COHEN: Just one more. I'm going to return  
16 to something that Joe just mentioned a couple answers ago.

17 You drew the distinction in a sense between a  
18 competition issue and an antitrust issue. Another way of  
19 phrasing some of the same points we've already been going  
20 over.

21 To the panel just generally: Do you see a  
22 difference in your analysis between a competition issue in  
23 the sense of maximizing efficiency, and an antitrust issue  
24 in the sense of what should be a legal violation?

25 MR. FARRELL: I'm certainly very open to that, I

1 think. First of all, I would not phrase a competition  
2 issue quite as maximizing efficiency, for all the reasons  
3 we spent all morning talking about.

4 But I think it's perfectly possible for a  
5 competition agency, let's say, to discover that  
6 such-and-such a market would work a lot more competitively  
7 with these ground rules than with those ground rules. And  
8 to try to use its influence, perhaps even its legal  
9 authority, to have the better rules rather than the less  
10 good rules apply.

11 And that doesn't necessarily involve anybody  
12 having, quote, done anything wrong. And so I think  
13 there's potentially a difference between competition would  
14 work better in such-and-such a way than with the status  
15 quo, and saying so-and-so has committed an antitrust  
16 offense.

17 So, yes, I think there's probably a big area  
18 there, actually.

19 MR. COHEN: Okay. Do any of the panelist have  
20 any final points they want to make?

21 MR. EDLIN: I'm in favor of lunch.

22 MR. COHEN: Okay, we vote for lunch here.

23 I again want to thank all of our panelists for  
24 their thoughtful and insightful remarks. I ask the  
25 audience to please join me in a round of applause for our

1 speakers.

2 (Applause.)

3 MR. COHEN: And our afternoon session will begin  
4 promptly at 1:30.

5 (Whereupon, at 11:59 a.m., a lunch recess was  
6 taken.)

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1 AFTERNOON SESSION

2 (1:30 P.M.)

3 MS. GRIMM: Good afternoon. I would like to  
4 welcome everyone to our afternoon session. And I'm glad  
5 that you all could be with us today.

6 I am Karen Grimm. I am Assistant General  
7 Counsel for Policy Studies at the Federal Trade  
8 Commission. I am going to be moderating the session this  
9 afternoon, along with June Lee, who is an economist at the  
10 Antitrust Division of the U.S. Department of Justice.

11 Before we start, I would like to just go through  
12 two housekeeping details. First of all, as a courtesy to  
13 our speakers, please turn off all your cell phones,  
14 Blackberries, and other devices

15 And, secondly, because these are hearings, we  
16 request that the audience not make any comments or ask any  
17 questions during the presentation.

18 This afternoon we are honored to have another  
19 group of distinguished economists from the University of  
20 California at Berkeley and Stanford University to offer  
21 their testimony in these series of Section 2 hearings.

22 Our afternoon panelists, like those this  
23 morning, will provide their perspectives on various issues  
24 related to the complex area of Section 2 jurisprudence and  
25 enforcement.

1           Our panelists this afternoon are Timothy  
2 Bresnahan, who is the Landau Professor of Technology and  
3 the Economy in the economics department at Stanford  
4 University; Richard Gilbert, who is a professor of  
5 economics at the University of California Berkeley and the  
6 chair of the Berkeley Competition Policy Center; Daniel  
7 Rubinfeld, who is the Robert L. Bridges Professor of Law  
8 and Professor of Economics at the University of California  
9 Berkeley; and Carl Shapiro, who is the TransAmerica  
10 Professor of Business Strategy and Professor of Economics  
11 and the Director of the Institute of Business and Economic  
12 Research at the University of California Berkeley.

13           Our first three panelists will make  
14 presentations, and Professor Shapiro will be participating  
15 in the discussion with his fellow panelists.

16           Our format this afternoon is as follows: Each  
17 speaker will make a 20 to 30 minute presentation. After  
18 all the presentations have been completed, we will take  
19 about a 15 minute break. And after that break we will  
20 reconvene for a round-table discussion. We are scheduled  
21 to conclude this session about 4:30.

22           I would like to thank all of you for being with  
23 us here today. I want to thank all of our panelists for  
24 coming and for their participation. We very much  
25 appreciate the time and effort all of them have put into

1 preparing their presentations and their willingness to  
2 share their insights with us.

3 I would now like to turn the podium over to my  
4 DOJ colleague and co-moderator, June Lee, for any remarks  
5 she would like to make

6 Ms. Lee: The Antitrust Division of the  
7 Department of Justice is pleased to co-sponsor today's  
8 single-firm conduct hearing. As noted by Joe Matelis this  
9 morning, five of today's panelists were Deputy Assistant  
10 Attorneys General in the Antitrust Division. Four of the  
11 five are in the panel. I thank them for participating  
12 and, like Karen, for sharing their insights. I look  
13 forward to their presentations in what I'm sure will be a  
14 lively discussion.

15 I join Joe in thanking the Competition Policy  
16 Center and the Berkeley Center For Law And Technology at  
17 the University of California Berkeley for hosting these  
18 hearings. And I thank Karen and her colleagues at the FTC  
19 for their work in organizing today's hearing and  
20 assembling the august panel we have today.

21 Karen.

22 MS. GRIMM: Our first speaker this afternoon is  
23 Timothy Bresnahan, who is Landau Professor of Technology  
24 and the Economy at Stanford University and Chair of the  
25 department of economics.

1                   He is Director of the Center for Research in  
2 Employment and Economic Growth in the Stanford Institute  
3 for Economic Policy Research. He also has served as Chief  
4 Economist of the Antitrust Division of the U.S. Department  
5 of Justice.

1 cases. And my real agenda is to normalize them, to  
2 regularize them within antitrust analysis.

3           We have a tendency in talking about Section 2  
4 matters to immediately leap to the most difficult part,  
5 which is the part that's about alternative efficiency  
6 theories of whatever business practice it is that's  
7 challenged in the Section 2 matter.

8           I think that that makes Section 2 matters more  
9 difficult than they need to be, and I'm going to propose a  
10 different approach, not inconsistent with what we've  
11 done in the past, and which we'll see in a minute, not  
12 inconsistent with recent court decisions.

13           I'm going to suggest a different approach where  
14 we look at competitive effects first. It's not very  
15 surprising that I want to look at competitive effects  
16 first since I'm an economist.

17           And then I think I'm going to argue it's going  
18 to make thinking about whether a Section 2 case is  
19 procompetitive much easier than starting from that very  
20 difficult question of whether the challenged practices are  
21 an act of competing rather than anticompetitive act. So,  
22 I'm going to start with competitive effects.

23           There's been a good bit of action in the courts





1 enforcement. We should be thinking about competitive  
2 effects when we're thinking about market power, particularly  
3 I would encourage the agencies, when picking cases in the  
4 merger area or in the Section 2 area, to pick cases where  
5 there's potentially a substantial change in the conditions  
6 of competition in the market and significant impact on the  
7 economy. That's not the same as market power. That's a  
8 change in market power.

9           The other place where economics matters is in  
10 thinking about the causal flow from the acts which are  
11 alleged to be anticompetitive in a Section 2 case to the  
12 changes in market power. And I'm going to argue, this is  
13 my theme for the afternoon, you can gain a lot of clarity  
14 about a Section 2 case by bringing the competitive effects  
15 and causation arguments to the forefront. And I think that's  
16 consistent with the three bundling cases I cited, bundling  
17 or tying cases, I cited on the previous page.

18           Section 2 cases are never going to be easy.  
19 Let's be real. There's a reason for that. This is I  
20 think the hardest part. Almost all conduct which would be  
21 exclusionary in some context would be an ordinary and  
22 competitive business practice in some other industry. So,  
23 it's necessarily context specific. That makes it  
24 difficult I think for attorneys to get their heads around  
25 Section 2 matters all the time because it seems like

1 there's a fairly unstructured rule of reason analysis in a  
2 Section 2 case.

3 I'm going to argue again that monopolization can  
4 lead you to a fairly structured economic competitive  
5 effects decision. Let me do that right away. I'll do it  
6 in Dentsply first.

7 This is a Department of Justice case. I know a  
8 part of the history of it. I believe it was brought when  
9 Dan Rubinfeld was Chief Economist. It was litigated when  
10 I was Chief Economist. And I just learned from Professor  
11 Shapiro that it was under investigation on his watch.

12 MR. GILBERT: It was under investigation at the  
13 FTC before I was at DOJ.

14 MR. BRESNAHAN: Exactly. We are lucky that  
15 prefabricated artificial teeth is not a market which  
16 changed quite so quickly as computer software. But I note  
17 that the other case I am going to talk about, Microsoft,  
18 has a similarly long, long series of investigations before  
19 there was a serious enforcement action.

20 So, what's the story of Dentsply? Why did the  
21 Department of Justice bring a Section 2 action?

22 So, part of it, there is a market definition,  
23 there is monopoly power, and there is, in the current  
24 market, a monopoly in prefabricated artificial teeth.  
25 There are some small sellers, but there is one great big



1 exclusive contracts with dealers. They were dealers who  
2 supply dental laboratories with all kinds of things, but  
3 in particular with prefabricated artificial teeth. And  
4 those contracts block the laboratory from sourcing another  
5 firm's teeth, preventing the American consumer from  
6 having an effective prefabricated tooth choice.

7           You know, there's a market in everything. Some  
8 of it might be competitive. As you get older, you get  
9 more serious about the importance of health care markets  
10 for having a competitive organization. And, Lord knows,  
11 there is not enough competition in most health care markets.

12           So, I want to bring to the forefront, the  
13 horizontal competitive effects. Impact, if there's a  
14 Section 2 case, the impact of the bad acts, the contracts  
15 in this case, is to reduce competition in the market for  
16 prefab artificial teeth. So, it's possible that there are  
17 two competitive regimes, one with monopoly and the other  
18 with competition.

19           And I want to push to the second, the vertical  
20 restraints logic, that the economic effects of these  
21 contracts, these exclusive contacts, is to change that  
22 competitive regime.

1 -- not about the efficiency theory of the supposed bad  
2 act, but rather just thinking about the anticompetitive  
3 theory. The inquiry would ask: is it possible that there  
4 could be less competition and also there could be more  
5 competition in this industry? Is it possible that if the  
6 dealer contracts weren't exclusive that then there  
7 could be competition? Without a "yes" to both, further  
8 inquiry is not going to lead a Section 2 case. The second  
9 question, the exclusivity of the dealer contracts having  
10 sufficient impact to change the competitive regime, that is  
11 not a small inquiry. There is a lot of assumptions under  
12 there.

13           There are at least two base assumptions. The  
14 monopolist, Dentsply, is in a position to compel the  
15 dealers to accept these exclusive contracts. That's not  
16 going to be true in all industries. There can't, for example,  
17 be the possibility of some other parallel distribution segment  
18 which can grow up and distribute the competitive prefab  
teeth. F distribute the on to compel th0006, tril

1 accidental pun. I think if we could go down the path of the  
2 Dentsply puns, they would be very unhappy for us.

3           But I mean to emphasize that there are two  
4 dualities just in the competitive effects part of a  
5 Section 2 case, which means, before you get to the hard thing  
6 about efficiencies, you could throw a lot of cases out. It  
7 has to be possible that there's two competitive regimes,  
8 monopoly and more competitive, and it has to be possible  
9 that the bad act works to move the market between them,  
10 and that itself has two steps. The little guys, the  
11 potential competitive providers of these competitive teeth,  
12 have to need the distributors. The distributors need to be a  
13 powerful hard-to-replace force. And the existing monopolist,  
14 Dentsply, has to be able to kick around the distributors.

15           So, you've got two dualities, it's monopoly, but  
16 it might be more competitive. And the distributors are  
17 important, but the monopolist is in a position to either  
18 bribe them or compel them to prevent the outbreak of  
19 competition, competition which would be plausibly in their  
20 interests.

21           Those two dual tests I think will weed out a lot  
22 of cases before you begin this open-ended discussion of  
23 whether these particular contracts are efficient. So,  
24 here is how I graph it. You've got -- your centerpiece  
25 should be the anticompetitive effects. So, in

1 monopolization case, the effects are anticompetitive.  
2 There is an exclusionary act, in this case the contracts,  
3 which is keeping us in a higher market power monopoly, in  
4 this case industry regime rather than a lesser market  
5 power.

6           And, as I said, that's a lot for the plaintiff  
7 to show. In the case of the agencies, that's a lot for  
8 them to show. And I want to urge a review of whether we  
9 can show these things early in a case. When I said to  
10 kind of regularize Section 2 review, you know, it's just  
11 like merger review, is there a competitive effect this merger  
12 is going to do? Is there a competitive effect these are bad  
13 practices are going to have, too? Is it really true that  
14 there is more market power in the current regime but there  
15 could be less market power? And that is the centerpiece,  
16 that there is this causation, there's these  
17 exclusive contracts, which exist because the existing  
18 monopolist wants to maintain a monopoly, or what's keeping  
19 us in the less competitive regime rather than the more  
20 competitive regime.

21           And I think if you do both that causation  
22 carefully and that competitive effects carefully that  
23 would make Section 2 cases look a lot more like ordinary  
24 antitrust analysis.

25           So, I said a number of times that that's a lot



1 to show. It has to be possible that the competitive  
2 regime could change; it has to be possible that the bad  
3 acts are what's preventing the competitive regime from  
4 changing; there has to not be another explanation of why  
5 the competitive regime is not changing.

6           We spend so much time in Section 2. Here's my  
7 one slide. I think I only have one slide and it's sort of  
8 ordinary analysis. We spend so much time thinking about  
9 whether there's an efficiency theory of the  
10 anticompetitive acts. And that is important. But, you  
11 know, I guess I would say, solve the problem with whether  
12 there's a harm to competition first and then worry about  
13 if there's an efficiency theory.

14           A lot of this efficiency discussion -- and here  
15 I'm echoing Professor Farrell's earlier remarks in these  
16 hearings -- we're driving in the direction of that world  
17 of pure economic theory where we can figure out in a  
18 quantitatively precise and reliable way whether  
19 the consumer of the industry is better off with the  
20 existing industry structure, including its contracts,

14 versus so.0008 cure, including i.g9nhrcie be08 cur08 miracti2 0 uof the i

1 another world. In the real world, the ability of  
2 empirical economics, even with the very high level of  
3 inquisitory abilities of the enforcement agencies to figure  
4 out what would happen in that but-for world in enough detail  
5 to calculate social welfare seems to me to be a waste of  
6 time.

7           So, I would say, plaintiff has to show that  
8 there is an anticompetitive effect and that it's causal.  
9 And defendant gets to rebut that. Defendant has to show  
10 that their practices are efficient. Plaintiff gets to  
11 rebut that.

12           If the world is not tired of hearing from me  
13 about the Microsoft case, let me talk about that one too.  
14 I mostly want to emphasize its parallels to Dentsply.

15           Again, my competitive effects story is in the  
16 graph here, I think I'm very close to the D.C. Circuit's  
17 logic here. The competitive story is slightly different  
18 because the industries are slightly different. And this is  
19 one of the inevitable costs of Section 2. Section 2 cases  
20 are rare. They arise in those industries where there is the  
21 possibility of a big change in competitive circumstances.  
22 That's not most industries and that's probably  
23 idiosyncratic industries. Certainly these two, the teeth  
24 and the software, are both idiosyncratic.

25           So, what's the state of the market? There is a

1 Windows monopoly in operating systems on PCs. That was  
2 true when the case was brought. I got the year wrong. It  
3 was tendered to the Department of Justice in 1997 or so.  
4 There could have been dynamic competition for the operating  
5 system market if the mass use of the Internet led to new  
6 standards in new markets.

7           So, here -- well, in the case of Dentsply, there  
8 was a monopoly and could have been competition in the  
9 market for prefab artificial teeth. In the case of  
10 operating system software, there is a monopoly and the  
11 industry in the past had had dynamic competition where  
12 entrants in many important software products had replaced  
13 incumbents. And in other important software markets, they  
14 had given incumbents a terrible scare and created  
15 incentives to get some real innovation out of them. In  
16 these software markets, there is persistent static  
17 monopoly, but there could be the prospect of  
18 Schumpeterian competition. So, that's the two competitive  
19 regimes that you get the competitive effects on.

20           The other part of Microsoft is really quite  
21 similar to Dentsply. What kept the world in the monopoly  
22 regime rather than in the potentially more competitive  
23 regime, a regime where say a Linux might have taken a run  
24 at the position of Microsoft Windows on the desktop?

25           It was a distribution case just like Dentsply,



1 vertical disintegration causing horizontal competition for  
2 the market, and that the Microsoft guys in their internal  
3 documents were so clear about that that such a complex  
4 case could be argued.

5           So, there's Andy Grove. Everybody has seen  
6 Andy's slide a hundred times. The way you get competition  
7 is you get a vertical disintegration. Andy was, when he  
8 wrote this, the CEO of Intel. Mr. Gates of Microsoft has  
9 said this many times as well.

10           This was the essence of the antitrust case,

1 efficiencies.

2           This part is pretty much the same as  
3 Dentsply in many ways. Microsoft is more complicated  
4 because it's vertical in two senses: vertical  
5 restrictions to prevent vertical disintegration, and  
6 vertical disintegration in turn preventing horizontal  
7 competition.

8           But what was really important in the competitive  
9 effects in the case was that chain of causation did lead  
10 to blocking of a threat which could have led to the kind  
11 of dynamic and very valuable competition we had seen over  
12 the previous twenty years in this industry.

13           Microsoft -- this other pragmatic, question about  
14 when to bring a Section 2 case, it's helpful to have a  
15 defendant that tries to prove entirely implausible things  
16 like, there's no market power in Windows. It was a bad moment  
17 for their economics expert witness, I think.

18           The other very unwise thing  
19 that Microsoft chose to prove was that their reaction to  
20 the widespread mass market use of the Internet wasn't  
21 strategic, even though there were hundreds and hundreds  
22 and hundreds of internal documents saying that it was  
23 strategic. The CEO, whose memo I just quoted saying, this  
24 is a terrible threat to us, chose to testify that he had  
25 no idea what the threatening firm was doing at the time.

1           So, defendant's trying to prove that it wasn't  
2 strategic, trying to prove that there was market power,  
3 made it somewhat easier for the government to prevail.  
4 These are complicated cases. The agencies are not always  
5 going to prove both dualities, that there could be a change  
6 in market conditions and that the distribution system is  
7 essential causally to keeping an out.

8           So, here's another one with a slide. The ultimate  
9 remedy chosen in Microsoft was to require divestiture of  
10 all applications, including the browser and Microsoft office.  
11 This was not on Richard's, Carl's or Dan's watch.  
12 This one is on my watch. And I have to say, I had to put  
13 up this slide. There slide -- actually there is a long  
14 history of this particular slide. When Dennis Yao, who  
15 was my roommate in high school, was a Commissioner in the  
16 FTC in 1989 or 1990, called me and said, you know, we  
17 figured out we don't want to go after IBM and Microsoft  
18 together, should we go after Microsoft. And the metaphor  
19 immediately leapt to my mind, you're going to be like a  
20 dog that's chasing a fire truck, you know, they're rolling  
21 down a little street, noisy, illegal as hell,  
22 anticompetitive as hell, but what are you going to do with  
23 it when you catch it?

24           As it worked out, they didn't catch Microsoft.  
25 I did. And the dog in this picture turned out in actual

1 history to be me. What did we get? Not any remedy which  
2 changed the conditions of competition. Ultimately, there  
3 was an entirely ineffectual settlement in the United States  
4 and a mildly effectual settlement in the EU. Certainly not  
5 enough remotely to have the kind of competitive conditions  
6 change that was possible from the widespread use of the  
7 Internet.

8           So, there's another problem with the agencies,  
9 bringing large, complicated antitrust cases. The  
10 counter example here would be, of course, U.S. v.  
11 AT&T. The United States was incredibly well served by  
12 that case. During the long interval between the AT&T  
13 breakup and the soon-to-happen reestablishment of the  
Bell Sys



1 for a competitive effect, meaning there could be change in  
2 the conditions of competition. The form of that change was  
3 different with the two cases I talked about. Second, think  
4 about a causal link between the alleged act and monopoly. I  
5 would bring those to the fore. Those would be my framework  
6 for thinking about a Section 2 case.

7           But of course that discussion is only about the  
8 question of whether there is an antitrust case. This doesn't  
9 remove from the agencies or any other plaintiff, but particularly  
10 not for the agencies, the problem of thinking about whether  
11 there's enough of a harm to competition at stake to justify  
12 any intervention. I guess I would say that in an cases like  
13 AT&T or Microsoft, where you've got a substantial impediment  
14 to technical progress in an infrastructure industry, that matters  
15 to the whole economy, arising from the lack of competition.  
16 That one might get you over the hump. But there are other  
17 metrics that can be used, such as the size of the difference  
18 between the two competitive regimes and the importance to  
19 consumers.

20           And also to think through whether there might be  
21 an efficiency defense, whether there might be more harm  
22 than good done by the antitrust intervention. I don't  
23 want to take that away, but I do want to say that I would  
24 emphasize -- I would emphasize thinking through whether  
25 there is an antitrust case in a perfectly ordinary

1 antitrust analytical way, competitive effects and  
2 causation.

3 Thank you very much.

4 MS. GRIMM: Thank you very much.

5 Our next speaker is Professor Rich Gilbert, who  
6 is Professor of Economics of the University of California  
7 at Berkeley.

8 From 1993 to 1995, he was Deputy Assistant  
9 Attorney General in the Antitrust Division of the U.S.  
10 Department of Justice, where he led the efforts that  
11 developed joint Department of Justice and Federal Trade  
12 Commission "Antitrust Guidelines for the Licensing of  
13 Intellectual Property."

14 Professor Gilbert has served as an Associate  
15 Editor of the "The Journal of Industrial Economics," "The  
16 Journal of Economic Theory," and "The Review of Industrial  
17 Organization."

18 Professor Gilbert research specialties include  
19 antitrust economics, intellectual property, and research  
20 and development.

21 He earned his Ph.D. from Stanford University in  
22 1976. He received a Bachelor of Science degree in  
23 Electrical Engineering in 1966 and a Master of Science  
24 degree in 1967 both, from Cornell university.

25 Professor Gilbert.

1 MR. GILBERT: Thank you very much, Karen.

2 While I figure out how to find my talk here, I  
3 will thank you for bringing these hearings to Berkeley.  
4 We're very glad we could be able to host these hearings.  
5 And here we go.

6 I'm going to talk about a very narrow slice of  
7 conduct that could invoke Section 2 liability, namely  
8 innovation or product design, and ask the question of  
9 whether innovation, certain types of innovations can be a  
10 source of Section 2 or contribute to Section 2 liability.

11 Now, I don't think many people would argue that  
12 innovation is great for the economy. Nevertheless, there  
13 are quite a number of cases that have alleged that  
14 innovation or product design has contributed to  
15 monopolization. Of course, Microsoft, as we just heard,  
16 is one. A slew of cases involving IBM and standardization  
17 for complimentary products, the use of complimentary  
18 products. There are some interesting cases on the horizon  
19 in the prescription drug industry that raise innovation  
20 issues in a Section 2 sort of context.

21 So, I'm going to be reviewing some of these  
22 cases and asking whether we could have a standard, we've  
23 heard a lot about standards this morning to evaluate  
24 Section 2 type conduct, whether any of these standards is  
25 useful for evaluating innovation. Maybe I will give you



1           Now, in terms of whether the innovation is  
2 privately profitable, there's a price that the innovator  
3 can collect for the new technology and it's profitable if  
4 the price it can collect times the number of people who  
5 buy it, assuming they all buy it, in fact covers the cost.

6           So, the first that I want to make, and there is  
7 a paper that should be coming out in "Competition Policy  
8 International" on this topic, the first point is to say,  
9 innovations can be socially desirable but not privately  
10 profitable, or you can have innovations that are privately  
11 profitable but not socially desirable.

12           So, the first point is a very simple point:  
13 That innovation can go any way -- there can be any order  
14 in evaluating social and private profitableness. It's not  
15 like a price -- innovation is like a price change in some  
16 respects. If you come out with an innovation for a  
17 product, it's like reducing its quality-adjusted price,  
18 and you can make an analogy between innovation and, say,  
19 predatory pricing. If you reduce the quality-adjusted  
20 price, that leads to the exit of competitor, and then you  
21 raise your price again, that has a sort of predatory  
22 flavor to it.

23           But unlike pricing, where lower price certainly  
24 lowers the price above marginal cost is a good thing, we  
25 really don't know if more or less innovation is a good

1 thing unless you do the whole analysis.

2           So, the standards I want to talk about, these  
3 came up this morning, I want to talk about different rules  
4 of reason which I interpret as either a total rule of  
5 reason, which looks at all of the economic value  
6 associated with some conduct, whether it's value to  
7 consumers or value to producers.

8           And then there's probably the more popular  
9 consumer rule of reason analysis which focuses on  
10 consumers, and some people would say is at the heart of  
11 antitrust analysis, at least according to, say, Steve  
12 Sala, although others such as Joe Farrell and Mike Katz,  
13 and Ken Hirers from the antitrust division, have advocated  
14 a total rule of reason standard.

15           Then there's the profit sacrifice test in one of  
16 its many forms. There's the no economic sense test.  
17 We've heard a little bit about that this morning. And  
18 then I'll talk a little bit about sham innovation.

19           So, a total rule of reason analysis, in a sense  
20 it's the right thing to do if you are, sort of by  
21 definition, an economist, it's the right thing to do  
22 because it asks whether total surplus is increased from  
23 some activity. And even if that makes producers  
24 relatively better off than consumers, at least there's the  
25 possibility that those producer profits will flow

1 eventually to consumer benefit, or that somehow producers  
2 can bribe consumers to get it all right.

3           But the problem of course is that you can have  
4 the price being either larger or smaller than the  
5 incremental social benefit. And all of the analysis would  
6 have to be done when the innovation decisions from the  
7 perspective of the decisions that are actually made, which  
8 means what we call an ex ante analysis. And this really I  
9 think sets up innovation as being distinctly different  
10 from other conduct. Because when you talk about  
11 innovation, it's absolutely necessary to keep going  
12 backwards and backwards to what are the incentive effects  
13 of whatever rules or policies you have in place, what are  
14 their incentive effects for innovation in the first place.

15           And now it's easy to say, well, of course that's  
16 right, of course we're going to take that into account.  
17 But I want to ask you, if you have been in these hearings,  
18 how many times have people really gone backwards and said,  
19 what are the implications of what we're doing for the  
20 kinds of decisions that people are make that could have  
21 developed and could develop new products or new processes  
22 or whatever ten years from now. And I would say you  
23 haven't heard it very many times.

24           So, it very easy to lose sight of these  
25 incentive effects. And on top of that, if you did a total

1 rule of reason analysis, the analysis that you would have  
2 to do is hugely complex. You have to really take into  
3 account all spillovers, how innovation affects consumers  
4 and firms in other industries, and those we know can be  
5 very, very large. And with the complexity, you can lead  
6 easily to false positive and false negatives. I'm not  
7 going to say Type 1 and Type 2 because I always forget  
8 which one is which, so I will just say false positives and  
9 false negatives, and you can figure out which one is a  
10 positive and which one is a negative on your own.

11           Too much enforcement or too little enforcement.  
12 Portion. It can go either way.

13           A consumer rule of reason analysis. Again, it's  
14 very complex. The problems are similar to those that  
15 arise in a total rule of reason analysis. Again, the  
16 ex ante problems, the uncertainties, the spillover  
17 effects, etc. And as well can lead to conclusions that  
18 just simply don't make sense. This is particularly a  
19 problem in innovation. You could have an innovation that  
20 just saves millions of dollars in production cost, but  
21 maybe it leads to a nickel increase in price, which  
22 certainly could happen. And would you want to say that  
23 this is an anticompetitive innovation because consumers  
24 are slightly worse off, despite the fact that it's  
25 generated enormous savings and efficiencies on the



1 producer's side.

2           Well, I know that people can differ on that, but  
3 my view is that it just doesn't make any sense to discount  
4 all of those efficiencies. Now, you can say that you're  
5 looking at a merger case or you're looking at other  
6 conduct that doesn't involve product design, that those  
7 kinds of efficiencies are not likely to be huge or have  
not been demonstrated to be huge, but when ,ldn or have

1 originally to talk about innovation as well as price --  
2 predatory pricing. The problem of course first of all is  
3 that innovation almost always involves a profit sacrifice.  
4 It's called investing in research and development. That's  
5 what you do.

6           It's also the case that innovation, if it really  
7 works, probably excludes competitors. So, exclusion is  
8 sometimes a direct result of producing a really good  
9 mousetrap. The other mousetraps can't compete.

10           Now -- and furthermore, and this is absolutely  
3works, probablttct

1 eliminate or lessen competition."

2           Now, you can see that, with all the negatives  
3 again, the no economic sense test is really a test of the  
4 absence of predation. So, if it makes sense to do this  
5 activity, then it's not predatory.

6           Now, although it's not really clear in the no  
7 economic sense test what no economic sense means, there  
8 are two interpretations of this, certainly as applied to  
9 innovation. One is that it's not profitable. No  
10 reasonable firm would have dumped all of this money into a  
11 new product design unless it had a purpose of excluding  
12 competition. A second interpretation is that innovation  
13 really always makes economic sense because it's just a  
14 good thing that firms do.

15           Depending upon which one of these  
16 interpretations you have, if it's the first one, then the  
17 no economic sense test is very similar to the profit  
18 sacrifice test. Now, if it's the second one, the no  
19 economic sense test is similar to really whether  
20 innovation is a sham, meaning whether it's a fraud or not.  
21 I think it's the case, and I know that Werden has said  
22 that his view of the no economic sense test as applied to  
23 innovation is the second version, not the first version.  
24 And I also know that he has views of conduct that do not  
25 in fact involve a profit sacrifice, even though there was

some discussion this morning that they're the same. His

1           To my knowledge, only the Microsoft case,  
2 Microsoft 4 as it is sometimes affectionately called,  
3 purported to apply a rule of reason analysis to  
4 innovation. So, let's talk about Microsoft a little bit.

5           The Microsoft case actually came up with a road  
6 map to kind of evaluate innovation. There actually five  
7 steps to the road map. I'm going to condense them to  
8 three.

9           The plaintiff first must demonstrate that the  
10 conduct that harmed consumers had an economic  
11 anticompetitive effect. Second, if a plaintiff  
12 successfully demonstrates anticompetitive effect, then the  
13 monopolist may prefer a procompetitive justification for  
14 its conduct. So, the second step is the monopolist,  
15 alleged monopolist can talk facts and say, we have a  
16 reason for doing this. And then the third step says,  
17 well, the plaintiff can now come back and rebut the  
18 monopolist's justification. Or, if it can't actually  
19 justifiably rebut it, it can demonstrate that the  
20 anticompetitive effect was bigger than the procompetitive  
21 benefit and outweighs it. So, it can do a rule of reason  
22 analysis is what it says.

23           Well, let me just review what happened in the  
24 Microsoft case. There were many allegations having to do  
25 with Java standards and with various contracting policies

1 with lots of different players in the industry.

1 the no economic sense test of the first variety. That is,  
2 was there some reason for this conduct. If there was,  
3 it's okay.

4           Now I want to turn to another area that I find  
5 quite interesting. As they say, this is emerging  
6 antitrust. This is that drug patents may delay generic  
7 competition. So, the innovation that contributes to these  
8 drug patents can have competitive effect. It can have  
9 competitive effect both through the nature of generic  
10 substitution and also because of the specific elements of  
11 the Hatch-Waxman Act, which impose a 30-month stay on  
12 generic competition if you have a patent.

13           So, one of these cases is called Tricor, which  
14 is actually a drug called phenofibrate. It's used to  
15 control triglyceride and cholesterol levels. And I should  
16 acknowledge I have been a consultant in this case. A  
17 second case is Prilosec and Nexium, which Prilosec is a  
18 common drug prescribed for heartburn, gastric reflux, and  
19 then your more serious conditions like esophageal and  
20 duodenal ulcers. It turns out that Nexium is what is  
21 called an isomer of the chemical that's in Prilosec. It's  
22 basically the same molecules. It's been rearranged a  
23 little bit. And it's supposed to have some advantages for  
24 the esophageal and duodenal ulcers, but not for heartburn.

25           The allegations that came up in both of these

1 cases is that the innovations are costly but minor  
2 improvements, that they're contrary to the intent of the  
3 Hatch-Waxman legislation to promote generic competition,  
4 and they have large adverse competitive effects by  
5 delaying generic competition.

6           Now, I think certainly if you just take a  
7 snapshot of competition, once these drugs exist, anything  
8 that delays generic competition has at least the  
9 possibility of a competitive effect. But it's important  
10 to recognize that the Hatch-Waxman legislation was a trade  
11 off between more generic competition and more protection  
12 for patented drugs. In fact, the first three letters of  
13 the Hatch-Waxman Act are patent term restorations. I  
14 think it was designed to protect pioneer drugs, as well as  
15 promote generic competition.

16           Product line extensions certainly increase  
17 incentives for drug innovation. If you actually look at  
18 the respective patent terms for prescription drugs,  
19 patented prescription drugs, it's actually quite short.  
20 It's one of the shortest of all industries because of all  
21 the FDA delays and regulations required to actually  
22 produce the drugs. And it's very hard to assess these  
23 benefits from these innovations.

24           So, I think instead of looking at any of these  
25 standards to inform a Section 2 analysis for innovation, I



1 find all of them seriously lacking. I think instead you  
2 can turn to consistency with other rules.

3           And let's talk about something we've heard  
4 before, talk about the process rather than the outcome.  
5 That was discussion was featured in this morning's session  
6 to great extent by members of the panel talking about the  
7 process rather than the outcome.

8           So, the quote that I'm quoting here is by a  
9 distinguished economist, but not anyone from our group.  
10 It's from an economist who works for the Oakland Athletics  
11 who was quoted by Michael Lewis in "Moneyball," and he was  
12 actually talking about how to hire baseball players, but I  
13 think his insight here is equally applicable to antitrust  
14 policy, "We have to look at process, not outcomes."

15           So, if we think about making an analogy between  
16 innovation effects, and the effects and rules that are  
17 applied to other conduct, I want to argue that, in many  
18 innovation cases, the effects of the innovation are very  
19 similar to the effects of a unilateral refusal to deal.  
20 When you're talking about, say, if IBM refuses to make  
21 mainframes compatible able with third parties' components,  
22 it's a lot like saying, well, one day Microsoft gets up  
23 and says, I don't want to work with these third party  
24 people anymore, I want to build computers just for myself.  
25 Microsoft refuses to make Windows compatible with other

1 browsers. Or a generic drug manufacturer refuses to  
2 supply a drug that generics can copy.

3           In effect, this conduct looks a lot like a  
4 unilateral refusal to deal. Now, these days, after  
5 "Verizon v. Trinko", seems like unilateral refusals to  
6 deal have a long way to go before they can generate  
7 antitrust liability.

8           Now, I don't want to state that as a categorical  
9 fact, or that "Verizon v. Trinko," that all the words in  
10 "Verizon v. Trinko" were necessarily the greatest words  
11 that have ever been uttered in all of antitrust policy. I  
12 am not sure it's the greatest policy.

13           But my only point is that if you are going to  
14 have a policy that gives considerable deference to a  
15 decision by a single firm about who that firm will deal  
16 with or supply, it just seems odd that one wouldn't have a  
17 more strict policy, more intervention policy with respect  
18 to innovations that have very similar effects.

19           So, I'm not saying -- again I want to emphasize  
20 that I'm not saying that we should have policies that say  
21 that unilateral refusals to deal with per se legal, I  
22 don't think that's necessarily the right thing. But if we  
23 are going to have such a policy, then consistency seems to  
24 say that if you unilateral innovations that have similar  
25 effects should not be treated more severely.

1           So, one of my conclusions here is that all of  
2 the rule of reason and profit sacrifice tests have limited  
3 value to evaluate what is sometimes called predatory  
4 innovation. It's hard to do; likely to get the wrong  
5 answer; very hard to look al at the incentive effects that  
6 are necessary to really thinking about innovation.

7           The no economic sense test is better, but only  
8 if it's interpreted as a test of sham innovation because  
9 otherwise it comes out just like or very similar to a  
10 profit sacrifice test.

11           And my other conclusion is that this is what  
12 courts in fact almost always have done with very few  
13 exceptions in the way they've treated these cases and it's  
14 probably as reasonable an approach as any.

1 Professor Rubinfeld's major books include  
2 "Econometric Models and Economic Forecasts" and  
3 "Microeconomics." Recent publications include, "Antitrust  
4 Enforcement in Dynamic Network Industries" in "The  
5 Antitrust Bulletin," 1998; and "Empirical Methods in  
6 Antitrust: Review and Evidence" in "American Law and  
7 Economics Review."

8 He is President of the American Law and  
9 Economics Association.

10 Professor Rubinfeld received his B.A. from  
11 Princeton University in 1967; his M.S. and Ph.D. from the  
12 Massachusetts Institute of Technology.

13 Dan.

14 MR. RUBINFELD: Thanks very much. I really,  
15 like everyone else, appreciate the opportunity to appear  
16 before you today. It's been about eight or nine years  
17 since I left the Antitrust Division and I guess,  
18 understandably I've aged about eight or nine years during  
19 that time, and I find as one gets older one tends to  
20 reflect back on the past, perhaps more than one should.  
21 But what I'm going to do in my comments today is to really  
22 do some reflection on what happened, and I might hit on  
23 some of the previous commentators' issues, but see I can do it in  
24 a way that will be constructive for the agencies as you  
25 think about forming your policies.

1           So, the first point I want to make is why I  
2 think it's really important to have an active Section 2  
3 jurisprudence. And I want to look back and talk about the  
4 legacy of "U.S. vs. Microsoft" for antitrust enforcement.  
5 And, finally, I want to look at bundling and talk about  
6 the legacy of "LePage's vs. 3M".

7           I should say, to make it clear, that I had an  
8 interest in both of those cases. I helped to prosecute  
9 the Microsoft case. And I have consulted for 3M with  
10 respect to some of the issues that arose in its appellate  
11 case. I was not involved in the LePage's case itself, but  
12 I was involved in thinking about some of the appellate  
13 issues. So, I have taken a pretty close look at the Third  
14 Circuit opinion in that case.

15           If you're interested in some of the deeper  
2TDant, beMiccy ibe very quick, want tn in that 24ate

1 both Microsoft and Dentsply, both of which I thought was  
2 the right thing to do, and the D.C. Circuit and the Third  
3 Circuit in both cases have written opinions that were  
4 supportive of that decision, I'm proud to have been  
5 involved in both of those cases, and I think that shows,  
6 consistent with what Tim Bresnahan said, it shows the kind  
7 of active Section 2 jurisprudence that I think makes  
8 sense.

9 Both cases had a particular set of facts

1 it's common to face industries in which network effects  
2 matters and that enters into the economics and to the law,  
3 legal thinking about the cases.

4 I see one of the legacies of Microsoft is sort  
5 of helping to bring us from the pre-network effect world  
6 to a world where network effects are often the core of the  
7 analysis.

8 Next important is people are thinking somewhat  
9 differently now than they were before about barriers to  
10 entry. When we originally think about investigating the  
11 Microsoft case, obviously barriers to entry was something  
12 that I paid a lot of attention to. We became convinced  
13 that there was a significant barrier to entry, but it's  
14 not the usual one you might imagine. It had to do with  
15 the fact that in order to have a successful operating  
16 system, you really needed to have successful applications.  
17 There was what we called a two-level entry problem. And  
18 we spent a lot of time developing the underlying economics  
19 that describe this applications barrier to entry.

20 One of the things that people forget, actually I  
21 almost forget myself, is that the term "application  
22 barrier to entry" did not exist, at least to my  
23 knowledge, prior to our work. We coined and reiterated it  
24 every time we could at trial until the judge finally got it  
25 into his mind.

1           And it was fun to watch the trial, by the way,  
2 because at the beginning of the trial, Microsoft disavowed  
3 the application "barrier to entry." By the end of the  
4 trial it was being discussed by them as if it were a  
5 common coin of the realm.

6           So, let's remember that that was one, for better  
7 or worse, I think for better, one of the legacies of the  
8 Microsoft case.

9           The other thing is, as you all know, the case  
10 involved tying, but it was different than the classic kind  
11 of tying case, which is usually thought of leveraging  
12 market power from a market where a firm has substantial  
13 market power to use some related power where it does not  
14 necessarily have significant market power.

15           But this case did involve tying as well as  
16 bundling. And it was a non-leveraged form of tying. And  
17 now it's not, I think unusual to think about bundling in  
18 that context in certain cases where it was probably quite  
19 radical at the time.

20           The other thing is that the case brought to our  
21 mind a different way, a different perspective of thinking  
22 about market definitions. As Tim suggested earlier today,  
23 there's always been a lot of talk about Schumpeterian  
24 competition and certainly the agencies have been aware of  
25 it for a long time.



1           In this case, to one degree or another,  
2 Schumpeterian competition really came to the forefront  
3 because, in the debate about market definition and market  
4 power, Microsoft took the position that it was the threat  
5 of entry by competitors that really not only restrained  
6 this market definition, this market power, but also in  
7 fact meant that the market should be defined very broadly.  
8 Microsoft argued for an extremely broad market definition  
9 that included almost all operating systems, from  
10 hand-helds pretty much up through mainframe computers, and  
11 argued that it had no market power over that relevant  
12 market.

13           I still remember one particular trial exhibit  
14 which Microsoft presented which sort of brought this issue  
15 to the front. And the exhibit said that Microsoft faces  
16 substantial competition from known and unknown  
17 competition. And my view, which was borne out, by the  
18 way, by the Circuit Court opinion, is that when you have  
19 to defend your market power or lack of it by describing  
20 competition that no one knows about yet, you really have a  
21 fairly weak position.

22           And if you read the D.C. Circuit opinion, I  
23 think the D.C. Circuit got it right, as they did in most  
24 areas, they said, the nascent competition really could be  
25 important but it really has to be competition which is



1 principles that apply to conduct involving intellectual  
2 property that apply to any other form of property under  
3 the antitrust laws.

4           Originally, at one point in the case, Microsoft  
5 actually claimed that their IP rights covered the entire  
6 desktop, at least with respect to the first boot up of  
7 their operating system. The court made it very clear that  
8 (a) that was too expansive an interpretation, and (b) that  
9 it was appropriate for the Sherman Act and the courts to  
10 really look at the IP issues. You did not get a free ride  
11 just because you did in fact have some legitimate  
12 intellectual property.

13           And Rich described in detail and correctly where  
14 the court finally came out about these specific IP issues.

15           With respect to product design, as I interpret  
16 the court opinion, it makes clear that the court is going  
17 to give pretty wide deference to firms that are designing  
18 new products, along the lines Rich described. But the  
19 court also said this is an area that's open for viable  
20 investigation. And where particular aspects of  
21 Microsoft's product design excluded rivals, the court did  
22 shift the burden to Microsoft to establish a  
23 procompetitive justification for the design. There is no  
24 safe harbor just because you're involved in innovation or  
25 product design. And the removal of the Add/Remove utility



1 know, the court, the appellate court, on the time claims,  
2 suggested that the per se rule didn't apply because of the  
3 particular attributes of platform software. So, we're now  
4 left in a somewhat unclear world that may apply mostly to  
5 Section 1, but also has Section 2 implications as to how  
6 to treat tying.

7           And I have to say here, as an economist, you may  
8 not be surprised to hear that I'm pretty sympathetic with  
9 the comments of the court. I think it's really hard to,  
10 as an economist, come up with per se rules that would  
11 apply in this kind of high tech context.

12           Of course we don't know quite where that would  
13 have ended up because the Department of Justice chose not  
14 to appeal that part of the D.C. Circuit's ruling.

15           With respect to causation, I see the case telling  
16 us conduct that violates the antitrust laws only if it  
17 injures competition. Causation can be inferred when  
18 exclusionary conduct is aimed at producers of nascent  
19 competitive technologies, as well as when it's aimed at  
20 producers of established substitutes.

21           So, basically the court spelled out causation along  
22 the lines Tim suggested, and I think the court makes it  
23 pretty clear that that's necessary and that the government  
24 succeeded in that effort.

25           What about profit sacrifice? Here we could

1 debate exactly how to characterize the case. I would say  
2 that the case we put forward did really involve a profit  
3 sacrifice test. My definition would be that conduct is  
4 anticompetitive when it would not make business sense for  
5 the defendant but for its tendency to exclude rivals and  
6 create or maintain market power for the defendant.

7           This is kind of a crude paraphrase. If you go  
8 back and read the details of the case, you'll see a more  
9 formal definition. It is a variant on a profit sacrifice  
10 test. I wouldn't say it's quite a no nonsense test, but  
11 it's pretty close.

12           Now, that's not what the D.C. Circuit said.  
13 What the D.C. Circuit said was quite close to what Rich  
14 Gilbert said earlier. The court said that the conduct is  
15 anticompetitive if it harms the competitive process and  
16 either it's not shown to further efficiency or to have  
17 some other procompetitive justification or the  
18 anticompetitive harm outweighs its procompetitive benefit.  
19 So, the D.C. Circuit was suggesting more of a balancing  
20 test than a profit sacrifice test.

21           And this leaves us with the question of what we  
22 should do if we find Section 2 type conduct that harms  
23 competition and furthers a legitimate purpose should we  
24 have a balancing test.

25           Now, I should say here, I am not entirely sure







1 quickly tell you about 3M's programs. There were a whole  
2 bunch of programs being attacked, but the two that  
3 involved bundled rebates were, first, the executive growth  
4 fund program. And the thing that's key about this program  
5 was it was actually I think a one-year program and it was  
6 a pilot program for a small number of customers.

7           Now, what it did do was it set up growth targets  
8 for six different errant divisions of 3M, which would  
9 cover a lot of office supply products. And firms actually  
10 had to meet target goals in each of these divisions.

11           Now, my view is that the executive growth fund  
12 program -- let me be clear that this is my view and not  
13 3M's view. My view is that, had this program been  
14 expansive and had it covered all customers rather than  
15 just a few, and had it continued for a number of years, it  
16 could well have been an anticompetitive program. I don't  
17 think it was because it was too narrow. It had no ability  
18 really to substantially exclude competitors because many  
19 of the key competitors, Walmart being the most important,  
20 were not covered by this program. But it had the  
21 potential if it continued to actually be restrictive  
22 because of the specific design of the program.

23           But for various reasons, which I think relate  
24 partly to the demands of some customers, including  
25 Walmart, 3M changed its program to a partnership growth

1 program, and this program did involve discounts in six  
2 different areas, but there were no specific targets to  
3 reach in each of the areas. Basically you got a rebate  
4 based on the aggregate of all your purchases in all six  
5 categories. So, this amounted to a somewhat complex  
6 discount program, volume discount program.

7           And my view is that the PGF program, as it's  
8 called, was not anticompetitive, even though the court  
9 felt otherwise.

10           So, if you go back and look at the LePage's  
11 trial and ask -- take a look at the trial and ask if the  
12 trial helps to support some of those theories of  
13 competition, I would say no. I didn't see any testimony  
14 in the record about economies of scale or scope, which  
15 would be important, particularly to get at the issue of  
16 whether LePage's or any other competitor would remain  
17 viable in the face of these practices.

18           There was no predatory pricing claim.  
19 Plaintiffs agreed that LePage's was pricing above cost.  
20 In fact, by my calculations, even if you took all of the  
21 discount programs at 3M, no matter what the products were,  
22 attribute all the discounts to tape, it would still be  
23 pricing above cost.

24           I didn't see anything about profit sacrifice  
25 that I could infer from the opinion. So, there was

1 nothing that fit my particular interest in pursuing these  
2 kinds of Section 2 cases.

3           There was no time claim at all. It was a  
4 bundling case, not a tying case. There was also no showing  
5 of market power with respect to any product other than  
6 transparent tape. So, the kind of leveraging theory you  
7 might expect to see in a time case was not present either.

8           Now, the jury did find, interestingly, no  
9 exclusion under Section 1, but they did find a violation  
10 under Section 2. So, this leaves me with a puzzle of what  
11 the legacy is of "LePage's vs. 3M". I think for a while  
12 the Commission may have thought this case was unusual, but  
13 it's pretty clear now that the Third Circuit opinion has,  
14 let's say, encouraged a lot of litigation surrounding  
15 these kinds of practices.

16           So, I went back and asked myself, what should  
17 the principles be here. And I would say, speaking very  
18 broadly, if the rebates associated with bundling reduce  
19 consumer welfare by impairing rivals' ability to make  
20 competitive offers to potential customers, that's going to  
21 be something generally that's going to give me concern. I  
22 am not going to say it's necessarily anticompetitive, but  
23 that would give me great pause.

24           And that general rule takes into account  
25 efficiencies and allows price increases by firms, as long

1 as they don't impair rivals' ability to compete. But that  
2 general rule is really not very helpful from a process  
3 point of view. It's really too broad to make applicable.

4 So, I would say the following. I'd say, there  
5 are conditions under which one may be anticompetitive, but  
6 none of them fit LePage's.

7 And, just quickly, because I think we're running  
8 out of time, here's some examples of situations in which I  
9 think bundling might be anticompetitive, none of which  
10 fits the LePage's case.

11 The first would be traditional contractual tying  
12 of the kind that we saw in Jefferson Parish. The second  
13 would be predation through profit sacrifice of the kind  
14 where bundling was used in the form it was in the

15 ~~Ben 2 To 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100~~

16 ~~nt 3 ban you (8) Tj 1 fod Lb noese 2 where bundling wfigu pr e's wffereffertes~~

1 various tests.

2 I still not have seen one that I am entirely  
3 happy with, but a couple things strike me as important  
4 when and if we get such a test. One is that, weakening a  
5 rival should not be sufficient to condemn a monopolist,  
6 otherwise we will be discouraging firms from innovating  
7 and growing and being successful, which I think would be  
8 harmful to our competitive process.

9 Secondly, while it would be very nice to have an  
10 incremental cost benefit test for certain kinds of  
11 bundling, there are a lot of difficulties in putting that  
12 test into play that I won't bore you with here. So, we  
13 have more work to do there.

14 Third, we might say that for a bundled rebate  
15 program to be anticompetitive, it at least necessarily  
16 ought to be the case that the incremental costs associated  
17 with the available discounts exceed the incremental  
18 profits associated with the incremental sales that  
19 generate. If you take that language, I think you can  
20 create a viable safe harbor at least that would at least  
21 give firms some comfort that certain practices would be  
22 presumed to be legitimate.

23 And I actually believe, having done my work in  
24 LePage's, that the behavior of 3M would actually satisfy  
25 this safe harbor test. But you don't want to condemn

1 nondiscriminatory price cuts in single markets and you  
2 want to be careful not to penalize policies that exclude  
3 less efficient competitors.

4 That's a different issue because if you want a  
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1 to high tech industries. And I agree very strongly with  
2 that.

3 The AMC is proposing no need for Congress to  
4 amend Section 2. And I agree strongly with that as well.

5 And, finally, it looks like the AMC is thinking  
6 of recommending additional clarity and improvement in  
7 Section 2, particularly with respect to areas such as  
8 bundling. And I agree strongly with that as well.

9 Thank you very much.

10 (Applause.)

11 MS. GRIMM: I'd like to thank all of our  
12 panelists.

13 We are going to take a 15-minute break now.  
14 We'll reconvene in 15 minute for our round-table  
15 discussion.

16 (A brief recess was taken.)

17 MS. GRIMM: Before we get to our questions and  
18 round-table discussion, I would like to introduce our  
19 fourth panelist, who will discuss some of the ideas that  
20 have been advanced by our other panelists this afternoon,  
21 as well as some of his own ideas about Section 2.

22 Carl Shapiro, our fourth panelist, is the  
23 Transamerica Professor of Business Strategy at the Haas  
24 School of Business at the University of California at  
25 Berkeley. He also is Director of the Institute of

1 Business and Economic Research and Professor of Economics  
2 in the Economics Department at U.C. Berkeley.

3 He earned his Ph.D. in economics at MIT in 1981;  
4 taught at Princeton University during the 1980s; and has  
5 been at Berkeley since 1990.

6 He has been editor of the "Journal of Economic  
7 Perspectives," and a Fellow for the Center for Advanced  
8 Study in the Behavioral Sciences.

9 Professor Shapiro has published extensively and  
10 his current research interests include antitrust  
11 economics, intellectual property and licensing, product  
12 standards and compatibility, and the economics of networks  
13 and interconnection.

14 Professor Shapiro served as Deputy Assistant  
15 Attorney General for Economics in the Antitrust Division  
16 of the U.S. Department of Justice in 1995 and 1996.

17 Carl.

18 MR. SHAPIRO: Thank you very much. I don't have  
19 any slides. I am going to cover some ideas I have and  
20 then comment on and kind of get the discussion going about  
21 each of the previous panelists.

22 You probably already picked up the theme here  
23 is that we get up here and we reminisce about the cases  
24 that were brought or investigated while we were at the  
25 Antitrust Division. Okay? We really appreciate you



1 coming out here because we all have a love for the  
2 Antitrust Division. FTC, too. And we sort of appreciate  
3 your coming out here so we don't have to go again to D.C.

4           One of the themes that we've picked up here and  
5 throughout many of these hearings is that Section 2 cases  
6 are inherently really hard because it's a single-firm  
7 conduct and it's not like a cartel case. They're really  
8 hard and there's always elements and you have to be very  
9 careful.

10           And I don't disagree with any of that, but I  
11 want to focus on they seem to be harder than they need to  
12 be in some cases. And it's one of my themes, intersecting  
13 with the role of patents and plus innovation and  
14 Section 2.

15           And I'm going to depart from the DOJ reminiscing  
16 and actually talk about the Unocal case, which was brought  
17 by the FTC, and which I served as an expert witness for  
18 complaint counsel. And that was litigated at the -- by an  
19 administrative law judge, before the administrative law  
20 judge.

21           So, let me just quickly remind you of that case  
22 or tell you about the case. So, Unocal had some patents  
-- had patents -- came to have patents during the '90s on2  
th0s on214

1 regulations for gasoline in order to make the  
2 cleaner-burning reformulated gasoline.

3           And it came to pass that the regulations that  
4 were adopted, that Unocal's patents, apparently or very  
5 likely, many of the refineries would have to infringe  
6 those patents for a large fraction of the gasoline they  
7 would make if it would comply with the state regulations.

8           So, and the allegation was that Unocal had acted  
9 deceptively by leading the industry members to believe  
10 that its patents would be -- that either it did not have  
11 patents or would make them available on a royalty-free  
12 basis. That was the representation when the regulations  
13 were being formulated and that Unocal then later sought to  
14 get royalties. That was the allegation of deceptive  
15 conduct.

16           So, you would think -- well, let's say I would  
17 think, at least, maybe you would think, that this should  
18 be the sort of Section 2 case, and I guess it was FTC  
19 Section 5, and I'm not distinguishing those for my purpose  
20 here, that it would be relatively straightforward.

21           Big factual question about whether Unocal acted  
22 deceptively. They vigorously denied that they did so.  
23 The FTC or certainly complaint counsel was arguing they  
24 had. I simply assumed that they had for the purposes of  
25 evaluating market power and competitive effect. That was

1 the fact question. If they had not engaged in any  
2 deception, I believed there was nothing to the case. That  
3 was my understanding, as I recall it.

4           So, if they acted deceptively, and let's take  
5 the really cleanest version, they led people to believe  
6 patents would be available on a royalty-free basis.  
7 Regulations are selected. Literally billions of dollars  
8 are invested by refiners to comply with these regulations,  
9 made CARB gasoline, as it is called, and then they  
10 asserted patents.

11           So, the reason I would say this should be, to my  
12 way of viewing, a relatively simple case because the  
13 conduct alleged and assumed by me, as an expert at least,  
14 deception is not something that we have to wring our hands  
15 over, oh, is that something that's procompetitive, is it  
16 important that companies engage in that sometimes. It's  
17 not like discounting. It's not like product innovation.  
18 Deception.

19           So, now then the question is, okay, we don't  
20 really have to worry about stifling deception, okay. So,  
21 does it have a significant effect on prices, on market  
22 power? And if they represented that the patents would be  
23 available royalty-free and are later seeking something  
24 like five cents a gallon, to throw out a number, for  
25 pretty much the whole industry a very large fraction of

1 the gasoline that would be produced, well, that's a price  
2 increase. There's very strong evidence that would be  
3 passed to the final consumers, motorists. Not that that  
4 matters so much because, even if not, it would be borne by  
5 the direct customers of the technology, refiners, who  
6 would be using the technology. And so you get right away  
7 the competitive effects without any real business  
8 justification for the conduct that's alleged or  
9 challenged.

10           And yet, Unocal raised many, many arguments.  
11 We do not know how the administrative law judge or the  
12 commission or subsequent appeals court might have reacted  
13 to these. We do know from other cases, the case of --  
14 the Rambus case. There are a variety of Rambus  
15 cases that also involve similar allegations regarding  
16 standards and patents. And we know from other cases I  
17 won't get into that the courts have tended to say, well,  
18 wait a minute, you have a patent and so you get some  
19 market power associated with the patent, and so we should  
20 be very careful not to jump on -- not to conclude that,  
21 just because there's market power, somehow it has to do  
22 with anticompetitive conduct, because patents may very  
23 well confer market power in a perfectly desirable way.

24           So, I guess I'm raising a concern that what  
25 should be a simple case, there seems to be, in some

1 quarters at least, sort of a worship of patents that  
2 therefore mixes up market power attributable to the  
3 innovation versus market power -- additional market power  
4 that comes about from conduct, just the sort of thing that  
5 Tim was mentioning, actually, look at additional effects  
6 of the conduct.

7           And the economic opportunities of hold up I  
8 think are very clear, going back at least to Oliver  
9 Williamson, my distinguished colleague here at Berkeley,  
10 and yet these were denied essentially by Unocal and its  
11 economic expert. That is to say, the notion that once  
12 refiners had invested enormous sums in order to comply  
13 with the regulations, that would necessarily put Unocal in  
14 a stronger bargaining position to get royalties that they  
15 could not have gotten earlier.

16           So, I would say it's relatively fundamental  
17 economic principles, fairly clear fact pattern, and yet we  
18 have -- and, for example, the whole Antitrust debate about  
19 defining the relevant market. Defendants can often, in  
20 this case at least, try to make that very complicated,  
21 exactly which technologies are in the market and which  
22 ones are substitutes, and what was the best alternative,  
23 and how good was it, and how much -- they even argued, our  
24 technology is so good that people would have picked it  
25 anyhow and, therefore, even if we engaged in deception, it



1 yet Unocal argued that, well, our technology is so good  
2 that we should be able to charge more than that, even if  
3 we engaged in deception, because under competition somehow  
4 they would have been able to charge a lot.

4

So, whibee I'm not expecting ar DOJ 1 TFCen a lot.

4

tthrow, wt mark0 Tdefin in decefor example, a lot.

1 firm.

2           And I think that's a really good way to go. So,  
3 I support that.

4           One way I like to think about it is we could ask  
5 if the conduct is directed at certain competitors or maybe  
6 at certain distributors who then would be important for  
7 certain other competitors in your Dentsply case, we could  
8 ask, if the conduct was really effective and eliminated  
9 those competitors, a certain class or group of  
10 competitors, would the firm be able to significantly raise  
11 price. Or, alternatively, if those competitors were fully  
12 enabled, would that lead prices to fall significantly.

13           If that's true, then we need to proceed further  
14 in the inquiry. If not, because the price is really  
15 governed by some other set of dynamics, you know, in the  
16 case of patented drugs, if you get rid of the generic  
17 competition, that would usually lead to a higher price,  
18 but it could be in some cases that competition from other  
19 patented drugs is what's driving price or, in principle,  
20 that sort of competition, and then we could stop that  
21 inquiry if the targets were not really providing sufficient  
22 competitive discipline. So, I am very supportive of that  
23 line.

24           You said at some point, Tim, that it was very  
25 hard to do some sort of balancing, you know, particularly



1 quantifying the balancing of net effects, harm to  
2 consumers, benefits to consumers. And so I guess the  
3 economic theorists, I guess that's going to include me  
4 now, may like to measure all these things and do this in  
5 our models, but in practice that balancing would be hard  
6 to do. It is hard to do.

7           One thing we might do is then focus more on the  
8 competitive process, rather than necessarily a particular  
9 outcome.

10           But you also said the defendant could show that  
11 the practices were efficient and that would be a defense.  
12 So, if there was anticompetitive danger, the defense could  
13 come back and say the practices were efficient. I don't  
14 know what that means in practice. I guess I'd like to  
15 hear more from you about that. Because there is typically  
16 going to be some story about, oh, this has lower prices  
17 for some customers so it's efficient, or this is going to  
18 prevent free riding, so I need to have exclusive dealing  
19 here. There's going to be some efficiency story and I  
20 don't understand how you can avoid doing some balancing  
21 after the efficiency flag is raised and now are we done.  
22 I don't think you mean they're done just because the  
23 defense raises the efficiency argument. So, what happens  
24 next?

25           My last comment was on -- I don't want to get

1 into Microsoft. Believe me, I really don't want to get  
2 into Microsoft. But you did mention -- I like your term,  
3 the "remedy fizzle." I don't know if you coined that  
4 term, but I like it. You took some responsibility, I  
5 think --

6 MR. BRESNAHAN: I lived that term.

7 MR. SHAPIRO: For years, right? I just wanted  
8 to share the responsibility because, having testified for  
9 the states at the remedy phase, I want to share that  
10 responsibility with you.

11 MR. SHAPIRO: Rich -- next, Rich Gilbert. I  
12 really liked to hear what you had to say about interfaces,  
13 Rich, because this seems to me -- I kept coming -- this  
14 came up when I heard you talk about IBM and Microsoft and  
15 other examples, it seems to me, going back to at least  
16 IBM, and probably selling machines in the 19th century or  
17 something, you've often got this pattern where, I have a  
18 product and I innovate, I improve it and, as part of  
19 improving it, I change the interface or I start producing  
20 a complementary product that needs to be compatible and  
21 it's innovative and very often intellectual property  
22 rights are used to control or secure an interface. And  
23 yet we know from the telecommunications, we know from  
24 other network industries, that controlling interfaces can  
25 lead to a certain octopus-like nature from what might be a

1 secure monopoly in one product initially.

2           And speaking for myself, I get really torn  
3 because I feel like, well, fine, the monopolist, if you  
4 want to call them, improved their product. Integration,  
5 where different components are integrated together, is a  
6 very important element of improved performance, and so how  
7 are we going to draw these boundaries. You know, do we  
8 want to treat interfaces differently, for example, either  
9 under a copyright or patents or how does it intersect with  
10 antitrust. I think these things are hard and I wonder if  
11 you want to say more about that.

12           I was -- it was shocking to me, I have to say,  
13 to have an economist tell lawyers to focus on the process  
14 rather than the outcome. I just --

15           MR. GILBERT: Not the first today.

16           MR. SHAPIRO: I know, it's true. This is all  
17 the more shocking because lawyers are very good at process  
18 in my experience and economists are always thinking about  
19 these outcomes and are often blind to the process. So, I  
20 just -- I don't know, we might have to revoke your card.  
21 I don't know.

22           And then -- well, I guess I was maybe not  
23 shocked, but a little surprised that you said, well, the  
24 courts have done fine because all of this is hard. If  
25 it's sham innovation that's your standard at the end, that

1 seems very hard for plaintiffs. And maybe that's what you  
2 want. I mean, what would it take -- what would count  
3 as a sham? Could you give us an example? For example, to  
4 say where, well, the product is a little better but they  
5 didn't have to do it this way, for example. What would be  
6 a sham? You know, I think it's sort of ironic when I  
7 think about Microsoft -- I said I wouldn't talk about it  
8 much -- but one of the things Microsoft really pushed  
9 throughout the trial was freedom to design their product  
10 the way they wanted to and the great benefit of  
11 integrating different features, as opposed to more  
12 components or modular.

13 Well, what is it now, eight, ten years later? I  
14 think they're really having trouble because what the  
15 computer science community always does know is, no, that's  
16 not good design. Good design is modular and basically  
17 people on the other side are telling Microsoft, you  
18 wouldn't do this except for strategic reasons. And now in  
19 a way that's sort of spaghetti code or the increasingly  
20 complexity of Windows has made it very, very hard for them  
21 to meet deadlines in terms of coming out with new versions  
22 and a lot of other problems they've had.

23 So, what would you do in that case to say, well,  
24 you don't have to design it this way, or maybe you don't  
25 want to go there if it's not a sham. Any company can

1 choose how to design their product, even if it's not  
2 something they would choose to do except for strategic or  
3 exclusionary reasons. Or is that too intensive. I don't  
4 know.

5           But maybe, and you can confirm this, Rich,  
6 you're saying it's so hard to do these cases, that it's  
7 true a sham innovation standard is very hard for a  
8 plaintiff, but that's okay and we're just not going to get  
9 many cases. And maybe that's where we're at. Is that  
10 what you support?

11           Dan. I will finish soon here. Dan, there's a  
12 lot to say, but I noticed you were emphasizing the  
13 somewhat novel nature of network effects and the coining  
14 of the application "barrier to entry" in the mid to late  
15 '90s by you and Joel Klein, I guess.

16           I have to tell a little story. So, Mike Katz  
17 and I did work on network effects going back to the '80s.  
18 And so we're working -- (laughter). No, that's neither  
19 here nor there. Academics can do anything, but until it  
20 comes into practice... So -- but I just want to tell a  
21 little story around that.

22           So, we're working in the early '80s and we're  
23 working on the network effect. And actually personal  
24 computers and computer software is a good example of  
25 applications -- that was our example, actually,

1 applications that run on an operating system.

2           And Mike said to me -- and we're getting kind of  
3 excited about this and I guess we got published in a top  
4 journal, and Mike says, this is great, but I have to tell  
5 you, I have a friend who is doing a lot more with this.  
6 Not a friend. I should say, a former classmate. So, he  
7 says, back when he was at Harvard, there was this guy and  
8 he was making a lot of money on this. The guy's name was  
9 Bill Gates.

10           So, we often think, oh, we work out these  
11 theories, but often after somebody else puts them into  
12 practice and understands them pretty well, then the law  
13 can kind of catch up with that and maybe academics as  
14 well.

15           Okay, I'll leave it at that.

16           MS. GRIMM: Tim, would you like to start off  
17 here and respond?

18           MR. BRESNAHAN: Yes, I want to start off. I'm  
19 not sure I want to respond. I really like Carl's  
20 restatement of my screening idea. That was exactly what I  
21 was trying to say.

22           Let me take on hard-to-balance because I don't  
23 think I'm against balancing. And I want to use the  
24 example of sham innovation because I think that's pretty  
25 interesting.

1           The art of balancing, I'm against two things  
2 that sounds like balancing. One is a burden-shifting  
3 argument that suggests either an efficiency defense,  
4 defendant has to show that one rule really is better than  
5 the other quantitatively, or in a plaintiff's case where  
6 some sort of efficiency defense has been raised, an  
7 argument that plaintiff has to show that the world is  
8 going to be better off without the market power.

9           I think that those procedures in which one party  
10 or the other has to sort of calculate the counterattack  
11 from the rule with precision are not going to go very far.

12           And I guess I wouldn't go all the way to saying  
13 we should only like the competitive process. But, you

1 the operating system, you know, you really got to hold  
2 your nose to call that innovation. Maybe there was  
3 something innovative to it. Maybe there were some  
4 benefits to integration, but it doesn't sound very  
5 innovative to me. So in this case the balance is  
6 pretty obvious.

7           At that level of a balancing test, I'd be very



1 the Microsoft case, I talked to a roomful of people and somebody  
2 said, weren't they accused of "innovating too fast." And  
3 somebody else said, they can't possibly be guilty of  
4 innovating too fast; those guys (Microsoft) have never  
5 innovated too fast in their lives; they never innovate fast  
6 enough. And stuff like that will come out in a courtroom.

7           For this reason, I think that a standard that  
8 innovation has to be a sham is too narrow.

9           MS. GRIMM: Professor Gilbert?

10          MR. GILBERT: Well, when I started this project  
11 of looking at standards for innovation, I did a lot of  
12 reading. And one of the papers I came across was the  
13 paper by a Mark Popofsky. And Mark, in that paper,  
14 advocated basically different standards for different  
15 types of conduct, very much a process-oriented approach.

16          And my initial reaction when I read that paper  
17 was I sort of reeled back and said, oh, this doesn't make  
18 any sense at all where we're going to put everything that  
19 goes on in the economy in a separate category and have a  
20 different set of antitrust rules for it. I guess at that  
21 point I still had my economist card.

22          But the more I looked at this area, the more I  
23 started to think, how do we actually do this analysis and  
24 what do you have to take into account to do the analysis  
25 right, the more I was led to the conclusion that maybe

1 Mark got it right, that there were certain things that you  
2 do and a lot of things you can't do, and that different  
3 standards apply to different types of conduct.

4 I mean, certainly the failure to innovate is not  
5 an antitrust violation, even though it's really what we're  
6 concerned about or should be concerned about.

7 Other problems in this -- along this line, I  
8 have a paper with Mike Reardon where we look at  
9 technological tying. And the point of that paper is that  
10 there are lots of different outcomes. And even if you had  
11 really good information, you could do an analysis and you  
12 really could examine the problem, you don't know which  
13 equilibrium outcome is going to occur in the market. And  
14 there could be good outcomes from technological tying and  
15 there could be bad outcomes from technological tying. But  
16 putting a court into the position of trying to figure out  
17 which equilibrium the market is at and which one is  
18 better, that's a tough place to be.

19 But I do understand that a lot of this conduct  
20 can have very undesirable consequences. If there are less  
21 restrictive alternatives, and you can identify them and  
22 really carve them out from the conduct, well, that's  
23 great. But unfortunately, lots of times the restriction  
24 that goes along with an innovation is inherent in the  
25 innovation. That's where it's difficult. I think, of

1 course, if you can separate it out, that's fine, it's a  
2 lot easier.

3           You mentioned IP protection. Yeah, it would be  
4 nice if we could -- it's hard to find an academic these  
5 days who wouldn't like to see lesser IP protections, and  
6 particularly for things that have network externalities,  
7 the other barriers to entry like interface standards. But  
8 that's a little bit out of our area.

9           Let me talk a little bit about sham innovation.  
10 Again, I'm very sympathetic to the concept that just  
11 calling it innovation should not be able to protect all  
12 kinds of undesirable conduct and consequences. That just  
13 seems pretty obvious.

14           But how you actually measure how discrete an  
15 innovation has to be before it is not a sham brings you  
16 right into the kind of numbers that Tim was saying are  
17 very hard for a court or anybody else to do. What number  
18 is big enough? And it's not just the innovation need,  
19 it's when the innovation occurs and how it occurs. Is it  
20 rolled out in every market, does that make it a sham or  
21 not?

22           And I come back to this unilateral refusal to  
23 deal analogy. Without defending -- I don't want to defend  
24 a "Trinko" approach, but I just find it very odd that  
25 innovation that has similar consequences should be held to



1 went off to Washington in one extent or another, we were,  
2 let's say each of us in our own way, somewhat more  
3 theoretically inclined in thinking about some of these  
4 issues. And the effect of the Washington experience I



1           And this is one of the disciplinary divides I  
2 think you see between economists and attorneys.  
3 Economists are more eager to take that position.

4           I suspect that one of the problems with that is  
5 that, patent law hasn't been particularly successful --  
6 forgetting antitrust law for a minute. Patent law hasn't  
7 been particularly successful at delineating the power to  
8 exclude in any particular patent conveys on its owner.

9           So, when you get into these cases in the  
10 pharmaceutical industry where the patent on the original  
11 molecule is running out but there's a new patent on, the  
12 same molecule but packaged into a lozenge form or something  
13 like that, that it's actually not completely transparent,  
14 what's the right answer to the question, "how much  
15 market power does the patent provide?" And when the  
16 pharmaceutical firm starts playing Carom shots off the  
17 enormous complexities of the regulatory process under  
18 Hatch-Waxman, what is the answer to the question, "how  
19 much market power was conveyed by the original patent?"

20           So that even if we're fairly comfortable with  
21 the idea that creation of additional market power beyond  
22 what the patent originally would have given that can be  
23 a thing that can be very hard to determine in a legal  
24 sense.

25           There probably is a near consensus among academic

1 economists that patent policy in the United States over  
 2 protects the patent holder. I think I agree with Carl on  
 3 that. There's this other problem that patent policy is  
 4 too vague, that patents simply don't look like property rights  
 5 here. You have to go to courts or to the regulatory  
 6 system to find out who owns what. And that -- the antitrust  
 7 doctrine, Carl quoted the traditional antitrust doctrine that,  
 8 intellectual property law is what it is and we ask  
 9 whether there's additional market power on top of that.  
 10 That may be more attractive in its economics than its law  
 11 because it's hard to determine how much market power there  
 12 would have been absent the anticompetitive acts.

13 MR. GILBERT: I'd kind of like to reinforce what  
 14 Tim said earlier, Carl, and I think also Dan as well.

15 While a lot of our discussions today might be  
 16 interpreted as suggesting that Section 2 analysis is very  
 17 hard to do and therefore we shouldn't do it, and there's a  
 18 lot of ways in which I think that's absolutely wrong, and

19 they say law Section 2 is not a per se violation. It's a rule of reason. And should be b2.1) Tab, /ac



1 else, it seems like you never get to the question.

2           You know, the relevant question is: Does the  
3 conduct really raise prices. And most of the time that's  
4 pretty obvious whether it does or doesn't and you don't  
5 have to do all this other stuff. And I think the law  
6 often puts us in a position of having to go through this  
7 kind of rogue set of steps that's in many ways very, very  
8 counterproductive.

9           MR. SHAPIRO: Well, two things. The first one  
10 is to emphasize my concerns about the fetish over patents  
11 in intellectual property rights, therefore in some cases  
12 being a little blind to the fact that they can be  
13 leveraged, if you want to use that word, and you can get

more power than was granted by the law.



1           If the program is limited, there's only a few  
2 customers or a short period of time, if that's the case,  
3 would you just wave it through? It just doesn't matter  
4 what the structure of the program is to you because it  
5 couldn't have anticompetitive effects or not?

6           And then related to that, I don't know if you're  
7 familiar with the EU's approach to this, but they're  
8 required to share methodology and calculating volume  
9 discounts, multi-product or single product, and whether  
10 you think that's something that the U.S. should pick up  
11 on.

12           MR. RUBINFELD: Good questions, Carl. I  
13 actually am not familiar with the EU side, so I am not  
14 going to try to answer that.

15           With respect to the workable test, you're right,  
16 I was suggesting just a safe harbor and I think I would  
17 accept your clarification. I was looking for a profit  
18 sacrifice kind of test, so I would compare marginal  
19 revenue and marginal cost, that's if marginal revenue is  
20 different from price, but only to get a safe harbor.

21           The problem in extending that test is that,  
22 while I think there's some bundling cases which I think  
23 are appropriately seen as really being an extension of a  
24 predatory pricing case and probably ought to come under  
25 Brooke Group, I think there are other kinds of bundling

1 practices which probably are not seen that way. So, the  
safe harbor I don't think ought to be what is

1 appropriate to use as a general standard for all Section 2  
2 conduct.

3 I was hoping that you could refine that a little  
4 bit, in particular, you know, how is this different from  
5 the traditional profit sacrifice test, whatever that may  
6 be, and how does it differ from the no economic sense  
7 test?

8 MR. RUBINFELD: That's a great question. I  
9 think I really can't -- without going back to my drawing  
10 board for maybe a few years, I don't think I can answer  
11 that very well.

12 The reason why I was saying a variant in my  
13 comments is that I have been trying to follow some of the  
14 debate in the literature among the folks who prefer more  
15 of a balancing test to a profit sacrifice test. And it's  
16 not that hard to come up with hypotheticals that would  
17 defeat almost any version of a profit sacrifice test under  
18 certain circumstances.

19 And so what I was imagining was that one would  
20 be able to come up with either a more robust rule that was  
21 not subject to too many of these hypotheticals, or maybe a  
22 complex rule that said under certain circumstances we do  
23 the test one way and under other circumstances another.

24 But, unfortunately, I don't really have an  
25 answer to that question. I am hoping, Jim, that you and

1 others at the Division will work hard to give me an  
2 answer.

3 MS. LEE: Okay. That was a good way to deflect  
4 the question.

5 MR. RUBINFELD: Others here may have an answer.

6 MS. LEE: Let me also get you to react to Tim's  
7 proposal in terms of how we should evaluate Section 2  
8 cases, I would call it a step-wise rule of reason. Tim,  
9 please feel free to disagree with me if you don't think I  
10 am charactering that appropriately.

11 MR. RUBINFELD: You are asking me that question?

12 MS. LEE: Yes. How would it be different from a  
13 variant of the profit sacrifice test that you think would  
14 be appropriate.

15 MR. RUBINFELD: Well, I guess without being too  
16 specific, I have some of the same reactions I guess others  
17 on the panel have expressed based upon my own experience  
18 both in the Division and working on private cases, and  
19 that is the cases often get bogged down in complex debates  
20 about issues like market definition, without really  
21 talking about competitive effects.

22 So, I'm actually -- at the level Tim is talking  
23 about, I'm very symptomatic with his suggestion. I think  
24 the pharmaceutical cases for me are really an excellent  
25 example of that. I have been involved in a number of

1 these where there's a huge battle about market definition,  
2 which can be a very tricky issue in pharma cases for a lot  
3 of reasons, and yet I thought that -- the answer to the  
4 question, how you define the relevant market, at least if  
5 you are using the guidelines, really has almost no impact  
6 on whether there's a competitive effect.

7           If you think that a generic would have entered  
8 earlier, and the generic most of the time is going to  
9 enter at a substantial discount off the price of the brand  
10 product, there is likely to be an effect. It's going to  
11 be the rare case where competition is driven just by other  
12 branded products.

13           Now, if you think that's the case, then the real  
14 battle is going to be on issues such as causation, whether  
15 the practice itself had procompetitive benefits, and so  
16 on. So, there will still be a lot to debate, but the  
17 debate will be about whether this competitive effect A and  
18 B, whether there are justifications that say that that  
19 procompetitive effect was worth it.

20           Rather than debate, which can get pretty far off  
21 the subject, or market power -- certainly most, if not  
22 all, successful brand products generate a lot of market  
23 power. That's the point of Hatch-Waxman to some extent,  
24 or the point of patent laws generally. And -- but the  
25 point of Hatch-Waxman in part is to encourage entry to





1 really procedural. It's to move the things which are  
2 going to be most difficult for courts to do back in this  
3 sequence. So, I mean, you heard us all economists say,  
4 it's often easier to see whether there's a competitive  
5 effect than to get market power right. I think that's  
6 probably going to be true.

7           Certainly if there's a Section 2 case there,  
8 it's going to be easy to see what the competitive effect  
9 is. And then if you can't see it, there's no Section 2  
10 case there.

11           Similarly, that the challenged conduct causes  
12 the market to be less competitive, that's an inquiry that  
13 can be undertaken within the four walls of what causes  
14 competition, without any balancing against the efficiency  
15 of the challenged conduct. Does it change the conditions  
16 of the competition? And I bet a lot of cases will follow  
17 thereto, and that's within the four walls of ordinary  
18 antitrust analysis. Is the reason that the market is less  
19 competitive because the challenged conduct raises entry  
20 barriers, raises them in a way that, you know, the  
21 entrants and third parties can't get around to the  
22 relevant time frame. Those are all difficult tests to  
23 pass.

24           So, most Section 2 inquiries should fall by the  
25 wayside. I just want them to fall by the wayside cheaply.

1           And then you come to the last thing, which as  
2 we've all said is really, really hard, you know, you've  
3 got causation, there's some challenged conduct which is  
4 changing the conditions of competition, but there's also  
5 something good about it. You know, it's innovative or  
6 it's a price cut so it's especially good for customers,  
7 and now we've got to do this balancing, which I think is a  
8 very, very difficult thing to do.

9           So, I just want to reduce the incidence of the  
10 balancing. Rather than leaping to that right away, go  
11 through other things first and discard cases. And I  
12 think that the causation -- the causation inquiry which  
13 says, is the challenged conduct holding entry barriers  
14 high is an easier counter-factual inquiry than, is the  
15 extent to which it's holding entry barriers high worse  
16 than its countervailing efficiency. It's got one less  
17 difficulty.

18           So that would be how I would proceed. And the  
19 basic idea is to save wear and tear on the system, which  
20 is potentially the result.

21           MS. LEE: Thank you for the clarification.

22           Rich, I wanted to ask you, you had said you have  
23 become more sympathetic to the idea that in different  
24 Section 2 matters different standards should apply.

25           How would one go about determining the best

1 standards to apply in each situation?

2 MR. GILBERT: Again, a very good question.

3 Certainly what sets innovation apart is the  
4 temporal linkage and very complicated linkage between the  
5 conduct at issue and the investment research and  
6 development that create the innovation and the prospects  
7 that any antitrust venture that would show that kind of  
8 very beneficial investment. And suppose you had a case  
9 where you didn't think that linkage was all that  
10 important, so you intervene in that case. But then if you  
11 do that, that also creates a precedence for there being  
12 other cases the linkage could be very important, and you  
13 definitely don't want to chill innovation in those other  
14 cases.

15 If you think about how some of those early cases  
16 -- if some of those early cases came out differently,  
17 because almost all the cases that I can see ultimately  
18 basically are pretty close to a sham innovation test. If  
19 they had done something very different from that, what the  
20 implications would be for people actually involved in  
21 product design could be kind of interesting.

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1 exclusive dealing or bundling or whatever, I think in many  
2 of those cases you can if not forget about, certainly  
3 discount, the more complicated intertemporal effects. And  
4 the analysis I think becomes much easier. And the sort of  
5 rule of reason analysis becomes much more possible.  
6 Weighing of benefits and costs becomes more reasonable.

7 MS. LEE: Carl, do you have anything you want to  
8 say in addition to what you said already about general  
9 standards? You had said in your comments that you were  
10 very sympathetic to a standards approach.

11 Is there anything else you would like to add?

12 MR. SHAPIRO: Well, you called it a structured  
13 -- what did you call it?

14 MS. LEE: No, I called it a step-wise.

15 MR. SHAPIRO: Good, that's the ticket.

16 MS. LEE: I think that's what it was.

17 MR. SHAPIRO: So, I think of it in terms of  
18 screens. Traditionally, the monopoly power screen. You  
19 have a lot of power, and if you don't, then Section 2  
20 doesn't apply.

21 I think I would push for: Does the conduct hold  
22 up the prospect to leading to significant increase in  
23 market power, okay, as actually a better question to use  
24 as a screen.

25 Now, the reason I think the traditional screen

1 has been applied, it's been assumed if you don't have any  
2 power to start you, you can't manufacture something from  
3 nothing. And that may be true in a lot of cases, although  
4 not always. Maybe deception turns up.

5           Furthermore, even if you have power to begin  
6 with, if the conduct couldn't add much to it, maybe you  
7 have a patent, then we can dismiss that case, we don't  
8 have to go anywhere. So, you would get something knocked  
9 out on this increment screen that you wouldn't get knocked  
10 out based on a preexisting traditional power screen.

11           So, I think it's a lot more closely tied to what  
12 Tim was saying at the top of the program here about  
13 looking at effects and increment. And there are ways to  
14 do that, implement that, and I have written about that and  
15 other people have, too. So, that's a general concept I  
16 think that cuts across a lot of cases.

17           At the same time, I agree with Rich that -- and  
18 I think Dan -- well, profit sacrifice may apply in some  
19 cases but not others, so then you have to be more nuanced.  
20 You know, profit sacrifice would not apply in the Unocal  
21 case.

22           MS. LEE: So, let me ask you the same question I  
23 asked Rich.

24           Do you have a suggestion about the methodology  
25 of figuring out, well, which is the best approach in each

1 type of matter?

2 MR. SHAPIRO: It would be very unwise for me to  
3 get into that at this late hour.

4 MS. GRIMM: I just have one question on  
5 remedies, and this is for Tim. Again, on the Microsoft  
6 remedy which you labeled a fizzle and you said the remedy  
7 in AT&T from your point of view was successful.

8 I was wondering if could share any views with us  
9 on appropriate remedies in Section 2 cases, perhaps  
10 structural versus the conduct remedies.

11 MR. BRESNAHAN: I'm almost certain there's no  
12 general law of remedies in Section 2 cases because  
13 Section 2 cases are so context specific and so fact dense.

14 You know, in the structural remedy that was  
15 negotiated rather than imposed by a court in AT&T, I think  
16 the logic of that was caused by an attempt to minimize the  
17 harm to competition and innovation by walling off the rest  
18 of the industry (by vertical disintegration) from the  
19 necessarily regulated sector of telephony, local phones.  
20 And that's just a very specific argument.

21 So, some principle that has remedies that are  
22 reasonably proportional to the harm to competition that's  
23 been proved, I think it's going to -- I think it's going  
24 to be very hard to go farther than that to a broader abstract  
25 statement.

1 MR. SHAPIRO: If I could just make a quick  
2 comment. I thought about Microsoft remedies in context  
3 here. At one end you have, sin no more, don't do what you  
4 did before, narrowly defined, maybe defined to reflect the  
5 market changing. And, you know, that doesn't seem to me  
6 that does much to restore competition if there's been real  
7 damage with some lasting effect, okay, if the case was  
8 significant to begin with.

9 One of the things that was interesting in that  
10 case was that -- and I think it's true in a lot of cases  
11 -- it's very hard to know exactly what the effects are.  
12 So, you can't say, ah, we're trying to engineer the market  
13 to return to a certain state and that's what we mean by  
14 restoring competition.

15 So, again, in that context, really the case was  
16 about raising entry barriers, as Tim put. My view was,  
17 you should have a remedy that lowered entry barriers and  
18 then come what may. Maybe entry will occur, maybe it  
19 won't.

20 But sin no more seems to me it's probably going  
21 to be too weak in most cases where the case was worth  
22 bringing to begin with.

23 MS. LEE: Let me ask a follow-up to that.

24 If the only suitable remedy is a sin no more  
25 remedy, do you think the agency should bring a Section 2

1 case in that instance?

2 MR. SHAPIRO: Well, there still could be some  
3 deterrent effects. And there are private cases that  
4 follow on, for example, that could have a major role. And  
5 there were private cases in the Microsoft case that  
6 involved a lot of money.

7 So, it could well be. I guess I would hope if  
8 it's a major case that either agency could come up with  
9 something a little more effective and maybe even creative.  
10 But, at the same time, partly from the Microsoft  
11 experience, it's very hard for a court to impose a remedy  
12 when the company says this is crazy, it won't work, you'll  
13 destroy all sorts of good things, and the government  
14 agency, you know, yeah, there's information but it's hard  
15 to know. So, I think it's very hard. And so if you are  
16 stuck with sin no more, it could still be worth bringing,  
17 sure.

18 MS. LEE: Let me just solicit the other  
19 panelists about that. Anything different or anything to  
20 add?

21 MR. BRESNAHAN: Yes, I guess I'd be more  
22 conservative on this ground than Carl. It's hard to get a  
23 lot in deterrence in this area of antitrust law because  
24 it's so hard to -- you know, we're never going to have a  
25 doctrine that says these specific practices are



1 anticompetitive. I mean, guys will just know not to do  
2 those particular practices. It's much more complex than  
3 that.

4           So, other than generally wanting to keep the  
5 idea that there might be this prosecution of particularly  
6 egregious anticompetitive acts, this is not a great area  
7 where you can get an awful lot of deterrence out of --  
8 you know, out of a case where there's a remedy that  
9 doesn't do anything.

10           So, I'd be less -- I'd put less emphasis on  
11 deterrence and, more emphasis on the view that it  
12 should really be looking for cases where you can make  
13 a big difference for the American consumer.

14           I mean, before I was in government, in  
15 connection with Microsoft, I took the position, don't  
16 bring it unless you're going to do something really  
17 big, which I went on to say, probably meant don't bring  
18 it, although that turned out to be wrong. The government  
19 did ask for a remedy that would have changed the  
20 conditions of competition.

21           I think these experiences are rare, important  
22 and efficacious in the first instance, and seeking  
23 deterrence only, you know, only perhaps in flagrant  
24 examples.

25           MR. GILBERT: Sometimes, not always of course,

1 the case that dominance leads to conduct that is  
2 persistent and durable, that companies in dominant  
3 positions tend to do the same sort of anticompetitive  
4 things. And it's also the case that that dominance is  
5 persistent, that even if you try to break it up, forces  
6 are going to tend to recreate it. And I wouldn't say  
7 that's always true, but that's sometimes true.

8           But I also say that, even in those cases where  
9 you cannot have a real structural remedy, that structural  
10 remedies wouldn't be very effective, a big case like this  
11 brought by DOJ or FTC has a lot of consequences for these  
12 companies. And I think you have a significant deterrence  
13 effect.

14           MR. RUBINFELD: The only thing that I was going  
15 to add is, these remedies come out of course not in just  
16 in court decisions we're talking about, but also in  
17 consent decrees that are reached. And I think it makes a  
18 big difference how you craft a consent decree. You know,  
19 I can think of some cases which I was involved in where we  
20 literally got a promise never to do A again and nothing  
21 more. There were other cases where the consent decree  
22 really laid out fairly carefully what we meant by not  
23 doing it again, not only for this company, but also the  
24 consent decree sent a clear message since the consent  
25 decree can be part of the public record.

1           So, you can get some deterrence even in a  
2 situation where the structural remedy doesn't work if you  
3 craft the right consent decree. And, obviously, it  
4 depends on every case, but I think obviously the agencies  
5 should and I am sure do think hard about exactly how to  
6 did that. And that's an important exercise.

7           MR. SHAPIRO: Let me just clarify. There was  
8 kind of a sin no more at one extreme and then I heard a  
9 couple of people talking about structural remedies.  
10 There's a lot of running room in between.

11           MS. LEE: Agreed.

12           MS. GRIMM: Well, my watch says it is 4:30. I  
13 would like to thank all of our panelists for being here  
14 this afternoon and sharing with us their very insightful  
15 ideas.

16           I would also like to thank again the University  
17 of California at Berkeley for their hospitality.

18           Would everyone please join me in giving our  
19 panelists a round of applause.

20           (Applause.)

21           (Whereupon, at 4:30 p.m., the hearing was  
22 concluded.)

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1 C E R T I F I C A T I O N O F R E P O R T E R

2

3 DOCKET/FILE NUMBER: P062106

4 CASE TITLE: SECTION 2 HEARING, PREDATORY PRICING

5 DATE: JANUARY 31, 2007

6

7 I HEREBY CERTIFY that the transcript contained  
8 herein is a full and accurate transcript of the notes  
9 taken by me at the hearing on the above cause before the  
10 FEDERAL TRADE COMMISSION to the best of my knowledge and  
11 belief.

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DATED: February 22, 2007

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KATHLEEN CARR MEHEEN, CSR 8748

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